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National Marine Fisheries Service Survey of Trace Elements in the Fishery Resource

R. A. Hall, E. G. Zook, and
G. M. Meaburn

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U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
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G. M. Meaburn

March 1978

U.S. DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary
National Oceanic and Atmospheric Administration
Richard A. Frank, Administrator
National Marine Fisheries Service

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National Marine Fisheries Service Survey of Trace Elements in the Fishery Resource

R. A. HALL, E. G. ZOOK, and G. M. MEABURN[1]

ABSTRACT

Trace element levels have been determined in tissues of 204 species of finfish, Mollusca, and Crustacea taken from 198 sites around the coastal United States, including Alaska and Hawaii. The survey was undertaken as part of the Microconstituents Program of the National Marine Fisheries Service, and covers the occurrence of 15 elements: antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, molybdenum, nickel, selenium, silver, tin, vanadium, and zinc. Total concentrations of each element were determined without regard to chemical form. The species analyzed represent approximately 93% of the volume of the U.S. commercial and sportfish catch. The analytical data are summarized in several ways in order to emphasize different aspects of the trace element distributions. Mean levels of each element are presented in relation to the number of species examined, the U.S. (commercial and sportfish) catch, and the U.S. catch intended for consumption. More detailed analytical data on all 15 elements are given for individual species with reference to tissue analyzed, length and weight of fish, and location of catch. For the most part, experimental results are presented without interpretive comment. Mean levels of mercury, the only element for which a regulatory action level is in force, were found to exceed 0.5 ppm Hg in species representing less than 2% of the U.S. catch intended for consumption.

INTRODUCTION

A primary goal of the National Marine Fisheries Service (NMFS) is to promote the economic utilization of the Nation's fishery resource, in full recognition of the necessity to safeguard the health of the consumer. The NMFS Microconstituents Program was established with the purpose, among others, of developing information on the occurrence of trace elements in fishes and fishery products intended for human consumption. Over the past decade there has been a growing concern that certain chemical elements and their compounds entering the marine environment, chiefly as a result of industrial and urban pollution, may be accumulating in fishes at levels constituting a public health hazard. It was apparent in 1970, when the U.S. Food and Drug Administration (FDA) established a temporary action level for a permissable mercury content of fish, that there was a lack of information on trace element levels in fishes. Further, it was evident that a thorough assessment of any adverse effects of these microconstituents on the future utilization of the resource would require the availability of a broad data base to which newly acquired measurements of contaminants could be referred. To meet these needs and with the added incentive of reassuring a concerned fishing industry, NMFS undertook a series of surveys to determine, through chemical analysis of fish tissues, trace element levels throughout the U.S. fish supply.

A preliminary survey on the occurrence of five elements (arsenic, cadmium, chromium, lead, and mercury) was completed in 1974. At least 10 samples each of 29 commonly consumed, domestic and imported, fishes and shellfishes were analyzed in the study. With the exception of Pacific halibut, *Hippoglossus stenolepis*; Pacific rockfish (mixed species); and red snapper, *Lutjanus campechanus*, none of the samples contained mercury above the FDA action level of 0.5 ppm Hg. Details of this study have been published (Zook et al. 1976).

A comprehensive trace element survey, referred to here as the Resource Survey, was initiated in 1971 to cover the occurrence of 15 elements—antimony (Sb), arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), manganese (Mn), mercury (Hg), molybdenum (Mo), nickel (Ni), selenium (Se), silver (Ag), tin (Sn), vanadium (V), and zinc (Zn)—in 204 species representing at least 93% of the volume of the U.S. commercial catch (Wheeland 1973) and 93% of the volume of the U.S. sportfish catch (Deuel 1973). The elemental analyses provide baseline data to help identify where there may be a potential problem involving species, elements, or locations. This report presents the experimental data obtained during the course of the Resource Survey.

MATERIALS AND METHODS

Fish Collection

For purposes of fish collection and data assembly, U.S. coastal waters were divided into seven areas along natural and traditional boundaries. Each area was then divided into three degree lettered squares, except in Alaska, and subdivided into one degree sites as shown in

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Appendix Figure 1; Alaskan sites measure one by two degrees. Individuals from NMFS laboratories and affiliated agencies involved in fish collection (Appendix Table 1) in each of these areas, were asked to collect designated species of fish and shellfish. Most of the 167 requested species, genera, or families were collected. The original list was augmented by additional species to give a final tally of 204 species. Collectors were provided a protocol for labeling, preparing, storing, and shipping fishes, as well as a supply of Fish Data Labels (Appendix Figure 2).

Collectors were requested to supply enough fish of each assigned species to yield 10 2-lb samples of edible muscle (hereafter referred to as a group) from each of four sites within their area (40 samples per species per area). Fishes were frozen as soon as possible after capture and shipped under dry ice via air freight to the Utilization Research Division, Northwest and Alaska Fisheries Center,[2] Seattle, Wash., from Pacific locations, or to the College Park Laboratory, Southeast Fisheries Center,[3] College Park, Md., from Atlantic and Gulf of Mexico locations. Each fish was stored, as received, at −25°C until samples were prepared from them.

Wherever possible, collectors were asked to provide the common and scientific names, sex, length, weight, age, and tissue or cut of the fish; the date, depth, and location (latitude and longitude and/or local name) of capture; the number of individual fish; and the name of the boat and captain or market, as appropriate, on the Fish Data Label. If not performed by the collector, individual fish were counted, weighed, and measured at College Park and Seattle; fish were also sexed at Seattle.

Finfishes were received for sample preparation in various forms; whole, headed and gutted, headed only, gutted only, skinless fillets and chunks, with and without skin. Livers were included with about one-fourth of the finfishes. Some milt and roe were also received. Shellfishes were received both whole and prepared; shrimps were whole or headed; lobsters and crabs were in the shell; oysters and abalone were shucked; clams were in the shell or shucked; squid and octopi were whole; most scallops were received as abductor muscle only.

Sample Preparation

Fish were thawed immediately prior to sample preparation and processed as rapidly as possible to minimize any possible moisture loss, decomposition, or contamination from the laboratory environment. Skinless fillets or their closest equivalent were prepared from most finfishes. Some small species and juveniles of other species were ground whole or as otherwise received. Shrimps were headed, peeled, and, unless too small, deveined. Lobsters were prepared as body, claw, tail, leg, or a combination of claw and tail. Crabs were prepared as body, claw, or as a combination of the two parts. Clams and oysters were shucked. Except in one case, abductor muscles of scallops were prepared. Squid and octopi were prepared whole or as mantle only. Most samples consisted of raw tissue, although lobsters and some crabs from the Pacific coast were cooked. Each sample was assigned a laboratory reference number and thoroughly ground to provide a homogeneous mixture for analysis. From 1 to 10 subsamples of each sample were packed in polyethylene cups and stored at or below −25°C.

Analytical Procedures

All chemical analyses were performed under contract[4] by Omni Research, Inc., San German, Puerto Rico. The concentration levels of 15 elements were determined in each of approximately 15,000 sample cups, including controls and duplicates, by atomic absorption spectrophotometry (AAS). Mercury was analyzed by a flameless (cold vapor) method based on that described by Hatch and Ott (1968) and later applied to analysis of fish tissues (Uthe et al. 1970). Arsenic and selenium were analyzed as their hydrides following procedures based on the arsine generation method of Dalton and Malanoski (1971) and further adapted from a development of this method for analysis of As and Se in fish tissues (Southeast Utilization Research Center 1975[5]). The samples were at first digested for As analysis by dry ashing methods (about 40% of the samples). For the remainder of the As and all of the Se analyses, samples were wet ashed. The remaining elements (Sb, Cd, Cr, Cu, Pb, Mn, Mo, Ni, Ag, Sn, V, and Zn) were analyzed by conventional flame AAS, with direct aspiration of a digested sample after appropriate dilution. For Sb, Mo, Sn, and V analyses, samples were dry ashed only. For the other eight elements, approximately the first third of the 15,000 sample cups were analyzed following wet ashing with a HNO_3-$HClO_4$ mixture; these were reanalyzed along with the remaining samples when the contractor changed to a dry ashing procedure.

Numbered cups of all samples, including randomly interspersed control and replicate samples, were shipped in the frozen state by the College Park Laboratory to Omni at regular intervals. Omni was not aware of the contents of any cup.

Control samples were prepared from the raw muscle of Pacific halibut by grinding and thoroughly mixing the tissue from several large fish. They were packaged identically to the other samples. A minimum of 10 controls was included in each shipment of 300 sample cups. In all, approximately 600 controls were sent to the contractor. Four different control samples were used during consecutive periods of the contract. They were also used at the College Park Laboratory as control samples for in-house analytical experiments and other contractual work. Analytical results for controls were the first items checked

[2]Formerly known as the Pacific Utilization Research Center.
[3]Formerly known as the Southeast Utilization Research Center.

[4]Department of Commerce contract No. 2-35403, June 28, 1972.
[5]Southeast Utilization Research Center, NMFS. 1975. Arsenic and selenium in North American lobster (*Homarus americanus*) including relation to previously determined mercury content. NMFS in-house report, 71 p.

upon receipt of data from Omni. The values reported for each element were followed from shipment to shipment to detect any abnormal trends. Three consecutive high or low values were taken to indicate the existence of an analytical problem. To avoid having all samples in a group analyzed during a period of abnormally high or low values, whenever possible no more than two samples from the same group were sent in the same shipment. Bar graphs of control sample analytical values were constructed to assist in the evaluation and were sent periodically to Omni.

As a method of checking analytical reproducibility over time, in addition to using controls, a minimum of 20% of the samples from each group was to be duplicated in later shipments; overall duplication was about 50%. Single analyses were run on the remainder. Duplication was also used to confirm or reject suspect data.

Frequent contacts were made with Omni to review the status of contract work, including methods of analysis, variations in analytical values, their possible causes, and recommendations for correction.

Data Management

Collection and physical composition data were assembled from information furnished on the Fish Data Label (Appendix Figure 2) returned by collectors with each fish. Information that the collector failed to provide was added at College Park (e.g., length and weight of a whole fish), or gathered from a phone call or letter, when possible. Not all the information requested was available for all fishes. Depth of catch and age were seldom available; sex was sometimes available; latitude and longitude of catch were available for approximately half the fishes; date of catch, fish length and weight, and the number of fish were usually available; and some description of the catch location was almost always available. When only the weight of a headed, gutted, or headed and gutted fish was provided, that weight was converted to an estimated round weight.

The collection and physical composition data for each group of samples were then entered on a "history" sheet. If the collector did not send enough fish for 10 samples, as requested, samples composed of fish from similar dates of catch, location, and/or size were grouped together on one "history" sheet. These groups represent pages in the "history" sheet files and were a necessary means of checking the computer tapes.

When the analytical data were received from the contractor, they were entered on a coding form (Appendix Figure 3) with the data from the "history" sheet and were keypunched and entered into the computer. For the latter half of the samples, the contractor entered the analytical data directly on the coding forms.

To check that the data were entered correctly, a cycle of: 1) generate computer printout, 2) check printout for accuracy, 3) correct errors and add new data was repeated several times. Once all the data were in the computer, each group was reviewed using Grubbs' outlier test (paragraph 4.1 of Grubbs 1969) to determine if any values deviated from the group mean more than could be anticipated with normal statistical theory to remove grossly unreasonable lone values as well as to identify periods when values were repeatedly unreasonable. Using this approach, about 1% of the analytical values was determined to be too questionable for use in this report.

The Microconstituent Data Bank, in which the Resource Survey data are stored, is a card-to-tape system with a format similar to the coding form (Appendix Figure 3). It was established in 1973 for the purpose of storage, retrieval, and tabulation of data generated by the Resource Survey and similar studies. Twelve program runs, most with several choices of data breakdown, can be generated with programs presently in the system; Table 5, page 119, is an example of one of these, the MF17 program run. Other programs list species, broken down according to location, and provide a varying depth of detail from 1 to 15 elements. They also provide differing aggregates of history information.

RESULTS

Overview

The Resource Survey provides information on the occurrence of 15 elements in the fishery resource. It covers 204 species taken from 198 sites in 7 areas of U.S. coastal waters. Excluding controls, a total of 9,347 unique samples of 13 different tissues or product forms were analyzed.

The contractor returned approximately 220,000 analytical values of element levels, including replicates but excluding controls. Of these, about 2,900 values were rejected according to the criteria established for data checking. Approximately 37,500 analyses were reported by the contractor as "not detected" or "zero" without reference to detection limits and consequently were not used to determine mean trace element levels.

In a project of this magnitude, invariably some information is lost and a degree of uncertainty introduced into the data as a result of logistical and analytical difficulties encountered during various phases of the work. There were periods during this survey when analytical results reported by the contractor reflected problems of this kind. At times, imprecision in the data could be associated with changes in methodology and analytical procedures. During some periods, many of the samples appeared to have been contaminated with one or more elements. At other times, only occasional unreasonably high values were reported.

When checking data, it is relatively simple to find a single deviant value among the results of many analyses on the same sample or even the same species, i.e., when comparing similar fish. It is generally impossible to distinguish between deviant and acceptable values, however, when few analyses are available. Therefore, there is a much higher chance of reporting an inaccurate value of the mean element content of a species

represented by very few samples. Furthermore, if two samples of the same species are analyzed during a period of deviant values, their reported element contents tend to lend credence to each other and, therefore, cannot easily be removed from the data collection, although it is recognized that their inclusion leads to less accurate mean values. Attempts were made, through data checking, to remove all such deviant values.

After reviewing the values received for the control samples as well as the results of the outlier tests, generalizations can be made on the precision of the data. Analytical results on controls for Ag and Mn were very consistent and very few of the values had to be rejected. Controls for Cd were at first reported as zero, but shortly after the contractor changed to a dry ash methodology for this element, the analytical values for controls became very consistent. Very few Cd values were eliminated. Likewise, there were few Hg values discarded; however, there was slightly more variation among the control values for Hg. Zinc showed fairly consistent controls but had occasional abnormally high values overall, with about 1% being rejected, while Ni, Cu, and Se showed more variation in the controls than did Zn but had fewer abnormal values overall. During one short period, Ni and Zn both had a series of abnormal values. Lead and chromium both showed an abundance of zero control values for samples analyzed following wet digestion and erratic standard values for samples that had been dry ashed. There were several periods when almost all of the values for both elements were too high to be included in the mean, based on the outlier test. Approximately 2% of the Pb values and 3% of the Cr values were discarded. The Sn controls showed variability similar to Pb and Cr but with even more periods of high values. About 4% of the Sn values were not used, including almost all of one series of 150 samples. Although only about 1% of the reported As values was discarded, As showed more variation than any other element, with standard deviations approaching the mean value itself. Moreover, As control values became higher shortly after a change from dry ash to wet ash methodology. Results received for Mo, V, and Sb differed greatly within themselves over time. Each had periods when almost all results were reported as zero. When not zero, Sb results showed some degree of reproducibility while Mo and V values were more erratic.

Explanation of Tables

A list of all species analyzed in the Resource Survey is presented in alphabetical order, by common name, in Table 1. The species numbers are those assigned by the College Park Laboratory for use in the Microconstituent Data Bank and are the same as those used in Tables 2, 4, and 5. The first three digits refer to a fish family; the last three digits refer to a species within that family. The scientific name for each species is also given.

Areas in which the fish were caught, types of tissue analyzed, and the total number of samples of each species in the survey are presented in species number order in Table 2. Some species were captured in more than one area and more than one tissue was sometimes analyzed for one species. Specific tissues taken from a single species were not necessarily analyzed for fish from all listed areas, e.g., black sea bass livers were analyzed only for fish collected from the South Atlantic, although muscle was analyzed for both North and South Atlantic fish.

Table 3 is in 15 parts. Each part presents a summarized view of the levels of one of the elements measured in the Resource Survey, e.g., the distribution of mean mercury level is shown in Table 3.8. The ranges of mean analytical values are broken out separately for each tissue examined. The number of species, the percent of the U.S. commercial and sportfish catch intended for human consumption represented by those species, based on 1970 figures (Deuel 1973; Wheeland 1973), are listed next to the corresponding range. Because Table 3 does not identify species, data on one tissue may not be compared with data on other tissues; Table 4 should be consulted to determine which species fall in a particular range and how many samples of those species were analyzed.

The 15 parts of Table 4 are alphabetical lists of Resource Survey species, showing the distribution of mean elemental levels in the tissues analyzed for each species. The columns on the right correspond to the ranges of mean analytical values listed in Table 3; the range delineating the mean analytical value for a particular tissue of each species is marked accordingly. The two columns of numbers give the total number of samples analyzed and the number of sample values used in calculating the mean; "not detected" or "zero" values were not used in calculating the mean.

Table 5 is an MF17 computer printout for the entire Resource Survey from the Microconstituent Data Bank. Each species is listed separately in species number order. The species numbers are the same as those listed in Table 1 and are found to the right of the scientific name. Within each species, each tissue is listed separately. Sites are one degree squares from a specific area (one by two in Alaska) designating the location of catch according to the map shown in Appendix Figure 1. The mean analytical value is calculated for each unique species-tissue-site combination. If known, length and weight data are tabulated along with the number of samples for which the fish were measured. The mean, standard deviation and range of these lengths and weights are given in meters and kilograms, respectively. This information is followed by the analytical data for each element. Included are the total number of samples from the site, the number of samples in which none of the element was detected ("N Det."), together with the mean, standard deviation and range of all detected analytical values.

It should be noted that some of the species are represented by very few samples and their mean elemental values may not be as reliable as those found for species more extensively sampled. Where there is a high proportion of "not detected" or "zero" values, their ex-

clusion can also give rise to less reliable data by overestimating mean values.

Element Levels

The distribution of mean element levels in Resource Survey species is summarized in Table 3 for the 159 species of finfishes whose muscle was analyzed, 82 species whose liver was analyzed, 17 species of whole finfish, 18 species of Mollusca, and 16 species of Crustacea. The main features of the results are outlined below for each of the elements analyzed.

Antimony (Sb): The mean Sb levels in most finfish muscles and livers fell in the range 0.5-0.9 ppm. Most species of whole finfishes contained Sb levels between 1.0 and 3.0 ppm. Most shellfish species displayed mean Sb levels between 0.8 and 1.0 ppm.

Arsenic (As): The mean As levels showed a wide range of values for finfish muscles and livers, whole finfishes, and Mollusca, with most species falling between 2.0 and 5.0 ppm in each category. Crustacea showed somewhat higher levels, with the largest number of species falling between 4.0 and 5.0 ppm.

Cadmium (Cd): Finfish muscles usually contained less than 0.1 ppm Cd, whereas finfish livers ranged in Cd content up to 30.0 ppm with no apparent mode. The whole finfishes examined generally fell in the range 0.1-0.3 ppm Cd as did Mollusca and Crustacea, with Mollusca showing more variation than the other two.

Chromium (Cr): Except for whole finfishes, the mean Cr levels for most species fell within the range 0.1-0.4 ppm. A range of 0.2-0.6 ppm Cr was found for the majority of the whole finfishes analyzed.

Copper (Cu): There is a significant difference in mean Cu levels between finfish muscles and livers. The muscles ranged from 0.1 to 2.0 ppm Cu, with most species falling between 0.2 and 0.5 ppm. On the other hand, livers ranged from 1.0-110.0 ppm, with no apparent mode. Although no pattern could be discerned for whole finfishes and shellfishes, much higher Cu levels were found in the shellfishes.

Lead (Pb): The mean Pb levels in the majority of species were found to fall in the following ranges: finfish muscles, 0.3-0.7 ppm; finfish livers, 0.2-0.6 ppm; Mollusca and Crustacea, 0.5-0.8 ppm. No pattern was observed for mean Pb levels in whole finfishes.

Manganese (Mn): Mean Mn levels in finfish muscles and livers ranged up to 2.0 ppm, with muscles usually below 0.3 ppm and livers usually above 0.6 ppm. Whole finfishes exhibited a mode in the range 1.0-2.0 ppm Mn.

Mercury (Hg): Most finfish muscles had mean Hg levels below 0.3 ppm and only 31 species were found to contain mean Hg levels above the FDA action level of 0.5 ppm. However, these 31 species represent only one percentage point of the 63.9% of the catch intended for consumption represented by the 159 species analyzed. Extrapolation of these results indicates that, in fact, less than 2% of the U.S. catch intended for consumption may be in excess of the action level. Of the 31 species above 0.5 ppm Hg, 10 are sharks and 4 are billfishes. Livers generally showed slightly higher Hg levels than muscle samples. All species of whole finfishes had mean Hg levels below 0.3 ppm. Likewise, Crustacea had mean levels less than 0.3 ppm Hg and Mollusca were all below 0.1 ppm.

Molybdenum (Mo): The mean Mo levels for the majority of finfish muscles and livers, whole finfishes and Mollusca, and all the Crustacea ranged from< 0.1 to 0.4 ppm Mo.

Nickel (Ni): The distributions for Ni are similar to those found for Cr. The mean Ni levels in finfish muscles and livers ranged from 0.1 to 0.3 ppm for most species. The majority of the whole finfishes were between 0.3 and 0.5 ppm Ni. For most of the Crustacea the range of mean Ni levels was 0.2-0.4 ppm.

Selenium (Se): With the exception of finfish livers, no mean Se values were greater than 2.0 ppm. For finfish muscles, the mean level in the majority of species ranged from 0.4 to 0.9 ppm Se. Finfish livers showed a greatly extended range of 0.6-30.0 ppm, with the majority between 1.0 and 3.0 ppm.

Silver (Ag): Finfish muscles contained mean levels less than 0.1 ppm Ag for all but one specimen examined. The majority of the species in the other categories were likewise below 0.1 ppm Ag, although livers ranged up to 0.6 ppm, whole finfishes to 0.2 ppm, Mollusca to 0.7 ppm, and Crustacea up to 0.5 ppm.

Tin (Sn): The ranges of mean Sn levels for most species were 0.4-0.8 ppm for muscles and 0.3-0.7 ppm for livers. Most of the whole finfishes contained 1.0-2.0 ppm Sn.

Vanadium (V): The mean V levels of finfish muscles and livers were below 0.5 ppm for most species, although livers tended to be higher than muscles. Most whole finfishes had mean values of V less than 0.8 ppm. Vanadium levels in most shellfishes fell between 0.2 and 0.5 ppm.

Zinc (Zn): The distributions for Zn are similar to those found for Cu, although the values are higher. Muscles ranged from 2.0 to 20.0 ppm, with the majority of species falling in the range 3.0-6.0 ppm, whereas livers ranged from 4.0 to 700.0 ppm, with the majority of species in the range 10.0-40.0 ppm Zn.

CONCLUDING REMARKS

The completion of this data report does not bring the Resource Survey to an end. No attempt has been made here, for example, to compare element levels in a particular species or to investigate possible relationships between element levels and fish location, size, or sex. The analytical values have been summarized by site only for each species and tissue, and very little of the history of the fish has been presented. Many of the data not made available here will be presented in the form of detailed data reports. Two such reports currently in preparation present trace element levels in fishes and shellfishes taken from the New York Bight and adjacent waters, and in sharks caught in U.S. waters. The com-

plete collection of data is available for use in interpretive studies. It is also anticipated that the data will be made available to the public, in the future, through the National Oceanographic Data Center, Environmental Data Service, National Oceanic and Atmospheric Administration, Rockville, Md.

This work represents an essential first step towards a better understanding of possible constraints that may be placed upon the safe and economic utilization of the Nation's fishery resource due to contamination by trace elements. It provides a broad view of the occurrence of 15 elements and contains baseline information that should be of assistance in planning future, more detailed investigations of trace element levels in selected species of fishes and shellfishes. Several such in-depth studies are currently underway on species revealed to be relatively high in one or more elements. Some underutilized species are also being studied in depth because of their potential commercial value, not necessarily because they are known to be high in any element. Other surveys of this kind are being undertaken in locations believed to be polluted. Elements selected for detailed investigations include those found in toxic form and those believed to offset the toxic effects of others through chemical or biochemical interactions. In the long term, the ability to distinguish between toxic and relatively harmless contaminants would be extremely valuable from a public health standpoint and in assisting efficient management of the fishery resource.

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LITERATURE CITED

DALTON, E. F., and A. J. MALANOSKI.
1971. Note on the determination of arsenic by atomic absorption by arsine generation into an argon-hydrogen entrained air flame. Atomic Absorption Newsletter 10:92-93.

DEUEL, D. G.
1973. 1970 salt-water angling survey. U.S. Dep. Commer., NOAA, Natl. Mar. Fish. Serv., Curr. Fish. Stat. 6200, 54 p.

GRUBBS, G. E.
1969. Procedures for detecting outlying observations in samples. Technometrics 11:1-21.

HATCH, W. R., and W. L. OTT.
1968. Determination of sub-microgram quantities of mercury by atomic absorption spectrophotometry. Anal. Chem. 40:2085-2087.

UTHE, J. F., F. A. J. ARMSTRONG, and M. P. STAINTON.
1970. Mercury determination in fish samples by wet digestion and flameless atomic absorption spectrophotometry. J. Fish. Res. Board Can. 27:805-811.

WHEELAND, H. A.
1973. Fishery statistics of the United States, 1970. U.S. Dep. Comm., NOAA, Natl. Mar. Fish. Serv., Stat. Dig. 64, 489 p.

ZOOK, E. G., J. J. POWELL, B. M. HACKLEY, J. A. EMERSON, J. R. BROOKER, and G. M. KNOBL, Jr.
1976. National Marine Fisheries Service preliminary survey of selected seafoods for mercury, lead, cadmium, chromium and arsenic content. J. Agric. Food Chem. 24:47-53.

Table 1.—Alphabetical list of species analyzed in the Resource Survey.

Common name	Species number	Scientific name
Abalone, green	187-005	*Haliotis fulgens*
Abalone, red	187-008	*Haliotis rufescens*
Alewife	078-005	*Alosa pseudoharengus*
Anchovy, northern	001-016	*Engraulis mordax*
Anchovy, striped	001-006	*Anchoa hepsetus*
Argentine, Atlantic	002-002	*Argentina silus*
Ballyhoo	062-014	*Hemiramphus brasiliensis*
Barracuda, Atlantic	005-002	*Sphyraena barracuda*
Barracuda, Pacific	005-001	*Sphyraena argentea*
Bass, black sea	006-006	*Centropristis striata*
Bass, striped	007-004	*Morone saxatilis*
Bluefish	012-001	*Pomatomus saltatrix*
Bonito, Atlantic	091-011	*Sarda sarda*
Bonito, Pacific	091-009	*Sarda chiliensis*
Bullhead, brown	021-007	*Ictalurus nebulosus*
Butterfish	018-014	*Peprilus triacanthus*
Catfish, channel	021-010	*Ictalurus punctatus*
Catfish, gafftopsail	023-002	*Bagre marinus*
Catfish, sea	023-001	*Arius felis*
Catfish, white	021-002	*Ictalurus catus*
Clam, butter	191-003	*Saxidomus gigantea*
Clam, hard (quahog)	191-001	*Mercenaria mercenaria*
Clam, Pacific littleneck	191-008	*Protothaca staminea*
Clam, razor	243-002	*Siliqua patula*
Clam, soft	242-001	*Mya arenaria*
Clam, surf	244-005	*Spisula solidissima*
Cod, Atlantic	033-008	*Gadus morhua*
Cod, Pacific (gray)	033-007	*Gadus macrocephalus*
Crab, blue	196-001	*Callinectes sapidus*
Crab, Dungeness	196-011	*Cancer magister*
Crab, king	196-012	*Paralithodes camschatica*
Crab, red, deep sea	196-006	*Geryon quinquedens*
Crab, rock	196-003	*Cancer erroratus*
Crab, tanner (bairdi)	196-035	*Chionoecetes bairdi*
Croaker, Atlantic	045-026	*Micropogon undulatus*
Cusk	033-004	*Brosme brosme*
Cusk-eel, fawn	037-004	*Lepophidium cervinum*
Dogfish, smooth	145-018	*Mustelus canis*
Dogfish, spiny	141-007	*Squalus acanthias*
Dolphin	040-002	*Coryphaena hippurus*
Drum, banded	045-019	*Larimus fasciatus*
Drum, black	045-028	*Pogonias cromis*
Drum, red	045-030	*Sciaenops ocellata*
Eel, American	051-001	*Anguilla rostrata*
Eel, conger	047-002	*Conger oceanicus*
Eulachon	153-009	*Thaleichthys pacificus*
Flounder, fourspot	058-028	*Paralichthys oblongus*
Flounder, Gulf	058-024	*Paralichthys albigutta*
Flounder, southern	058-027	*Paralichthys lethostigma*
Flounder, summer (fluke)	058-026	*Paralichthys dentatus*
Flounder, windowpane (s. dab)	058-030	*Scophthalmus aquosus*
Flounder, winter	059-030	*Pseudopleuronectes americanus*
Flounder, witch	059-005	*Glyptocephalus cynoglossus*
Flounder, yellowtail	059-016	*Limanda ferruginea*
Gag	006-040	*Mycteroperca microlepis*
Goatfish	066-009	*Mulloidichtys samoensis*
Goosefish	068-001	*Lophius americanus*
Grouper, black	006-037	*Mycteroperca bonaci*
Grouper, red	006-017	*Epinephelus morio*
Grouper, yellowmouth	006-038	*Mycteroperca interstitialis*
Grunt, bluestriped (yellow)	073-015	*Haemulon sciurus*
Grunt, white	073-014	*Haemulon plumieri*
Haddock	033-011	*Melanogrammus aeglefinus*
Hake, Pacific	033-013	*Merluccius productus*
Hake, red	033-020	*Urophycis chuss*
Hake, silver (whiting)	033-012	*Merluccius bilinearis*
Hake, spotted	033-024	*Urophycis regius*
Hake, white	033-025	*Urophycis tenuis*
Halibut, Pacific	059-011	*Hippoglossus stenolepis*
Hammerhead, scalloped	143-001	*Sphyrna lewini*

Table 1.—Alphabetical list of species analyzed in the Resource Survey.—*Continued.*

Common name	Species number	Scientific name
Hammerhead, smooth	143-005	*Sphyrna zygaena*
Harvestfish	018-011	*Peprilus alepidotus*
Herring, Atlantic	078-011	*Clupea harengus harengus*
Herring, blueback	078-001	*Alosa aestivalis*
Herring, Pacific	078-012	*Clupea harengus pallasi*
Herring, round	078-015	*Etrumeus teres*
Hind, speckled	006-013	*Epinephelus drummondhayi*
Jack (mackerel scad)	079-068	*Decapterus pinnulatus*
Jack, akule	079-053	*Trachurops crumenopthalmus*
Jack, crevalle	079-005	*Caranx hippos*
Jack, crevalle (Hawaii)	079-069	*Caranx melampygus*
Jacksmelt	149-004	*Atherinopsis californiensis*
Jewfish	006-016	*Epinephelus itajara*
Kingfish, northern	045-024	*Menticirrhus saxatilis*
Kingfish, southern	045-021	*Menticirrhus americanus*
Ladyfish	200-002	*Elops saurus*
Lingcod	071-005	*Ophiodon elongatus*
Lobster, northern (American)	194-012	*Homarus americanus*
Lobster, spiny (Atlantic)	194-002	*Panulirus argus*
Lobster, spiny (Pacific)	194-003	*Panulirus interruptus*
Mackerel, Atlantic	091-013	*Scomber scombrus*
Mackerel, chub	091-012	*Scomber japonicus*
Mackerel, jack	079-034	*Trachurus symmetricus*
Mackerel, king	091-014	*Scomberomorus cavalla*
Mackerel, Spanish	091-016	*Scomberomorus maculatus*
Mako, shortfin	144-003	*Isurus oxyrinchus*
Marlin, blue	011-002	*Makaira nigricans*
Marlin, striped	011-005	*Tetrapturus audax*
Marlin, white	011-003	*Tetrapturus albidus*
Mempachi	162-012	*Myripristis argyromus*
Menhaden, Atlantic	078-010	*Brevoortia tyrannus*
Menhaden, Gulf	078-008	*Brevoortia patronus*
Menhaden, yellowfin	078-009	*Brevoortia smithi*
Milkfish	206-001	*Chanos chanos*
Mojarra, yellowfin	094-010	*Gerres cinereus*
Mullet, silver (white)	098-003	*Mugil curema*
Mullet, striped	098-002	*Mugil cephalus*
Octopus (marmuratus)	205-001	*Polypus marmuratus*
Oyster, eastern	189-001	*Crassostrea virginica*
Oyster, Pacific (giant)	189-002	*Crassostrea gigas*
Palometa	079-030	*Trachinotus goodei*
Perch, ocean (Pacific)	131-023	*Sebastes alutus*
Perch, ocean (redfish)	131-052	*Sebastes marinus*
Perch, sand	006-010	*Diplectrum formosum*
Perch, shiner	168-005	*Cymatogaster aggregata*
Perch, silver	045-003	*Bairdiella chrysura*
Perch, white	007-001	*Morone americana*
Permit	079-029	*Trachinotus falcatus*
Pigfish	073-017	*Orthopristis chrysoptera*
Pinfish, spottail	114-013	*Diplodus holbrooki*
Plaice, American (dab)	059-008	*Hippoglossoides platessoides*
Pollock	033-017	*Pollachius virens*
Pollock, walleye (Alaska)	033-019	*Theragra chalcogramma*
Pompano, Florida	079-028	*Trachinotus carolinus*
Porgy, red	114-014	*Pagrus sedecim*
Pout, ocean	056-018	*Macrozoarces americanus*
Rockfish, bocaccio	131-061	*Sebastes paucispinis*
Rockfish, canary	131-063	*Sebastes pinniger*
Rockfish, copper	131-031	*Sebastes caurinus*
Rockfish, yellowtail	131-043	*Sebastes flavidus*
Runner, blue	079-004	*Caranx crysos*
Sablefish	126-001	*Anoplopoma fimbria*
Sailfish	011-001	*Istiophorus platypterus*
Salmon, chinook (king)	179-020	*Oncorhynchus tshawytscha*
Salmon, chum (keta)	179-017	*Oncorhynchus keta*
Salmon, coho (silver)	179-018	*Oncorhynchus kisutch*
Salmon, pink	179-016	*Oncorhynchus gorbuscha*
Salmon, sockeye (red)	179-019	*Oncorhynchus nerka*
Scad, round	079-013	*Decapterus punctatus*
Scallop, Atlantic bay	190-014	*Aequipecten irradians*

Table 1.—Alphabetical list of species analyzed in the Resource Survey.—*Continued.*

Common name	Species number	Scientific name
Scallop, calico	190-016	*Aequipecten gibbus*
Scallop, pink	190-028	*Chlamys hericius*
Scallop, sea (smooth)	190-013	*Placopecten magellanicus*
Scamp	006-041	*Mycteroperca phenax*
Sculpin, longhorn	132-031	*Myoxocephalus octodecemspinosus*
Scup	114-016	*Stenotomus chrysops*
Searobin, northern	135-010	*Prionotus carolinus*
Searobin, striped	135-011	*Prionotus evolans*
Seatrout, gray (weakfish)	045-012	*Cynoscion regalis*
Seatrout, sand	045-007	*Cynoscion arenarius*
Seatrout, silver (white)	045-010	*Cynoscion nothus*
Seatrout, spotted (speckled)	045-008	*Cynoscion nebulosus*
Shad, American	078-006	*Alosa sapidissima*
Shark, Atlantic sharpnose	145-025	*Rhizoprionodon terraenovae*
Shark, blacktip	145-006	*Carcharhinus limbatus*
Shark, blue	145-023	*Prionace glauca*
Shark, dusky	145-010	*Carcharhinus obscurus*
Shark, sandbar	145-009	*Carcharhinus milberti*
Shark, white	144-001	*Carcharodon carcharias*
Sheepshead	114-001	*Archosargus probatocephalus*
Shrimp, Alaska (sidestripe)	192-012	*Pandalopsis dispar*
Shrimp, brown	192-005	*Penaeus aztecus*
Shrimp, ocean	192-007	*Pandalus jordani*
Shrimp, pink	192-010	*Penaeus duorarum*
Shrimp, pink (northern)	192-011	*Pandalus borealis*
Shrimp, royal red	192-003	*Hymenopenaeus robustus*
Shrimp, white	192-004	*Penaeus setiferus*
Skate, little	150-005	*Raja erinacea*
Skate, winter	150-012	*Raja ocellata*
Snapper, blackfin	155-005	*Lutjanus buccanella*
Snapper, gray	155-025	*Aprion virescens*
Snapper, gray (mangrove)	155-008	*Lutjanus griseus*
Snapper, red	155-006	*Lutjanus campechanus*
Snapper, red (ehu)	155-024	*Etelis marchi*
Snapper, vermilion	155-015	*Rhomboplites aurorubens*
Snapper, yellowtail	155-013	*Ocyurus chrysurus*
Snook	157-004	*Centropomus undecimalis*
Sole, Dover	059-021	*Microstomus pacificus*
Sole, English	059-022	*Parophrys vetulus*
Sole, petrale	059-004	*Eopsetta jordani*
Sole, rex	059-006	*Glyptocephalus zachirus*
Sole, rock	059-014	*Lepidopsetta bilineata*
Spearfish, shortbill	011-004	*Tetrapturus angustirostris*
Spot	045-020	*Leiostomus xanthurus*
Squid, Atlantic longfinned	188-003	*Loligo pealii*
Squid, Pacific	188-006	*Loligo opalescens*
Squid, shortfinned	188-014	*Illex illecebrosus*
Sturgeon, green	166-003	*Acipenser medirostris*
Surfperch, barred	168-001	*Amphistichus argenteus*
Tarpon	200-003	*Megalops atlantica*
Tautog	185-022	*Tautoga onitis*
Tilefish	174-003	*Lopholatilus chamaeleonticeps*
Trout, cutthroat	179-028	*Salmo clarki*
Trout, rainbow (steelhead)	179-029	*Salmo gairdneri*
Tuna, albacore	091-019	*Thunnus alalunga*
Tuna, bigeye	091-022	*Thunnus obesus*
Tuna, blackfin	091-021	*Thunnus atlanticus*
Tuna, bluefin	091-023	*Thunnus thynnus*
Tuna, skipjack	091-008	*Katsuwonus pelamis*
Tuna, yellowfin	091-020	*Thunnus albacares*
Tunny, little	091-006	*Euthynnus alletteratus*
Wahoo	091-001	*Acanthocybium solanderi*
Wolffish, Atlantic	183-002	*Anarhichas lupus*
Yellowtail	079-023	*Seriola dorsalis*

Table 2. Resource Survey: Areas of Catch, Tissues Analyzed, and Number of Samples Analyzed; by Species

Species Number	Species Name	Areas of Catch	Tissues Analyzed	No. of Samples
001-006	Anchovy, striped	Gulf of Mexico	headed & gutted	40
001-016	Anchovy, northern	California	whole	40
002-002	Argentine, Atlantic	N. Atlantic	headed & gutted	7
005-001	Barracuda, Pacific	California	muscle	20
005-002	Barracuda, Atlantic	Gulf of Mexico	muscle	7
006-006	Bass, black sea	N. & S. Atlantic	muscle, liver	57
006-010	Perch, sand	S. Atlantic	muscle	1
006-013	Hind, speckled	S. Atlantic	muscle, liver	27
006-016	Jewfish	Gulf of Mexico	muscle	8
006-017	Grouper, red	Gulf of Mexico	muscle	41
006-037	Grouper, black	Gulf of Mexico	muscle	34
006-038	Grouper, yellowmouth	S. Atlantic	muscle, liver	11
006-040	Gag	Gulf of Mexico	muscle	30
006-041	Scamp	S. Atlantic	muscle, liver	11
007-001	Perch, white	N. Atlantic	muscle, headed & gutted	46
007-004	Bass, striped	N. Atlantic, California, Northwest	muscle, liver	120
011-001	Sailfish	N. & S. Atlantic, Gulf of Mexico	muscle, liver	46
011-002	Marlin, blue	N. & S. Atlantic, Hawaii	muscle, liver	44
011-003	Marlin, white	N. & S. Atlantic, Gulf of Mexico	muscle, liver	65
011-004	Spearfish, shortbill	Hawaii	muscle, liver	19
011-005	Marlin, striped	Hawaii	muscle, liver	49
012-001	Bluefish	N. & S. Atlantic, Gulf of Mexico	muscle, liver	77
018-011	Harvestfish	N. & S. Atlantic	muscle, whole	19
018-014	Butterfish	N. Atlantic	muscle, whole, headed & gutted	90
021-002	Catfish, white	N. Atlantic	muscle	1
021-007	Bullhead, brown	N. Atlantic	muscle	4
021-010	Catfish, channel	N. Atlantic	muscle	20
023-001	Catfish, sea	Gulf of Mexico	muscle, liver	53
023-002	Catfish, gafftopsail	Gulf of Mexico	muscle, liver	37
033-004	Cusk	N. Atlantic	muscle, liver	94
033-007	Cod, Pacific (gray)	Northwest, Alaska	muscle, liver	75
033-008	Cod, Atlantic	N. Atlantic	muscle, liver	150
033-011	Haddock	N. Atlantic	muscle, liver, whole	96
033-012	Hake, silver (whiting)	N. Atlantic	muscle, liver	86
033-013	Hake, Pacific	California, Northwest	muscle, liver	50
033-017	Pollock	N. Atlantic	muscle, liver	106
033-019	Pollock, walleye (Alaska)	Northwest, Alaska	muscle, liver	51
033-024	Hake, red	N. Atlantic	muscle	65
033-024	Hake, spotted	N. Atlantic	muscle	65
033-025	Hake, white	N. Atlantic	muscle, liver	101
037-004	Cusk-eel, fawn	N. Atlantic	muscle	2
041-002	Dolphin	S. Atlantic, Gulf of Mexico, Hawaii	muscle, liver	91
045-003	Perch, silver	S. Atlantic	muscle	20
045-007	Seatrout, sand	Gulf of Mexico	muscle	18
045-008	Seatrout, spotted (speckled)	N. & S. Atlantic, Gulf of Mexico	muscle, liver	92
045-010	Seatrout, silver (white)	Gulf of Mexico	muscle, liver	45
045-012	Seatrout, gray (weakfish)	N. & S. Atlantic	muscle, liver, whole	85
045-019	Drum, banded	N. & S. Atlantic	muscle	5
045-020	Spot	N. & S. Atlantic	muscle	54
045-021	Kingfish, southern	Gulf of Mexico	muscle, liver	15
045-024	Kingfish, northern	N. Atlantic	muscle	6
045-026	Croaker, Atlantic	N. & S. Atlantic, Gulf of Mexico	muscle	92
045-028	Drum, black	Gulf of Mexico	muscle, liver	63
045-030	Drum, red	N. & S. Atlantic, Gulf of Mexico	muscle, liver	76
047-002	Eel, conger	N. Atlantic	muscle	1
051-001	Eel, American	N. Atlantic	muscle	30
056-018	Pout, ocean	N. Atlantic	muscle, liver	37
058-024	Flounder, Gulf	Gulf of Mexico	muscle, liver	42
058-026	Flounder, summer (fluke)	S. Atlantic	muscle, liver	44
058-027	Flounder, southern	S. Atlantic, Gulf of Mexico	muscle, liver	44
058-028	Flounder, fourspot	N. Atlantic	muscle	71
058-030	Flounder, windowpane (s. dab)	N. Atlantic	muscle	18
059-004	Sole, petrale	California, Northwest	muscle, liver	64
059-005	Flounder, witch	N. Atlantic	muscle	71
059-006	Sole, rex	California, Northwest	muscle	61
059-008	Plaice, American (dab)	N. Atlantic	muscle	69
059-011	Halibut, Pacific	Northwest, Alaska	muscle, liver	53
059-014	Sole, rock	Northwest	muscle	10
059-016	Flounder, yellowtail	N. Atlantic	muscle, liver	91
059-021	Sole, Dover	California, Northwest	muscle, liver	74
059-022	Sole, English	California, Northwest	muscle, liver	78
059-030	Flounder, winter	N. Atlantic	muscle, liver	125
062-014	Ballyhoo	S. Atlantic	whole	58
066-009	Goatfish	Hawaii	muscle	40
068-001	Goosefish	N. Atlantic	muscle, liver, headed & gutted	92

Table 2. Resource Survey: Areas of Catch, Tissues Analyzed, and Number of Samples Analyzed; by Species (cont'd)

Species Number	Species Name	Areas of Catch	Tissues Analyzed	No. of Samples
071-005	Lingcod	California, Northwest	muscle, liver	91
073-014	Grunt, white	S. Atlantic, Gulf of Mexico	muscle	17
073-015	Grunt, bluestriped (yellow)	S. Atlantic, Gulf of Mexico	muscle	16
073-017	Pigfish	N. & S. Atlantic	muscle	34
078-001	Herring, blueback	N. Atlantic	whole	1
078-005	Alewife	N. Atlantic	muscle, whole	47
078-006	Shad, American	N. Atlantic, Northwest	muscle	60
078-008	Menhaden, Gulf	Gulf of Mexico	muscle, whole, gutted	87
078-009	Menhaden, yellowfin	Gulf of Mexico	whole	13
078-010	Menhaden, Atlantic	N. & S. Atlantic	muscle, whole	111
078-011	Herring, Atlantic	N. Atlantic	muscle, whole, headed, headed & gutted	95
078-012	Herring, Pacific	Northwest, Alaska	muscle, whole	44
078-015	Herring, round	N. Atlantic	headed & gutted	50
079-004	Runner, blue	Gulf of Mexico	muscle, liver	60
079-005	Jack, crevalle	Gulf of Mexico	muscle, liver	53
079-013	Scad, round	S. Atlantic	headed & gutted	3
079-023	Yellowtail	California	muscle	24
079-028	Pompano, Florida	S. Atlantic, Gulf of Mexico	muscle, liver	65
079-029	Permit	S. Atlantic	muscle	9
079-030	Palometa	S. Atlantic	muscle	2
079-034	Mackerel, jack	California	muscle, liver, headed	15
079-053	Jack, akule	Hawaii	muscle	39
079-068	Jack, (mackerel scad)	Hawaii	muscle	40
079-069	Jack, crevalle (Hawaii)	Hawaii	muscle	40
091-001	Wahoo	Gulf of Mexico, Hawaii	muscle, liver	21
091-006	Tunny, little	Gulf of Mexico	muscle, liver	52
091-008	Tuna, skipjack	California, Hawaii, Pacific	muscle, liver	78
091-009	Bonito, Pacific	California	muscle, liver	41
091-011	Bonito, Atlantic	Gulf of Mexico	muscle	15
091-012	Mackerel, chub	California	muscle	30
091-013	Mackerel, Atlantic	N. Atlantic	muscle	80
091-014	Mackerel, king	S. Atlantic, Gulf of Mexico	muscle, liver, milt, roe	129
091-016	Mackerel, Spanish	S. Atlantic, Gulf of Mexico	muscle, liver	113
091-019	Tuna, albacore	California, Northwest	muscle, liver	45
091-020	Tuna, yellowfin	California, Hawaii	muscle, liver	106
091-021	Tuna, blackfin	Gulf of Mexico	muscle	1
091-022	Tuna, bigeye	Hawaii	muscle, liver	61
091-023	Tuna, bluefin	N. Atlantic, California	muscle, liver	12
094-010	Mojarra, yellowfin	S. Atlantic	muscle	10
098-002	Mullet, striped	S. Atlantic, Gulf of Mexico, Hawaii	muscle, liver	163
098-003	Mullet, silver (white)	S. Atlantic, Gulf of Mexico	muscle	36
114-001	Sheepshead	Gulf of Mexico	muscle, liver	62
114-013	Pinfish, spottail	S. Atlantic	muscle, liver	11
114-014	Porgy, red	S. Atlantic	muscle, liver	23
114-016	Scup	N. & S. Atlantic	muscle	72
126-001	Sablefish	California, Northwest, Alaska	muscle, liver	118
131-023	Perch, ocean (Pacific)	Northwest	muscle, liver	48
131-031	Rockfish, copper	Northwest	muscle	10
131-043	Rockfish, yellowtail	Northwest	muscle	20
131-052	Perch, ocean (redfish)	N. Atlantic	muscle, liver	82
131-061	Rockfish, bocaccio	California, Northwest	muscle, liver	52
131-063	Rockfish, canary	California, Northwest	muscle, liver	46
132-031	Sculpin, longhorn	N. Atlantic	muscle	1
135-010	Searobin, northern	N. & S. Atlantic	muscle	78
135-011	Searobin, striped	N. Atlantic	muscle	10
141-007	Dogfish, spiny	N. & S. Atlantic, Northwest	muscle, liver	144
143-001	Hammerhead, scalloped	N. & S. Atlantic	muscle	12
143-005	Hammerhead, smooth	S. Atlantic	muscle, liver	17
144-001	Shark, white	N. Atlantic	muscle	2
144-003	Mako, shortfin	N. Atlantic	muscle, liver	5
145-006	Shark, blacktip	S. Atlantic, Gulf of Mexico	muscle, liver	20
145-009	Shark, sandbar	N. Atlantic, Gulf of Mexico	muscle, liver	20
145-010	Shark, dusky	N. & S. Atlantic, Gulf of Mexico	muscle	4
145-018	Dogfish, smooth	N. Atlantic	muscle	95
145-023	Shark, blue	N. Atlantic	muscle, liver	23
145-025	Shark, Atlantic sharpnose	S. Atlantic	muscle	1
149-004	Jacksmelt	California	whole	20
150-005	Skate, little	N. Atlantic	muscle, liver	56
150-012	Skate, winter.	N. Atlantic	muscle, liver	3
153-009	Eulachon	Northwest	whole	33
155-005	Snapper, blackfin	Gulf of Mexico	muscle	13
155-006	Snapper, red	S. Atlantic, Gulf of Mexico	muscle	38
155-008	Snapper, gray (mangrove)	S. Atlantic, Gulf of Mexico	muscle	28
155-013	Snapper, yellowtail	S. Atlantic, Gulf of Mexico	muscle	43
155-015	Snapper, vermilion	S. Atlantic	muscle, liver	38
155-024	Snapper, red (ehu)	Hawaii	muscle	40
155-025	Snapper, gray	Hawaii	muscle	40

Table 2. Resource Survey: Areas of Catch, Tissues Analyzed and Number of Samples Analyzed; by Species (cont'd)

Species Number	Species Name	Areas of Catch	Tissues Analyzed	No. of Samples
157-004	Snook	Gulf of Mexico	muscle	12
162-012	Mempachi	Hawaii	muscle, liver	21
166-003	Sturgeon, green	Northwest	muscle	10
168-001	Surfperch, barred	California	muscle	20
168-005	Perch, shiner	California	whole	2
174-003	Tilefish	Gulf of Mexico	muscle	60
179-016	Salmon, pink	Alaska	muscle, liver	32
179-017	Salmon, chum (keta)	Northwest, Alaska	muscle, liver	62
179-018	Salmon, coho (silver)	Northwest, Alaska	muscle, liver	76
179-019	Salmon, sockeye (red)	Northwest, Alaska	muscle, liver	66
179-020	Salmon, chinook (king)	California, Northwest, Alaska	muscle, liver	132
179-028	Trout, cutthroat	Northwest	muscle	3
179-029	Trout, rainbow (steelhead)	Northwest	muscle, liver	10
183-002	Wolffish, Atlantic	N. Atlantic	muscle, liver	75
185-022	Tautog	N. Atlantic	muscle	14
187-005	Abalone, green	California	shucked	10
187-008	Abalone, red	California	shucked	10
188-003	Squid, Atlantic longfinned	N. Atlantic	whole, mantle	133
188-006	Squid, Pacific	California	whole	50
188-014	Squid, Atlantic shortfinned	N. Atlantic	mantle	92
189-001	Oyster, eastern	N. & S. Atlantic, Gulf of Mexico	shucked	153
189-002	Oyster, Pacific (giant)	California, Northwest	shucked	70
190-013	Scallop, sea (smooth)	N. Atlantic	adductor muscle	11
190-014	Scallop, Atlantic bay	S. Atlantic	adductor muscle	20
190-016	Scallop, calico	S. Atlantic	shucked, adductor muscle	30
190-028	Scallop, pink	Alaska	adductor muscle	5
191-001	Clam, hard (quahog)	N. & S. Atlantic	shucked	141
191-003	Clam, butter	Northwest	shucked	29
191-008	Clam, Pacific littleneck	Alaska	shucked	1
192-003	Shrimp, royal red	S. Atlantic	peeled tail	12
192-004	Shrimp, white	S. Atlantic, Gulf of Mexico	peeled tail	77
192-005	Shrimp, brown	Gulf of Mexico	peeled tail	53
192-007	Shrimp, ocean	Northwest	peeled tail	10
192-010	Shrimp, pink	Gulf of Mexico	peeled tail	50
192-011	Shrimp, pink (northern)	N. Atlantic, Alaska	peeled tail	64
192-012	Shrimp, Alaska (sidestripe)	Alaska	peeled tail	17
194-002	Lobster, spiny (Atlantic)	S. Atlantic, Gulf of Mexico	tailmeat	40
194-003	Lobster, spiny (Pacific)	California	tailmeat	5
194-012	Lobster, northern (American)	N. Atlantic	body, claw, tail, leg meat	88
196-001	Crab, blue	N. & S. Atlantic, Gulf of Mexico	body meat, claw meat	94
196-003	Crab, rock	N. Atlantic	meat	15
196-006	Crab, red, deep sea	N. Atlantic	meat	25
196-011	Crab, dungeness	California, Northwest, Alaska	meat, claw & body meat	50
196-012	Crab, king	Alaska	meat, claw & body meat	29
196-035	Crab, tanner (bairdi)	Alaska	meat	50
200-002	Ladyfish	Gulf of Mexico	muscle	2
200-003	Tarpon	Gulf of Mexico	muscle, liver	14
205-001	Octopus (marmuratus)	Hawaii	whole, mantle	40
206-001	Milkfish	Hawaii	muscle	40
242-001	Clam, soft	N. Atlantic	shucked	19
243-002	Clam, razor	Northwest, Alaska	shucked	39
244-005	Clam, surf	N. Atlantic	shucked	23

Table 3.1. Summarized Distribution of Mean Antimony Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
< 0.1	5	*[3/]	*
0.1 to 0.2	1	12.5	*
0.3 to 0.4	2	*	*
0.4 to 0.5	2	*	*
0.5 to 0.6	18	2.4	3.6
0.6 to 0.7	51	8.8	17.3
0.7 to 0.8	33	8.7	14.9
0.8 to 0.9	28	36.6	26.0
0.9 to 1.0	9	0.8	1.7
1.0 to 2.0	10	0.7	10.5
TOTAL:	159	70.5	63.9
Finfish, liver			
< 0.1	3	0.4	0.7
0.1 to 0.2	2	0.2	*
0.2 to 0.3	1	0.1	0.2
0.3 to 0.4	5	0.3	0.6
0.4 to 0.5	8	3.3	6.6
0.5 to 0.6	20	8.8	18.2
0.6 to 0.7	9	2.4	4.9
0.7 to 0.8	11	8.7	16.7
0.8 to 0.9	6	1.7	3.6
0.9 to 1.0	6	0.3	0.7
1.0 to 2.0	11	2.0	4.1
TOTAL:	82	28.3	56.3
Finfish, whole			
< 0.1	1	0.5	1.1
0.1 to 0.2	1	*	*
0.3 to 0.4	1	0.1	0.1
1.0 to 2.0	9	3.5	3.0
2.0 to 3.0	5	41.3	*
TOTAL:	17	45.4	4.3

Table 3.1. Summarized Distribution of Mean Antimony Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
< 0.1	3	1.6	3.4
0.5 to 0.6	2	0.2	0.4
0.6 to 0.7	1	0.5	0.6
0.7 to 0.8	2	0.1	0.1
0.8 to 0.9	2	0.9	1.9
0.9 to 1.0	5	0.5	1.1
1.0 to 2.0	3	*[3/]	*
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.2 to 0.3	2	*	0.1
0.7 to 0.8	1	*	*
0.8 to 0.9	3	4.2	8.7
0.9 to 1.0	7	5.7	11.7
1.0 to 2.0	3	3.8	7.8
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

2/ See page 12for an explanation of these columns.

3/ * denotes less than .05%.

Table 3.2. Summarized Distribution of Mean Arsenic Levels in Resource Survey Species

Range, ppm[1]	No. of Species	Percent of[2] U. S. Catch	Percent of U. S. Catch[2] Intended for Human Consumption
Finfish, muscle			
0.6 to 0.7	1	0.1	0.2
1.0 to 2.0	8	1.8	2.6
2.0 to 3.0	47	30.3	35.0
3.0 to 4.0	35	31.4	13.8
4.0 to 5.0	18	2.1	3.0
5.0 to 6.0	7	1.5	2.8
6.0 to 7.0	7	0.2	0.3
7.0 to 8.0	9	2.5	5.0
8.0 to 9.0	7	0.1	0.1
9.0 to 10.0	6	0.1	0.2
10.0 to 20.0	12	0.4	0.7
20.0 to 30.0	2	0.1	0.2
TOTAL:	159	70.5	63.9
Finfish, liver			
0.7 to 0.8	1	* [3]	*
1.0 to 2.0	9	7.3	15.0
2.0 to 3.0	12	5.4	9.7
3.0 to 4.0	13	0.7	1.0
4.0 to 5.0	14	7.4	15.3
5.0 to 6.0	9	5.4	10.8
6.0 to 7.0	2	*	*
7.0 to 8.0	4	0.3	0.6
8.0 to 9.0	3	0.3	0.6
9.0 to 10.0	4	0.7	1.5
10.0 to 20.0	4	0.2	0.3
20.0 to 30.0	4	0.5	1.1
30.0 to 40.0	1	*	*
40.0 to 50.0	1	*	*
TOTAL:	81	28.1	55.9
Finfish, whole			
1.0 to 2.0	2	0.1	0.2
2.0 to 3.0	6	2.2	2.2
3.0 to 4.0	4	5.1	0.6
4.0 to 5.0	2	36.4	*
5.0 to 6.0	1	0.1	0.2
7.0 to 8.0	1	1.0	*
20.0 to 30.0	1	0.5	1.1
TOTALS:	17	45.4	4.3

Table 3.2. Summarized Distribution of Mean Arsenic Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
2.0 to 3.0	6	2.2	4.0
3.0 to 4.0	5	1.6	3.2
4.0 to 5.0	3	*[3/]	0.1
7.0 to 8.0	1	*	*
10.0 to 20.0	3	*	0.1
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
3.0 to 4.0	1	0.9	1.8
4.0 to 5.0	5	6.8	14.2
5.0 to 6.0	1	1.2	2.5
6.0 to 7.0	1	2.8	5.8
9.0 to 10.0	1	1.0	2.0
10.0 to 20.0	4	0.2	0.5
20.0 to 30.0	2	0.7	1.5
40.0 to 50.0	1	*	*
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.3. Summarized Distribution of Mean Cadmium Levels in Resource Survey Species

Range, ppm[1]	No. of Species	Percent of[2] U. S. Catch	Percent of U. S. Catch[2] Intended for Human Consumption
Finfish, muscle			
< 0.1	149	70.4	63.8
0.1 to 0.2	10	0.1	0.1
TOTAL:	159	70.5	63.9
Finfish, liver			
< 0.1	1	0.1	0.2
0.1 to 0.2	5	1.3	2.4
0.2 to 0.3	9	4.3	5.8
0.3 to 0.4	9	2.0	7.1
0.4 to 0.5	8	3.3	6.7
0.5 to 0.6	2	0.9	1.9
0.6 to 0.7	6	3.6	7.0
0.7 to 0.8	2	0.1	0.1
0.8 to 0.9	3	1.3	2.7
0.9 to 1.0	2	0.1	0.3
1.0 to 2.0	13	1.9	3.8
2.0 to 3.0	8	0.6	1.2
3.0 to 4.0	1	*[3]	*
4.0 to 5.0	4	1.2	2.4
6.0 to 7.0	1	1.7	3.5
7.0 to 8.0	2	0.1	0.2
8.0 to 9.0	3	4.9	10.2
10.0 to 20.0	2	1.0	0.8
20.0 to 30.0	1	*	*
TOTAL:	82	28.3	56.3
Finfish, whole			
< 0.1	2	.8	1.3
0.1 to 0.2	13	28.2	2.9
0.2 to 0.3	1	12.5	*
0.3 to 0.4	1	4.0	*
TOTAL:	17	45.4	4.3

Table 3.3. Summarized Distribution of Mean Cadmium Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
< 0.1	1	*[3/]	*
0.1 to 0.2	7	1.5	3.0
0.2 to 0.3	3	0.6	1.2
0.3 to 0.4	1	*	*
0.7 to 0.8	1	0.5	0.6
0.9 to 1.0	1	0.9	2.0
1.0 to 2.0	2	0.3	0.6
2.0 to 3.0	2	0.1	0.1
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
< 0.1	3	4.7	9.8
0.1 to 0.2	9	8.2	17.0
0.2 to 0.3	3	0.7	1.5
0.3 to 0.4	1	*	0.1
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.4. Summarized Distribution of Mean Chromium Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
<0.1	4	0.1	0.3
0.1 to 0.2	90	27.1	51.0
0.2 to 0.3	56	43.3	12.5
0.3 to 0.4	7	* [3/]	*
0.4 to 0.5	2	*	*
TOTAL:	159	70.6	63.9
Finfish, liver			
<0.1	7	1.7	2.9
0.1 to 0.2	44	13.4	26.4
0.2 to 0.3	16	12.1	25.0
0.3 to 0.4	11	0.9	1.9
0.4 to 0.5	3	0.1	0.1
1.0 to 2.0	1	0.1	0.1
TOTAL:	82	28.3	56.3
Finfish, whole			
<0.1	2	0.8	1.3
0.2 to 0.3	3	1.2	0.7
0.3 to 0.4	6	6.0	2.1
0.4 to 0.5	3	1.0	*
0.5 to 0.6	1	0.1	0.2
0.6 to 0.7	1	12.5	*
0.7 to 0.8	1	23.8	*
TOTAL:	17	45.4	4.3

Table 3.4. Summarized Distribution of Mean Chromium Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
0.1 to 0.2	3	0.5	0.6
0.2 to 0.3	5	0.4	0.7
0.3 to 0.4	8	3.0	6.1
0.4 to 0.5	1	*[3/]	*
0.5 to 0.6	1	*	*
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.1 to 0.2	7	2.6	5.4
0.2 to 0.3	9	11.1	22.9
TOTAL:	16	13.6	28.3

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.5. Summarized Distribution of Mean Copper Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
0.1 to 0.2	13	0.8	1.5
0.2 to 0.3	54	6.8	13.5
0.3 to 0.4	35	5.0	9.8
0.4 to 0.5	22	3.1	4.7
0.5 to 0.6	9	5.5	11.5
0.6 to 0.7	5	5.2	10.8
0.7 to 0.8	7	4.2	5.8
0.8 to 0.9	7	27.1	5.6
0.9 to 1.0	1	0.3	0.5
1.0 to 2.0	6	12.6	0.1
TOTAL:	159	70.5	63.9
Finfish, liver			
1.0 to 2.0	7	0.2	0.4
2.0 to 3.0	10	3.3	5.3
3.0 to 4.0	7	2.3	4.6
4.0 to 5.0	11	3.4	6.8
5.0 to 6.0	5	0.2	0.5
6.0 to 7.0	7	3.2	6.6
7.0 to 8.0	4	0.7	1.1
8.0 to 9.0	5	0.4	0.8
9.0 to 10.0	2	0.1	0.2
10.0 to 20.0	14	6.8	14.1
20.0 to 30.0	4	2.4	5.1
30.0 to 40.0	1	0.2	0.3
40.0 to 50.0	2	1.2	2.4
50.0 to 110.0	3	3.9	8.0
TOTAL:	82	28.3	56.3
Finfish, whole			
0.4 to 0.5	4	0.4	0.7
0.5 to 0.6	1	*[3/]	*
0.6 to 0.7	2	0.6	1.1
0.7 to 0.8	3	24.8	*
0.8 to 0.9	2	1.4	0.8
0.9 to 1.0	1	*	0.1
1.0 to 2.0	4	18.3	1.7
TOTAL:	17	45.4	4.3

Table 3.5. Summarized Distribution of Mean Copper Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
0.1 to 0.2	2	0.1	0.3
0.3 to 0.4	1	* [3/]	0.1
0.6 to 0.7	3	1.4	2.9
0.7 to 0.8	2	*	*
1.0 to 2.0	1	*	*
2.0 to 3.0	2	0.3	0.7
3.0 to 4.0	1	*	*
4.0 to 5.0	1	0.3	0.5
5.0 to 6.0	1	*	*
8.0 to 9.0	1	*	*
10.0 to 20.0	1	0.2	0.3
20.0 to 30.0	1	0.5	0.6
30.0 to 40.0	1	0.9	1.9
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
1.0 to 2.0	1	0.9	1.8
2.0 to 3.0	3	3.3	6.7
3.0 to 4.0	3	3.0	6.3
4.0 to 5.0	1	*	*
5.0 to 6.0	1	0.5	1.1
6.0 to 7.0	3	4.2	8.7
7.0 to 8.0	1	*	0.1
9.0 to 10.0	2	1.1	2.2
10.0 to 20.0	1	0.7	1.4
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.6. Summarized Distribution of Mean Lead Levels in Resource Survey Species

Range, ppm[1]	No. of Species	Percent of[2] U. S. Catch	Percent of U. S. Catch[2] Intended for Human Consumption
Finfish, muscle			
0.1 to 0.2	1	*[3]	*
0.2 to 0.3	4	*	*
0.3 to 0.4	33	4.9	9.9
0.4 to 0.5	59	17.7	33.8
0.5 to 0.6	35	19.0	9.4
0.6 to 0.7	16	28.9	10.7
0.7 to 0.8	5	*	*
0.9 to 1.0	2	*	*
1.0 to 2.0	3	*	*
2.0 to 3.0	1	*	*
TOTAL:	159	70.5	63.9
Finfish, liver			
< 0.1	2	0.3	0.6
0.1 to 0.2	3	3.3	6.9
0.2 to 0.3	10	4.0	8.4
0.3 to 0.4	10	0.9	1.8
0.4 to 0.5	17	4.7	9.5
0.5 to 0.6	16	9.2	17.6
0.6 to 0.7	10	2.1	4.4
0.7 to 0.8	3	*	*
0.8 to 0.9	1	1.6	0.1
0.9 to 1.0	5	1.7	6.4
1.0 to 2.0	4	0.2	0.3
2.0 to 3.0	1	0.1	0.2
TOTAL:	82	28.3	56.3
Finfish, whole			
0.1 to 0.2	1	0.1	0.2
0.3 to 0.4	1	0.5	1.1
0.5 to 0.6	1	0.2	0.2
0.7 to 0.8	2	0.1	0.2
0.8 to 0.9	1	*	*
0.9 to 1.0	1	1.2	0.6
1.0 to 2.0	9	19.5	2.0
2.0 to 3.0	1	23.8	*
TOTAL:	17	45.4	4.3

Table 3.6. Summarized Distribution of Mean Lead Levels in Resource Survey Species (continued)

Range, ppm 1/	No. of Species	Percent of 2/ U. S. Catch	Percent of U. S. Catch 2/ Intended for Human Consumption
Mollusca, edible tissues			
0.2 to 0.3	2	* 3/	*
0.4 to 0.5	2	0.2	0.4
0.5 to 0.6	5	1.7	3.4
0.6 to 0.7	7	1.7	3.0
0.7 to 0.8	1	0.3	0.7
0.8 to 0.9	1	0.1	0.1
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.4 to 0.5	1	*	*
0.5 to 0.6	4	1.7	3.5
0.6 to 0.7	9	8.9	18.5
0.7 to 0.8	1	3.0	6.2
0.8 to 0.9	1	*	0.1
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.7. Summarized Distribution of Mean Manganese Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
<0.1	17	0.4	0.9
0.1 to 0.2	102	28.0	55.9
0.2 to 0.3	24	2.0	3.7
0.3 to 0.4	7	3.1	3.0
0.4 to 0.5	2	0.5	0.1
0.5 to 0.6	2	0.1	0.3
0.6 to 0.7	1	23.8	*[3/]
0.7 to 0.8	2	12.6	*
1.0 to 2.0	2	*	*
TOTAL:	159	70.5	63.9
Finfish, liver			
0.2 to 0.3	1	*	*
0.3 to 0.4	2	*	*
0.4 to 0.5	1	*	*
0.5 to 0.6	6	4.0	8.2
0.6 to 0.7	15	6.4	13.2
0.7 to 0.8	13	3.9	8.1
0.8 to 0.9	11	3.1	6.3
0.9 to 1.0	6	0.5	1.0
1.0 to 2.0	27	10.3	19.5
TOTAL:	82	28.3	56.3
Finfish, whole			
0.2 to 0.3	1	0.1	0.2
0.4 to 0.5	1	0.5	1.1
0.5 to 0.6	2	0.2	0.2
0.6 to 0.7	1	*	*
0.7 to 0.8	1	*	*
1.0 to 2.0	8	4.2	2.7
2.0 to 3.0	1	3.9	*
5.0 to 6.0	1	12.6	*
9.0 to 10.0	1	23.8	*
TOTAL:	17	45.4	4.3

Table 3.7. Summarized Distribution of Mean Manganese Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
0.1 to 0.2	1	*[3/]	*
0.2 to 0.3	4	0.2	0.4
0.3 to 0.4	1	*	0.1
0.4 to 0.5	1	0.5	0.6
0.5 to 0.6	1	*	*
0.6 to 0.7	1	*	0.1
0.8 to 0.9	1	*	*
1.0 to 2.0	2	1.4	2.8
2.0 to 3.0	2	0.1	0.1
4.0 to 5.0	1	0.9	1.9
6.0 to 7.0	2	0.6	1.2
7.0 to 8.0	1	0.1	0.3
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.1 to 0.2	1	0.2	0.4
0.2 to 0.3	2	0.9	1.8
0.3 to 0.4	6	3.1	6.5
0.4 to 0.5	1	*	*
0.5 to 0.6	1	0.7	1.5
0.6 to 0.7	2	4.5	9.4
0.7 to 0.8	1	1.2	2.5
1.0 to 2.0	2	3.1	6.3
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.8. Summarized Distribution of Mean Mercury Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
< 0.1	45	53.6	30.7
0.1 to 0.2	49	12.8	26.1
0.2 to 0.3	18	1.9	3.9
0.3 to 0.4	15	1.7	2.2
0.4 to 0.5	1	* [3/]	*
0.5 to 0.6	8	0.4	0.7
0.6 to 0.7	3	*	*
0.7 to 0.8	4	0.1	0.1
0.8 to 0.9	3	*	*
1.0 to 2.0	8	*	*
2.0 to 3.0	4	*	*
4.0 to 5.0	1	*	*
TOTAL:	159	70.5	63.9
Finfish, liver			
< 0.1	31	13.5	27.1
0.1 to 0.2	17	4.7	9.8
0.2 to 0.3	6	7.0	14.4
0.3 to 0.4	5	1.0	2.1
0.4 to 0.5	1	0.1	0.2
0.5 to 0.6	2	0.3	0.5
0.6 to 0.7	1	0.1	0.3
0.7 to 0.8	2	*	*
0.8 to 0.9	2	1.0	0.8
0.9 to 1.0	4	0.2	0.5
1.0 to 2.0	4	*	*
2.0 to 3.0	3	0.2	0.4
3.0 to 4.0	1	*	*
5.0 to 6.0	1	*	*
7.0 to 8.0	1	*	*
10.0 to 20.0	1	*	*
TOTAL:	82	28.3	56.3
Finfish, whole			
< 0.1	13	31.2	3.7
0.1 to 0.2	3	13.8	0.6
0.2 to 0.3	1	0.4	*
TOTAL:	17	45.4	4.3

Table 3.8. Summarized Distribution of Mean Mercury Levels in Resource Survey Species (continued)

Range, ppm 1/	No. of Species	Percent of 2/ U. S. Catch	Percent of U. S. Catch 2/ Intended for Human Consumption
Mollusca, edible tissues			
< 0.1	18	3.8	7.5
Crustacea, edible tissues			
< 0.1	6	6.6	13.7
0.1 to 0.2	9	6.4	13.2
0.2 to 0.3	1	0.7	1.4
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.9. Summarized Distribution of Mean Molybdenum Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
< 0.1	21	0.4	0.8
0.1 to 0.2	48	5.9	9.6
0.2 to 0.3	61	57.2	40.9
0.3 to 0.4	18	5.6	10.7
0.4 to 0.5	7	0.3	0.7
0.5 to 0.6	4	0.5	1.0
TOTAL:	159	70.5	63.8
Finfish, liver			
< 0.1	4	0.3	0.7
0.1 to 0.2	12	1.1	2.2
0.2 to 0.3	27	9.0	18.0
0.3 to 0.4	16	8.3	15.6
0.4 to 0.5	14	8.6	17.8
0.5 to 0.6	6	0.1	0.3
0.6 to 0.7	1	0.2	0.3
0.9 to 1.0	1	0.1	0.1
1.0 to 2.0	1	0.6	1.3
TOTAL:	82	28.3	56.3
Finfish, whole			
< 0.1	2	0.8	1.3
0.1 to 0.2	2	* [3/]	*
0.2 to 0.3	5	2.1	2.2
0.3 to 0.4	6	14.9	0.8
0.4 to 0.5	1	23.8	*
0.5 to 0.6	1	3.9	*
TOTAL:	17	45.4	4.3

Table 3.9. Summarized Distribution of Mean Molybdenum Levels in Resource Survey Species (continued)

Range, ppm 1/	No. of Species	Percent of 2/ U. S. Catch	Percent of U. S. Catch 2/ Intended for Human Consumption
Mollusca, edible tissues			
< 0.1	1	* 3/	*
0.1 to 0.2	2	*	*
0.2 to 0.3	7	1.0	1.6
0.3 to 0.4	2	1.6	3.5
0.4 to 0.5	2	0.9	1.9
0.5 to 0.6	1	*	*
0.7 to 0.8	2	0.1	0.1
3.0 to 4.0	1	0.1	0.3
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.1 to 0.2	11	4.7	9.8
0.2 to 0.3	3	8.7	18.1
0.3 to 0.4	2	0.2	0.4
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.10. Summarized Distribution of Mean Nickel Levels in Resource Survey Species

Range, ppm[1]	No. of Species	Percent of[2] U. S. Catch	Percent of U. S. Catch[2] Intended for Human Consumption
Finfish, muscle			
< 0.1	2	*[3]	*
0.1 to 0.2	36	4.5	7.8
0.2 to 0.3	111	53.1	55.4
0.3 to 0.4	5	12.9	0.7
0.4 to 0.5	1	*	*
0.6 to 0.7	1	*	*
0.7 to 0.8	1	*	*
0.9 to 1.0	1	*	*
2.0 to 3.0	1	*	*
TOTAL:	159	70.5	63.9
Finfish, liver			
0.1 to 0.2	22	11.7	22.4
0.2 to 0.3	32	9.3	24.7
0.3 to 0.4	9	0.3	0.7
0.4 to 0.5	5	0.7	1.5
0.5 to 0.6	8	6.1	6.5
0.6 to 0.7	1	*	0.5
0.8 to 0.9	2	*	*
1.0 to 2.0	1	*	*
2.0 to 3.0	2	*	*
TOTAL:	82	28.3	56.3
Finfish, whole			
0.2 to 0.3	2	0.8	1.1
0.3 to 0.4	6	3.2	2.9
0.4 to 0.5	2	0.1	0.1
0.5 to 0.6	3	1.0	0.2
0.6 to 0.7	1	*	*
0.7 to 0.8	1	3.9	*
0.8 to 0.9	1	12.6	*
0.9 to 1.0	1	23.8	*
TOTAL:	17	45.4	4.3

Table 3.10. Summarized Distribution of Mean Nickel Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
0.2 to 0.3	5	0.7	1.0
0.3 to 0.4	3	0.2	0.4
0.4 to 0.5	1	*[3/]	*
0.5 to 0.6	4	2.6	5.4
0.7 to 0.8	2	*	*
1.0 to 2.0	2	0.3	0.7
2.0 to 3.0	1	*	*
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.2 to 0.3	4	3.1	6.4
0.3 to 0.4	8	6.3	13.1
0.4 to 0.5	1	3.0	6.2
0.5 to 0.6	2	1.2	2.5
0.8 to 0.9	1	*	0.1
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

2/ See page 12 for an explanation of these columns.

3/ * denotes less than .05%.

Table 3.11. Summarized Distribution of Mean Selenium Levels in Resource Survey Species

Range, ppm[1]	No. of Species	Percent of[2] U. S. Catch	Percent of U. S. Catch[2] Intended for Human Consumption
Finfish, muscle			
0.1 to 0.2	2	0.2	0.5
0.2 to 0.3	2	*[3]	*
0.3 to 0.4	8	1.1	2.3
0.4 to 0.5	23	11.2	21.2
0.5 to 0.6	29	5.4	8.3
0.6 to 0.7	27	26.4	4.9
0.7 to 0.8	19	13.6	2.1
0.8 to 0.9	17	3.3	5.4
0.9 to 1.0	10	0.7	1.5
1.0 to 2.0	22	8.5	17.7
TOTAL:	159	70.5	63.9
Finfish, liver			
0.6 to 0.7	2	0.1	0.1
0.7 to 0.8	1	0.1	0.2
0.8 to 0.9	3	1.2	2.4
0.9 to 1.0	3	2.1	4.2
1.0 to 2.0	32	7.3	14.7
2.0 to 3.0	17	4.3	7.7
3.0 to 4.0	7	1.2	2.5
4.0 to 5.0	1	*	*
5.0 to 6.0	2	0.1	0.3
6.0 to 7.0	1	3.2	6.7
7.0 to 8.0	1	*	*
8.0 to 9.0	2	1.0	0.8
9.0 to 10.0	2	1.7	3.6
10.0 to 20.0	4	6.0	12.4
20.0 to 30.0	1	0.1	0.2
TOTAL:	79	28.1	55.9
Finfish, whole			
0.3 to 0.4	1	0.1	0.2
0.4 to 0.5	1	*	0.1
0.5 to 0.6	3	3.9	0.1
0.6 to 0.7	1	0.2	0.2
0.7 to 0.8	3	1.4	0.9
0.8 to 0.9	4	25.7	1.8
1.0 to 2.0	4	14.1	1.1
TOTAL:	17		4.3

Table 3.11. Summarized Distribution of Mean Selenium Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
0.1 to 0.2	1	* [3/]	*
0.2 to 0.3	1	*	*
0.3 to 0.4	4	1.6	3.2
0.4 to 0.5	5	0.4	0.8
0.5 to 0.6	4	0.5	0.7
0.7 to 0.8	2	1.1	2.3
0.8 to 0.9	1	0.3	0.5
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.2 to 0.3	1	0.2	0.4
0.3 to 0.4	4	2.5	5.1
0.4 to 0.5	1	1.0	2.1
0.5 to 0.6	1	0.5	1.1
0.6 to 0.7	4	5.7	11.9
0.7 to 0.8	2	3.0	6.2
0.8 to 0.9	1	0.7	1.4
1.0 to 2.0	2	*	0.1
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.12. Summarized Distribution of Mean Silver Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
0.1	158	70.5	63.9
0.1 to 0.2	1	* [3/]	*
TOTAL:	159	70.5	63.9
Finfish, liver			
0.1	66	20.5	40.1
0.1 to 0.2	9	1.3	2.9
0.2 to 0.3	3	4.6	9.5
0.3 to 0.4	3	1.2	2.4
0.5 to 0.6	1	0.6	1.3
TOTAL:	82	28.3	56.3
Finfish, whole			
0.1	10	4.0	4.0
0.1 to 0.2	7	41.4	0.4
TOTAL:	17	45.4	4.3
Mollusca, edible tissues			
0.1	10	2.4	4.5
0.1 to 0.2	3	*	*
0.2 to 0.3	2	0.7	1.0
0.3 to 0.4	2	0.9	1.9
0.6 to 0.7	1	*	*
TOTAL:	18	3.8	7.5

Table 3.12. Summarized Distribution of Mean Silver Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Crustacea, edible tissues			
<0.1	8	6.9	14.2
0.1 to 0.2	5	3.1	6.3
0.3 to 0.4	2	3.0	6.3
0.4 to 0.5	1	0.7	1.4
TOTAL:	16	13.7	28.2

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.13. Summarized Distribution of Mean Tin Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
0.2 to 0.3	2	0.1	0.2
0.3 to 0.4	6	0.3	0.6
0.4 to 0.5	35	4.5	8.0
0.5 to 0.6	75	25.3	24.9
0.6 to 0.7	23	12.0	21.7
0.7 to 0.8	11	28.2	8.2
0.8 to 0.9	4	*[3/]	*
1.0 to 2.0	3	0.1	0.3
TOTAL:	159	70.5	63.9
Finfish, liver			
< 0.1	1	*	*
0.2 to 0.3	8	1.8	2.4
0.3 to 0.4	18	3.5	6.6
0.4 to 0.5	11	5.1	10.3
0.5 to 0.6	14	7.8	16.0
0.6 to 0.7	12	5.3	10.8
0.7 to 0.8	8	3.7	7.6
0.8 to 0.9	3	0.6	1.3
0.9 to 1.0	4	0.2	0.4
1.0 to 2.0	3	0.3	0.7
TOTAL:	82	28.3	56.3
Finfish, whole			
0.3 to 0.4	1	0.5	1.1
0.5 to 0.6	1	0.2	0.2
0.8 to 0.9	1	0.1	0.1
1.0 to 2.0	11	44.1	2.9
2.0 to 3.0	1	0.4	*
4.0 to 5.0	1	*	*
8.0 to 9.0	1	*	*
TOTAL:	17	45.4	4.3

Table 3.13. Summarized Distribution of Mean Tin Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Mollusca, edible tissues			
0.3 to 0.4	1	* [3/]	*
0.4 to 0.5	2	1.5	3.1
0.5 to 0.6	3	1.2	2.5
0.6 to 0.7	4	0.9	1.4
0.7 to 0.8	2	0.2	0.4
0.8 to 0.9	2	*	*
0.9 to 1.0	1	*	*
1.0 to 2.0	3	*	*
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.6 to 0.7	5	5.4	11.3
0.7 to 0.8	4	1.5	3.0
0.8 to 0.9	4	4.2	10.8
0.9 to 1.0	2	2.6	3.3
1.0 to 2.0	1	*	*
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.14. Summarized Distribution of Mean Vanadium Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
< 0.1	17	0.6	0.3
0.1 to 0.2	12	0.2	0.3
0.2 to 0.3	56	25.4	22.5
0.3 to 0.4	44	16.2	32.2
0.4 to 0.5	20	27.3	6.8
0.5 to 0.6	4	0.8	1.5
0.6 to 0.7	3	*[3/]	*
0.7 to 0.8	1	0.1	0.3
0.8 to 0.9	1	*	*
1.0 to 2.0	1	*	*
TOTAL:	159	70.5	63.9
Finfish, liver			
< 0.1	18	2.0	3.5
0.1 to 0.2	4	2.8	5.8
0.2 to 0.3	18	6.2	12.5
0.3 to 0.4	8	6.9	14.4
0.4 to 0.5	8	5.2	10.8
0.5 to 0.6	1	0.1	0.3
0.6 to 0.7	4	0.1	0.2
0.7 to 0.8	3	0.7	1.4
0.8 to 0.9	3	1.3	2.7
0.9 to 1.0	2	0.1	0.3
1.0 to 2.0	10	1.7	3.3
2.0 to 3.0	1	*	*
3.0 to 4.0	1	1.0	0.7
5.0 to 6.0	1	0.1	0.2
TOTAL:	82	28.3	56.3

Table 3.14. Summarized Distribution of Mean Vanadium Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, whole			
< 0.1	1	0.5	1.1
0.1 to 0.2	1	0.2	0.2
0.2 to 0.3	1	* [3/]	*
0.3 to 0.4	1	*	0.1
0.4 to 0.5	5	3.2	2.6
0.6 to 0.7	2	0.1	0.1
0.7 to 0.8	3	4.1	0.3
1.0 to 2.0	2	13.6	*
2.0 to 3.0	1	23.8	*
TOTAL:	17	45.4	4.3
Mollusca, edible tissues			
< 0.1	1	*	*
0.1 to 0.2	1	*	*
0.2 to 0.3	5	0.6	0.8
0.3 to 0.4	1	0.2	0.3
0.4 to 0.5	5	2.0	4.0
0.5 to 0.6	2	*	0.1
0.6 to 0.7	1	*	*
0.7 to 0.8	1	0.9	1.9
1.0 to 2.0	1	0.2	0.3
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
0.1 to 0.2	1	0.9	1.8
0.2 to 0.3	2	*	*
0.3 to 0.4	5	3.5	7.4
0.4 to 0.5	8	9.2	19.2
TOTAL:	16	13.7	28.3

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 3.15. Summarized Distribution of Mean Zinc Levels in Resource Survey Species

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, muscle			
2.0 to 3.0	7	0.3	0.7
3.0 to 4.0	34	6.3	12.4
4.0 to 5.0	48	7.8	14.8
5.0 to 6.0	29	14.2	27.9
6.0 to 7.0	19	38.3	2.0
7.0 to 8.0	8	1.7	2.4
8.0 to 9.0	6	1.7	3.6
9.0 to 10.0	2	*[3/]	*
10.0 to 20.0	6	0.1	0.1
TOTAL:	159	70.5	63.9
Finfish, liver			
4.0 to 5.0	1	*	*
5.0 to 6.0	1	*	*
8.0 to 9.0	1	*	*
9.0 to 10.0	1	*	*
10.0 to 20.0	16	2.4	5.0
20.0 to 30.0	19	8.2	16.5
30.0 to 40.0	14	8.6	16.3
40.0 to 50.0	7	1.9	4.0
50.0 to 60.0	6	0.9	1.7
60.0 to 70.0	3	1.1	1.9
70.0 to 80.0	2	4.9	10.1
80.0 to 90.0	1	*	*
90.0 to 100.0	2	0.1	0.2
100.0 to 200.0	3	*	*
200.0 to 300.0	3	0.2	0.3
300.0 to 400.0	1	*	*
600.0 to 700.0	1	*	*
TOTAL:	82	28.3	56.3

Table 3.15. Summarized Distribution of Mean Zinc Levels in Resource Survey Species (continued)

Range, ppm[1/]	No. of Species	Percent of[2/] U. S. Catch	Percent of U. S. Catch[2/] Intended for Human Consumption
Finfish, whole			
2.0 to 3.0	1	0.5	1.1
6.0 to 7.0	1	0.2	0.2
10.0 to 20.0	10	16.9	3.0
20.0 to 30.0	5	27.8	0.1
TOTAL:	17	45.4	4.3
Mollusca, edible tissues			
5.0 to 6.0	1	*[3/]	*
7.0 to 8.0	1	*	*
8.0 to 9.0	1	*	*
10.0 to 20.0	13	2.7	5.2
100.0 to 200.0	1	0.2	0.3
300.0 to 400.0	1	0.9	1.9
TOTAL:	18	3.8	7.5
Crustacea, edible tissues			
10.0 to 20.0	8	7.5	15.5
20.0 to 30.0	3	0.9	1.9
30.0 to 40.0	2	3.0	6.2
40.0 to 50.0	2	1.2	2.5
50.0 to 60.0	1	1.1	2.2
TOTAL:	16	13.7	28.4

1/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g. 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).
2/ See page 12 for an explanation of these columns.
3/ * denotes less than .05%.

Table 4.1. Distribution of Mean Antimony Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	40								M																
		whole	4	4											W													
001-016	Anchovy, northern	whole	40	37												W												
001-006	Anchovy, striped	h & g	40	18											H													
002-002	Argentine, Atlantic	h & g	7	4											H													
062-014	Ballyhoo	whole	57	43												W												
005-002	Barracuda, Atlantic	muscle	7	1	M																							
005-001	Barracuda, Pacific	muscle	20	18										M														
006-006	Bass, black sea	muscle	55	39							M																	
		liver	2	2											L													
007-004	Bass, striped	muscle	117	92						M																		
		liver	3	3									L															
012-001	Bluefish	muscle	73	54							M																	
		liver	4	4									L															
091-011	Bonito, Atlantic	muscle	15	2					M																			
091-009	Bonito, Pacific	muscle	40	35									M															
		liver	1	1											L													
021-007	Bullhead, brown	muscle	4	4							M																	
018-014	Butterfish	muscle	72	61								M																
		whole	17	1				W																				
		h & g	1	1											H													
021-010	Catfish, channel	muscle	20	16						M																		
023-002	Catfish, gafftopsail	muscle	34	30										M														
		liver	3	3								L																
023-001	Catfish, sea	muscle	47	34								M																
		liver	6	5									L															
021-002	Catfish, white	muscle	1	1						M																		
033-008	Cod, Atlantic	muscle	114	99							M																	
		liver	35	28					L																			
033-007	Cod, Pacific (gray)	muscle	59	49							M																	
		liver	15	11				L																				
045-026	Croaker, Atlantic	muscle	91	64								M																
033-004	Cusk	muscle	76	58						M																		
		liver	18	16				L																				
037-004	Cusk-eel, fawn	muscle	2	2											M													
145-018	Dogfish, smooth	muscle	95	62							M																	
141-007	Dogfish, spiny	muscle	115	99							M																	
		liver	29	22					L																			
041-002	Dolphin	muscle	63	53								M																
		liver	28	28								L																
045-019	Drum, banded	muscle	5	2											M													
045-028	Drum, black	muscle	61	51								M																
		liver	2	2											L													
045-030	Drum, red	muscle	73	55								M																
		liver	3	3							L																	
051-001	Eel, American	muscle	30	21						M																		
047-002	Eel, conger	muscle	1	0	M																							
153-009	Eulachon	whole	33	26											W													
058-028	Flounder, fourspot	muscle	71	47						M																		
058-024	Flounder, Gulf	muscle	41	38								M																
		liver	1	1											L													
058-027	Flounder, southern	muscle	42	25								M																
		liver	2	2									L															
058-026	Flounder, summer (fluke)	muscle	42	29									M															
		liver	2	2								L																
058-030	Flounder, windowpane (s.dab)	muscle	18	15							M																	
059-030	Flounder, winter	muscle	123	104							M																	
		liver	2	2							L																	
059-005	Flounder, witch	muscle	71	69						M																		
059-016	Flounder, yellowtail	muscle	89	85							M																	
		liver	2	1											L													
006-040	Gag	muscle	30	27						M																		
066-009	Goatfish	muscle	40	31							M																	
068-001	Goosefish	muscle	80	66						M																		
		liver	10	9				L																				
		h & g	1	0	H																							
006-037	Grouper, black	muscle	34	31										M														
006-017	Grouper, red	muscle	41	36						M																		
006-038	Grouper, yellowmouth	muscle	10	8								M																
		liver	1	1											L													
073-015	Grunt, bluestriped (yellow)	muscle	16	6							M																	

Ranges of Mean Antimony Content, ppm[2]

Table 4.1. Distribution of Mean Antimony Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish				Ranges of Mean Antimony Content, ppm[2]																							
073-014	Grunt, white	muscle	17	12									M															
033-011	Haddock	muscle	77	74							M																	
		liver	18	14						L																		
		whole	1	0	W																							
033-013	Hake, Pacific	muscle	49	36							M																	
		liver	1	1		L																						
033-020	Hake, red	muscle	65	64							M																	
033-012	Hake, silver (whiting)	muscle	83	81							M																	
		liver	3	3					L																			
033-024	Hake, spotted	muscle	65	22							M																	
033-025	Hake, white	muscle	70	70						M																		
		liver	31	25			L																					
059-011	Halibut, Pacific	muscle	37	32									M															
		liver	16	15							L																	
143-001	Hammerhead, scalloped	muscle	12	12								M																
143-005	Hammerhead, smooth	muscle	10	8							M																	
		liver	7	5								L																
018-011	Harvestfish	muscle	3	2									M															
		whole	16	2		W																						
078-011	Herring, Atlantic	muscle	24	10								M																
		whole	63	63											W													
		headed	6	6											E													
		h & g	2	2											H													
078-001	Herring, blueback	whole	1	1											W													
078-012	Herring, Pacific	muscle	14	12											M													
		whole	30	30											W													
078-015	Herring, round	h & g	50	17											H													
006-013	Hind, speckled	muscle	20	20							M																	
		liver	7	7						L																		
079-068	Jack, (mackerel scad)	muscle	40	30							M																	
079-053	Jack, akule	muscle	39	34							M																	
079-005	Jack, crevalle	muscle	49	43								M																
		liver	4	3										L														
079-069	Jack, crevalle (Hawaii)	muscle	39	31																								
149-004	Jacksmelt	whole	20	20											W													
006-016	Jewfish	muscle	8	6							M		M															
045-024	Kingfish, northern	muscle	6	6							M																	
045-021	Kingfish, southern	muscle	14	14								M																
		liver	1	1						L																		
200-002	Ladyfish	muscle	2	2				M																				
071-005	Lingcod	muscle	78	60									M															
		liver	13	13								L																
091-013	Mackerel, Atlantic	muscle	80	52								M																
091-012	Mackerel, chub	muscle	30	29								M																
079-034	Mackerel, jack	muscle	10	10						M																		
		liver	1	1								L																
		headed	4	4											E													
091-014	Mackerel, king	muscle	107	94								M																
		liver	10	9						L																		
		milt	1	0	Q																							
		roe	11	1	R																							
091-016	Mackerel, Spanish	muscle	109	91										M														
		liver	4	4						L																		
144-003	Mako, shortfin	muscle	3	3							M																	
		liver	2	2						L																		
011-002	Marlin, blue	muscle	33	28							M																	
		liver	11	7										L														
011-005	Marlin, striped	muscle	40	35							M																	
		liver	9	6											L													
011-003	Marlin, white	muscle	54	48							M																	
		liver	10	8											L													
162-012	Mempachi	muscle	20	12									M															
		liver	1	0	L																							
078-010	Menhaden, Atlantic	muscle	10	1				M																				
		whole	101	92												W												
078-008	Menhaden, Gulf	muscle	50.	44									M															
		whole	28	25												W												
		gutted	9	7												G												
078-009	Menhaden, yellowfin	whole	13	12												W												
206-001	Milkfish	muscle	39	35							M																	

Table 4.1. Distribution of Mean Antimony Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1/]	Total # Samples	# samples in mean	Ranges of Mean Antimony Content, ppm[2/]																								
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																												
094-010	Mojarra, yellowfin	muscle	10	9								M																	
098-003	Mullet, silver (white)	muscle	36	36							M																		
098-002	Mullet, striped	muscle	156	129							M																		
		liver	5	4								L																	
079-030	Palometa	muscle	2	0	M																								
131-023	Perch, ocean (Pacific)	muscle	30	22							M																		
		liver	18	14						L																			
131-052	Perch, ocean (redfish)	muscle	80	79							M																		
		liver	2	2										L															
006-010	Perch, sand	muscle	1	1		M																							
168-005	Perch, shiner	whole	2	2											W														
045-003	Perch, silver	muscle	20	17									M																
007-001	Perch, white	muscle	27	26									M																
		h & g	19	19												H													
079-029	Permit	muscle	9	7											M														
073-017	Pigfish	muscle	34	26								M																	
114-013	Pinfish, spottail	muscle	10	7							M																		
		liver	1	1										L															
059-008	Plaice, American (dab)	muscle	68	66						M																			
		whole	1	1											W														
033-017	Pollock	muscle	73	67							M																		
		liver	33	23				L																					
033-019	Pollock, walleye (Alaska)	muscle	48	46							M																		
		liver	3	3						L																			
079-028	Pompano, Florida	muscle	60	56							M																		
		liver	4	3							L																		
114-014	Porgy, red	muscle	22	21										M															
		liver	1	0	L																								
056-018	Pout, ocean	muscle	34	24							M																		
		liver	3	2						L																			
131-061	Rockfish, bocaccio	muscle	48	35										M															
		liver	4	4					L																				
131-063	Rockfish, canary	muscle	44	28											M														
		liver	1	1											L														
131-031	Rockfish, copper	muscle	10	10								M																	
131-043	Rockfish, yellowtail	muscle	20	15							M																		
079-004	Runner, blue	muscle	56	52									M																
		liver	4	3						L																			
126-001	Sablefish	muscle	103	87							M																		
		liver	14	10						L																			
011-001	Sailfish	muscle	42	37						M																			
		liver	3	3											L														
179-020	Salmon, chinook, (king)	muscle	109	95							M																		
		liver	22	21						L																			
179-017	Salmon, chum (keta)	muscle	57	42								M																	
		liver	5	4					L																				
179-018	Salmon, coho (silver)	muscle	68	56								M																	
		liver	7	7							L																		
179-016	Salmon, pink	muscle	27	22									M																
		liver	3	3						L																			
179-019	Salmon, sockeye (red)	muscle	62	47									M																
		liver	4	4						L																			
079-013	Scad, round	h & g	3	3												H													
006-041	Scamp	muscle	10	10						M																			
		liver	1	1											L														
132-031	Sculpin, longhorn	muscle	1	0	M																								
114-016	Scup	muscle	72	45											M														
135-010	Searobin, northern	muscle	78	33									M																
135-011	Searobin, striped	muscle	10	9							M																		
045-012	Seatrout, gray (weakfish)	muscle	72	55							M																		
		liver	3	3						L																			
		whole	10	10											W														
045-007	Seatrout, sand	muscle	18	16								M																	
045-010	Seatrout, silver (white)	muscle	44	40							M																		
		liver	1	1										L															
045-008	Seatrout, spotted (speckled)	muscle	89	66							M																		
		liver	3	3								L																	
078-006	Shad, American	muscle	60	27									M																
145-025	Shark, Atlantic, sharpnose	muscle	1	1											M														
145-006	Shark, blacktip	muscle	16	16							M																		
		liver	4	3						L																			

Table 4.1. Distribution of Mean Antimony Levels in the Resource Survey, by Species (continued)

Ranges of Mean Antimony Content, ppm[2/]

Species Number	Species	Tissue[1/]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	14						M																		
		liver	9	7					L																			
145-010	Shark, dusky	muscle	4	3					M																			
145-009	Shark, sandbar	muscle	13	12							M																	
		liver	7	5				L																				
144-001	Shark, white	muscle	2	1											M													
114-001	Sheepshead	muscle	60	39									M															
		liver	2	2									L															
150-005	Skate, little	muscle	54	18										M														
		liver	2	2					L																			
150-012	Skate, winter	muscle	2	2											M													
		liver	1	1											L													
155-005	Snapper, blackfin	muscle	13	12									M															
155-025	Snapper, gray	muscle	40	38								M																
155-008	Snapper, gray (mangrove)	muscle	28	23									M															
155-006	Snapper, red	muscle	38	29									M															
155-024	Snapper, red (ehu)	muscle	40	34							M																	
155-015	Snapper, vermilion	muscle	36	28								M																
		liver	2	1							L																	
155-013	Snapper, yellowtail	muscle	43	37								M																
157-004	Snook	muscle	12	11							M																	
059-021	Sole, Dover	muscle	70	53									M															
		liver	4	2						L																		
059-022	Sole, English	muscle	73	58									M															
		liver	5	4							L																	
059-004	Sole, petrale	muscle	56	49								M																
		liver	7	4								L																
059-006	Sole, rex	muscle	61	51								M																
059-014	Sole, rock	muscle	10	9										M														
011-004	Spearfish, shortbill	muscle	15	15							M																	
		liver	4	2						L																		
045-020	Spot	muscle	54	36									M															
166-003	Sturgeon, green	muscle	10	5									M															
168-001	Surfperch, barred	muscle	20	20										M														
200-003	Tarpon	muscle	11	9								M																
		liver	2	1							L																	
185-022	Tautog	muscle	14	14							M																	
174-003	Tilefish	muscle	60	60							M																	
179-028	Trout, cutthroat	muscle	3	3						M																		
179-029	Trout, rainbow (steelhead)	muscle	9	9							M																	
		liver	1	1								L																
091-019	Tuna, albacore	muscle	40	33								M																
		liver	5	5									L															
091-022	Tuna, bigeye	muscle	40	40						M																		
		liver	21	20							L																	
091-021	Tuna, blackfin	muscle	1	0	M																							
091-023	Tuna, bluefin	muscle	11	9										M														
		liver	1	0	L																							
091-008	Tuna, skipjack	muscle	70	60								M																
		liver	8	8								L																
091-020	Tuna, yellowfin	muscle	80	74									M															
		liver	26	23								L																
091-006	Tunny, little	muscle	50	41							M																	
		liver	2	1						L																		
091-001	Wahoo	muscle	18	10									M															
		liver	3	2										L														
183-002	Wolffish, Atlantic	muscle	60	49						M																		
		liver	15	15					L																			
079-023	Yellowtail	muscle	24	22									M															
	Mollusca																											
187-005	Abalone, green	shucked	10	9										S														
187-008	Abalone, red	shucked	10	8											S													
191-003	Clam, butter	shucked	29	25											S													
191-001	Clam, hard (quahog)	shucked	141	116										S														
191-008	Clam; Pacific littleneck	shucked	1	1										S														
243-002	Clam, razor	shucked	39	32											S													
242-001	Clam, soft	shucked	19	0	S																							
244-005	Clam, surf	shucked	23	0	S																							
205-001	Octopus (marmuratus)	whole	4	3											W													
		mantle	36	32									N															

Table 4.1. Distribution of Mean Antimony Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue1/	Total # Samples	# samples in mean	Ranges of Mean Antimony Content, ppm2/																					
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																									
189-001	Oyster, eastern	shucked	152	136									S													
189-002	Oyster, Pacific (giant)	shucked	70	55										S												
190-014	Scallop, Atlantic bay	adductor muscle	20	17						A																
190-016	Scallop, calico	shucked	10	9											S											
		adductor muscle	20	17							A															
190-028	Scallop, pink	adductor muscle	5	0	A																					
190-013	Scallop, sea (smooth)	adductor muscle	11	11						A																
188-003	Squid, Atlantic longfinned	whole	23	23									W													
		mantle	110	37								N														
188-006	Squid, Pacific	whole	50	48							W															
188-014	Squid, shortfinned	mantle	91	49										N												
	Crustacea																									
196-001	Crab, blue	body meat	35	32											B											
		claw meat	5	4											C											
		claw & body meat	54	27											D											
196-011	Crab, dungeness	meat, unk.	42	38										U												
		claw & body meat	8	5										D												
196-012	Crab, king	meat, unk.	20	20											U											
		claw & body meat	9	9									D													
196-006	Crab, red, deep sea	meat, unk.	25	3			U																			
196-003	Crab, rock	meat, unk.	15	3			U																			
196-035	Crab, tanner (bairdi)	meat, unk.	49	49								U														
194-012	Lobster, northern (American)	body meat	2	2									B													
		claw meat	2	2									C													
		tail meat	2	2								T														
		leg meat	2	1									F													
		claw & tail meat	80	75										K												
194-002	Lobster, spiny (Atlantic)	tail meat	39	37											T											
194-003	Lobster, spiny (Pacific)	tail meat	5	5										T												
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17									P													
192-005	Shrimp, brown	tail, peeled	53	39									P													
192-007	Shrimp, ocean	tail, peeled	10	10									P													
192-010	Shrimp, pink	tail, peeled	50	35											P											
192-011	Shrimp, pink (northern)	tail, peeled	64	33										P												
192-003	Shrimp, royal red	tail, peeled	12	12										P												
192-004	Shrimp, white	tail, peeled	77	61										P												

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.2. Distribution of Mean Arsenic Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Arsenic Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	43													M											
		whole	4	4													W											
001-016	Anchovy, northern	whole	38	38													W											
001-006	Anchovy, striped	h & g	40	40											H													
002-002	Argentine, Atlantic	h & g	6	6												H												
062-014	Ballyhoo	whole	57	57													W											
005-002	Barracuda, Atlantic	muscle	7	7													M											
005-001	Barracuda, Pacific	muscle	20	20												M												
006-006	Bass, black sea	muscle	54	54																			M					
		liver	2	2																		L						
007-004	Bass, striped	muscle	112	110												M												
		liver	3	3												L												
012-001	Bluefish	muscle	71	70												M												
		liver	4	4													L											
091-011	Bonito, Atlantic	muscle	14	14												M												
091-009	Bonito, Pacific	muscle	40	38												M												
		liver	1	1											L													
021-007	Bullhead, brown	muscle	4	4											M													
018-014	Butterfish	muscle	71	70												M												
		whole	17	17											W													
		h & g	1	1														H										
021-010	Catfish, channel	muscle	20	19											M													
023-002	Catfish, gafftopsail	muscle	34	34																			M					
		liver	3	3														L										
023-001	Catfish, sea	muscle	45	45																			M					
		liver	6	5																L								
021-002	Catfish, white	muscle	1	1							M																	
033-008	Cod, Atlantic	muscle	114	114														M										
		liver	32	32														L										
033-007	Cod, Pacific (gray)	muscle	56	56																		M						
		liver	15	15															L									
045-026	Croaker, Atlantic	muscle	90	90													M											
033-004	Cusk	muscle	75	75														M										
		liver	17	16														L										
037-004	Cusk-eel, fawn	muscle	1	1																		M						
145-018	Dogfish, smooth	muscle	93	93																			M					
141-007	Dogfish, spiny	muscle	112	112																M								
		liver	29	29																	L							
041-002	Dolphin	muscle	63	63													M											
		liver	25	25													L											
045-019	Drum, banded	muscle	5	5																			M					
045-028	Drum, black	muscle	60	60														M										
		liver	2	2														L										
045-030	Drum, red	muscle	72	71													M											
		liver	2	2													L											
051-001	Eel, American	muscle	30	30											M													
047-002	Eel, conger	muscle	1	1																		M						
153-009	Eulachon	whole	32	32												W												
058-028	Flounder, fourspot	muscle	70	70															M									
058-024	Flounder, Gulf	muscle	37	37													M											
		liver	1	1												L												
058-027	Flounder, southern	muscle	42	42														M										
		liver	1	1													L											
058-026	Flounder, summer (fluke)	muscle	40	40																M								
		liver	2	2													L											
058-030	Flounder, windowpane (s.dab)	muscle	18	18														M										
059-030	Flounder, winter	muscle	122	122															M									
		liver	2	2															L									
059-005	Flounder, witch	muscle	68	68																				M				
059-016	Flounder, yellowtail	muscle	89	89																	M							
		liver	1	1												L												
006-040	Gag	muscle	29	29														M										
066-009	Goatfish	muscle	38	38																M								
068-001	Goosefish	muscle	80	80																		M						
		liver	9	9														L										
		h & g	1	1																			H					
006-037	Grouper, black	muscle	33	33													M											
006-017	Grouper, red	muscle	40	40												M												
006-038	Grouper, yellowmouth	muscle	10	10																	M							
		liver	1	1											L													
073-015	Grunt, bluestriped (yellow)	muscle	16	16													M											

Table 4.2. Distribution of Mean Arsenic Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Arsenic Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
073-014	Grunt, white	muscle	17	17														M										
033-011	Haddock	muscle	75	75																	M							
		liver	16	16																				L				
		whole	1	1																				W				
033-013	Hake, Pacific	muscle	47	47												M												
		liver	1	1													L											
033-020	Hake, red	muscle	64	64																				M				
033-012	Hake, silver (whiting)	muscle	83	83																M								
		liver	3	3															L									
033-024	Hake, spotted	muscle	65	65														M										
033-025	Hake, white	muscle	70	70																	M							
		liver	28	28																				L				
059-011	Halibut, Pacific	muscle	34	34												M												
		liver	14	14															L									
143-001	Hammerhead, scalloped	muscle	12	12															M									
143-005	Hammerhead, smooth	muscle	9	9																	M							
		liver	7	7																						L		
018-011	Harvestfish	muscle	3	3														M										
		whole	16	16													W											
078-011	Herring, Atlantic	muscle	24	24												M												
		whole	63	63												W												
		headed	6	6												E												
		h & g	2	2													H											
078-001	Herring, blueback	whole	1	1												W												
078-012	Herring, Pacific	muscle	14	14														M										
		whole	30	30												W												
078-015	Herring, round	h & g	50	50													H											
006-013	Hind, speckled	muscle	20	20												M												
		liver	6	6														L										
079-068	Jack, (mackerel scad)	muscle	39	39														M										
079-053	Jack, akule	muscle	38	38													M											
079-005	Jack, crevalle	muscle	47	46												M												
		liver	3	3												L												
079-069	Jack, crevalle (Hawaii)	muscle	40	40												M												
149-004	Jacksmelt	whole	20	19												W												
006-016	Jewfish	muscle	7	7													M											
045-024	Kingfish, northern	muscle	6	6														M										
045-021	Kingfish, southern	muscle	14	14													M											
		liver	1	1													L											
200-002	Ladyfish	muscle	1	1																	M							
071-005	Lingcod	muscle	74	74												M												
		liver	11	11											L													
091-013	Mackerel, Atlantic	muscle	79	79												M												
091-012	Mackerel, chub	muscle	30	30												M												
079-034	Mackerel, jack	muscle	10	10											M													
		liver	1	1												L												
		headed	4	4												E												
091-014	Mackerel, king	muscle	104	102													M											
		liver	10	10												L												
		milt	1	1												Q												
		roe	10	10												R												
091-016	Mackerel, Spanish	muscle	104	104													M											
		liver	4	4														L										
144-003	Mako, shortfin	muscle	3	3															M									
		liver	2	2																				L				
011-002	Marlin, blue	muscle	30	29												M												
		liver	10	9													L											
011-005	Marlin, striped	muscle	40	40												M												
		liver	8	8													L											
011-003	Marlin, white	muscle	50	50													M											
		liver	8	8													L											
162-012	Mempachi	muscle	20	20																		M						
		liver	1	1																				L				
078-010	Menhaden, Atlantic	muscle	10	10												M												
		whole	98	97														W										
078-008	Menhaden, Gulf	muscle	49	49													M											
		whole	28	28														W										
		gutted	7	7																	G							
078-009	Menhaden, yellowfin	whole	12	12																	W							
206-001	Milkfish	muscle	40	40												M												

Table 4.2 Distribution of Mean Arsenic Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Arsenic Content, ppm[2]																											
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																															
094-010	Mojarra, yellowfin	muscle	10	10												M																
098-003	Mullet, silver (white)	muscle	35	35												M																
098-002	Mullet, striped	muscle	153	149												M																
		liver	5	5																			L									
079-030	Palometa	muscle	2	2																	M											
131-023	Perch, ocean (Pacific)	muscle	27	27													M															
		liver	16	16												L																
131-052	Perch, ocean (redfish)	muscle	80	79													M															
		liver	1	1															L													
006-010	Perch, sand	muscle	1	1												M																
168-005	Perch, shiner	whole	2	2											W																	
045-003	Perch, silver	muscle	18	18														M														
007-001	Perch, white	muscle	27	27											M																	
		h & g	18	18												H																
079-029	Permit	muscle	9	9																		M										
073-017	Pigfish	muscle	33	32												M																
114-013	Pinfish, spottail	muscle	10	10															M													
		liver	1	1													L															
059-008	Plaice, American (dab)	muscle	68	68																				M								
		whole	1	1															W													
033-017	Pollock	muscle	72	72													M															
		liver	30	30																	L											
033-019	Pollock, walleye (Alaska)	muscle	48	48												M																
		liver	3	3															L													
079-028	Pompano, Florida	muscle	61	61																M												
		liver	4	4															L													
114-014	Porgy, red	muscle	22	22																				M								
		liver	1	1																		L										
056-018	Pout, ocean	muscle	32	32												M																
		liver	2	2														L														
131-061	Rockfish, bocaccio	muscle	46	46												M																
		liver	3	3												L																
131-063	Rockfish, canary	muscle	41	40													M															
		liver																														
131-031	Rockfish, copper	muscle	10	10												M																
131-043	Rockfish, yellowtail	muscle	20	19												M																
079-004	Runner, blue	muscle	56	55													M															
		liver	4	4											L																	
126-001	Sablefish	muscle	98	97													M															
		liver	12	12													L															
011-001	Sailfish	muscle	43	43													M															
		liver	2	2												L																
179-020	Salmon, chinook, (king)	muscle	105	105												M																
		liver	20	20												L																
179-017	Salmon, chum (keta)	muscle	52	50												M																
		liver	5	4												L																
179-018	Salmon, coho (silver)	muscle	68	66												M																
		liver	7	6											L																	
179-016	Salmon, pink	muscle	29	27												M																
		liver	3	3											L																	
179-019	Salmon, sockeye (red)	muscle	60	57												M																
		liver	4	4											L																	
079-013	Scad, round	h & g	2	2																			H									
006-041	Scamp	muscle	10	10													M															
		liver	1	1														L														
132-031	Sculpin, longhorn	muscle	1	1												M																
114-016	Scup	muscle	72	72													M															
135-010	Searobin, northern	muscle	76	76												M																
135-011	Searobin, striped	muscle	10	10													M															
045-012	Seatrout, gray (weakfish)	muscle	72	71											M																	
		liver	2	2											L																	
		whole	10	10												W																
045-007	Seatrout, sand	muscle	18	18												M																
045-010	Seatrout, silver (white)	muscle	43	41												M																
		liver	1	1											L																	
045-008	Seatrout, spotted (speckled)	muscle	87	84												M																
		liver	3	3											L																	
078-006	Shad, American	muscle	59	59													M															
145-025	Shark, Atlantic, sharpnose	muscle	1	1																				M								
145-006	Shark, blacktip	muscle	16	16																			M									
		liver	4	4																				L								

Table 4.2. Distribution of Mean Arsenic Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Arsenic Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	14																				M				
		liver	7	7																							L	
145-010	Shark, dusky	muscle	3	3																				M				
145-009	Shark, sandbar	muscle	11	11																	M							
		liver	7	7																					L			
144-001	Shark, white	muscle	1	1																			M					
114-001	Sheepshead	muscle	59	59														M										
		liver	2	2																		L						
150-005	Skate, little	muscle	54	54																				M				
		liver	2	2																			L					
150-012	Skate, winter	muscle	2	2																				M				
		liver	1	1														L										
155-005	Snapper, blackfin	muscle	11	11													M											
155-025	Snapper, gray	muscle	39	39														M										
155-008	Snapper, gray (mangrove)	muscle	26	25														M										
155-006	Snapper, red	muscle	33	31													M											
155-024	Snapper, red (ehu)	muscle	38	38																	M							
155-015	Snapper, vermilion	muscle	35	35													M											
		liver	2	2														L										
155-013	Snapper, yellowtail	muscle	43	43												M												
157-004	Snook	muscle	12	12													M											
059-021	Sole, Dover	muscle	64	64																	M							
		liver	3	3															L									
059-022	Sole, English	muscle	70	70																			M					
		liver	4	4																	L							
059-004	Sole, petrale	muscle	53	53																M								
		liver	6	6																	L							
059-006	Sole, rex	muscle	58	57																			M					
059-014	Sole, rock	muscle	10	10															M									
011-004	Spearfish, shortbill	muscle	15	15												M												
		liver	4	3																L								
045-020	Spot	muscle	53	53														M										
166-003	Sturgeon, green	muscle	10	10																			M					
168-001	Surfperch, barred	muscle	20	20												M												
200-003	Tarpon	muscle	12	12																					M			
		liver	2	2																					L			
185-022	Tautog	muscle	14	14												M												
174-003	Tilefish	muscle	59	59															M									
179-028	Trout, cutthroat	muscle	3	3											M													
179-029	Trout, rainbow (steelhead)	muscle	9	9											M													
		liver	1	1							L																	
091-019	Tuna, albacore	muscle	40	40													M											
		liver	4	4														L										
091-022	Tuna, bigeye	muscle	37	37													M											
		liver	19	19																				L				
091-021	Tuna, blackfin	muscle	1	1														M										
091-023	Tuna, bluefin	muscle	11	11													M											
		liver	1	1												L												
091-008	Tuna, skipjack	muscle	69	69													M											
		liver	5	5															L									
091-020	Tuna, yellowfin	muscle	77	76												M												
		liver	25	25														L										
091-006	Tunny, little	muscle	47	46												M												
		liver	2	2														L										
091-001	Wahoo	muscle	18	18													M											
		liver	2	2													L											
183-002	Wolffish, Atlantic	muscle	60	60																M								
		liver	14	14																		L						
079-023	Yellowtail	muscle	24	23												M												
	Mollusca																											
187-005	Abalone, green	shucked	10	10																				S				
187-008	Abalone, red	shucked	8	8																				S				
191-003	Clam, butter	shucked	28	28																	S							
191-001	Clam, hard (quahog)	shucked	140	140													S											
191-008	Clam, Pacific littleneck	shucked	1	1														S										
243-002	Clam, razor	shucked	38	38												S												
242-001	Clam, soft	shucked	19	19												S												
244-005	Clam, surf	shucked	23	23												S												
205-001	Octopus (marmuratus)	whole	4	4																				W				
		mantle	34	34																				N				

Table 4.2. Distribution of Mean Arsenic Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue 1/	Total # Samples	# samples in mean	Ranges of Mean Arsenic Content, ppm 2/																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																											
189-001	Oyster, eastern	shucked	148	145													S											
189-002	Oyster, Pacific (giant)	shucked	69	68													S											
190-014	Scallop, Atlantic bay	adductor muscle	20	20												A												
190-016	Scallop, calico	shucked	10	10																		S						
		adductor muscle	19	19														A										
190-028	Scallop, pink	adductor muscle	5	5												A												
190-013	Scallop, sea (smooth)	adductor muscle	11	11													A											
188-003	Squid, Atlantic longfinned	whole	23	23																W								
		mantle	110	110													N											
188-006	Squid, Pacific	whole	50	50												W												
188-014	Squid, shortfinned	mantle	90	90													N											
	Crustacea																											
196-001	Crab, blue	body meat	34	34													B											
		claw meat	5	5													C											
		claw & body meat	52	52															D									
196-011	Crab, dungeness	meat, unk.	39	39															U									
		claw & body meat	6	6																D								
196-012	Crab, king	meat, unk.	20	20														U										
		claw & body meat	9	9															D									
196-006	Crab, red, deep sea	meat, unk.	25	25																			U					
196-003	Crab, rock	meat, unk.	15	15																			U					
196-035	Crab, tanner (bairdi)	meat, unk.	50	50																			U					
194-012	Lobster, northern (American)	body meat	2	2																			B					
		claw meat	2	2																			C					
		tail meat	2	2																			T					
		leg meat	1	1																				F				
		claw & tail meat	79	79																				K				
194-002	Lobster, spiny (Atlantic)	tail meat	39	39																			T					
194-003	Lobster, spiny (Pacific)	tail meat	4	4																				T				
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17														P										
192-005	Shrimp, brown	tail, peeled	49	47																P								
192-007	Shrimp, ocean	tail, peeled	10	10													P											
192-010	Shrimp, pink	tail, peeled	49	49														P										
192-011	Shrimp, pink (northern)	tail, peeled	64	64																			P					
192-003	Shrimp, royal red	tail, peeled	12	12																						P		
192-004	Shrimp, white	tail, peeled	75	75														P										

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.3. Distribution of Mean Cadmium Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Cadmium Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
078-005	Alewife	muscle	43	41	M																						
		whole	4	4		W																					
001-016	Anchovy, northern	whole	40	40				W																			
001-006	Anchovy, striped	h & g	40	40		H																					
002-002	Argentine, Atlantic	h & g	7	7	H																						
062-014	Ballyhoo	whole	58	58		W																					
005-002	Barracuda, Atlantic	muscle	7	7	M																						
005-001	Barracuda, Pacific	muscle	19	18		M																					
006-006	Bass, black sea	muscle	55	45	M																						
		liver	2	2											L												
007-004	Bass, striped	muscle	117	106	M																						
		liver	3	3											L												
012-001	Bluefish	muscle	73	58	M																						
		liver	4	4		L																					
091-011	Bonito, Atlantic	muscle	15	15	M																						
091-009	Bonito, Pacific	muscle	40	36	M																						
		liver	1	1											L												
021-007	Bullhead, brown	muscle	4	4	M																						
018-014	Butterfish	muscle	72	70	M																						
		whole	17.	17		W																					
		h & g	1	1		H																					
021-010	Catfish, channel	muscle	20	19	M																						
023-002	Catfish, gafftopsail	muscle	34	29	M																						
		liver	3	2					L																		
023-001	Catfish, sea	muscle	47	39	M																						
		liver	6	6						L																	
021-002	Catfish, white	muscle	1	1	M																						
033-008	Cod, Atlantic	muscle	113	108	M																						
		liver	36	35		L																					
033-007	Cod, Pacific (gray)	muscle	59	47	M																						
		liver	16	11		L																					
045-026	Croaker, Atlantic	muscle	92	86	M																						
033-004	Cusk	muscle	76	74	M																						
		liver	18	18				L																			
037-004	Cusk-eel, fawn	muscle	2	2		M																					
145-018	Dogfish, smooth	muscle	95	94		M																					
141-007	Dogfish, spiny	muscle	115	105	M																						
		liver	29	28					L																		
041-002	Dolphin	muscle	63	59	M																						
		liver	28	28												L											
045-019	Drum, banded	muscle	5	5	M																						
045-028	Drum, black	muscle	61	54	M																						
		liver	2	2					L																		
045-030	Drum, red	muscle	73	63	M																						
		liver	3	3									L														
051-001	Eel, American	muscle	30	26	M																						
047-002	Eel, conger	muscle	1	1	M																						
153-009	Eulachon	whole	33	31		W																					
058-028	Flounder, fourspot	muscle	71	71	M																						
058-024	Flounder, Gulf	muscle	41	36	M																						
		liver	1	1		L																					
058-027	Flounder, southern	muscle	42	40	M																						
		liver	2	2		L																					
058-026	Flounder, summer (fluke)	muscle	42	30	M																						
		liver	2	2				L																			
058-030	Flounder, windowpane (s.dab)	muscle	18	17	M																						
059-030	Flounder, winter	muscle	123	122	M																						
		liver	2	2			L																				
059-005	Flounder, witch	muscle	70	70	M																						
059-016	Flounder, yellowtail	muscle	89	89	M																						
		liver	2	2				L																			
006-040	Gag	muscle	30	28	M																						
066-009	Goatfish	muscle	40	39	M																						
068-001	Goosefish	muscle	81	81	M																						
		liver	10	10		L																					
		h & g	1.	0	H																						
006-037	Grouper, black	muscle	34	32	M																						
006-017	Grouper, red	muscle	41	38	M																						
006-038	Grouper, yellowmouth	muscle	10	8	M																						
		liver	1	1												L											
073-015	Grunt, bluestriped (yellow)	muscle	16	16	M																						

Table 4.3. Distribution of Mean Cadmium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Cadmium Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
073-014	Grunt, white	muscle	17	17	M																						
033-011	Haddock	muscle	77	74	M																						
		liver	17	17			L																				
		whole	1	0	W																						
033-013	Hake, Pacific	muscle	49	38	M																						
		liver	1	1							L																
033-020	Hake, red	muscle	65	65	M																						
033-012	Hake, silver (whiting)	muscle	81	79	M																						
		liver	3	3		L																					
033-024	Hake, spotted	muscle	65	65	M																						
033-025	Hake, white	muscle	69	66	M																						
		liver	31	29	L																						
059-011	Halibut, Pacific	muscle	37	30	M																						
		liver	16	16											L												
143-001	Hammerhead, scalloped	muscle	12	12	M																						
143-005	Hammerhead, smooth	muscle	10	10	M																						
		liver	7	7											L												
018-011	Harvestfish	muscle	3	3	M																						
		whole	16	16		W																					
078-011	Herring, Atlantic	muscle	24	24	M																						
		whole	63	63		W																					
		headed	6	6	E																						
		h & g	2	2		H																					
078-001	Herring, blueback	whole	1	1	W																						
078-012	Herring, Pacific	muscle	14	12	M																						
		whole	30	30		W																					
078-015	Herring, round	h & g	50	50		H																					
006-013	Hind, speckled	muscle	20	20	M																						
		liver	7	7							L																
079-068	Jack, (mackerel scad)	muscle	39	38	M																						
079-053	Jack, akule	muscle	39	36	M																						
079-005	Jack, crevalle	muscle	49	41	M																						
		liver	4	4											L												
079-069	Jack, crevalle (Hawaii)	muscle	40	40	M																						
149-004	Jacksmelt	whole	20	20		W																					
006-016	Jewfish	muscle	8	6	M																						
045-024	Kingfish, northern	muscle	6	6	M																						
045-021	Kingfish, southern	muscle	14	14	M																						
		liver	1	1				L																			
200-002	Ladyfish	muscle	2	1		M																					
071-005	Lingcod	muscle	78	66	M																						
		liver	13	13							L																
091-013	Mackerel, Atlantic	muscle	80	80	M																						
091-012	Mackerel, chub	muscle	30	30		M																					
079-034	Mackerel, jack	muscle	10	10	M																						
		liver	1	1																			L				
		headed	4	4		E																					
091-014	Mackerel, king	muscle	107	91	M																						
		liver	10	10										L													
		milt	1	1	Q																						
		roe	11	11	R																						
091-016	Mackerel, Spanish	muscle	108	89	M																						
		liver	4	4			L																				
144-003	Mako, shortfin	muscle	3	3	M																						
		liver	2	2							L																
011-002	Marlin, blue	muscle	33	29		M																					
		liver	11	11																			L				
011-005	Marlin, striped	muscle	40	37		M																					
		liver	9	9													L										
011-003	Marlin, white	muscle	53	51		M																					
		liver	9	9																L							
162-012	Mempachi	muscle	20	17	M																						
		liver	1	1																				L			
078-010	Menhaden, Atlantic	muscle	10	10	M																						
		whole	100	100			W																				
078-008	Menhaden, Gulf	muscle	50	48	M																						
		whole	28	28		W																					
		gutted	9	9			G																				
078-009	Menhaden, yellowfin	whole	13	13		W																					
206-001	Milkfish	muscle	40	37	M																						

Table 4.3. Distribution of Mean Cadmium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Cadmium Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
094-010	Mojarra, yellowfin	muscle	10	6	M																						
098-003	Mullet, silver (white)	muscle	36	36	M																						
098-002	Mullet, striped	muscle	158	142	M																						
		liver	5	5				L																			
079-030	Palometa	muscle	2	1	M																						
131-023	Perch, ocean (Pacific)	muscle	30	22	M																						
		liver	18	18											L												
131-052	Perch, ocean (redfish)	muscle	80	78	M																						
		liver	2	2				L																			
006-010	Perch, sand	muscle	1	1	M																						
168-005	Perch, shiner	whole	2	2		W																					
045-003	Perch, silver	muscle	20	19	M																						
007-001	Perch, white	muscle	27	27	M																						
		h & g	19	18		H																					
079-029	Permit	muscle	9	6	M																						
073-017	Pigfish	muscle	34	32	M																						
114-013	Pinfish, spottail	muscle	10	10	M																						
		liver	1	1											L												
059-008	Plaice, American (dab)	muscle	68	67	M																						
		whole	1	1		W																					
033-017	Pollock	muscle	73	68	M																						
		liver	32	32			L																				
033-019	Pollock, walleye (Alaska)	muscle	48	44	M																						
		liver	3	3				L																			
079-028	Pompano, Florida	muscle	60	55	M																						
		liver	4	4												L											
114-014	Porgy, red	muscle	22	21	M																						
		liver	1	1																L							
056-018	Pout, ocean	muscle	34	34	M																						
		liver	3	3										L													
131-061	Rockfish, bocaccio	muscle	48	36	M																						
		liver	4	4				L																			
131-063	Rockfish, canary	muscle	43	30	M																						
		liver	1	1												L											
131-031	Rockfish, copper	muscle	10	10	M																						
131-043	Rockfish, yellowtail	muscle	20	10	M																						
079-004	Runner, blue	muscle	55	53	M																						
		liver	4	4											L												
126-001	Sablefish	muscle	103	80	M																						
		liver	14	14												L											
011-001	Sailfish	muscle	42	40	M																						
		liver	3	3												L											
179-020	Salmon, chinook, (king)	muscle	109	104	M																						
		liver	22	22					L																		
179-017	Salmon, chum (keta)	muscle	57	52	M																						
		liver	5	5									L														
179-018	Salmon, coho (silver)	muscle	68	64	M																						
		liver	7	7						L																	
179-016	Salmon, pink	muscle	27	24	M																						
		liver	3	3					L																		
179-019	Salmon, sockeye (red)	muscle	61	57	M																						
		liver	4	4							L																
079-013	Scad, round	h & g	3	2		H																					
006-041	Scamp	muscle	10	10	M																						
		liver	1	1											L												
132-031	Sculpin, longhorn	muscle	1	1	M																						
114-016	Scup	muscle	72	68	M																						
135-010	Searobin, northern	muscle	78	77	M																						
135-011	Searobin, striped	muscle	10	10	M																						
045-012	Seatrout, gray (weakfish)	muscle	72	68	M																						
		liver	3	3			L																				
		whole	10	10		W																					
045-007	Seatrout, sand	muscle	18	17	M																						
045-010	Seatrout, silver (white)	muscle	44	44	M																						
		liver	1	1					L																		
045-008	Seatrout, spotted (speckled)	muscle	89	66	M																						
		liver	3	2		L																					
078-006	Shad, American	muscle	60	56	M																						
145-025	Shark, Atlantic, sharpnose	muscle	1	1	M																						
145-006	Shark, blacktip	muscle	16	16	M																						
		liver	4	4							L																

Table 4.3. Distribution of Mean Cadmium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Cadmium Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	14	M																							
		liver	9	9														L										
145-010	Shark, dusky	muscle	4	4	M																							
145-009	Shark, sandbar	muscle	13	13	M																							
		liver	6	5				L																				
144-001	Shark, white	muscle	2	2	M																							
114-001	Sheepshead	muscle	60	55	M																							
		liver	2	2					L																			
150-005	Skate, little	muscle	54	54	M																							
		liver	2	2								L																
150-012	Skate, winter	muscle	2	2		M																						
		liver	1	1			L																					
155-005	Snapper, blackfin	muscle	13	13	M																							
155-025	Snapper, gray	muscle	40	40	M																							
155-008	Snapper, gray (mangrove)	muscle	28	27	M																							
155-006	Snapper, red	muscle	38	26	M																							
155-024	Snapper, red (ehu)	muscle	40	40	M																							
155-015	Snapper, vermilion	muscle	36	31	M																							
		liver	2	2														L										
155-013	Snapper, yellowtail	muscle	43	41	M																							
157-004	Snook	muscle	12	12	M																							
059-021	Sole, Dover	muscle	70	56	M																							
		liver	4	4											L													
059-022	Sole, English	muscle	73	53	M																							
		liver	5	5									L															
059-004	Sole, petrale	muscle	56	46	M																							
		liver	7	7								L																
059-006	Sole, rex	muscle	61	44	M																							
059-014	Sole, rock	muscle	10	10	M																							
011-004	Spearfish, shortbill	muscle	15	15	M																							
		liver	4	4											L													
045-020	Spot	muscle	54	43	M																							
166-003	Sturgeon, green	muscle	10	8	M																							
168-001	Surfperch, barred	muscle	20	20	M																							
200-003	Tarpon	muscle	12	11	M																							
		liver	2	2																	L							
185-022	Tautog	muscle	14	14	M																							
174-003	Tilefish	muscle	60	59	M																							
179-028	Trout, cutthroat	muscle	3	3	M																							
179-029	Trout, rainbow (steelhead)	muscle	8	8	M																							
		liver	1	1					L																			
091-019	Tuna, albacore	muscle	40	36	M																							
		liver	5	5														L										
091-022	Tuna, bigeye	muscle	40	35	M																							
		liver	21	21																	L							
091-021	Tuna, blackfin	muscle	1	1	M																							
091-023	Tuna, bluefin	muscle	11	10	M																							
		liver	1	1												L												
091-008	Tuna, skipjack	muscle	70	63	M																							
		liver	8	8															L									
091-020	Tuna, yellowfin	muscle	80	76	M																							
		liver	26	26																	L							
091-006	Tunny, little	muscle	50	50	M																							
		liver	2	2													L											
091-001	Wahoo	muscle	18	17		M																						
		liver	3	3												L												
183-002	Wolffish, Atlantic	muscle	60	59	M																							
		liver	15	15											L													
079-023	Yellowtail	muscle	23	23	M																							
	Mollusca																											
187-005	Abalone, green	shucked	10	10												S												
187-008	Abalone, red	shucked	10	9		S																						
191-003	Clam, butter	shucked	28	28			S																					
191-001	Clam, hard (quahog)	shucked	141	141			S																					
191-008	Clam, Pacific littleneck	shucked	1	1		S																						
243-002	Clam, razor	shucked	39	37		S																						
242-001	Clam, soft	shucked	19	19			S																					
244-005	Clam, surf	shucked	23	23		S																						
205-001	Octopus (marmuratus)	whole	4	4							W																	
		mantle	35	35				N																				

Table 4.3. Distribution of Mean Cadmium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Cadmium Content, ppm[2]																					
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																										
189-001	Oyster, eastern	shucked	151	151										S													
189-002	Oyster, Pacific (giant)	shucked	70	69											S												
190-014	Scallop, Atlantic bay	adductor muscle	20	20		A																					
190-016	Scallop, calico	shucked	10	10											S												
		adductor muscle	20	20												A											
190-028	Scallop, pink	adductor muscle	5	5	A																						
190-013	Scallop, sea (smooth)	adductor muscle	10	10											A												
188-003	Squid, Atlantic longfinned	whole	23	23		W																					
		mantle	110	110		N																					
188-006	Squid, Pacific	whole	50	50								W															
188-014	Squid, shortfinned	mantle	92	92		N																					
	Crustacea																										
196-001	Crab, blue	body meat	32	32		B																					
		claw meat	5	5		C																					
		claw & body meat	54	54		D																					
196-011	Crab, dungeness	meat, unk.	42	42		U																					
		claw & body meat	8	6		D																					
196-012	Crab, king	meat, unk.	20	20		U																					
		claw & body meat	9	9			D																				
196-006	Crab, red, deep sea	meat, unk.	25	25		U																					
196-003	Crab, rock	meat, unk.	15	15				U																			
196-035	Crab, tanner (bairdi)	meat, unk.	48	48			U																				
194-012	Lobster, northern (American)	body meat	2	2																			B				
		claw meat	2	2		C																					
		tail meat	2	2					T																		
		leg meat	2	2		F																					
		claw & tail meat	78	78			K																				
194-002	Lobster, spiny (Atlantic)	tail meat	39	37	T																						
194-003	Lobster, spiny (Pacific)	tail meat	5	5			T																				
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17		P																					
192-005	Shrimp, brown	tail, peeled	53	46	P																						
192-007	Shrimp, ocean	tail, peeled	8	8		P																					
192-010	Shrimp, pink	tail, peeled	49	48		P																					
192-011	Shrimp, pink (northern)	tail, peeled	64	64		P																					
192-003	Shrimp, royal red	tail, peeled	12	12		P																					
192-004	Shrimp, white	tail, peeled	75	62	P																						

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.4. Distribution of Mean Chromium Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Chromium Content, ppm[2]: < 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																												
078-005	Alewife	muscle	43	42		M																							
		whole	4	4			W																						
001-016	Anchovy, northern	whole	40	40				W																					
001-006	Anchovy, striped	h & g	37	37			H																						
002-002	Argentine, Atlantic	h & g	7	7			H																						
062-014	Ballyhoo	whole	57	56					W																				
005-002	Barracuda, Atlantic	muscle	7	7			M																						
005-001	Barracuda, Pacific	muscle	20	18				M																					
006-006	Bass, black sea	muscle	55	51		M																							
		liver	2	2			L																						
007-004	Bass, striped	muscle	116	108		M																							
		liver	3	3		L																							
012-001	Bluefish	muscle	73	70			M																						
		liver	4	4		L																							
091-011	Bonito, Atlantic	muscle	15	15			M																						
091-009	Bonito, Pacific	muscle	40	39			M																						
		liver	1	1		L																							
021-007	Bullhead, brown	muscle	4	4		M																							
018-014	Butterfish	muscle	70	70			M																						
		whole	17	17				W																					
		h & g	1	1				H																					
021-010	Catfish, channel	muscle	20	19		M																							
023-002	Catfish, gafftopsail	muscle	33	33		M																							
		liver	3	3		L																							
023-001	Catfish, sea	muscle	46	45		M																							
		liver	6	6				L																					
021-002	Catfish, white	muscle	1	1	M																								
033-008	Cod, Atlantic	muscle	113	109		M																							
		liver	36	30		L																							
033-007	Cod, Pacific (gray)	muscle	59	55		M																							
		liver	16	14		L																							
045-026	Croaker, Atlantic	muscle	90	88		M																							
033-004	Cusk	muscle	75	73		M																							
		liver	18	12	L																								
037-004	Cusk-eel, fawn	muscle	2	2			M																						
145-018	Dogfish, smooth	muscle	93	89			M																						
141-007	Dogfish, spiny	muscle	114	108		M																							
		liver	28	21	L																								
041-002	Dolphin	muscle	63	61		M																							
		liver	27	25		L																							
045-019	Drum, banded	muscle	5	5					M																				
045-028	Drum, black	muscle	61	58			M																						
		liver	2	2		L																							
045-030	Drum, red	muscle	69	65		M																							
		liver	3	3		L																							
051-001	Eel, American	muscle	29	27			M																						
047-002	Eel, conger	muscle	1	1		M																							
153-009	Eulachon	whole	33	32			W																						
058-028	Flounder, fourspot	muscle	69	66			M																						
058-024	Flounder, Gulf	muscle	41	40		M																							
		liver	1	1											L														
058-027	Flounder, southern	muscle	42	41		M																							
		liver	2	2				L																					
058-026	Flounder, summer (fluke)	muscle	41	38		M																							
		liver	2	2					L																				
058-030	Flounder, windowpane (s.dab)	muscle	15	14		M																							
059-030	Flounder, winter	muscle	122	118			M																						
		liver	2	2	L																								
059-005	Flounder, witch	muscle	71	63		M																							
059-016	Flounder, yellowtail	muscle	87	87		M																							
		liver	2	2			L																						
006-040	Gag	muscle	30	29		M																							
066-009	Goatfish	muscle	39	38		M																							
068-001	Goosefish	muscle	79	76		M																							
		liver	10	8		L																							
		h & g	1	1								H																	
006-037	Grouper, black	muscle	33	31		M																							
006-017	Grouper, red	muscle	40	38			M																						
006-038	Grouper, yellowmouth	muscle	10	10		M																							
		liver	1	1	L																								
073-015	Grunt, bluestriped (yellow)	muscle	14	13		M																							

Table 4.4. Distribution of Mean Chromium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Chromium Content, ppm[2]																								
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																												
073-014	Grunt, white	muscle	16	16			M																						
033-011	Haddock	muscle	77	75		M																							
		liver	18	16		L																							
		whole	1	1	W																								
033-013	Hake, Pacific	muscle	49	44		M																							
		liver	1	1	L																								
033-020	Hake, red	muscle	65	60			M																						
033-012	Hake, silver (whiting)	muscle	82	81		M																							
		liver	3	2	L																								
033-024	Hake, spotted	muscle	65	62			M																						
033-025	Hake, white	muscle	69	63		M																							
		liver	31	21			L																						
059-011	Halibut, Pacific	muscle	37	35			M																						
		liver	16	16			L																						
143-001	Hammerhead, scalloped	muscle	11	11		M																							
143-005	Hammerhead, smooth	muscle	10	10			M																						
		liver	7	7		L																							
018-011	Harvestfish	muscle	3	3		M																							
		whole	16	16				W																					
078-011	Herring, Atlantic	muscle	24	23		M																							
		whole	63	63				W																					
		headed	6	6			E																						
		h & g	2	2			H																						
078-001	Herring, blueback	whole	1	1	W																								
078-012	Herring, Pacific	muscle	14	14		M																							
		whole	30	30				W																					
078-015	Herring, round	h & g	49	49				H																					
006-013	Hind, speckled	muscle	20	19		M																							
		liver	7	5		L																							
079-068	Jack, (mackerel scad)	muscle	38	38			M																						
079-053	Jack, akule	muscle	39	37		M																							
079-005	Jack, crevalle	muscle	48	44			M																						
		liver	4	4		L																							
079-069	Jack, crevalle (Hawaii)	muscle	40	39		M																							
149-004	Jacksmelt	whole	20	20			W																						
006-016	Jewfish	muscle	8	8		M																							
045-024	Kingfish, northern	muscle	6	6	M																								
045-021	Kingfish, southern	muscle	13	13			M																						
		liver	1	1		L																							
200-002	Ladyfish	muscle	2	2					M																				
071-005	Lingcod	muscle	77	75		M																							
		liver	13	12				L																					
091-013	Mackerel, Atlantic	muscle	78	74			M																						
091-012	Mackerel, chub	muscle	30	29		M																							
079-034	Mackerel, jack	muscle	10	9		M																							
		liver	1	1		L																							
		headed	4	4		E																							
091-014	Mackerel, king	muscle	105	100		M																							
		liver	10	10		L																							
		milt	1	1		Q																							
		roe	11	10		R																							
091-016	Mackerel, Spanish	muscle	108	102		M																							
		liver	4	3		L																							
144-003	Mako, shortfin	muscle	3	3		M																							
		liver	2	2		L																							
011-002	Marlin, blue	muscle	32	32		M																							
		liver	11	10					L																				
011-005	Marlin, striped	muscle	39	36			M																						
		liver	8	8		L																							
011-003	Marlin, white	muscle	53	52		M																							
		liver	10	10		L																							
162-012	Mempachi	muscle	20	19		M																							
		liver	1	1		L																							
078-010	Menhaden, Atlantic	muscle	10	10			M																						
		whole	101	101							W																		
078-008	Menhaden, Gulf	muscle	50	50			M																						
		whole	28	28								W																	
		gutted	9	9											G														
078-009	Menhaden, yellowfin	whole	13	13					W																				
206-001	Milkfish	muscle	40	39		M																							

Table 4.4. Distribution of Mean Chromium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	10			M																					
098-003	Mullet, silver (white)	muscle	33	30			M																					
098-002	Mullet, striped	muscle	154	152		M																						
		liver	5	5		L																						
079-030	Palometa	muscle	2	2		M																						
131-023	Perch, ocean (Pacific)	muscle	30	27			M																					
		liver	18	17		L																						
131-052	Perch, ocean (redfish)	muscle	80	70		M																						
		liver	2	2			L																					
006-010	Perch, sand	muscle	1	1	M																							
168-005	Perch, shiner	whole	2	2					W																			
045-003	Perch, silver	muscle	20	20		M																						
007-001	Perch, white	muscle	25	25			M																					
		h & g	19	19					H																			
079-029	Permit	muscle	9	9		M																						
073-017	Pigfish	muscle	34	33			M																					
114-013	Pinfish, spottail	muscle	10	10		M																						
		liver	1	1			L																					
059-008	Plaice, American (dab)	muscle	65	59		M																						
		whole	1	1						W																		
033-017	Pollock	muscle	72	68		M																						
		liver	33	25		L																						
033-019	Pollock, walleye (Alaska)	muscle	48	43			M																					
		liver	3	3		L																						
079-028	Pompano, Florida	muscle	59	57		M																						
		liver	4	3		L																						
114-014	Porgy, red	muscle	22	20			M																					
		liver	1	1				L																				
056-018	Pout, ocean	muscle	34	34		M																						
		liver	3	3			L																					
131-061	Rockfish, bocaccio	muscle	48	46			M																					
		liver	4	4		L																						
131-063	Rockfish, canary	muscle	44	41			M																					
		liver	1	1				L																				
131-031	Rockfish, copper	muscle	10	10		M																						
131-043	Rockfish, yellowtail	muscle	20	19			M																					
079-004	Runner, blue	muscle	53	53			M																					
		liver	4	4			L																					
126-001	Sablefish	muscle	103	99			M																					
		liver	14	14				L																				
011-001	Sailfish	muscle	41	41		M																						
		liver	3	3		L																						
179-020	Salmon, chinook, (king)	muscle	108	105		M																						
		liver	22	21		L																						
179-017	Salmon, chum (keta)	muscle	54	52		M																						
		liver	5	4		L																						
179-018	Salmon, coho (silver)	muscle	65	62			M																					
		liver	7	7			L																					
179-016	Salmon, pink	muscle	27	25		M																						
		liver	3	3		L																						
179-019	Salmon, sockeye (red)	muscle	59	54		M																						
		liver	4	4		L																						
079-013	Scad, round	h & g	3	3					H																			
006-041	Scamp	muscle	10	10		M																						
		liver	1	1		L																						
132-031	Sculpin, longhorn	muscle	1	1		M																						
114-016	Scup	muscle	72	69			M																					
135-010	Searobin, northern	muscle	76	75			M																					
135-011	Searobin, striped	muscle	9	8		M																						
045-012	Seatrout, gray (weakfish)	muscle	71	70		M																						
		liver	3	3		L																						
		whole	10	10				W																				
045-007	Seatrout, sand	muscle	18	18		M																						
045-010	Seatrout, silver (white)	muscle	41	39		M																						
		liver	1	1		L																						
045-008	Seatrout, spotted (speckled)	muscle	88	85			M																					
		liver	3.	3		L																						
078-006	Shad, American	muscle	59	57		M																						
145-025	Shark, Atlantic, sharpnose	muscle	1	1	M																							
145-006	Shark, blacktip	muscle	16	16			M																					
		liver	4	4		L																						

Ranges of Mean Chromium Content, ppm[2]

Table 4.4. Distribution of Mean Chromium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Chromium Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	13		M																						
		liver	9	4		L																						
145-010	Shark, dusky	muscle	4	4		M																						
145-009	Shark, sandbar	muscle	13	11		M																						
		liver	7	4		L																						
144-001	Shark, white	muscle	2	2			M																					
114-001	Sheepshead	muscle	58	56			M																					
		liver	2	2		L																						
150-005	Skate, little	muscle	52	52				M																				
		liver	2	1				L																				
150-012	Skate, winter	muscle	2	2			M																					
		liver	1	1					L																			
155-005	Snapper, blackfin	muscle	13	12		M																						
155-025	Snapper, gray	muscle	38	35				M																				
155-008	Snapper, gray (mangrove)	muscle	27	27				M																				
155-006	Snapper, red	muscle	37	36			M																					
155-024	Snapper, red (ehu)	muscle	39	39			M																					
155-015	Snapper, vermilion	muscle	36	35			M																					
		liver	2	2			L																					
155-013	Snapper, yellowtail	muscle	41	40			M																					
157-004	Snook	muscle	12	12			M																					
059-021	Sole, Dover	muscle	70	63			M																					
		liver	4	4				L																				
059-022	Sole, English	muscle	73	68			M																					
		liver	5	5			L																					
059-004	Sole, petrale	muscle	56	50		M																						
		liver	7	6				L																				
059-006	Sole, rex	muscle	61	59			M																					
059-014	Sole, rock	muscle	10	9		M																						
011-004	Spearfish, shortbill	muscle	15	15		M																						
		liver	4	4				L																				
045-020	Spot	muscle	54	53			M																					
166-003	Sturgeon, green	muscle	10	8		M																						
168-001	Surfperch, barred	muscle	20	19		M																						
200-003	Tarpon	muscle	12	12			M																					
		liver	2	2			L																					
185-022	Tautog	muscle	14	14		M																						
174-003	Tilefish	muscle	59	54		M																						
179-028	Trout, cutthroat	muscle	3	3				M																				
179-029	Trout, rainbow (steelhead)	muscle	9	9		M																						
		liver	1	1	L																							
091-019	Tuna, albacore	muscle	40	39			M																					
		liver	5	5			L																					
091-022	Tuna, bigeye	muscle	40	35		M																						
		liver	21	19		L																						
091-021	Tuna, blackfin	muscle	1	1		M																						
091-023	Tuna, bluefin	muscle	11	11		M																						
		liver	1	1		L																						
091-008	Tuna, skipjack	muscle	69	62		M																						
		liver	8	7			L																					
091-020	Tuna, yellowfin	muscle	80	77		M																						
		liver	26	24			L																					
091-006	Tunny, little	muscle	46	43			M																					
		liver	2	2				L																				
091-001	Wahoo	muscle	18	16				M																				
		liver	3	2			L																					
183-002	Wolffish, Atlantic	muscle	60	55		M																						
		liver	15	15		L																						
079-023	Yellowtail	muscle	23	23				M																				
	Mollusca																											
187-005	Abalone, green	shucked	10	10					S																			
187-008	Abalone, red	shucked	10	10			S																					
191-003	Clam, butter	shucked	29	29						S																		
191-001	Clam, hard (quahog)	shucked	141	138				S																				
191-008	Clam, Pacific littleneck	shucked	1	1		S																						
243-002	Clam, razor	shucked	39	39				S																				
242-001	Clam, soft	shucked	18	18			S																					
244-005	Clam, surf	shucked	23	23				S																				
205-001	Octopus (marmuratus)	whole	4	4		W																						
		mantle	36	35		N																						

Table 4.4. Distribution of Mean Chromium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Chromium Content, ppm[2] < 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																											
189-001	Oyster, eastern	shucked	150	142				S																				
189-002	Oyster, Pacific (giant)	shucked	70	67				S																				
190-014	Scallop, Atlantic bay	adductor muscle	20	19			A																					
190-016	Scallop, calico	shucked	10	10								S																
		adductor muscle	19	18		A																						
190-028	Scallop, pink	adductor muscle	5	5				A																				
190-013	Scallop, sea (smooth)	adductor muscle	10	9				A																				
188-003	Squid, Atlantic longfinned	whole	23	23				W																				
		mantle	106	105			N																					
188-006	Squid, Pacific	whole	49	47		W																						
188-014	Squid, shortfinned	mantle	90	86			N																					
	Crustacea																											
196-001	Crab, blue	body meat	35	35			B																					
		claw meat	5	5				C																				
		claw & body meat	54	53			D																					
196-011	Crab, dungeness	meat, unk.	41	39		U																						
		claw & body meat	8	8			D																					
196-012	Crab, king	meat, unk.	20	20			U																					
		claw & body meat	9	8		D																						
196-006	Crab, red, deep sea	meat, unk.	24	24			U																					
196-003	Crab, rock	meat, unk.	15	15			U																					
196-035	Crab, tanner (bairdi)	meat, unk.	47	45		U																						
194-012	Lobster, northern (American)	body meat	2	2						B																		
		claw meat	2	1				C																				
		tail meat	2	2		T																						
		leg meat	2	2		F																						
		claw & tail meat	79	78		K																						
194-002	Lobster, spiny (Atlantic)	tail meat	40	38		T																						
194-003	Lobster, spiny (Pacific)	tail meat	5	5		T																						
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	16		P																						
192-005	Shrimp, brown	tail, peeled	52	48			P																					
192-007	Shrimp, ocean	tail, peeled	10	10			P																					
192-010	Shrimp, pink	tail, peeled	50	50			P																					
192-011	Shrimp, pink (northern)	tail, peeled	61	60			P																					
192-003	Shrimp, royal red	tail, peeled	12	12		P																						
192-004	Shrimp, white	tail, peeled	77	73			P																					

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.5. Distribution of Mean Copper Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Copper Content, ppm[2]																					
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 110.0
	Finfish																											
078-005	Alewife	muscle	43	43								M																
		whole	4	4									W															
001-016	Anchovy, northern	whole	40	40											W													
001-006	Anchovy, striped	h & g	39	39					H																			
002-002	Argentine, Atlantic	h & g	7	7					H																			
062-014	Ballyhoo	whole	57	57						W																		
005-002	Barracuda, Atlantic	muscle	7	7					M																			
005-001	Barracuda, Pacific	muscle	20	20					M																			
006-006	Bass, black sea	muscle	54	52		M																						
		liver	2	2														L										
007-004	Bass, striped	muscle	116	116			M																					
		liver	3	3														L										
012-001	Bluefish	muscle	73	73					M																			
		liver	4	4														L										
091-011	Bonito, Atlantic	muscle	15	15											M													
091-009	Bonito, Pacific	muscle	39	38									M															
		liver	1	1														L										
021-007	Bullhead, brown	muscle	4	4							M																	
018-014	Butterfish	muscle	71	71						M																		
		whole	17	17					W																			
		h & g	1	1									H															
021-010	Catfish, channel	muscle	20	20				M																				
023-002	Catfish, gafftopsail	muscle	34	34				M																				
		liver	3	3											L													
023-001	Catfish, sea	muscle	47	47				M																				
		liver	6	6														L										
021-002	Catfish, white	muscle	1	1					M																			
033-008	Cod, Atlantic	muscle	112	112			M																					
		liver	35	35														L										
033-007	Cod, Pacific (gray)	muscle	59	58			M																					
		liver	16	15													L											
045-026	Croaker, Atlantic	muscle	92	92					M																			
033-004	Cusk	muscle	74	74		M																						
		liver	16	16											L													
037-004	Cusk-eel, fawn	muscle	2	2									M															
145-018	Dogfish, smooth	muscle	94	94				M																				
141-007	Dogfish, spiny	muscle	114	114				M																				
		liver	28	28											L													
041-002	Dolphin	muscle	63	63					M																			
		liver	28	28																	L							
045-019	Drum, banded	muscle	5	5				M																				
045-028	Drum, black	muscle	61	60			M																					
		liver	2	2																			L					
045-030	Drum, red	muscle	72	71			M																					
		liver	3	2																			L					
051-001	Eel, American	muscle	30	30			M																					
047-002	Eel, conger	muscle	1	1			M																					
153-009	Eulachon	whole	33	33										W														
058-028	Flounder, fourspot	muscle	71	71			M																					
058-024	Flounder, Gulf	muscle	40	40		M																						
		liver	1	1																			L					
058-027	Flounder, southern	muscle	41	41			M																					
		liver	2	2																				L				
058-026	Flounder, summer (fluke)	muscle	42	40			M																					
		liver	2	2																			L					
058-030	Flounder, windowpane (s.dab)	muscle	18	18				M																				
059-030	Flounder, winter	muscle	122	122			M																					
		liver	2	2																L								
059-005	Flounder, witch	muscle	71	71		M																						
059-016	Flounder, yellowtail	muscle	89	89				M																				
		liver	2	2												L												
006-040	Gag	muscle	29	29		M																						
066-009	Goatfish	muscle	40	40			M																					
068-001	Goosefish	muscle	81	81			M																					
		liver	9	9																	L							
		h & g	1	1							H																	
006-037	Grouper, black	muscle	33	33		M																						
006-017	Grouper, red	muscle	41	41			M																					
006-038	Grouper, yellowmouth	muscle	10	10		M																						
		liver	1	1																			L					
073-015	Grunt, bluestriped (yellow)	muscle	16	16			M																					

Table 4.5. Distribution of Mean Copper Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 110.0
					Ranges of Mean Copper Content, ppm[2]																							
	Finfish																											
073-014	Grunt, white	muscle	17	17			M																					
033-011	Haddock	muscle	77	77			M																					
		liver	18	18														L										
		whole	1	1							W																	
033-013	Hake, Pacific	muscle	49	49			M																					
		liver	1	1																	L							
033-020	Hake, red	muscle	64	63			M																					
033-012	Hake, silver (whiting)	muscle	83	83				M																				
		liver	3	3														L										
033-024	Hake, spotted	muscle	64	64				M																				
033-025	Hake, white	muscle	70	70			M																					
		liver	30	30																L								
059-011	Halibut, Pacific	muscle	37	36			M																					
		liver	15	15													L											
143-001	Hammerhead, scalloped	muscle	12	12						M																		
143-005	Hammerhead, smooth	muscle	9	8					M																			
		liver	7	7												L												
018-011	Harvestfish	muscle	3	3			M																					
		whole	16	16					W																			
078-011	Herring, Atlantic	muscle	24	24									M															
		whole	63	63											W													
		headed	6	6											E													
		h & g	2	2											H													
078-001	Herring, blueback	whole	1	1									W															
078-012	Herring, Pacific	muscle	14	14								M																
		whole	30	30											W													
078-015	Herring, round	h & g	50	50											H													
006-013	Hind, speckled	muscle	19	19				M																				
		liver	7	7																	L							
079-068	Jack, (mackerel scad)	muscle	39	39											M													
079-053	Jack, akule	muscle	38	38											M													
079-005	Jack, crevalle	muscle	48	48									M															
		liver	4	4																		L						
079-069	Jack, crevalle (Hawaii)	muscle	40	40				M																				
149-004	Jacksmelt	whole	20	20							W																	
006-016	Jewfish	muscle	8	8		M																						
045-024	Kingfish, northern	muscle	6	6			M																					
045-021	Kingfish, southern	muscle	13	13				M																				
		liver	1	1												L												
200-002	Ladyfish	muscle	2	2																								
071-005	Lingcod	muscle	76	74							M																	
		liver	13	13			M																					
091-013	Mackerel, Atlantic	muscle	80	80																			L					
091-012	Mackerel, chub	muscle	29	29								M																
079-034	Mackerel, jack	muscle	10	10								M																
		liver	1	1					M																			
		headed	4	4												L												
091-014	Mackerel, king	muscle	107	107							E																	
		liver	10	10			M																					
		milt	1	1																		L						
		roe	11	11															Q									
091-016	Mackerel, Spanish	muscle	107	105											R													
		liver	4	4				M																				
144-003	Mako, shortfin	muscle	3	3													L											
		liver	2	2				M																				
011-002	Marlin, blue	muscle	33	33			M																					
		liver	11	11																				L				
011-005	Marlin, striped	muscle	38	37				M																				
		liver	8	8																	L							
011-003	Marlin, white	muscle	53	53			M																					
		liver	10	10																				L				
162-012	Mempachi	muscle	20	20			M																					
		liver	1	1																					L			
078-010	Menhaden, Atlantic	muscle	10	10											M													
		whole	100	99											W													
078-008	Menhaden, Gulf	muscle	49	49									M															
		whole	28	28								W																
		gutted	9	9								G																
078-009	Menhaden, yellowfin	whole	13	13								W																
206-001	Milkfish	muscle	40	40				M																				

Table 4.5. Distribution of Mean Copper Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Copper Content, ppm[2]																						
					<0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 110.0
	Finfish																										
094-010	Mojarra, yellowfin	muscle	10	9			M																				
098-003	Mullet, silver (white)	muscle	36	36					M																		
098-002	Mullet, striped	muscle	157	157					M																		
		liver	5	5																							L
079-030	Palometa	muscle	2	2			M																				
131-023	Perch, ocean (Pacific)	muscle	30	30			M																				
		liver	18	18												L											
131-052	Perch, ocean (redfish)	muscle	79	79			M																				
		liver	2	2													L										
006-010	Perch, sand	muscle	1	1		M																					
168-005	Perch, shiner	whole	2	2								W															
045-003	Perch, silver	muscle	20	20				M																			
007-001	Perch, white	muscle	27	27							M																
		h & g	19	19											H												
079-029	Permit	muscle	9	9				M																			
073-017	Pigfish	muscle	34	34				M																			
114-013	Pinfish, spottail	muscle	10	10					M																		
		liver	1	1													L										
059-008	Plaice, American (dab)	muscle	67	67			M																				
		whole	1	1					W																		
033-017	Pollock	muscle	73	73					M																		
		liver	33	33														L									
033-019	Pollock, walleye (Alaska)	muscle	48	48					M																		
		liver	3	3												L											
079-028	Pompano, Florida	muscle	58	58				M																			
		liver	4	4																			L				
114-014	Porgy, red	muscle	22	22			M																				
		liver	1	1															L								
056-018	Pout, ocean	muscle	34	34				M																			
		liver	3	3													L										
131-061	Rockfish, bocaccio	muscle	48	47			M																				
		liver	4	4												L											
131-063	Rockfish, canary	muscle	44	44				M																			
		liver	1	1											L												
131-031	Rockfish, copper	muscle	10	9			M																				
131-043	Rockfish, yellowtail	muscle	20	20			M																				
079-004	Runner, blue	muscle	55	55									M														
		liver	4	4												L											
126-001	Sablefish	muscle	103	100			M																				
		liver	14	14													L										
011-001	Sailfish	muscle	42	42					M																		
		liver	3	3															L								
179-020	Salmon, chinook, (king)	muscle	110	108					M																		
		liver	22	22																			L				
179-017	Salmon, chum (keta)	muscle	57	57						M																	
		liver	5	5																						L	
179-018	Salmon, coho (silver)	muscle	67	67						M																	
		liver	7	7																			L				
179-016	Salmon, pink	muscle	27	27								M															
		liver	3	3																				L			
179-019	Salmon, sockeye (red)	muscle	60	60						M																	
		liver	4	4																							L
079-013	Scad, round	h & g	3	3										H													
006-041	Scamp	muscle	10	10		M																					
		liver	1	1																			L				
132-031	Sculpin, longhorn	muscle	1	1			M																				
114-016	Scup	muscle	70	70						M																	
135-010	Searobin, northern	muscle	78	78					M																		
135-011	Searobin, striped	muscle	9	9						M																	
045-012	Seatrout, gray (weakfish)	muscle	72	72				M																			
		liver	3	3														L									
		whole	10	10					W																		
045-007	Seatrout, sand	muscle	18	18				M																			
045-010	Seatrout, silver (white)	muscle	44	44			M																				
		liver	1	1																			L				
045-008	Seatrout, spotted (speckled)	muscle	88	85			M																				
		liver	3	3															L								
078-006	Shad, American	muscle	60	60							M																
145-025	Shark, Atlantic, sharpnose	muscle	1	1											M												
145-006	Shark, blacktip	muscle	15	15				M																			
		liver	4	4											L												

Table 4.5. Distribution of Mean Copper Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 110.0
	Ranges of Mean Copper Content, ppm[2]																											
	Finfish																											
145-023	Shark, blue	muscle	13	13					M																			
		liver	9	9											L													
145-010	Shark, dusky	muscle	4	4				M																				
145-009	Shark, sandbar	muscle	13	13					M																			
		liver	7	7											L													
144-001	Shark, white	muscle	2	2								M																
114-001	Sheepshead	muscle	60	60				M																				
		liver	2	2																					L			
150-005	Skate, little	muscle	52	52					M																			
		liver	2	2												L												
150-012	Skate, winter	muscle	2	2			M																					
		liver	1	1															L									
155-005	Snapper, blackfin	muscle	13	13			M																					
155-025	Snapper, gray	muscle	40	40			M																					
155-008	Snapper, gray (mangrove)	muscle	28	28				M																				
155-006	Snapper, red	muscle	38	36			M																					
155-024	Snapper, red (ehu)	muscle	40	40				M																				
155-015	Snapper, vermilion	muscle	36	36			M																					
		liver	2	2															L									
155-013	Snapper, yellowtail	muscle	43	43			M																					
157-004	Snook	muscle	12	12		M																						
059-021	Sole, Dover	muscle	70	68		M																						
		liver	4	4											L													
059-022	Sole, English	muscle	73	71			M																					
		liver	5	5													L											
059-004	Sole, petrale	muscle	57	57			M																					
		liver	7	7														L										
059-006	Sole, rex	muscle	61	59		M																						
059-014	Sole, rock	muscle	10	10			M																					
011-004	Spearfish, shortbill	muscle	14	14					M																			
		liver	4	4														L										
045-020	Spot	muscle	54	54					M																			
166-003	Sturgeon, green	muscle	10	10					M																			
168-001	Surfperch, barred	muscle	20	20				M																				
200-003	Tarpon	muscle	12	12			M																					
		liver	2	2																								L
185-022	Tautog	muscle	13	13			M																					
174-003	Tilefish	muscle	60	60			M																					
179-028	Trout, cutthroat	muscle	3	3						M																		
179-029	Trout, rainbow (steelhead)	muscle	9	9				M																				
		liver	1	1																						L		
091-019	Tuna, albacore	muscle	40	40				M																				
		liver	5	5															L									
091-022	Tuna, bigeye	muscle	40	39				M																				
		liver	21	21																			L					
091-021	Tuna, blackfin	muscle	1	1											M													
091-023	Tuna, bluefin	muscle	11	11										M														
		liver	1	1																	L							
091-008	Tuna, skipjack	muscle	69	69									M															
		liver	8	8															L									
091-020	Tuna, yellowfin	muscle	80	80							M																	
		liver	26	26																			L					
091-006	Tunny, little	muscle	50	50								M																
		liver	2	2														L										
091-001	Wahoo	muscle	18	17				M																				
		liver	3	3																				L				
183-002	Wolffish, Atlantic	muscle	58	58			M																					
		liver	14	14																			L					
079-023	Yellowtail	muscle	24	24						M																		
	Mollusca																											
187-005	Abalone, green	shucked	10	10												S												
187-008	Abalone, red	shucked	10	10								S																
191-003	Clam, butter	shucked	27	27											S													
191-001	Clam, hard (quahog)	shucked	140	140												S												
191-008	Clam, Pacific littleneck	shucked	1	1													S											
243-002	Clam, razor	shucked	39	39								S																
242-001	Clam, soft	shucked	19	19														S										
244-005	Clam, surf	shucked	23	23							S																	
205-001	Octopus (marmuratus)	whole	4	4																			W					
		mantle	36	36																		N						

Table 4.5. Distribution of Mean Copper Levels in the Resource Survey; by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 110.0
					Ranges of Mean Copper Content, ppm[2]																							
	Mollusca																											
189-001	Oyster, eastern	shucked	151	151																						S		
189-002	Oyster, Pacific (giant)	shucked	70	70																				S				
190-014	Scallop, Atlantic bay	adductor muscle	20	20				A																				
190-016	Scallop, calico	shucked	10	10															S									
		adductor muscle	20	20			A																					
190-028	Scallop, pink	adductor muscle	5	5			A																					
190-013	Scallop, sea (smooth)	adductor muscle	11	11			A																					
188-003	Squid, Atlantic longfinned	whole	22	22																					W			
		mantle	110	110															N									
188-006	Squid, Pacific	whole	50	50																				W				
188-014	Squid, shortfinned	mantle	92	92															N									
	Crustacea																											
196-001	Crab, blue	body meat	35	35																B								
		claw meat	5	5																		C						
		claw & body meat	54	54																D								
196-011	Crab, dungeness	meat, unk.	42	42															U									
		claw & body meat	8	8																				D				
196-012	Crab, king	meat, unk.	19	19																				U				
		claw & body meat	9	9																D								
196-006	Crab, red, deep sea	meat, unk.	25	25																U								
196-003	Crab, rock	meat, unk.	15	15																	U							
196-035	Crab, tanner (bairdi)	meat, unk.	50	50														U										
194-012	Lobster, northern (American)	body meat	2	2																				B				
		claw meat	2	2																					C			
		tail meat	2	2																T								
		leg meat	2	2																				F				
		claw & tail meat	79	79																				K				
194-002	Lobster, spiny (Atlantic)	tail meat	40	40													T											
194-003	Lobster, spiny (Pacific)	tail meat	5	5																			T					
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17															P									
192-005	Shrimp, brown	tail, peeled	53	53													P											
192-007	Shrimp, ocean	tail, peeled	10	10											P													
192-010	Shrimp, pink	tail, peeled	50	50												P												
192-011	Shrimp, pink (northern)	tail, peeled	63	63												P												
192-003	Shrimp, royal red	tail, peeled	12	12													P											
192-004	Shrimp, white	tail, peeled	74	74												P												

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.6. Distribution of Mean Lead Levels in the Resource Survey, by Species.

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Lead Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	43						M																		
		whole	4	4										W														
001-016	Anchovy, northern	whole	40	40											W													
001-006	Anchovy, striped	h & g	40	40									H															
002-002	Argentine, Atlantic	h & g	7	7						H																		
062-014	Ballyhoo	whole	58	58											W													
005-002	Barracuda, Atlantic	muscle	7	7												M												
005-001	Barracuda, Pacific	muscle	20	20							M																	
006-006	Bass, black sea	muscle	55	52					M																			
		liver	2	2												L												
007-004	Bass, striped	muscle	116	114					M																			
		liver	3	3						L																		
012-001	Bluefish	muscle	72	71						M																		
		liver	4	4						L																		
091-011	Bonito, Atlantic	muscle	15	15				M																				
091-009	Bonito, Pacific	muscle	40	40						M																		
		liver	1	1						L																		
021-007	Bullhead, brown	muscle	4	4							M																	
018-014	Butterfish	muscle	70	69					M																			
		whole	17	17								W																
		h & g	1	1									H															
021-010	Catfish, channel	muscle	20	20				M																				
023-002	Catfish, gafftopsail	muscle	33	33				M																				
		liver	3	3					L																			
023-001	Catfish, sea	muscle	46	44					M																			
		liver	6	6											L													
021-002	Catfish, white	muscle	1	1				M																				
033-008	Cod, Atlantic	muscle	113	112					M																			
		liver	35	35					L																			
033-007	Cod, Pacific (gray)	muscle	59	57				M																				
		liver	16	15				L																				
045-026	Croaker, Atlantic	muscle	90	88						M																		
033-004	Cusk	muscle	73	73					M																			
		liver	18	17				L																				
037-004	Cusk-eel, fawn	muscle	2	2											M													
145-018	Dogfish, smooth	muscle	95	95										M														
141-007	Dogfish, spiny	muscle	113	110					M																			
		liver	29	29				L																				
041-002	Dolphin	muscle	63	62					M																			
		liver	27	27						L																		
045-019	Drum, banded	muscle	5	5						M																		
045-028	Drum, black	muscle	59	58						M																		
		liver	2	2					L																			
045-030	Drum, red	muscle	72	70					M																			
		liver	3	3						L																		
051-001	Eel, American	muscle	29	28					M																			
047-002	Eel, conger	muscle	1	1			M																					
153-009	Eulachon	whole	33	33								W																
058-028	Flounder, fourspot	muscle	68	68				M																				
058-024	Flounder, Gulf	muscle	41	40					M																			
		liver	1	1	L																							
058-027	Flounder, southern	muscle	41	41					M																			
		liver	2	2				L																				
058-026	Flounder, summer (fluke)	muscle	41	38					M																			
		liver	1	1						L																		
058-030	Flounder, windowpane (s.dab)	muscle	18	17						M																		
059-030	Flounder, winter	muscle	123	123				M																				
		liver	2	2										L														
059-005	Flounder, witch	muscle	71	71				M																				
059-016	Flounder, yellowtail	muscle	88	88					M																			
		liver	2	2										L														
006-040	Gag	muscle	30	30					M																			
066-009	Goatfish	muscle	39	39					M																			
068-001	Goosefish	muscle	79	79				M																				
		liver	10	10					L																			
		h & g	1	1				H																				
006-037	Grouper, black	muscle	34	33					M																			
006-017	Grouper, red	muscle	41	41				M																				
006-038	Grouper, yellowmouth	muscle	10	10						M																		
		liver	1	1	L																							
073-015	Grunt, bluestriped (yellow)	muscle	15	15						M																		

Table 4.6. Distribution of Mean Lead Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Lead Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
073-014	Grunt, white	muscle	17	17						M																		
033-011	Haddock	muscle	76	76				M																				
		liver	18	18					L																			
		whole	1	1				W																				
033-013	Hake, Pacific	muscle	49	48						M																		
		liver	1	1								L																
033-020	Hake, red	muscle	65	65					M																			
033-012	Hake, silver (whiting)	muscle	82	81					M																			
		liver	3	3						L																		
033-024	Hake, spotted	muscle	64	64				M																				
033-025	Hake, white	muscle	69	69				M																				
		liver	31	30			L																					
059-011	Halibut, Pacific	muscle	37	35					M																			
		liver	16	16						L																		
143-001	Hammerhead, scalloped	muscle	12	12											M													
143-005	Hammerhead, smooth	muscle	10	10							M																	
		liver	7	7						L																		
018-011	Harvestfish	muscle	3	3			M																					
		whole	15	15									W															
078-011	Herring, Atlantic	muscle	24	24						M																		
		whole	63	63											W													
		headed	6	6									E															
		h & g	2	2											H													
078-001	Herring, blueback	whole	1	1						W																		
078-012	Herring, Pacific	muscle	14	14					M																			
		whole	30	30											W													
078-015	Herring, round	h & g	48	48									H															
006-013	Hind, speckled	muscle	20	20					M																			
		liver	6	6				L																				
079-068	Jack, (mackerel scad)	muscle	40	39							M																	
079-053	Jack, akule	muscle	38	37					M																			
079-005	Jack, crevalle	muscle	49	48					M																			
		liver	4	4											L													
079-069	Jack, crevalle (Hawaii)	muscle	38	38				M																				
149-004	Jacksmelt	whole	20	20											W													
006-016	Jewfish	muscle	8	8					M																			
045-024	Kingfish, northern	muscle	6	6				M																				
045-021	Kingfish, southern	muscle	14	14						M																		
		liver	1	1		L																						
200-002	Ladyfish	muscle	2	2				M																				
071-005	Lingcod	muscle	78	76					M																			
		liver	13	13							L																	
091-013	Mackerel, Atlantic	muscle	76	76					M																			
091-012	Mackerel, chub	muscle	30	30							M																	
079-034	Mackerel, jack	muscle	9	9					M																			
		liver	1	1						L																		
		headed	4	4										E														
091-014	Mackerel, king	muscle	107	105					M																			
		liver	10	10						L																		
		milt	1	1				Q																				
		roe	11	11			R																					
091-016	Mackerel, Spanish	muscle	108	103					M																			
		liver	4	4				L																				
144-003	Mako, shortfin	muscle	3	3							M																	
		liver	2	2			L																					
011-002	Marlin, blue	muscle	33	30				M																				
		liver	11	11							L																	
011-005	Marlin, striped	muscle	39	37								M																
		liver	9	7										L														
011-003	Marlin, white	muscle	53	53					M																			
		liver	10	10							L																	
162-012	Mempachi	muscle	20	17					M																			
		liver	1	1				L																				
078-010	Menhaden, Atlantic	muscle	10	10						M																		
		whole	100	100											W													
078-008	Menhaden, Gulf	muscle	49	49							M																	
		whole	28	28												W												
		gutted	9	9												G												
078-009	Menhaden, yellowfin	whole	13	13											W													
206-001	Milkfish	muscle	40	39					M																			

Table 4.6. Distribution of Mean Lead Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Lead Content, ppm[2]																									
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																													
094-010	Mojarra, yellowfin	muscle	10	10							M																			
098-003	Mullet, silver (white)	muscle	36	36					M																					
098-002	Mullet, striped	muscle	155	151					M																					
		liver	5	5					L																					
079-030	Palometa	muscle	2	2				M																						
131-023	Perch, ocean (Pacific)	muscle	30	27					M																					
		liver	18	18				L																						
131-052	Perch, ocean (redfish)	muscle	79	79					M																					
		liver	2	2					L																					
006-010	Perch, sand	muscle	1	1		M																								
168-005	Perch, shiner	whole	2	2											W															
045-003	Perch, silver	muscle	20	20						M																				
007-001	Perch, white	muscle	27	27							M																			
		h & g	19	19											H															
079-029	Permit	muscle	9	9								M																		
073-017	Pigfish	muscle	33	33						M																				
114-013	Pinfish, spottail	muscle	10	10							M																			
		liver	1	1								L																		
059-008	Plaice, American (dab)	muscle	66	66				M																						
		whole	1	1											W															
033-017	Pollock	muscle	72	72					M																					
		liver	32	29			L																							
033-019	Pollock, walleye (Alaska)	muscle	48	48						M																				
		liver	3	3					L																					
079-028	Pompano, Florida	muscle	57	56				M																						
		liver	4	4					L																					
114-014	Porgy, red	muscle	22	22						M																				
		liver	1	1							L																			
056-018	Pout, ocean	muscle	34	34				M																						
		liver	3	3					L																					
131-061	Rockfish, bocaccio	muscle	48	46					M																					
		liver	4	4			L																							
131-063	Rockfish, canary	muscle	44	41						M																				
		liver	1	1											L															
131-031	Rockfish, copper	muscle	10	10						M																				
131-043	Rockfish, yellowtail	muscle	20	19				M																						
079-004	Runner, blue	muscle	54	54						M																				
		liver	4	4					L																					
126-001	Sablefish	muscle	103	99					M																					
		liver	14	14				L																						
011-001	Sailfish	muscle	41	41				M																						
		liver	3	3				L																						
179-020	Salmon, chinook, (king)	muscle	110	108					M																					
		liver	20	19						L																				
179-017	Salmon, chum (keta)	muscle	55	55					M																					
		liver	5	5			L																							
179-018	Salmon, coho (silver)	muscle	67	65					M																					
		liver	7	7					L																					
179-016	Salmon, pink	muscle	26	25				M																						
		liver	3	3			L																							
179-019	Salmon, sockeye (red)	muscle	58	57					M																					
		liver	4	4		L																								
079-013	Scad, round	h & g	3	3											H															
006-041	Scamp	muscle	10	10				M																						
		liver	1	1							L																			
132-031	Sculpin, longhorn	muscle	1	1			M																							
114-016	Scup	muscle	71	70							M																			
135-010	Searobin, northern	muscle	76	76						M																				
135-011	Searobin, striped	muscle	10	10							M																			
045-012	Seatrout, gray (weakfish)	muscle	70	69					M																					
		liver	3	3					L																					
		whole	10	10											W															
045-007	Seatrout, sand	muscle	18	18					M																					
045-010	Seatrout, silver (white)	muscle	38	38				M																						
		liver	1	1											L															
045-008	Seatrout, spotted (speckled)	muscle	88	80					M																					
		liver	3	3				L																						
078-006	Shad, American	muscle	60	60					M																					
145-025	Shark, Atlantic, sharpnose	muscle	1	1							M																			
145-006	Shark, blacktip	muscle	16	16							M																			
		liver	4	4				L																						

Table 4.6. Distribution of Mean Lead Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Lead Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	14						M																		
		liver	9	9				L																				
145-010	Shark, dusky	muscle	4	4								M																
145-009	Shark, sandbar	muscle	13	13											M													
		liver	7	6							L																	
144-001	Shark, white	muscle	2	2			M																					
114-001	Sheepshead	muscle	55	55					M																			
		liver	2	2							L																	
150-005	Skate, little	muscle	54	54							M																	
		liver	2	2										L														
150-012	Skate, winter	muscle	2	2										M														
		liver	1	1							L																	
155-005	Snapper, blackfin	muscle	12	12					M																			
155-025	Snapper, gray	muscle	39	39						M																		
155-008	Snapper, gray (mangrove)	muscle	28	27						M																		
155-006	Snapper, red	muscle	35	34					M																			
155-024	Snapper, red (ehu)	muscle	39	39					M																			
155-015	Snapper, vermilion	muscle	36	35					M																			
		liver	2	2						L																		
155-013	Snapper, yellowtail	muscle	41	41				M																				
157-004	Snook	muscle	12	12				M																				
059-021	Sole, Dover	muscle	69	66						M																		
		liver	4	4						L																		
059-022	Sole, English	muscle	73	71						M																		
		liver	5	5									L															
059-004	Sole, petrale	muscle	57	56						M																		
		liver	7	7					L																			
059-006	Sole, rex	muscle	61	60					M																			
059-014	Sole, rock	muscle	10	10					M																			
011-004	Spearfish, shortbill	muscle	14	14						M																		
		liver	4	4					L																			
045-020	Spot	muscle	54	53						M																		
166-003	Sturgeon, green	muscle	10	8				M																				
168-001	Surfperch, barred	muscle	20	20								M																
200-003	Tarpon	muscle	12	12						M																		
		liver	2	2							L																	
185-022	Tautog	muscle	14	14						M																		
174-003	Tilefish	muscle	60	60					M																			
179-028	Trout, cutthroat	muscle	3	3				M																				
179-029	Trout, rainbow (steelhead)	muscle	9	9						M																		
		liver	1	1			L																					
091-019	Tuna, albacore	muscle	36	35					M																			
		liver	5	4										L														
091-022	Tuna, bigeye	muscle	40	40					M																			
		liver	21	21						L																		
091-021	Tuna, blackfin	muscle	1	1				M																				
091-023	Tuna, bluefin	muscle	11	10						M																		
		liver	1	0	L																							
091-008	Tuna, skipjack	muscle	70	68						M																		
		liver	8	8							L																	
091-020	Tuna, yellowfin	muscle	80	77							M																	
		liver	26	25						L																		
091-006	Tunny, little	muscle	50	50					M																			
		liver	2	2								L																
091-001	Wahoo	muscle	18	17					M																			
		liver	3	3			L																					
183-002	Wolffish, Atlantic	muscle	57	57				M																				
		liver	15	15					L																			
079-023	Yellowtail	muscle	21	20						M																		
	Mollusca																											
187-005	Abalone, green	shucked	10	10									S															
187-008	Abalone, red	shucked	10	9						S																		
191-003	Clam, butter	shucked	29	28							S																	
191-001	Clam, hard (quahog)	shucked	140	139								S																
191-008	Clam, Pacific littleneck	shucked	1	1			S																					
243-002	Clam, razor	shucked	38	38						S																		
242-001	Clam, soft	shucked	19	19						S																		
244-005	Clam, surf	shucked	22	22						S																		
205-001	Octopus (marmuratus)	whole	4	4							W																	
		mantle	35	35							N																	

Table 4.6. Distribution of Mean Lead Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue1/	Total # Samples	# samples in mean	Ranges of Mean Lead Content, ppm2/																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																										
189-001	Oyster, eastern	shucked	151	149							S																
189-002	Oyster, Pacific (giant)	shucked	70	64							S																
190-014	Scallop, Atlantic bay	adductor muscle	20	20					A																		
190-016	Scallop, calico	shucked	10	10										S													
		adductor muscle	19	18					A																		
190-028	Scallop, pink	adductor muscle	5	5			A																				
190-013	Scallop, sea (smooth)	adductor muscle	11	11					A																		
188-003	Squid, Atlantic longfinned	whole	22	22						W																	
		mantle	107	107						N																	
188-006	Squid, Pacific	whole	50	49							W																
188-014	Squid, shortfinned	mantle	91	91							N																
	Crustacea																										
196-001	Crab, blue	body meat	35	35								B															
		claw meat	5	5									C														
		claw & body meat	54	54							K																
196-011	Crab, dungeness	meat, unk.	41	40							U																
		claw & body meat	8	8								D															
196-012	Crab, king	meat, unk.	20	20								U															
		claw & body meat	8	8					D																		
196-006	Crab, red, deep sea	meat, unk.	24	24						U																	
196-003	Crab, rock	meat, unk.	15	15									U														
196-035	Crab, tanner (bairdi)	meat, unk.	41	41					U																		
194-012	Lobster, northern (American)	body meat	2	2					B																		
		claw meat	2	2							C																
		tail meat	2	2						T																	
		leg meat	2	2										F													
		claw & tail meat	80	80						K																	
194-002	Lobster, spiny (Atlantic)	tail meat	40	40							T																
194-003	Lobster, spiny (Pacific)	tail meat	5	5						T																	
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17							P																
192-005	Shrimp, brown	tail, peeled	53	52							P																
192-007	Shrimp, ocean	tail, peeled	10	10							P																
192-010	Shrimp, pink	tail, peeled	49	49							P																
192-011	Shrimp, pink (northern)	tail, peeled	64	64						P																	
192-003	Shrimp, royal red	tail, peeled	12	12							P																
192-004	Shrimp, white	tail, peeled	77	73							P																

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.7. Distribution of Mean Manganese Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Manganese Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
078-005	Alewife	muscle	42	42				M																			
		whole	4	4											W												
001-016	Anchovy, northern	whole	40	40												W											
001-006	Anchovy, striped	h & g	40	40											H												
002-002	Argentine, Atlantic	h & g	7	7				H																			
062-014	Ballyhoo	whole	57	57								W															
005-002	Barracuda, Atlantic	muscle	7	7		M																					
005-001	Barracuda, Pacific	muscle	20	20		M																					
006-006	Bass, black sea	muscle	55	53		M																					
		liver	2	2											L												
007-004	Bass, striped	muscle	112	110		M																					
		liver	3	3											L												
012-001	Bluefish	muscle	73	73		M																					
		liver	4	4										L													
091-011	Bonito, Atlantic	muscle	15	15		M																					
091-009	Bonito, Pacific	muscle	40	40		M																					
		liver	1	1								L															
021-007	Bullhead, brown	muscle	4	4						M																	
018-014	Butterfish	muscle	71	71		M																					
		whole	17	17											W												
		h & g	1	1											H												
021-010	Catfish, channel	muscle	20	20		M																					
023-002	Catfish, gafftopsail	muscle	34	33		M																					
		liver	3	3							L																
023-001	Catfish, sea	muscle	47	47			M																				
		liver	6	6											L												
021-002	Catfish, white	muscle	1	1			M																				
033-008	Cod, Atlantic	muscle	113	113		M																					
		liver	35	35							L																
033-007	Cod, Pacific (gray)	muscle	58	54		M																					
		liver	15	15											L												
045-026	Croaker, Atlantic	muscle	92	91			M																				
033-004	Cusk	muscle	76	76		M																					
		liver	18	18							L																
037-004	Cusk-eel, fawn	muscle	2	2											M												
145-018	Dogfish, smooth	muscle	95	95		M																					
141-007	Dogfish, spiny	muscle	115	114		M																					
		liver	29	29				L																			
041-002	Dolphin	muscle	63	62		M																					
		liver	28	28										L													
045-019	Drum, banded	muscle	5	5			M																				
045-028	Drum, black	muscle	61	59		M																					
		liver	2	2										L													
045-030	Drum, red	muscle	73	73		M																					
		liver	3	3									L														
051-001	Eel, American	muscle	30	30				M																			
047-002	Eel, conger	muscle	1	1			M																				
153-009	Eulachon	whole	33	33						W																	
058-028	Flounder, fourspot	muscle	71	71			M																				
058-024	Flounder, Gulf	muscle	40	40			M																				
		liver	1	1											L												
058-027	Flounder, southern	muscle	42	42			M																				
		liver	2	2									L														
058-026	Flounder, summer (fluke)	muscle	42	42			M																				
		liver	2	2									L														
058-030	Flounder, windowpane (s.dab)	muscle	18	18			M																				
059-030	Flounder, winter	muscle	123	123		M																					
		liver	2	2									L														
059-005	Flounder, witch	muscle	70	70		M																					
059-016	Flounder, yellowtail	muscle	89	89		M																					
		liver	2	2											L												
006-040	Gag	muscle	30	28	M																						
066-009	Goatfish	muscle	40	40		M																					
068-001	Goosefish	muscle	79	78		M																					
		liver	10	10				L																			
		h & g	1	1	H																						
006-037	Grouper, black	muscle	34	33	M																						
006-017	Grouper, red	muscle	41	40	M																						
006-038	Grouper, yellowmouth	muscle	10	10	M																						
		liver	1	1											L												
073-015	Grunt, bluestriped (yellow)	muscle	16	16		M																					

Table 4.7. Distribution of Mean Manganese Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Manganese Content, ppm[2]																									
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																													
073-014	Grunt, white	muscle	17	17		M																								
033-011	Haddock	muscle	77	77			M																							
		liver	18	18											L															
		whole	1	1					W																					
033-013	Hake, Pacific	muscle	49	48			M																							
		liver	1	1											L															
033-020	Hake, red	muscle	65	65		M																								
033-012	Hake, silver (whiting)	muscle	83	82		M																								
		liver	3	3											L															
033-024	Hake, spotted	muscle	65	65			M																							
033-025	Hake, white	muscle	70	70		M																								
		liver	31	31							L																			
059-011	Halibut, Pacific	muscle	37	36		M																								
		liver	16	16							L																			
143-001	Hammerhead, scalloped	muscle	12	12		M																								
143-005	Hammerhead, smooth	muscle	10	10		M																								
		liver	7	7											L															
018-011	Harvestfish	muscle	3	3		M																								
		whole	16	16											W															
078-011	Herring, Atlantic	muscle	24	24				M																						
		whole	63	63											W															
		headed	6	6									E																	
		h & g	2	2								H																		
078-001	Herring, blueback	whole	1	1						W																				
078-012	Herring, Pacific	muscle	14	14					M																					
		whole	30	30											W															
078-015	Herring, round	h & g	50	50									H																	
006-013	Hind, speckled	muscle	19	19	M																									
		liver	7	7					L																					
079-068	Jack, (mackerel scad)	muscle	40	40		M																								
079-053	Jack, akule	muscle	39	39		M																								
079-005	Jack, crevalle	muscle	48	48		M																								
		liver	4	4											L															
079-069	Jack, crevalle (Hawaii)	muscle	40	40		M																								
149-004	Jacksmelt	whole	20	20							W																			
006-016	Jewfish	muscle	8	8	M																									
045-024	Kingfish, northern	muscle	6	6			M																							
045-021	Kingfish, southern	muscle	14	14		M																								
		liver	1	1											L															
200-002	Ladyfish	muscle	2	2			M																							
071-005	Lingcod	muscle	78	77		M																								
		liver	13	13						L																				
091-013	Mackerel, Atlantic	muscle	80	80		M																								
091-012	Mackerel, chub	muscle	29	28		M																								
079-034	Mackerel, jack	muscle	10	10		M																								
		liver	1	1											L															
		headed	4	4		E																								
091-014	Mackerel, king	muscle	107	105	M																									
		liver	10	10										L																
		milt	1	1		Q																								
		roe	11	11						R																				
091-016	Mackerel, Spanish	muscle	109	107		M																								
		liver	4	4							L																			
144-003	Mako, shortfin	muscle	3	3	M																									
		liver	2	2			L																							
011-002	Marlin, blue	muscle	32	30		M																								
		liver	11	11											L															
011-005	Marlin, striped	muscle	40	39		M																								
		liver	9	9											L															
011-003	Marlin, white	muscle	54	53		M																								
		liver	10	10								L																		
162-012	Mempachi	muscle	20	18		M																								
		liver	1	1							L																			
078-010	Menhaden, Atlantic	muscle	10	10								M																		
		whole	101	101															W											
078-008	Menhaden, Gulf	muscle	50	50							M																			
		whole	28	27																		W								
		gutted	9	9															G											
078-009	Menhaden, yellowfin	whole	13	13											W															
206-001	Milkfish	muscle	40	40		M																								

Table 4.7. Distribution of Mean Manganese Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Manganese Content, ppm[2]																					
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	10		M																						
098-003	Mullet, silver (white)	muscle	36	36		M																						
098-002	Mullet, striped	muscle	158	158			M																					
		liver	5	5									L															
079-030	Palometa	muscle	2	2		M																						
131-023	Perch, ocean (Pacific)	muscle	30	27		M																						
		liver	18	18							L																	
131-052	Perch, ocean (redfish)	muscle	80	80		M																						
		liver	2	2						L																		
006-010	Perch, sand	muscle	1	1		M																						
168-005	Perch, shiner	whole	2	2											W													
045-003	Perch, silver	muscle	20	20		M																						
007-001	Perch, white	muscle	27	27				M																				
		h & g	19	19												H												
079-029	Permit	muscle	9	8		M																						
073-017	Pigfish	muscle	33	33				M																				
114-013	Pinfish, spottail	muscle	9	9		M																						
		liver	1	1										L														
059-008	Plaice, American (dab)	muscle	68	68		M																						
		whole	1	1												W												
033-017	Pollock	muscle	73	73		M																						
		liver	33	33						L																		
033-019	Pollock, walleye (Alaska)	muscle	47	46		M																						
		liver	3	3									L															
079-028	Pompano, Florida	muscle	60	59	M																							
		liver	4	4								L																
114-014	Porgy, red	muscle	22	22		M																						
		liver	1	1											L													
056-018	Pout, ocean	muscle	34	34		M																						
		liver	3	3								L																
131-061	Rockfish, bocaccio	muscle	48	43		M																						
		liver	4	4						L																		
131-063	Rockfish, canary	muscle	43	40		M																						
		liver	1	1								L																
131-031	Rockfish, copper	muscle	10	10		M																						
131-043	Rockfish, yellowtail	muscle	20	20		M																						
079-004	Runner, blue	muscle	55	54		M																						
		liver	4	4							L																	
126-001	Sablefish	muscle	103	99		M																						
		liver	14	14								L																
011-001	Sailfish	muscle	42	42		M																						
		liver	3	3							L																	
179-020	Salmon, chinook, (king)	muscle	109	108		M																						
		liver	22	22							L																	
179-017	Salmon, chum (keta)	muscle	57	57		M																						
		liver	5	5								L																
179-018	Salmon, coho (silver)	muscle	68	68		M																						
		liver	7	7								L																
179-016	Salmon, pink	muscle	27	27		M																						
		liver	3	3						L																		
179-019	Salmon, sockeye (red)	muscle	62	62		M																						
		liver	4	4							L																	
079-013	Scad, round	h & g	3	3								H																
006-041	Scamp	muscle	10	10	M																							
		liver	1	1											L													
132-031	Sculpin, longhorn	muscle	1	1			M																					
114-016	Scup	muscle	71	71				M																				
135-010	Searobin, northern	muscle	78	78			M																					
135-011	Searobin, striped	muscle	10	10			M																					
045-012	Seatrout, gray (weakfish)	muscle	72	72		M																						
		liver	3	3										L														
		whole	10	10											W													
045-007	Seatrout, sand	muscle	18	18			M																					
045-010	Seatrout, silver (white)	muscle	43	39		M																						
		liver	1	1											L													
045-008	Seatrout, spotted (speckled)	muscle	89	86		M																						
		liver	3	3								L																
078-006	Shad, American	muscle	60	60				M																				
145-025	Shark, Atlantic, sharpnose	muscle	1	1	M																							
145-006	Shark, blacktip	muscle	16	16		M																						
		liver	4	4								L																

Table 4.7. Distribution of Mean Manganese Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Manganese Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	13	13		M																						
		liver	9	9									L															
145-010	Shark, dusky	muscle	4	4			M																					
145-009	Shark, sandbar	muscle	13	13	M																							
		liver	7	7						L																		
144-001	Shark, white	muscle	2	2	M																							
114-001	Sheepshead	muscle	60	60		M																						
		liver	2	2											L													
150-005	Skate, little	muscle	53	53								M																
		liver	2	2							L																	
150-012	Skate, winter	muscle	2	2											M													
		liver	1	1							L																	
155-005	Snapper, blackfin	muscle	13	13	M																							
155-025	Snapper, gray	muscle	40	40		M																						
155-008	Snapper, gray (mangrove)	muscle	28	28		M																						
155-006	Snapper, red	muscle	38	36		M																						
155-024	Snapper, red (ehu)	muscle	40	40																								
155-015	Snapper, vermilion	muscle	36	36	M																							
		liver	2	2									L															
155-013	Snapper, yellowtail	muscle	43	43	M																							
157-004	Snook	muscle	12	12	M																							
059-021	Sole, Dover	muscle	69	67		M																						
		liver	4	4											L													
059-022	Sole, English	muscle	73	73			M																					
		liver	5	5											L													
059-004	Sole, petrale	muscle	56	55		M																						
		liver	7	7								L																
059-006	Sole, rex	muscle	60	60		M																						
059-014	Sole, rock	muscle	10	9		M																						
011-004	Spearfish, shortbill	muscle	15	15		M																						
		liver	4	4											L													
045-020	Spot	muscle	54	53				M																				
166-003	Sturgeon, green	muscle	10	10			M																					
168-001	Surfperch, barred	muscle	20	20						M																		
200-003	Tarpon	muscle	12	12		M																						
		liver	2	2								L																
185-022	Tautog	muscle	14	14			M																					
174-003	Tilefish	muscle	60	60		M																						
179-028	Trout, cutthroat	muscle	3	3		M																						
179-029	Trout, rainbow (steelhead)	muscle	9	9		M																						
		liver	1	1									L															
091-019	Tuna, albacore	muscle	40	40		M																						
		liver	5	5								L																
091-022	Tuna, bigeye	muscle	40	40	M																							
		liver	21	21											L													
091-021	Tuna, blackfin	muscle	1	1		M																						
091-023	Tuna, bluefin	muscle	11	11		M																						
		liver	1	1											L													
091-008	Tuna, skipjack	muscle	70	69		M																						
		liver	8	8									L															
091-020	Tuna, yellowfin	muscle	79	78		M																						
		liver	26	26											L													
091-006	Tunny, little	muscle	50	50		M																						
		liver	2	2											L													
091-001	Wahoo	muscle	18	17		M																						
		liver	3	3							L																	
183-002	Wolffish, Atlantic	muscle	59	59		M																						
		liver	14	14									L															
079-023	Yellowtail	muscle	23	23		M																						
	Mollusca																											
187-005	Abalone, green	shucked	10	10						S																		
187-008	Abalone, red	shucked	10	10			S																					
191-003	Clam, butter	shucked	29	29											S													
191-001	Clam, hard (quahog)	shucked	141	141															S									
191-008	Clam, Pacific littleneck	shucked	1	1									S															
243-002	Clam, razor	shucked	39	39												S												
242-001	Clam, soft	shucked	19	19															S									
244-005	Clam, surf	shucked	23	23											S													
205-001	Octopus (marmuratus)	whole	4	4					W																			
		mantle	35	35			N																					

Table 4.7. Distribution of Mean Manganese Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue 1/	Total # Samples	# samples in mean	Ranges of Mean Manganese Content, ppm 2/																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																											
189-001	Oyster, eastern	shucked	150	150														S										
189-002	Oyster, Pacific (giant)	shucked	70	70																	S							
190-014	Scallop, Atlantic bay	adductor muscle	20	20												A												
190-016	Scallop, calico	shucked	10	10													S											
		adductor muscle	20	20				A																				
190-028	Scallop, pink	adductor muscle	5	5		A																						
190-013	Scallop, sea (smooth)	adductor muscle	11	11			A																					
188-003	Squid, Atlantic longfinned	whole	23	23				W																				
		mantle	110	110			N																					
188-006	Squid, Pacific	whole	50	50					W																			
188-014	Squid, shortfinned	mantle	92	92				N																				
	Crustacea																											
196-001	Crab, blue	body meat	34	34											B													
		claw meat	5	5										C														
		claw & body meat	54	54											D													
196-011	Crab, dungeness	meat, unk.	42	42							U																	
		claw & body meat	8	8											D													
196-012	Crab, king	meat, unk.	20	20				U																				
		claw & body meat	9	9				D																				
196-006	Crab, red, deep sea	meat, unk.	25	25					U																			
196-003	Crab, rock	meat, unk.	15	15											U													
196-035	Crab, tanner (bairdi)	meat, unk.	50	50				U																				
194-012	Lobster, northern (American)	body meat	2	2							B																	
		claw meat	2	2			C																					
		tail meat	2	2				T																				
		leg meat	2	2					F																			
		claw & tail meat	78	78						K																		
194-002	Lobster, spiny (Atlantic)	tail meat	40	40		T																						
194-003	Lobster, spiny (Pacific)	tail meat	5	5			T																					
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17				P																				
192-005	Shrimp, brown	tail, peeled	53	53							P																	
192-007	Shrimp, ocean	tail, peeled	10	10			P																					
192-010	Shrimp, pink	tail, peeled	50	50				P																				
192-011	Shrimp, pink (northern)	tail, peeled	64	64				P																				
192-003	Shrimp, royal red	tail, peeled	12	12				P																				
192-004	Shrimp, white	tail, peeled	76	76							P																	

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.8. Distribution of Mean Mercury Levels in the Resource Survey, by Species.

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Mercury Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	29	M																							
		whole	4	1		W																						
001-016	Anchovy, northern	whole	40	15	W																							
001-006	Anchovy, striped	h & g	40	40	H																							
002-002	Argentine, Atlantic	h & g	7	2	H																							
062-014	Ballyhoo	whole	58	6	W																							
005-002	Barracuda, Atlantic	muscle	7	7												M												
005-001	Barracuda, Pacific	muscle	20	20		M																						
006-006	Bass, black sea	muscle	53	52		M																						
		liver	2	2				L																				
007-004	Bass, striped	muscle	117	107						M																		
		liver	3	3										L														
012-001	Bluefish	muscle	73	72				M																				
		liver	4	4							L																	
091-011	Bonito, Atlantic	muscle	15	15											M													
091-009	Bonito, Pacific	muscle	39	35		M																						
		liver	1	1	L																							
021-007	Bullhead, brown	muscle	4	1	M																							
018-014	Butterfish	muscle	72	26	M																							
		whole	17	8	W																							
		h & g	1	1			H																					
021-010	Catfish, channel	muscle	20	20		M																						
023-002	Catfish, gafftopsail	muscle	34	34						M																		
		liver	3	3											L													
023-001	Catfish, sea	muscle	47	47				M																				
		liver	5	5											L													
021-002	Catfish, white	muscle	1	1		M																						
033-008	Cod, Atlantic	muscle	114	107		M																						
		liver	36	13	L																							
033-007	Cod, Pacific (gray)	muscle	58	58		M																						
		liver	16	7	L																							
045-026	Croaker, Atlantic	muscle	92	61	M																							
033-004	Cusk	muscle	75	75				M																				
		liver	18	12								L																
037-004	Cusk-eel, fawn	muscle	2	2	M																							
145-018	Dogfish, smooth	muscle	95	95											M													
141-007	Dogfish, spiny	muscle	115	115					M																			
		liver	28	13		L																						
041-002	Dolphin	muscle	63	59		M																						
		liver	28	14	L																							
045-019	Drum, banded	muscle	5	3	M																							
045-028	Drum, black	muscle	60	52		M																						
		liver	2	2	L																							
045-030	Drum, red	muscle	72	71		M																						
		liver	3	3		L																						
051-001	Eel, American	muscle	30	30			M																					
047-002	Eel, conger	muscle	1	1	M																							
153-009	Eulachon	whole	33	7	W																							
058-028	Flounder, fourspot	muscle	71	61		M																						
058-024	Flounder, Gulf	muscle	40	35		M																						
		liver	1	1	L																							
058-027	Flounder, southern	muscle	42	36	M																							
		liver	2	1	L																							
058-026	Flounder, summer (fluke)	muscle	42	36		M																						
		liver	2	1		L																						
058-030	Flounder, windowpane (s.dab)	muscle	18	16		M																						
059-030	Flounder, winter	muscle	123	83	M																							
		liver	2	1			L																					
059-005	Flounder, witch	muscle	71	57		M																						
059-016	Flounder, yellowtail	muscle	88	71	M																							
		liver	2	0	L																							
006-040	Gag	muscle	30	30						M																		
066-009	Goatfish	muscle	40	28	M																							
068-001	Goosefish	muscle	81	77		M																						
		liver	10	5	L																							
		h & g	1	1			H																					
006-037	Grouper, black	muscle	33	33								M																
006-017	Grouper, red	muscle	41	41				M																				
006-038	Grouper, yellowmouth	muscle	9	9			M																					
		liver	1	1												L												
073-015	Grunt, bluestriped (yellow)	muscle	16	16							M																	

Table 4.8. Distribution of Mean Mercury Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
					Ranges of Mean Mercury Content, ppm[2]																							
	Finfish																											
073-014	Grunt, white	muscle	17	17			M																					
033-011	Haddock	muscle	77	69	M																							
		liver	18	1	L																							
		whole	1	1	W																							
033-013	Hake, Pacific	muscle	49	48		M																						
		liver	1	0	L																							
033-020	Hake, red	muscle	65	59	M																							
033-012	Hake, silver (whiting)	muscle	83	60	M																							
		liver	3	0	L																							
033-024	Hake, spotted	muscle	64	45	M																							
033-025	Hake, white	muscle	70	60		M																						
		liver	31	7	L																							
059-011	Halibut, Pacific	muscle	37	34			M																					
		liver	16	8				L																				
143-001	Hammerhead, scalloped	muscle	12	12												M												
143-005	Hammerhead, smooth	muscle	10	10												M												
		liver	7	7												L												
018-011	Harvestfish	muscle	3	3	M																							
		whole	16	1		W																						
078-011	Herring, Atlantic	muscle	24	5	M																							
		whole	63	19	W																							
		headed	6	1	E																							
		h & g	2	2		H																						
078-001	Herring, blueback	whole	1	0	W																							
078-012	Herring, Pacific	muscle	14	14	M																							
		whole	30	1			W																					
078-015	Herring, round	h & g	50	12	H																							
006-013	Hind, speckled	muscle	20	20		M																						
		liver	7	7										L														
079-068	Jack, (mackerel scad)	muscle	38	19	M																							
079-053	Jack, akule	muscle	39	37		M																						
079-005	Jack, crevalle	muscle	49	49							M																	
		liver	4	4											L													
079-069	Jack, crevalle (Hawaii)	muscle	39	39				M																				
149-004	Jacksmelt	whole	20	16	W																							
006-016	Jewfish	muscle	8	8			M																					
045-024	Kingfish, northern	muscle	5	2	M																							
045-021	Kingfish, southern	muscle	14	12	M																							
		liver	1	1	L																							
200-002	Ladyfish	muscle	2	2											M													
071-005	Lingcod	muscle	78	78			M																					
		liver	13	11						L																		
091-013	Mackerel, Atlantic	muscle	80	45	M																							
091-012	Mackerel, chub	muscle	30	28	M																							
079-034	Mackerel, jack	muscle	10	10				M																				
		liver	1	1									L															
		headed	4	1	E																							
091-014	Mackerel, king	muscle	107	107				M																				
		liver	10	10												L												
		milt	1	1			Q																					
		roe	11	9		R																						
091-016	Mackerel, Spanish	muscle	109	106				M																				
		liver	4	3			L																					
144-003	Mako, shortfin	muscle	3	3												M												
		liver	2	2											L													
011-002	Marlin, blue	muscle	33	33														M										
		liver	11	11																	L							
011-005	Marlin, striped	muscle	40	30											M													
		liver	9	7		L																						
011-003	Marlin, white	muscle	53	52								M																
		liver	11	11										L														
162-012	Mempachi	muscle	20	20		M																						
		liver	1	1									L															
078-010	Menhaden, Atlantic	muscle	10	2	M																							
		whole	100	27		W																						
078-008	Menhaden, Gulf	muscle	50	15	M																							
		whole	28	19	W																							
		gutted	8	4	G																							
078-009	Menhaden, yellowfin	whole	13	6	W																							
206-001	Milkfish	muscle	40	26	M																							

Table 4.8. Distribution of Mean Mercury Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Mercury Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	6	M																							
098-003	Mullet, silver (white)	muscle	36	8	M																							
098-002	Mullet, striped	muscle	156	36	M																							
		liver	5	5	L																							
079-030	Palometa	muscle	2	2				M																				
131-023	Perch, ocean (Pacific)	muscle	30	21	M																							
		liver	17	5	L																							
131-052	Perch, ocean (redfish)	muscle	80	77		M																						
		liver	2	2			L																					
006-010	Perch, sand	muscle	1	1							M																	
168-005	Perch, shiner	whole	2	0	W																							
045-003	Perch, silver	muscle	20	20	M																							
007-001	Perch, white	muscle	27	27		M																						
		h & g	18	16	H																							
079-029	Permit	muscle	9	9		M																						
073-017	Pigfish	muscle	34	32		M																						
114-013	Pinfish, spottail	muscle	10	10			M																					
		liver	1	1		L																						
059-008	Plaice, American (dab)	muscle	68	50	M																							
		whole	1	0	W																							
033-017	Pollock	muscle	73	70		M																						
		liver	32	10	L																							
033-019	Pollock, walleye (Alaska)	muscle	47	35		M																						
		liver	3	1	L																							
079-028	Pompano, Florida	muscle	61	56		M																						
		liver	4	3		L																						
114-014	Porgy, red	muscle	22	22						M																		
		liver	1	1					L																			
056-018	Pout, ocean	muscle	34	29		M																						
		liver	3	0	L																							
131-061	Rockfish, bocaccio	muscle	47	47			M																					
		liver	4	3		L																						
131-063	Rockfish, canary	muscle	44	43		M																						
		liver	2	1		L																						
131-031	Rockfish, copper	muscle	10	10			M																					
131-043	Rockfish, yellowtail	muscle	20	20		M																						
079-004	Runner, blue	muscle	55	53			M																					
		liver	4	4				L																				
126-001	Sablefish	muscle	102	99			M																					
		liver	15	15						L																		
011-001	Sailfish	muscle	43	42						M																		
		liver	3	3									L															
179-020	Salmon, chinook, (king)	muscle	108	84	M																							
		liver	22	11	L																							
179-017	Salmon, chum (keta)	muscle	55	30	M																							
		liver	5	3		L																						
179-018	Salmon, coho (silver)	muscle	69	49	M																							
		liver	7	4	L																							
179-016	Salmon, pink	muscle	29	11	M																							
		liver	3	0	L																							
179-019	Salmon, sockeye (red)	muscle	60	27	M																							
		liver	4	2	L																							
079-013	Scad, round	h & g	3	2	H																							
006-041	Scamp	muscle	10	10				M																				
		liver	1	1													L											
132-031	Sculpin, longhorn	muscle	1	1				M																				
114-016	Scup	muscle	72	47	M																							
135-010	Searobin, northern	muscle	77	73		M																						
135-011	Searobin, striped	muscle	10	10	M																							
045-012	Seatrout, gray (weakfish)	muscle	71	70		M																						
		liver	3	3	L																							
		whole	10	6	W																							
045-007	Seatrout, sand	muscle	18	14		M																						
045-010	Seatrout, silver (white)	muscle	43	30	M																							
		liver	1	1	L																							
045-008	Seatrout, spotted (speckled)	muscle	88	87			M																					
		liver	3	3	L																							
078-006	Shad, American	muscle	60	29	M																							
145-025	Shark, Atlantic, sharpnose	muscle	1	1									M															
145-006	Shark, blacktip	muscle	16	16								M																
		liver	4	3			L																					

Table 4.8. Distribution of Mean Mercury Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Mercury Content, ppm[2]																					
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	14									M															
		liver	9	7		L																						
145-010	Shark, dusky	muscle	4	4											M													
145-009	Shark, sandbar	muscle	13	13											M													
		liver	7	7																L								
144-001	Shark, white	muscle	2	2						M																		
114-001	Sheepshead	muscle	59	56		M																						
		liver	2	2				L																				
150-005	Skate, little	muscle	54	54		M																						
		liver	2	2	L																							
150-012	Skate, winter	muscle	2	2		M																						
		liver	1	0	L																							
155-005	Snapper, blackfin	muscle	13	13			M																					
155-025	Snapper, gray	muscle	39	39				M																				
155-008	Snapper, gray (mangrove)	muscle	28	28			M																					
155-006	Snapper, red	muscle	38	38			M																					
155-024	Snapper, red (ehu)	muscle	40	39						M																		
155-015	Snapper, vermilion	muscle	36	35		M																						
		liver	2	2		L																						
155-013	Snapper, yellowtail	muscle	43	43		M																						
157-004	Snook	muscle	12	12								M																
059-021	Sole, Dover	muscle	70	63		M																						
		liver	4	4			L																					
059-022	Sole, English	muscle	72	71	M																							
		liver	5	5	L																							
059-004	Sole, petrale	muscle	57	48		M																						
		liver	7	2	L																							
059-006	Sole, rex	muscle	61	60		M																						
059-014	Sole, rock	muscle	10	10		M																						
011-004	Spearfish, shortbill	muscle	15	14			M																					
		liver	4	4		L																						
045-020	Spot	muscle	54	29	M																							
166-003	Sturgeon, green	muscle	10	10		M																						
168-001	Surfperch, barred	muscle	20	20	M																							
200-003	Tarpon	muscle	12	12											M													
		liver	2	2																				L				
185-022	Tautog	muscle	14	14			M																					
174-003	Tilefish	muscle	60	60											M													
179-028	Trout, cutthroat	muscle	3	3				M																				
179-029	Trout, rainbow (steelhead)	muscle	9	4	M																							
		liver	1	0	L																							
091-019	Tuna, albacore	muscle	39	39		M																						
		liver	5	5		L																						
091-022	Tuna, bigeye	muscle	39	39				M																				
		liver	21	20				L																				
091-021	Tuna, blackfin	muscle	1	1				M																				
091-023	Tuna, bluefin	muscle	11	11			M																					
		liver	1	1		L																						
091-008	Tuna, skipjack	muscle	70	67		M																						
		liver	8	6		L																						
091-020	Tuna, yellowfin	muscle	80	76		M																						
		liver	26	24			L																					
091-006	Tunny, little	muscle	50	50									M															
		liver	2	2										L														
091-001	Wahoo	muscle	18	18						M																		
		liver	3	2		L																						
183-002	Wolffish, Atlantic	muscle	59	57		M																						
		liver	15	12		L																						
079-023	Yellowtail	muscle	24	24		M																						
	Mollusca																											
187-005	Abalone, green	shucked	10	4	S																							
187-008	Abalone, red	shucked	10	5	S																							
191-003	Clam, butter	shucked	29	14	S																							
191-001	Clam, hard (quahog)	shucked	141	94	S																							
191-008	Clam, Pacific littleneck	shucked	1	0	S																							
243-002	Clam, razor	shucked	39	17	S																							
242-001	Clam, soft	shucked	19	8	S																							
244-005	Clam, surf	shucked	23	13	S																							
205-001	Octopus (marmuratus)	whole	4	3	W																							
		mantle	36	19	N																							

Table 4.8. Distribution of Mean Mercury Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Ranges of Mean Mercury Content, ppm[2]																											
	Mollusca																											
189-001	Oyster, eastern	shucked	153	73	S																							
189-002	Oyster, Pacific (giant)	shucked	69	30	S																							
190-014	Scallop, Atlantic bay	adductor muscle	20	12	A																							
190-016	Scallop, calico	shucked	10	4	S																							
		adductor muscle	20	7	A																							
190-028	Scallop, pink	adductor muscle	5	1	A																							
190-013	Scallop, sea (smooth)	adductor muscle	11	4	A																							
188-003	Squid, Atlantic longfinned	whole	23	14	W																							
		mantle	109	51	N																							
188-006	Squid, Pacific	whole	49	27	W																							
188-014	Squid, shortfinned	mantle	92	47	N																							
	Crustacea																											
196-001	Crab, blue	body meat	34	34		B																						
		claw meat	5	5			C																					
		claw & body meat	53	48		D																						
196-011	Crab, dungeness	meat, unk.	42	42		U																						
		claw & body meat	8	8		D																						
196-012	Crab, king	meat, unk.	19	16	U																							
		claw & body meat	9	9		D																						
196-006	Crab, red, deep sea	meat, unk.	25	25		U																						
196-003	Crab, rock	meat, unk.	15	13		U																						
196-035	Crab, tanner (bairdi)	meat, unk.	49	35		U																						
194-012	Lobster, northern (American)	body meat	2	2				B																				
		claw meat	2	2				C																				
		tail meat	2	2											T													
		leg meat	2	2						F																		
		claw & tail meat	80	80			K																					
194-002	Lobster, spiny (Atlantic)	tail meat	40	36		T																						
194-003	Lobster, spiny (Pacific)	tail meat	5	5	T																							
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	6		P																						
192-005	Shrimp, brown	tail, peeled	53	30	P																							
192-007	Shrimp, ocean	tail, peeled	10	4		P																						
192-010	Shrimp, pink	tail, peeled	48	23		P																						
192-011	Shrimp, pink (northern)	tail, peeled	63	30	P																							
192-003	Shrimp, royal red	tail, peeled	11	11	P																							
192-004	Shrimp, white	tail, peeled	77	51	P																							

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.9. Distribution of Mean Molybdenum Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Molybdenum Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	9		M																						
		whole	4	3				W																				
001-016	Anchovy, northern	whole	39	37						W																		
001-006	Anchovy, striped	h & g	39	33		H																						
002-002	Argentine, Atlantic	h & g	7	3		H																						
062-014	Ballyhoo	whole	58	52				W																				
005-002	Barracuda, Atlantic	muscle	7	0	M																							
005-001	Barracuda, Pacific	muscle	20	3			M																					
006-006	Bass, black sea	muscle	55	11			M																					
		liver	2	2						L																		
007-004	Bass, striped	muscle	117	15			M																					
		liver	3	3			L																					
012-001	Bluefish	muscle	72	18					M																			
		liver	4	4							L																	
091-011	Bonito, Atlantic	muscle	15	0	M																							
091-009	Bonito, Pacific	muscle	40	9					M																			
		liver	1	1				L																				
021-007	Bullhead, brown	muscle	4	0	M																							
018-014	Butterfish	muscle	72	16		M																						
		whole	17	11				W																				
		h & g	1	1			H																					
021-010	Catfish, channel	muscle	20	4						M																		
023-002	Catfish, gafftopsail	muscle	34	13		M																						
		liver	3	2				L																				
023-001	Catfish, sea	muscle	46	10				M																				
		liver	6	5					L																			
021-002	Catfish, white	muscle	1	0	M																							
033-008	Cod, Atlantic	muscle	114	19			M																					
		liver	36	27			L																					
033-007	Cod, Pacific (gray)	muscle	59	12		M																						
		liver	15	14			L																					
045-026	Croaker, Atlantic	muscle	91	22			M																					
033-004	Cusk	muscle	76	9		M																						
		liver	18	4		L																						
037-004	Cusk-eel, fawn	muscle	2	2		M																						
145-018	Dogfish, smooth	muscle	95	11		M																						
141-007	Dogfish, spiny	muscle	114	35		M																						
		liver	29	15			L																					
041-002	Dolphin	muscle	62	24			M																					
		liver	28	22					L																			
045-019	Drum, banded	muscle	5	1		M																						
045-028	Drum, black	muscle	60	15			M																					
		liver	2	2		L																						
045-030	Drum, red	muscle	73	9				M																				
		liver	3	3			L																					
051-001	Eel, American	muscle	30	3		M																						
047-002	Eel, conger	muscle	1	0	M																							
153-009	Eulachon	whole	33	27		W																						
058-028	Flounder, fourspot	muscle	70	3			M																					
058-024	Flounder, Gulf	muscle	41	7			M																					
		liver	1	0	L																							
058-027	Flounder, southern	muscle	42	7			M																					
		liver	2	1				L																				
058-026	Flounder, summer (fluke)	muscle	42	12			M																					
		liver	2	1			L																					
058-030	Flounder, windowpane (s.dab)	muscle	18	2		M																						
059-030	Flounder, winter	muscle	123	17		M																						
		liver	2	2				L																				
059-005	Flounder, witch	muscle	71	7	M																							
059-016	Flounder, yellowtail	muscle	89	21			M																					
		liver	2	1				L																				
006-040	Gag	muscle	30	5			M																					
066-009	Goatfish	muscle	40	7			M																					
068-001	Goosefish	muscle	81	12			M																					
		liver	10	5			L																					
		h & g	1	0	H																							
006-037	Grouper, black	muscle	33	11			M																					
006-017	Grouper, red	muscle	41	6				M																				
006-038	Grouper, yellowmouth	muscle	10	2			M																					
		liver	1	1										L														
073-015	Grunt, bluestriped (yellow)	muscle	16	5		M																						

Table 4.9. Distribution of Mean Molybdenum Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Molybdenum Content, ppm[2]																											
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																															
073-014	Grunt, white	muscle	17	2		M																										
033-011	Haddock	muscle	77	20		M																										
		liver	18	14			L																									
		whole	1	0	W																											
033-013	Hake, Pacific	muscle	48	8			M																									
		liver	1	1			L																									
033-020	Hake, red	muscle	65	16		M																										
033-012	Hake, silver (whiting)	muscle	83	26		M																										
		liver	3	3			L																									
033-024	Hake, spotted	muscle	65	3		M																										
033-025	Hake, white	muscle	70	24			M																									
		liver	70	22			L																									
059-011	Halibut, Pacific	muscle	37	11			M																									
		liver	16	10			L																									
143-001	Hammerhead, scalloped	muscle	12	5		M																										
143-005	Hammerhead, smooth	muscle	10	2	M																											
		liver	7	6						L																						
018-011	Harvestfish	muscle	3	0	M																											
		whole	16	15		W																										
078-011	Herring, Atlantic	muscle	24	7		M																										
		whole	63	56			W																									
		headed	6	4		E																										
		h & g	2	1			H																									
078-001	Herring, blueback	whole	1	0	W																											
078-012	Herring, Pacific	muscle	14	4				M																								
		whole	30	24			W																									
078-015	Herring, round	h & g	50	35			H																									
006-013	Hind, speckled	muscle	20	1	M																											
		liver	7	7			L																									
079-068	Jack, (mackerel scad)	muscle	40	4		M																										
079-053	Jack, akule	muscle	39	9		M																										
079-005	Jack, crevalle	muscle	49	14				M																								
		liver	4	3					L																							
079-069	Jack, crevalle (Hawaii)	muscle	40	6			M																									
149-004	Jacksmelt	whole	20	15			W																									
006-016	Jewfish	muscle	8	4				M																								
045-024	Kingfish, northern	muscle	6	0	M																											
045-021	Kingfish, southern	muscle	14	4			M																									
		liver	1	1		L																										
200-002	Ladyfish	muscle	2	0	M																											
071-005	Lingcod	muscle	78	20		M																										
		liver	13	12					L																							
091-013	Mackerel, Atlantic	muscle	80	15		M																										
091-012	Mackerel, chub	muscle	30	16		M																										
079-034	Mackerel, jack	muscle	10	2			M																									
		liver	1	1				L																								
		headed	4	3		H																										
091-014	Mackerel, king	muscle	107	20			M																									
		liver	10	9			L																									
		milt	1	0	Q																											
		roe	11	0	R																											
091-016	Mackerel, Spanish	muscle	109	33			M																									
		liver	4	4				L																								
144-003	Mako, shortfin	muscle	3	1	M																											
		liver	2	1			L																									
011-002	Marlin, blue	muscle	33	5			M																									
		liver	11	8						L																						
011-005	Marlin, striped	muscle	40	2				M																								
		liver	9	7					L																							
011-003	Marlin, white	muscle	54	8				M																								
		liver	10	10				L																								
162-012	Mempachi	muscle	19	6			M																									
		liver	1	1		L																										
078-010	Menhaden, Atlantic	muscle	10	3			M																									
		whole	100	96				W																								
078-008	Menhaden, Gulf	muscle	50	11			M																									
		whole	28	27					W																							
		gutted	9	9				G																								
078-009	Menhaden, yellowfin	whole	13	12				W																								
206-001	Milkfish	muscle	40	4					M																							

Table 4.9. Distribution of Mean Molybdenum Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Molybdenum Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	6					M																			
098-003	Mullet, silver (white)	muscle	36	2		M																						
098-002	Mullet, striped	muscle	158	34			M																					
		liver	5	4											L													
079-030	Palometa	muscle	2	0	M																							
131-023	Perch, ocean (Pacific)	muscle	30	6		M																						
		liver	18	15			L																					
131-052	Perch, ocean (redfish)	muscle	80	20			M																					
		liver	2	1					L																			
006-010	Perch, sand	muscle	1	0	M																							
168-005	Perch, shiner	whole	2	2				W																				
045-003	Perch, silver	muscle	20	7			M																					
007-001	Perch, white	muscle	27	8			M																					
		h & g	19	18					H																			
079-029	Permit	muscle	9	2						M																		
073-017	Pigfish	muscle	34	14			M																					
114-013	Pinfish, spottail	muscle	10	4						M																		
		liver	1	1					L																			
059-008	Plaice, American (dab)	muscle	68	9		M																						
		whole	1	1			W																					
033-017	Pollock	muscle	73	13			M																					
		liver	33	22		L																						
033-019	Pollock, walleye (Alaska)	muscle	48	9		M																						
		liver	3	3			L																					
079-028	Pompano, Florida	muscle	60	13			M																					
		liver	4	4						L																		
114-014	Porgy, red	muscle	22	7		M																						
		liver	1	1					L																			
056-018	Pout, ocean	muscle	34	7		M																						
		liver	3	1			L																					
131-061	Rockfish, bocaccio	muscle	48	13		M																						
		liver	4	2		L																						
131-063	Rockfish, canary	muscle	43	17				M																				
		liver	1	0	L																							
131-031	Rockfish, copper	muscle	10	2			M																					
131-043	Rockfish, yellowtail	muscle	20	3			M																					
079-004	Runner, blue	muscle	56	17			M																					
		liver	4	2				L																				
126-001	Sablefish	muscle	103	28				M																				
		liver	14	7		L																						
011-001	Sailfish	muscle	42	4					M																			
		liver	3	3						L																		
179-020	Salmon, chinook, (king)	muscle	110	40			M																					
		liver	22	17				L																				
179-017	Salmon, chum (keta)	muscle	57	17				M																				
		liver	5	4					L																			
179-018	Salmon, coho (silver)	muscle	68	27			M																					
		liver	7	3			L																					
179-016	Salmon, pink	muscle	27	15			M																					
		liver	3	3				L																				
179-019	Salmon, sockeye (red)	muscle	62	21				M																				
		liver	4	4			L																					
079-013	Scad, round	h & g	3	1			H																					
006-041	Scamp	muscle	10	3		M																						
		liver	1	0	L																							
132-031	Sculpin, longhorn	muscle	1	0	M																							
114-016	Scup	muscle	72	21			M																					
135-010	Searobin, northern	muscle	78	13		M																						
135-011	Searobin, striped	muscle	10	0	M																							
045-012	Seatrout, gray (weakfish)	muscle	72	22		M																						
		liver	3	2		L																						
		whole	10	10			W																					
045-007	Seatrout, sand	muscle	18	8		M																						
045-010	Seatrout, silver (white)	muscle	44	8		M																						
		liver	1	1		L																						
045-008	Seatrout, spotted (speckled)	muscle	89	18		M																						
		liver	3	2	L																							
078-006	Shad, American	muscle	60	9		M																						
145-025	Shark, Atlantic, sharpnose	muscle	1	1			M																					
145-006	Shark, blacktip	muscle	16	6			M																					
		liver	4	2			L																					

Table 4.9. Distribution of Mean Molybdenum Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Molybdenum Content, ppm[2]																								
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																												
145-023	Shark, blue	muscle	14	6		M																							
		liver	9	8					L																				
145-010	Shark, dusky	muscle	4	0	M																								
145-009	Shark, sandbar	muscle	13	5			M																						
		liver	6	5			L																						
144-001	Shark, white	muscle	2	0	M																								
114-001	Sheepshead	muscle	60	11				M																					
		liver	2	2			L																						
150-005	Skate, little	muscle	54	27		M																							
		liver	2	2						L																			
150-012	Skate, winter	muscle	2	1		M																							
		liver	1	1				L																					
155-005	Snapper, blackfin	muscle	13	5		M																							
155-025	Snapper, gray	muscle	40	7			M																						
155-008	Snapper, gray (mangrove)	muscle	28	3					M																				
155-006	Snapper, red	muscle	38	8			M																						
155-024	Snapper, red (ehu)	muscle	40	5			M																						
155-015	Snapper, vermilion	muscle	36	8						M																			
		liver	2	1		L																							
155-013	Snapper, yellowtail	muscle	43	8		M																							
157-004	Snook	muscle	12	5		M																							
059-021	Sole, Dover	muscle	69	13			M																						
		liver	4	4		L																							
059-022	Sole, English	muscle	72	23				M																					
		liver	5	3			L																						
059-004	Sole, petrale	muscle	56	21			M																						
		liver	7	6			L																						
059-006	Sole, rex	muscle	61	10				M																					
059-014	Sole, rock	muscle	10	5			M																						
011-004	Spearfish, shortbill	muscle	15	4		M																							
		liver	4	2			L																						
045-020	Spot	muscle	54	12			M																						
166-003	Sturgeon, green	muscle	10	3					M																				
168-001	Surfperch, barred	muscle	20	11		M																							
200-003	Tarpon	muscle	12	3		M																							
		liver	2	1				L																					
185-022	Tautog	muscle	14	5			M																						
174-003	Tilefish	muscle	60	6	M																								
179-028	Trout, cutthroat	muscle	3	1		M																							
179-029	Trout, rainbow (steelhead)	muscle	9	2		M																							
		liver	1	1				L																					
091-019	Tuna, albacore	muscle	40	11			M																						
		liver	5	5					L																				
091-022	Tuna, bigeye	muscle	40	9				M																					
		liver	21	21					L																				
091-021	Tuna, blackfin	muscle	1	0	M																								
091-023	Tuna, bluefin	muscle	11	3			M																						
		liver	1	1			L																						
091-008	Tuna, skipjack	muscle	70	14			M																						
		liver	8	6				L																					
091-020	Tuna, yellowfin	muscle	80	18			M																						
		liver	26	25					L																				
091-006	Tunny, little	muscle	50	5			M																						
		liver	2	2				L																					
091-001	Wahoo	muscle	18	4				M																					
		liver	3	3					L																				
183-002	Wolffish, Atlantic	muscle	60	10		M																							
		liver	15	12			L																						
079-023	Yellowtail	muscle	24	3					M																				
	Mollusca																												
187-005	Abalone, green	shucked	10	9							S																		
187-008	Abalone, red	shucked	9	2					S																				
191-003	Clam, butter	shucked	29	22			S																						
191-001	Clam, hard (quahog)	shucked	137	122				S																					
191-008	Clam, Pacific littleneck	shucked	1	1		S																							
243-002	Clam, razor	shucked	39	19			S																						
242-001	Clam, soft	shucked	19	19			S																						
244-005	Clam, surf	shucked	23	23				S																					
205-001	Octopus (marmuratus)	whole	4	4			W																						
		mantle	36	7						N																			

Table 4.9. Distribution of Mean Molybdenum Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
					Ranges of Mean Molybdenum Content, ppm[2]																							
	Mollusca																											
189-001	Oyster, eastern	shucked	152	100					S																			
189-002	Oyster, Pacific (giant)	shucked	70	41			S																					
190-014	Scallop, Atlantic bay	adductor muscle	20	14			A																					
190-016	Scallop, calico	shucked	10	10					S																			
		adductor muscle	20	13										A														
190-028	Scallop, pink	adductor muscle	5	0	A																							
190-013	Scallop, sea (smooth)	adductor muscle	11	5													A											
188-003	Squid, Atlantic longfinned	whole	23	8		W																						
		mantle	110	25			N																					
188-006	Squid, Pacific	whole	50	22			W																					
188-014	Squid, shortfinned	mantle	92	22		N																						
	Crustacea																											
196-001	Crab, blue	body meat	35	24			B																					
		claw meat	5	1			C																					
		claw & body meat	53	34			D																					
196-011	Crab, dungeness	meat, unk.	42	17			U																					
		claw & body meat	8	5		D																						
196-012	Crab, king	meat, unk.	20	17		U																						
		claw & body meat	9	3		D																						
196-006	Crab, red, deep sea	meat, unk.	25	11			U																					
196-003	Crab, rock	meat, unk.	15	13		U																						
196-035	Crab, tanner (bairdi)	meat, unk.	50	8		U																						
194-012	Lobster, northern (American)	body meat	2	2				B																				
		claw meat	2	0	C																							
		tail meat	2	1			T																					
		leg meat	2	1		F																						
		claw & tail meat	80	43		K																						
194-002	Lobster, spiny (Atlantic)	tail meat	40	17				T																				
194-003	Lobster, spiny (Pacific)	tail meat	5	5		T																						
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	3		P																						
192-005	Shrimp, brown	tail, peeled	53	15			P																					
192-007	Shrimp, ocean	tail, peeled	10	3		P																						
192-010	Shrimp, pink	tail, peeled	50	25		P																						
192-011	Shrimp, pink (northern)	tail, peeled	64	19		P																						
192-003	Shrimp, royal red	tail, peeled	12	6		P																						
192-004	Shrimp, white	tail, peeled	76	27			P																					

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.10. Distribution of Mean Nickel Levels in the Resource Survey, by Species

Ranges of Mean Nickel Content, ppm[2]

Species Number	Species (Finfish)	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
078-005	Alewife	muscle	42	42			M																					
		whole	4	4				W																				
001-016	Anchovy, northern	whole	39	39								W																
001-006	Anchovy, striped	h & g	40	40					H																			
002-002	Argentine, Atlantic	h & g	7	7			H																					
062-014	Ballyhoo	whole	58	58							W																	
005-002	Barracuda, Atlantic	muscle	7	7			M																					
005-001	Barracuda, Pacific	muscle	20	18			M																					
006-006	Bass, black sea	muscle	55	50			M																					
		liver	2	2			L																					
007-004	Bass, striped	muscle	116	108		M																						
		liver	3	3			L																					
012-001	Bluefish	muscle	72	65			M																					
		liver	4	4			L																					
091-011	Bonito, Atlantic	muscle	15	15			M																					
091-009	Bonito, Pacific	muscle	40	40			M																					
		liver	1	1			L																					
021-007	Bullhead, brown	muscle	4	4		M																						
018-014	Butterfish	muscle	71	69			M																					
		whole	17.	17					W																			
		h & g	1	1				H																				
021-010	Catfish, channel	muscle	20	20			M																					
023-002	Catfish, gafftopsail	muscle	34	30			M																					
		liver	3	3			L																					
023-001	Catfish, sea	muscle	47	44			M																					
		liver	6	5				L																				
021-002	Catfish, white	muscle	1	1		M																						
033-008	Cod, Atlantic	muscle	114	112			M																					
		liver	36	34			L																					
033-007	Cod, Pacific (gray)	muscle	59	51			M																					
		liver	16	12			L																					
045-026	Croaker, Atlantic	muscle	90	84			M																					
033-004	Cusk	muscle	76	76		M																						
		liver	18	18			L																					
037-004	Cusk-eel, fawn	muscle	2	2								M																
145-018	Dogfish, smooth	muscle	95	94			M																					
141-007	Dogfish, spiny	muscle	115	108		M																						
		liver	28	28		L																						
041-002	Dolphin	muscle	63	59			M																					
		liver	28	28			L																					
045-019	Drum, banded	muscle	5	5			M																					
045-028	Drum, black	muscle	61	59			M																					
		liver	2	2			L																					
045-030	Drum, red	muscle	72	69			M																					
		liver	3	3						L																		
051-001	Eel, American	muscle	30	27			M																					
047-002	Eel, conger	muscle	1	1		M																						
153-009	Eulachon	whole	33	31				W																				
058-028	Flounder, fourspot	muscle	71	71			M																					
058-024	Flounder, Gulf	muscle	41	40		M																						
		liver	1	1						L																		
058-027	Flounder, southern	muscle	42	40			M																					
		liver	2	2		L																						
058-026	Flounder, summer (fluke)	muscle	42	35		M																						
		liver	2	2					L																			
058-030	Flounder, windowpane (s.dab)	muscle	18	17			M																					
059-030	Flounder, winter	muscle	123	123			M																					
		liver	2	2			L																					
059-005	Flounder, witch	muscle	71	71			M																					
059-016	Flounder, yellowtail	muscle	89	89			M																					
		liver	2	2					L																			
006-040	Gag	muscle	29	29		M																						
066-009	Goatfish	muscle	38	37			M																					
068-001	Goosefish	muscle	80	80			M																					
		liver	10	10		L																						
		h & g	1	1				H																				
006-037	Grouper, black	muscle	34	32			M																					
006-017	Grouper, red	muscle	41	41			M																					
006-038	Grouper, yellowmouth	muscle	10	8		M																						
		liver	1	1			L																					
073-015	Grunt, bluestriped (yellow)	muscle	16	16			M																					

Table 4.10. Distribution of Mean Nickel Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
073-014	Grunt, white	muscle	17	17			M																					
033-011	Haddock	muscle	77	77			M																					
		liver	18	18					L																			
		whole	1	1			W																					
033-013	Hake, Pacific	muscle	49	43			M																					
		liver	1	1		L																						
033-020	Hake, red	muscle	65	65			M																					
033-012	Hake, silver (whiting)	muscle	83	82			M																					
		liver	3	3		L																						
033-024	Hake, spotted	muscle	64	63			M																					
033-025	Hake, white	muscle	70	70			M																					
		liver	30	30		L																						
059-011	Halibut, Pacific	muscle	37	35			M																					
		liver	15	15		L																						
143-001	Hammerhead, scalloped	muscle	12	12				M																				
143-005	Hammerhead, smooth	muscle	9	8		M																						
		liver	7	6						L																		
018-011	Harvestfish	muscle	3	3			M																					
		whole	16	16					W																			
078-011	Herring, Atlantic	muscle	24	24			M																					
		whole	63	63				W																				
		headed	6	6				E																				
		h & g	2	2				H																				
078-001	Herring, blueback	whole	1	1			W																					
078-012	Herring, Pacific	muscle	14	14			M																					
		whole	30	30				W																				
078-015	Herring, round	h & g	50	50				H																				
006-013	Hind, speckled	muscle	19	19		M																						
		liver	7	7		L																						
079-068	Jack, (mackerel scad)	muscle	40	39			M																					
079-053	Jack, akule	muscle	38	36			M																					
079-005	Jack, crevalle	muscle	49	42			M																					
		liver	4	4									L															
079-069	Jack, crevalle (Hawaii)	muscle	40	40			M																					
149-004	Jacksmelt	whole	20	20				W																				
006-016	Jewfish	muscle	8	8		M																						
045-024	Kingfish, northern	muscle	6	6		M																						
045-021	Kingfish, southern	muscle	14	14			M																					
		liver	1	1			L																					
200-002	Ladyfish	muscle	2	2							M																	
071-005	Lingcod	muscle	76	70			M																					
		liver	12	12			L																					
091-013	Mackerel, Atlantic	muscle	80	80			M																					
091-012	Mackerel, chub	muscle	30	30		M																						
079-034	Mackerel, jack	muscle	10	10		M																						
		liver	1	1			L																					
		headed	4	4			E																					
091-014	Mackerel, king	muscle	105	101			M																					
		liver	10	10			L																					
		milt	1	1					Q																			
		roe	11	11			R																					
091-016	Mackerel, Spanish	muscle	109	99			M																					
		liver	4	4			L																					
144-003	Mako, shortfin	muscle	3	3			M																					
		liver	2	2		L																						
011-002	Marlin, blue	muscle	33	31			M																					
		liver	11	10												L												
011-005	Marlin, striped	muscle	40	37		M																						
		liver	9	8			L																					
011-003	Marlin, white	muscle	54	52		M																						
		liver	10	10				L																				
162-012	Mempachi	muscle	19	16			M																					
		liver	1	1				L																				
078-010	Menhaden, Atlantic	muscle	9	9				M																				
		whole	101	101									W															
078-008	Menhaden, Gulf	muscle	50	50			M																					
		whole	28	28										W														
		gutted	9	9											G													
078-009	Menhaden, yellowfin	whole	13	13						W																		
206-001	Milkfish	muscle	40	39		M																						

Table 4.10. Distribution of Mean Nickel Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Nickel Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	9			M																					
098-003	Mullet, silver (white)	muscle	36	36		M																						
098-002	Mullet, striped	muscle	158	147			M																					
		liver	5	5			L																					
079-030	Palometa	muscle	2	0	M																							
131-023	Perch, ocean (Pacific)	muscle	30	23				M																				
		liver	18	16			L																					
131-052	Perch, ocean (redfish)	muscle	80	80			M																					
		liver	2	2							L																	
006-010	Perch, sand	muscle	1	0	M																							
168-005	Perch, shiner	whole	2	2						W																		
045-003	Perch, silver	muscle	20	19			M																					
007-001	Perch, white	muscle	27	27			M																					
		h & g	19	19					H																			
079-029	Permit	muscle	9	6			M																					
073-017	Pigfish	muscle	34	33				M																				
114-013	Pinfish, spottail	muscle	9	9			M																					
		liver	1	1				L																				
059-008	Plaice, American (dab)	muscle	66	66			M																					
		whole	1	1						W																		
033-017	Pollock	muscle	72	72			M																					
		liver	30	27		L																						
033-019	Pollock, walleye (Alaska)	muscle	47	46			M																					
		liver	3	3		L																						
079-028	Pompano, Florida	muscle	59	59		M																						
		liver	4	4							L																	
114-014	Porgy, red	muscle	22	21			M																					
		liver	1	1					L																			
056-018	Pout, ocean	muscle	34	34			M																					
		liver	3	3			L																					
131-061	Rockfish, bocaccio	muscle	48	43			M																					
		liver	4	4		L																						
131-063	Rockfish, canary	muscle	43	33			M																					
		liver	1	1		L																						
131-031	Rockfish, copper	muscle	10	10			M																					
131-043	Rockfish, yellowtail	muscle	20	16			M																					
079-004	Runner, blue	muscle	56	55			M																					
		liver	4	4				L																				
126-001	Sablefish	muscle	103	89			M																					
		liver	14	11				L																				
011-001	Sailfish	muscle	41	38		M																						
		liver	3	3			L																					
179-020	Salmon, chinook, (king)	muscle	107	104		M																						
		liver	22	22		L																						
179-017	Salmon, chum (keta)	muscle	57	56			M																					
		liver	5	5		L																						
179-018	Salmon, coho (silver)	muscle	68	65		M																						
		liver	7	7		L																						
179-016	Salmon, pink	muscle	27	24			M																					
		liver	3	3		L																						
179-019	Salmon, sockeye (red)	muscle	62	58			M																					
		liver	4	4		L																						
079-013	Scad, round	h & g	3	3						H																		
006-041	Scamp	muscle	10	10		M																						
		liver	1	1			L																					
132-031	Sculpin, longhorn	muscle	1	1										M														
114-016	Scup	muscle	72	71			M																					
135-010	Searobin, northern	muscle	77	77			M																					
135-011	Searobin, striped	muscle	10	10			M																					
045-012	Seatrout, gray (weakfish)	muscle	72	71			M																					
		liver	3	3				L																				
		whole	10	10				W																				
045-007	Seatrout, sand	muscle	18	17			M																					
045-010	Seatrout, silver (white)	muscle	44	44		M																						
		liver	1	1						L																		
045-008	Seatrout, spotted (speckled)	muscle	89	75			M																					
		liver	3	3			L																					
078-006	Shad, American	muscle	60	59			M																					
145-025	Shark, Atlantic, sharpnose	muscle	1	1												M												
145-006	Shark, blacktip	muscle	16	16			M																					
		liver	4	4			L																					

Table 4.10. Distribution of Mean Nickel Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1/]	Total # Samples	# samples in mean	Ranges of Mean Nickel Content, ppm[2/]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
145-023	Shark, blue	muscle	14	14			M																				
		liver	8	8			L																				
145-010	Shark, dusky	muscle	4	4			M																				
145-009	Shark, sandbar	muscle	13	13			M																				
		liver	7	6			L																				
144-001	Shark, white	muscle	2	2			M																				
114-001	Sheepshead	muscle	59	56			M																				
		liver	2	2						L																	
150-005	Skate, little	muscle	54	54					M																		
		liver	2	2				L																			
150-012	Skate, winter	muscle	2	2			M																				
		liver	1	1									L														
155-005	Snapper, blackfin	muscle	13	13			M																				
155-025	Snapper, gray	muscle	39	39		M																					
155-008	Snapper, gray (mangrove)	muscle	28	25			M																				
155-006	Snapper, red	muscle	38	34			M																				
155-024	Snapper, red (ehu)	muscle	40	40		M																					
155-015	Snapper, vermilion	muscle	36	31			M																				
		liver	2	2											L												
155-013	Snapper, yellowtail	muscle	42	42			M																				
157-004	Snook	muscle	12	12		M																					
059-021	Sole, Dover	muscle	69	61			M																				
		liver	4	4						L																	
059-022	Sole, English	muscle	72	66			M																				
		liver	5	4						L																	
059-004	Sole, petrale	muscle	57	53			M																				
		liver	7	6			L																				
059-006	Sole, rex	muscle	61	49				M																			
059-014	Sole, rock	muscle	10	10			M																				
011-004	Spearfish, shortbill	muscle	15	15			M																				
		liver	4	4			L																				
045-020	Spot	muscle	54	47			M																				
166-003	Sturgeon, green	muscle	10	9			M																				
168-001	Surfperch, barred	muscle	20	20			M																				
200-003	Tarpon	muscle	12	12			M																				
		liver	2	1												L											
185-022	Tautog	muscle	12	12		M																					
174-003	Tilefish	muscle	60	60			M																				
179-028	Trout, cutthroat	muscle	3	3		M																					
179-029	Trout, rainbow (steelhead)	muscle	9	9		M																					
		liver	1	1		L																					
091-019	Tuna, albacore	muscle	39	38		M																					
		liver	5	5		L																					
091-022	Tuna, bigeye	muscle	40	36		M																					
		liver	21	20		L																					
091-021	Tuna, blackfin	muscle	1	1		M																					
091-023	Tuna, bluefin	muscle	11	10			M																				
		liver	1	1		L																					
091-008	Tuna, skipjack	muscle	69	65			M																				
		liver	8	8			L																				
091-020	Tuna, yellowfin	muscle	79	77			M																				
		liver	26	25			L																				
091-006	Tunny, little	muscle	49	49		M																					
		liver	2	2					L																		
091-001	Wahoo	muscle	18	17			M																				
		liver	3	3			L																				
183-002	Wolffish, Atlantic	muscle	60	59			M																				
		liver	15	15					L																		
079-023	Yellowtail	muscle	23	23			M																				
	Mollusca																										
187-005	Abalone, green	shucked	10	10												S											
187-008	Abalone, red	shucked	10	9											S												
191-003	Clam, butter	shucked	29	27								S															
191-001	Clam, hard (quahog)	shucked	140	140											S												
191-008	Clam, Pacific littleneck	shucked	1	1								S															
243-002	Clam, razor	shucked	39	37					S																		
242-001	Clam, soft	shucked	19	19						S																	
244-005	Clam, surf	shucked	23	23						S																	
205-001	Octopus (marmuratus)	whole	4	4					W																		
		mantle	36	36				N																			

Table 4.10. Distribution of Mean Nickel Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Nickel Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																											
189-001	Oyster, eastern	shucked	151	148						S																		
189-002	Oyster, Pacific (giant)	shucked	69	64				S																				
190-014	Scallop, Atlantic bay	adductor muscle	20	20			A																					
190-016	Scallop, calico	shucked	10	10											S													
		adductor muscle	20	19			A																					
190-028	Scallop, pink	adductor muscle	5	5			A																					
190-013	Scallop, sea (smooth)	adductor muscle	11	11			A																					
188-003	Squid, Atlantic longfinned	whole	23	23				W																				
		mantle	110	110			N																					
188-006	Squid, Pacific	whole	50	48			W																					
188-014	Squid, shortfinned	mantle	92	92				N																				
	Crustacea																											
196-001	Crab, blue	body meat	34	34				B																				
		claw meat	5	5					C																			
		claw & body meat	53	53					D																			
196-011	Crab, dungeness	meat, unk.	42	40						U																		
		claw & body meat	7	6				D																				
196-012	Crab, king	meat, unk.	20	20				U																				
		claw & body meat	9	9				D																				
196-006	Crab, red, deep sea	meat, unk.	24	24						U																		
196-003	Crab, rock	meat, unk.	15	15									U															
196-035	Crab, tanner (bairdi)	meat, unk.	50	50			U																					
194-012	Lobster, northern (American)	body meat	2	2					B																			
		claw meat	2	2			C																					
		tail meat	2	2				T																				
		leg meat	2	2						F																		
		claw & tail meat	80	80				K																				
194-002	Lobster, spiny (Atlantic)	tail meat	40	39				T																				
194-003	Lobster, spiny (Pacific)	tail meat	5	5				T																				
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17			P																					
192-005	Shrimp, brown	tail, peeled	52	48				P																				
192-007	Shrimp, ocean	tail, peeled	10	10			P																					
192-010	Shrimp, pink	tail, peeled	49	48				P																				
192-011	Shrimp, pink (northern)	tail, peeled	64	64				P																				
192-003	Shrimp, royal red	tail, peeled	12	12				P																				
192-004	Shrimp, white	tail, peeled	77	70			P																					

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.11. Distribution of Mean Selenium Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
					Ranges of Mean Selenium Content, ppm[2]																							
	Finfish																											
078-005	Alewife	muscle	40	40					M																			
		whole	4	4								W																
001-016	Anchovy, northern	whole	37	37						W																		
001-006	Anchovy, striped	h & g	40	40						H																		
002-002	Argentine, Atlantic	h & g	6	6					H																			
062-014	Ballyhoo	whole	57	57								W																
005-002	Barracuda, Atlantic	muscle	7	7							M																	
005-001	Barracuda, Pacific	muscle	20	20					M																			
006-006	Bass, black sea	muscle	54	54						M																		
		liver	2	2											L													
007-004	Bass, striped	muscle	113	113						M																		
		liver	3	3											L													
012-001	Bluefish	muscle	71	71										M														
		liver	4	4												L												
091-011	Bonito, Atlantic	muscle	14	14											M													
091-009	Bonito, Pacific	muscle	39	39						M																		
		liver	–	–																								
021-007	Bullhead, brown	muscle	4	4		M																						
018-014	Butterfish	muscle	71	71						M																		
		whole	17	17								W																
		h & g	1	1								H																
021-010	Catfish, channel	muscle	20	20				M																				
023-002	Catfish, gafftopsail	muscle	33	33			M																					
		liver	3	3													L											
023-001	Catfish, sea	muscle	45	43					M																			
		liver	6	5												L												
021-002	Catfish, white	muscle	1	1		M																						
033-008	Cod, Atlantic	muscle	112	112					M																			
		liver	31	31										L														
033-007	Cod, Pacific (gray)	muscle	53	52					M																			
		liver	10	10											L													
045-026	Croaker, Atlantic	muscle	90	89								M																
033-004	Cusk	muscle	73	73						M																		
		liver	14	14												L												
037-004	Cusk-eel, fawn	muscle	1	1						M																		
145-018	Dogfish, smooth	muscle	93	92								M																
141-007	Dogfish, spiny	muscle	112	109					M																			
		liver	29	29							L																	
041-002	Dolphin	muscle	61	61							M																	
		liver	13	13											L													
045-019	Drum, banded	muscle	5	5						M																		
045-028	Drum, black	muscle	60	60								M																
		liver	2	2											L													
045-030	Drum, red	muscle	72	72							M																	
		liver	2	2												L												
051-001	Eel, American	muscle	30	30					M																			
047-002	Eel, conger	muscle	1	1							M																	
153-009	Eulachon	whole	33	33					W																			
058-028	Flounder, fourspot	muscle	70	70						M																		
058-024	Flounder, Gulf	muscle	37	37									M															
		liver	1	1									L															
058-027	Flounder, southern	muscle	42	42										M														
		liver	1	1							L																	
058-026	Flounder, summer (fluke)	muscle	40	40								M																
		liver	1	1											L													
058-030	Flounder, windowpane (s.dab)	muscle	18	18							M																	
059-030	Flounder, winter	muscle	122	122						M																		
		liver	1	1												L												
059-005	Flounder, witch	muscle	68	68											M													
059-016	Flounder, yellowtail	muscle	88	88							M																	
		liver	1	1												L												
006-040	Gag	muscle	29	29										M														
066-009	Goatfish	muscle	39	39					M																			
068-001	Goosefish	muscle	80	80							M																	
		liver	9	9											L													
		h & g	1	1						H																		
006-037	Grouper, black	muscle	33	33										M														
006-017	Grouper, red	muscle	40	40								M																
006-038	Grouper, yellowmouth	muscle	10	10								M																
		liver	1	1											L													
073-015	Grunt, bluestriped (yellow)	muscle	16	16					M																			

Table 4.11. Distribution of Mean Selenium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish				Ranges of Mean Selenium Content, ppm[2]																							
073-014	Grunt, white	muscle	17	17					M																			
033-011	Haddock	muscle	76	76						M																		
		liver	13	13											L													
		whole	1	1											W													
033-013	Hake, Pacific	muscle	47	47						M																		
		liver	1	1											L													
033-020	Hake, red	muscle	62	62					M																			
033-012	Hake, silver (whiting)	muscle	81	80						M																		
		liver	3	3										L														
033-024	Hake, spotted	muscle	65	65				M																				
033-025	Hake, white	muscle	69	68						M																		
		liver	24	24								L																
059-011	Halibut, Pacific	muscle	34	34									M															
		liver	12	12											L													
143-001	Hammerhead, scalloped	muscle	12	12									M															
143-005	Hammerhead, smooth	muscle	9	9											M													
		liver	7	7																				L				
018-011	Harvestfish	muscle	3	3									M															
		whole	16	16											W													
078-011	Herring, Atlantic	muscle	24.	23						M																		
		whole	62	62									W															
		headed	6	6								E																
		h & g	2	2							H																	
078-001	Herring, blueback	whole	1	1							W																	
078-012	Herring, Pacific	muscle	14	14						M																		
		whole	30	30									W															
078-015	Herring, round	h & g	50	50											H													
006-013	Hind, speckled	muscle	20	20										M														
		liver	5	5														L										
079-068	Jack, (mackerel scad)	muscle	39	39											M													
079-053	Jack, akule	muscle	37	37									M															
079-005	Jack, crevalle	muscle	47	47								M																
		liver	3	3																	L							
079-069	Jack, crevalle (Hawaii)	muscle	40	39				M																				
149-004	Jacksmelt	whole	19	19						W																		
006-016	Jewfish	muscle	7	7					M																			
045-024	Kingfish, northern	muscle	6	6							M																	
045-021	Kingfish, southern	muscle	14	14											M													
		liver	1	1											L													
200-002	Ladyfish	muscle	1	1										M														
071-005	Lingcod	muscle	72	72						M																		
		liver	8	8											L													
091-013	Mackerel, Atlantic	muscle	80	80							M																	
091-012	Mackerel, chub	muscle	30	30							M																	
079-034	Mackerel, jack	muscle	10	10									M															
		liver	1	1																		L						
		headed	4	4						E																		
091-014	Mackerel, king	muscle	104	104									M															
		liver	7	7														L										
		milt	1	1									Q															
		roe	10	10												R												
091-016	Mackerel, Spanish	muscle	106	106								M																
		liver	4	4											L													
144-003	Mako, shortfin	muscle	3	3											M													
		liver	2	2											L													
011-002	Marlin, blue	muscle	31	31											M													
		liver	9	9																		L						
011-005	Marlin, striped	muscle	40	40											M													
		liver	8	8												L												
011-003	Marlin, white	muscle	51	51									M															
		liver	6	5														L										
162-012	Mempachi	muscle	20	20							M																	
		liver	1	1																				L				
078-010	Menhaden, Atlantic	muscle	10	10								M																
		whole	98	98											W													
078-008	Menhaden, Gulf	muscle	49	49							M																	
		whole	28	28									W															
		gutted	7	7							G																	
078-009	Menhaden, yellowfin	whole	12	12											W													
206-001	Milkfish	muscle	40	40						M																		

Table 4.11. Distribution of Mean Selenium Levels in the Resource Survey; by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Selenium Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
094-010	Mojarra, yellowfin	muscle	10	10					M																		
098-003	Mullet, silver (white)	muscle	36	36				M																			
098-002	Mullet, striped	muscle	153	148				M																			
		liver	4	4												L											
079-030	Palometa	muscle	2	2							M																
131-023	Perch, ocean (Pacific)	muscle	27	27										M													
		liver	16	16												L											
131-052	Perch, ocean (redfish)	muscle	80	80									M														
		liver	1	1									L														
006-010	Perch, sand	muscle	1	1						M																	
168-005	Perch, shiner	whole	2	2						W																	
045-003	Perch, silver	muscle	17	17						M																	
007-001	Perch, white	muscle	26	26								M															
		h & g	18	18											H												
079-029	Permit	muscle	9	9							M																
073-017	Pigfish	muscle	33	33						M																	
114-013	Pinfish, spottail	muscle	10	10								M															
		liver	-	-																							
059-008	Plaice, American (dab)	muscle	67	67						M																	
		whole	1	1				W																			
033-017	Pollock	muscle	72	72						M																	
		liver	27	27										L													
033-019	Pollock, walleye (Alaska)	muscle	48	47				M																			
		liver	3	3									L														
079-028	Pompano, Florida	muscle	61	61							M																
		liver	4	4											L												
114-014	Porgy, red	muscle	22	22						M																	
		liver	1	1												L											
056-018	Pout, ocean	muscle	32	32							M																
		liver	2	2											L												
131-061	Rockfish, bocaccio	muscle	45	45							M																
		liver	2	2											L												
131-063	Rockfish, canary	muscle	41	41									M														
		liver	1	1											L												
131-031	Rockfish, copper	muscle	9	9								M															
131-043	Rockfish, yellowtail	muscle	20	20										M													
079-004	Runner, blue	muscle	55	55									M														
		liver	3	3												L											
126-001	Sablefish	muscle	98	96					M																		
		liver	9	9											L												
011-001	Sailfish	muscle	43	43									M														
		liver	2	2											L												
179-020	Salmon, chinook, (king)	muscle	104	103					M																		
		liver	18	18											L												
179-017	Salmon, chum (keta)	muscle	52	52					M																		
		liver	5	5													L										
179-018	Salmon, coho (silver)	muscle	68	66					M																		
		liver	7	7											L												
179-016	Salmon, pink	muscle	29	28					M																		
		liver	3	3											L												
179-019	Salmon, sockeye (red)	muscle	58	58					M																		
		liver	4	4															L								
079-013	Scad, round	h & g	2	2									H														
006-041	Scamp	muscle	10	10							M																
		liver	1	1													L										
132-031	Sculpin, longhorn	muscle	1	1											M												
114-016	Scup	muscle	72	72							M																
135-010	Searobin, northern	muscle	77	77					M																		
135-011	Searobin, striped	muscle	10	10						M																	
045-012	Seatrout, gray (weakfish)	muscle	71	71						M																	
		liver	2	2											L												
		whole	10	10								W															
045-007	Seatrout, sand	muscle	18	18								M															
045-010	Seatrout, silver (white)	muscle	43	43								M															
		liver	1	1											L												
045-008	Seatrout, spotted (speckled)	muscle	87	87							M																
		liver	3	3											L												
078-006	Shad, American	muscle	59	59					M																		
145-025	Shark, Atlantic, sharpnose	muscle	1	1											M												
145-006	Shark, blacktip	muscle	16	16										M													
		liver	4	4																		L					

Table 4.11. Distribution of Mean Selenium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Selenium Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	12	12				M																				
		liver	7	7											L													
145-010	Shark, dusky	muscle	3	3											M													
145-009	Shark, sandbar	muscle	11	11								M																
		liver	7	7												L												
144-001	Shark, white	muscle	1	1							M																	
114-001	Sheepshead	muscle	59	59							M																	
		liver	2	2											L													
150-005	Skate, little	muscle	52	52							M																	
		liver	2	2											L													
150-012	Skate, winter	muscle	2	2						M																		
		liver	1	1											L													
155-005	Snapper, blackfin	muscle	11	11								M																
155-025	Snapper, gray	muscle	40	40									M															
155-008	Snapper, gray (mangrove)	muscle	26	26					M																			
155-006	Snapper, red	muscle	33	33								M																
155-024	Snapper, red (ehu)	muscle	39	39								M																
155-015	Snapper, vermilion	muscle	35	34										M														
		liver	2	2												L												
155-013	Snapper, yellowtail	muscle	42	42									M															
157-004	Snook	muscle	12	12							M																	
059-021	Sole, Dover	muscle	65	65											M													
		liver	3	3												L												
059-022	Sole, English	muscle	70	70									M															
		liver	5	5												L												
059-004	Sole, petrale	muscle	53	53							M																	
		liver	6	6											L													
059-006	Sole, rex	muscle	57	57											M													
059-014	Sole, rock	muscle	9	8											M													
011-004	Spearfish, shortbill	muscle	15	15								M																
		liver	4	4													L											
045-020	Spot	muscle	53	53							M																	
166-003	Sturgeon, green	muscle	10	10							M																	
168-001	Surfperch, barred	muscle	20	20					M																			
200-003	Tarpon	muscle	12	12						M																		
		liver	2	2													L											
185-022	Tautog	muscle	14	14						M																		
174-003	Tilefish	muscle	59	59											M													
179-028	Trout, cutthroat	muscle	2	2			M																					
179-029	Trout, rainbow (steelhead)	muscle	9	9				M																				
		liver	–	–																								
091-019	Tuna, albacore	muscle	40	40											M													
		liver	5	5																			L					
091-022	Tuna, bigeye	muscle	35	35											M													
		liver	16	16																				L				
091-021	Tuna, blackfin	muscle	1	1									M															
091-023	Tuna, bluefin	muscle	11	11											M													
		liver	1	1												L												
091-008	Tuna, skipjack	muscle	67	67											M													
		liver	1	1																		L						
091-020	Tuna, yellowfin	muscle	76	76											M													
		liver	21	21																			L					
091-006	Tunny, little	muscle	48	48											M													
		liver	2	2													L											
091-001	Wahoo	muscle	18	18											M													
		liver	2	2													L											
183-002	Wolffish, Atlantic	muscle	60	59									M															
		liver	14	14												L												
079-023	Yellowtail	muscle	24	24						M																		
	Mollusca																											
187-005	Abalone, green	shucked	10	9		S																						
187-008	Abalone, red	shucked	9	7				S																				
191-003	Clam, butter	shucked	28	28					S																			
191-001	Clam, hard (quahog)	shucked	136	136					S																			
191-008	Clam, Pacific littleneck	shucked	1	1					S																			
243-002	Clam, razor	shucked	38	38					S																			
242-001	Clam, soft	shucked	19	19									S															
244-005	Clam, surf	shucked	23	23				S																				
205-001	Octopus (marmuratus)	whole	4	4								W																
		mantle	36	36					N																			

Table 4.11. Distribution of Mean Selenium Levels in the Resources Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Selenium Content, ppm[2]																					
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																										
189-001	Oyster, eastern	shucked	145	144								S															
189-002	Oyster, Pacific (giant)	shucked	69	69								S															
190-014	Scallop, Atlantic bay	adductor muscle	19	19				A																			
190-016	Scallop, calico	shucked	10	9				S																			
		adductor muscle	20	20					A																		
190-028	Scallop, pink	adductor muscle	5	5			A																				
190-013	Scallop, sea (smooth)	adductor muscle	11	11				A																			
188-003	Squid, Atlantic longfinned	whole	22	22									W														
		mantle	109	109						N																	
188-006	Squid, Pacific	whole	50	50						W																	
188-014	Squid, shortfinned	mantle	90	90						N																	
	Crustacea																										
196-001	Crab, blue	body meat	30	30							B																
		claw meat	5	5								C															
		claw & body meat	50	50								D															
196-011	Crab, dungeness	meat, unk.	38	38						U																	
		claw & body meat	7	7										D													
196-012	Crab, king	meat, unk.	20	20				U																			
		claw & body meat	9	9					D																		
196-006	Crab, red, deep sea	meat, unk.	25	25											U												
196-003	Crab, rock	meat, unk.	15	15											U												
196-035	Crab, tanner (bairdi)	meat, unk.	50	50							U																
194-012	Lobster, northern (American)	body meat	2	2									B														
		claw meat	2	2						C																	
		tail meat	2	2										T													
		leg meat	1	1							F																
		claw & tail meat	73	73									K														
194-002	Lobster, spiny (Atlantic)	tail meat	38	37			T																				
194-003	Lobster, spiny (Pacific)	tail meat	4	4				T																			
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17				P																			
192-005	Shrimp, brown	tail, peeled	49	49							P																
192-007	Shrimp, ocean	tail, peeled	10	10				P																			
192-010	Shrimp, pink	tail, peeled	48	48						P																	
192-011	Shrimp, pink (northern)	tail, peeled	64	64					P																		
192-003	Shrimp, royal red	tail, peeled	12	12								P															
192-004	Shrimp, white	tail, peeled	76	75							P																

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.12. Distribution of Mean Silver Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Silver Content, ppm[2]																							
					<0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	40	M																							
		whole	4	4	W																							
001-016	Anchovy, northern	whole	40	39		W																						
001-006	Anchovy, striped	h & g	40	39		H																						
002-002	Argentine, Atlantic	h & g	7	7	H																							
062-014	Ballyhoo	whole	58	58		W																						
005-002	Barracuda, Atlantic	muscle	7	7	M																							
005-001	Barracuda, Pacific	muscle	20	15	M																							
006-006	Bass, black sea	muscle	55	37	M																							
		liver	2	2	L																							
007-004	Bass, striped	muscle	117	82	M																							
		liver	3	3	L																							
012-001	Bluefish	muscle	73	48	M																							
		liver	4	3	L																							
091-011	Bonito, Atlantic	muscle	15	14	M																							
091-009	Bonito, Pacific	muscle	40	33	M																							
		liver	1	1	L																							
021-007	Bullhead, brown	muscle	4	3	M																							
018-014	Butterfish	muscle	71	64	M																							
		whole	17	17	W																							
		h & g	1	1		H																						
021-010	Catfish, channel	muscle	20	10	M																							
023-002	Catfish, gafftopsail	muscle	34	24	M																							
		liver	3	2	L																							
023-001	Catfish, sea	muscle	47	37	M																							
		liver	6	6	L																							
021-002	Catfish, white	muscle	1	1	M																							
033-008	Cod, Atlantic	muscle	114	101	M																							
		liver	36	35		L																						
033-007	Cod, Pacific (gray)	muscle	59	34	M																							
		liver	16	15		L																						
045-026	Croaker, Atlantic	muscle	92	76	M																							
033-004	Cusk	muscle	76	75		M																						
		liver	17	12		L																						
037-004	Cusk-eel, fawn	muscle	2	2		M																						
145-018	Dogfish, smooth	muscle	94	87		M																						
141-007	Dogfish, spiny	muscle	115	85		M																						
		liver	29	24		L																						
041-002	Dolphin	muscle	63	50		M																						
		liver	28	24		L																						
045-019	Drum, banded	muscle	5	4		M																						
045-028	Drum, black	muscle	61	50		M																						
		liver	2	2		L																						
045-030	Drum, red	muscle	73	51		M																						
		liver	3	3		L																						
051-001	Eel, American	muscle	30	26		M																						
047-002	Eel, conger	muscle	1	1		M																						
153-009	Eulachon	whole	33	27		W																						
058-028	Flounder, fourspot	muscle	71	66		M																						
058-024	Flounder, Gulf	muscle	41	33		M																						
		liver	1	1		L																						
058-027	Flounder, southern	muscle	42	36		M																						
		liver	2	2		L																						
058-026	Flounder, summer (fluke)	muscle	42	29		M																						
		liver	2	2		L																						
058-030	Flounder, windowpane (s.dab)	muscle	18	16		M																						
059-030	Flounder, winter	muscle	122	109		M																						
		liver	2	2		L																						
059-005	Flounder, witch	muscle	71	48		M																						
059-016	Flounder, yellowtail	muscle	89	75		M																						
		liver	2	0		L																						
006-040	Gag	muscle	30	25		M																						
066-009	Goatfish	muscle	40	39		M																						
068-001	Goosefish	muscle	81	74		M																						
		liver	10	7		L																						
		h & g	1	1		H																						
006-037	Grouper, black	muscle	34	28		M																						
006-017	Grouper, red	muscle	41	38		M																						
006-038	Grouper, yellowmouth	muscle	10	5		M																						
		liver	1	1		L																						
073-015	Grunt, bluestriped (yellow)	muscle	16	16		M																						

Table 4.12. Distribution of Mean Silver Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Silver Content, ppm[2]																								
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																												
073-014	Grunt, white	muscle	17	16	M																								
033-011	Haddock	muscle	77	67	M																								
		liver	18	16	L																								
		whole	1	0	W																								
033-013	Hake, Pacific	muscle	49	28	M																								
		liver	1	1	L																								
033-020	Hake, red	muscle	65	62	M																								
033-012	Hake, silver (whiting)	muscle	83	75	M																								
		liver	3	2	L																								
033-024	Hake, spotted	muscle	65	64	M																								
033-025	Hake, white	muscle	70	59	M																								
		liver	31	21	L																								
059-011	Halibut, Pacific	muscle	37	25	M																								
		liver	16	11	L																								
143-001	Hammerhead, scalloped	muscle	12	12	M																								
143-005	Hammerhead, smooth	muscle	10	7	M																								
		liver	7	3	L																								
018-011	Harvestfish	muscle	3	1	M																								
		whole	16	16	W																								
078-011	Herring, Atlantic	muscle	24	24	M																								
		whole	63	63	W																								
		headed	6	6	E																								
		h & g	2	2	H																								
078-001	Herring, blueback	whole	1	1	W																								
078-012	Herring, Pacific	muscle	14	8	M																								
		whole	30	29	W																								
078-015	Herring, round	h & g	50	50	H																								
006-013	Hind, speckled	muscle	20	15	M																								
		liver	7	7	L																								
079-068	Jack, (mackerel scad)	muscle	40	36	M																								
079-053	Jack. akule	muscle	38	28	M																								
079-005	Jack, crevalle	muscle	48	32	M																								
		liver	4	4	L																								
079-069	Jack, crevalle (Hawaii)	muscle	40	38	M																								
149-004	Jacksmelt	whole	20	20	W																								
006-016	Jewfish	muscle	8	6	M																								
045-024	Kingfish, northern	muscle	6	5	M																								
045-021	Kingfish, southern	muscle	14	12	M																								
		liver	1	1	L																								
200-002	Ladyfish	muscle	2	1	M																								
071-005	Lingcod	muscle	78	57	M																								
		liver	12	12	L																								
091-013	Mackerel, Atlantic	muscle	80	77	M																								
091-012	Mackerel, chub	muscle	30	30	M																								
079-034	Mackerel, jack	muscle	10	7	M																								
		liver	1	1	L																								
		headed	4	4		H																							
091-014	Mackerel, king	muscle	107	79	M																								
		liver	10	8	L																								
		milt	1	1	Q																								
		roe	11	11	R																								
091-016	Mackerel, Spanish	muscle	109	77	M																								
		liver	4	3	L																								
144-003	Mako, shortfin	muscle	3	3	M																								
		liver	2	2	L																								
011-002	Marlin, blue	muscle	33	21	M																								
		liver	11	10	L																								
011-005	Marlin, striped	muscle	40	36	M																								
		liver	9	9	L																								
011-003	Marlin, white	muscle	54	36	M																								
		liver	10	8	L																								
162-012	Mempachi	muscle	20	13	M																								
		liver	1	1	L																								
078-010	Menhaden, Atlantic	muscle	10	10	M																								
		whole	101	101		W																							
078-008	Menhaden, Gulf	muscle	50	45	M																								
		whole	28	27		W																							
		gutted	9	9			G																						
078-009	Menhaden, yellowfin	whole	13	13		W																							
206-001	Milkfish	muscle	40	24	M																								

Table 4.12. Distribution of Mean Silver Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Silver Content, ppm[2]																							
					<0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	8	M																							
098-003	Mullet, silver (white)	muscle	36	34	M																							
098-002	Mullet, striped	muscle	158	136	M																							
		liver	4	4					L																			
079-030	Palometa	muscle	2	0	M																							
131-023	Perch, ocean (Pacific)	muscle	30	16	M																							
		liver	18	7	L																							
131-052	Perch, ocean (redfish)	muscle	80	65	M																							
		liver	2	1			L																					
006-010	Perch, sand	muscle	1	1		M																						
168-005	Perch, shiner	whole	2	2		W																						
045-003	Perch, silver	muscle	20	16	M																							
007-001	Perch, white	muscle	27	26	M																							
		h & g	19	19		H																						
079-029	Permit	muscle	9	7	M																							
073-017	Pigfish	muscle	34	29	M																							
114-013	Pinfish, spottail	muscle	10	10	M																							
		liver	1	1	L																							
059-008	Plaice, American (dab)	muscle	67	52	M																							
		whole	1	1	W																							
033-017	Pollock	muscle	73	62	M																							
		liver	33	16	L																							
033-019	Pollock, walleye (Alaska)	muscle	48	42	M																							
		liver	3	3	L																							
079-028	Pompano, Florida	muscle	60	52	M																							
		liver	4	4		L																						
114-014	Porgy, red	muscle	22	19	M																							
		liver	1	1	L																							
056-018	Pout, ocean	muscle	34	33	M																							
		liver	3	3	L																							
131-061	Rockfish, bocaccio	muscle	48	31	M																							
		liver	4	3	L																							
131-063	Rockfish, canary	muscle	44	22	M																							
		liver	1	0	L																							
131-031	Rockfish, copper	muscle	10	10	M																							
131-043	Rockfish, yellowtail	muscle	20	5	M																							
079-004	Runner, blue	muscle	56	48	M																							
		liver	4	3	L																							
126-001	Sablefish	muscle	103	61	M																							
		liver	14	10	L																							
011-001	Sailfish	muscle	42	33	M																							
		liver	3	3	L																							
179-020	Salmon, chinook, (king)	muscle	110	94	M																							
		liver	22	18	L																							
179-017	Salmon, chum (keta)	muscle	57	44	M																							
		liver	5	5				L																				
179-018	Salmon, coho (silver)	muscle	68	54	M																							
		liver	7	6	L																							
179-016	Salmon, pink	muscle	27	23	M																							
		liver	3	2	L																							
179-019	Salmon, sockeye (red)	muscle	62	42	M																							
		liver	4	4			L																					
079-013	Scad, round	h & g	3	3	H																							
006-041	Scamp	muscle	10	10	M																							
		liver	1	1		L																						
132-031	Sculpin, longhorn	muscle	1	1	M																							
114-016	Scup	muscle	72	63	M																							
135-010	Searobin, northern	muscle	77	75	M																							
135-011	Searobin, striped	muscle	10	10	M																							
045-012	Seatrout, gray (weakfish)	muscle	72	59	M																							
		liver	3	3	L																							
		whole	10	10		W																						
045-007	Seatrout, sand	muscle	18	14	M																							
045-010	Seatrout, silver (white)	muscle	44	34	M																							
		liver	1	1	L																							
045-008	Seatrout, spotted (speckled)	muscle	89	64	M																							
		liver	3	2	L																							
078-006	Shad, American	muscle	60	55	M																							
145-025	Shark, Atlantic, sharpnose	muscle	1	1	M																							
145-006	Shark, blacktip	muscle	16	15	M																							
		liver	4	3	L																							

Table 4.12. Distribution of Silver Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Silver Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	13	M																							
		liver	9	7	L																							
145-010	Shark, dusky	muscle	4	3	M																							
145-009	Shark, sandbar	muscle	13	11	M																							
		liver	7	4	L																							
144-001	Shark, white	muscle	2	2	M																							
114-001	Sheepshead	muscle	60	53	M																							
		liver	2	2		L																						
150-005	Skate, little	muscle	54	54	M																							
		liver	2	2	L																							
150-012	Skate, winter	muscle	2	1	M																							
		liver	1	1		L																						
155-005	Snapper, blackfin	muscle	13	12	M																							
155-025	Snapper, gray	muscle	40	38	M																							
155-008	Snapper, gray (mangrove)	muscle	28	25	M																							
155-006	Snapper, red	muscle	38	28	M																							
155-024	Snapper, red (ehu)	muscle	40	36	M																							
155-015	Snapper, vermilion	muscle	36	22	M																							
		liver	2	2	L																							
155-013	Snapper, yellowtail	muscle	43	40	M																							
157-004	Snook	muscle	12	12	M																							
059-021	Sole, Dover	muscle	70	39	M																							
		liver	4	3	L																							
059-022	Sole, English	muscle	73	46	M																							
		liver	5	5		L																						
059-004	Sole, petrale	muscle	57	38	M																							
		liver	7	3	L																							
059-006	Sole, rex	muscle	61	33	M																							
059-014	Sole, rock	muscle	10	10	M																							
011-004	Spearfish, shortbill	muscle	15	14	M																							
		liver	4	4	L																							
045-020	Spot	muscle	54	40	M																							
166-003	Sturgeon, green	muscle	10	7	M																							
168-001	Surfperch, barred	muscle	20	20	M																							
200-003	Tarpon	muscle	12	9	M																							
		liver	2	2				L																				
185-022	Tautog	muscle	14	14	M																							
174-003	Tilefish	muscle	60	45	M																							
179-028	Trout, cutthroat	muscle	3	3	M																							
179-029	Trout, rainbow (steelhead)	muscle	9	9	M																							
		liver	1	1						L																		
091-019	Tuna, albacore	muscle	40	29	M																							
		liver	5	4		L																						
091-022	Tuna, bigeye	muscle	40	29	M																							
		liver	21	19	L																							
091-021	Tuna, blackfin	muscle	1	1	M																							
091-023	Tuna, bluefin	muscle	11	8	M																							
		liver	1	1			L																					
091-008	Tuna, skipjack	muscle	69	55	M																							
		liver	8	6	L																							
091-020	Tuna, yellowfin	muscle	80	65	M																							
		liver	26	25	L																							
091-006	Tunny, little	muscle	50	43	M																							
		liver	2	2			L																					
091-001	Wahoo	muscle	18	14	M																							
		liver	3	3	L																							
183-002	Wolffish, Atlantic	muscle	60	56	M																							
		liver	15	15		L																						
079-023	Yellowtail	muscle	23	21	M																							
	Mollusca																											
187-005	Abalone, green	shucked	10	10							S																	
187-008	Abalone, red	shucked	10	9		S																						
191-003	Clam, butter	shucked	29	29				S																				
191-001	Clam, hard (quahog)	shucked	140	140			S																					
191-008	Clam, Pacific littleneck	shucked	1	1		S																						
243-002	Clam, razor	shucked	39	31	S																							
242-001	Clam, soft	shucked	19	19	S																							
244-005	Clam, surf	shucked	23	23	S																							
205-001	Octopus (marmuratus)	whole	4	4				W																				
		mantle	36	36		N																						

Table 4.12 Distribution of Silver Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Silver Content, ppm[2]																											
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																															
189-001	Oyster, eastern	shucked	151	150				S																								
189-002	Oyster, Pacific (giant)	shucked	70	68			S																									
190-014	Scallop, Atlantic bay	adductor muscle	20	20	A																											
190-016	Scallop, calico	shucked	10	9		S																										
		adductor muscle	20	14	A																											
190-028	Scallop, pink	adductor muscle	5	5	A																											
190-013	Scallop, sea (smooth)	adductor muscle	11	11	A																											
186-003	Squid, Atlantic longfinned	whole	23	23		W																										
		mantle	110	109	N																											
188-006	Squid, Pacific	whole	50	50	W																											
188-014	Squid, shortfinned	mantle	92	92	N																											
	Crustacea																															
196-001	Crab, blue	body meat	35	35		B																										
		claw meat	5	5		C																										
		claw & body meat	54	54				D																								
196-011	Crab, dungeness	meat, unk.	42	40		U																										
		claw & body meat	7	7					D																							
196-012	Crab, king	meat, unk.	20	20	U																											
		claw & body meat	9	9	D																											
196-006	Crab, red, deep sea	meat, unk.	24	24		U																										
196-003	Crab, rock	meat, unk.	15	15				U																								
196-035	Crab, tanner (bairdi)	meat, unk.	50	46		U																										
194-012	Lobster, northern (American)	body meat	2	2		B																										
		claw meat	2	2								C																				
		tail meat	2	2			T																									
		leg meat	2	2									F																			
		claw & tail meat	80	80					K																							
194-002	Lobster, spiny (Atlantic)	tail meat	40	32	T																											
194-003	Lobster, spiny (Pacific)	tail meat	5	5	T																											
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17	P																											
192-005	Shrimp, brown	tail, peeled	53	44	P																											
192-007	Shrimp, ocean	tail, peeled	10	9		P																										
192-010	Shrimp, pink	tail, peeled	50	44	P																											
192-011	Shrimp, pink (northern)	tail, peeled	64	64		P																										
192-003	Shrimp, royal red	tail, peeled	12	12	P																											
192-004	Shrimp, white	tail, peeled	77	61	P																											

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.13. Distribution of Mean Tin Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Tin Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
078-005	Alewife	muscle	42	42							M																
		whole	4	4											W												
001-016	Anchovy, northern	whole	39	39											W												
001-006	Anchovy, striped	h & g	40	40										H													
002-002	Argentine, Atlantic	h & g	7	7											H												
062-014	Ballyhoo	whole	57	57											W												
005-002	Barracuda, Atlantic	muscle	7	7						M																	
005-001	Barracuda, Pacific	muscle	19	19									M														
006-006	Bass, black sea	muscle	54	54						M																	
		liver	2	2										L													
007-004	Bass, striped	muscle	114	114					M																		
		liver	3	3							L																
012-001	Bluefish	muscle	73	73						M																	
		liver	4	4											L												
091-011	Bonito, Atlantic	muscle	15	15						M																	
091-009	Bonito, Pacific	muscle	39	39							M																
		liver	1	1											L												
021-007	Bullhead, brown	muscle	4	4				M																			
018-014	Butterfish	muscle	71	71							M																
		whole	17	17									W														
		h & g	1	1										H													
021-010	Catfish, channel	muscle	20	20						M																	
023-002	Catfish, gafftopsail	muscle	33	33						M																	
		liver	3	3							L																
023-001	Catfish, sea	muscle	45	45						M																	
		liver	6	6				L																			
021-002	Catfish, white	muscle	1	1			M																				
033-008	Cod, Atlantic	muscle	111	110						M																	
		liver	35	33				L																			
033-007	Cod, Pacific (gray)	muscle	55	55						M																	
		liver	16	15				L																			
045-026	Croaker, Atlantic	muscle	87	87						M																	
033-004	Cusk	muscle	74	74					M																		
		liver	18	16			L																				
037-004	Cusk-eel, fawn	muscle	2	2											M												
145-018	Dogfish, smooth	muscle	90	90						M																	
141-007	Dogfish, spiny	muscle	109	109									M														
		liver	28	24				L																			
041-002	Dolphin	muscle	60	60					M																		
		liver	26	26						L																	
045-019	Drum, banded	muscle	5	5							M																
045-028	Drum, black	muscle	60	60						M																	
		liver	2	2						L																	
045-030	Drum, red	muscle	69	69						M																	
		liver	3	3						L																	
051-001	Eel, American	muscle	28	28						M																	
047-002	Eel, conger	muscle	1	1				M																			
153-009	Eulachon	whole	33	33											W												
058-028	Flounder, fourspot	muscle	69	69						M																	
058-024	Flounder, Gulf	muscle	41	41					M																		
		liver	1	1				L																			
058-027	Flounder, southern	muscle	42	42						M																	
		liver	2	2								L															
058-026	Flounder, summer (fluke)	muscle	42	42					M																		
		liver	2	2						L																	
058-030	Flounder, windowpane (s.dab)	muscle	17	17					M																		
059-030	Flounder, winter	muscle	123	123						M																	
		liver	2	2			L																				
059-005	Flounder, witch	muscle	71	68				M																			
059-016	Flounder, yellowtail	muscle	88	88						M																	
		liver	2	2					L																		
006-040	Gag	muscle	30	30					M																		
066-009	Goatfish	muscle	38	38						M																	
068-001	Goosefish	muscle	78	77						M																	
		liver	9	8				L																			
		h & g	1	1					H																		
006-037	Grouper, black	muscle	33	33						M																	
006-017	Grouper, red	muscle	40	40						M																	
006-038	Grouper, yellowmouth	muscle	9	9										M													
		liver	1	0	L																						
073-015	Grunt, bluestriped (yellow)	muscle	16	16						M																	

Table 4.13. Distribution of Mean Tin Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Tin Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
073-014	Grunt, white	muscle	17	17							M																
033-011	Haddock	muscle	76	76					M																		
		liver	17	16				L																			
		whole	1	1				W																			
033-013	Hake, Pacific	muscle	47	47						M																	
		liver	1	1				L																			
033-020	Hake, red	muscle	65	65						M																	
033-012	Hake, silver (whiting)	muscle	82	81						M																	
		liver	3	3				L																			
033-024	Hake, spotted	muscle	63	63						M																	
033-025	Hake, white	muscle	70	70					M																		
		liver	31	26			L																				
059-011	Halibut, Pacific	muscle	36	36							M																
		liver	14	14					L																		
143-001	Hammerhead, scalloped	muscle	12	12						M																	
143-005	Hammerhead, smooth	muscle	9	9					M																		
		liver	6	6			L																				
018-011	Harvestfish	muscle	3	3					M																		
		whole	16	16											W												
078-011	Herring, Atlantic	muscle	23	23							M																
		whole	63	63											W												
		headed	6	6											E												
		h & g	2	2											H												
078-001	Herring, blueback	whole	1	1						W																	
078-012	Herring, Pacific	muscle	14	14								M															
		whole	30	30												W											
078-015	Herring, round	h & g	50	50											H												
006-013	Hind, speckled	muscle	18	17					M																		
		liver	7	7				L																			
079-068	Jack, (mackerel scad)	muscle	38	38						M																	
079-053	Jack, akule	muscle	38	38					M																		
079-005	Jack, crevalle	muscle	47	47						M																	
		liver	4	4				L																			
079-069	Jack, crevalle (Hawaii)	muscle	36	36							M																
149-004	Jacksmelt	whole	19	19																	W						
006-016	Jewfish	muscle	8	8					M																		
045-024	Kingfish, northern	muscle	5	5						M																	
045-021	Kingfish, southern	muscle	13	13						M																	
		liver	1	1							L																
200-002	Ladyfish	muscle	2	2			M																				
071-005	Lingcod	muscle	75	75						M																	
		liver	11	11						L																	
091-013	Mackerel, Atlantic	muscle	79	79						M																	
091-012	Mackerel, chub	muscle	28	28						M																	
079-034	Mackerel, jack	muscle	10	10					M																		
		liver	1	1			L																				
		headed	3	3											H												
091-014	Mackerel, king	muscle	103	103						M																	
		liver	10	10						L																	
		milt	1	1										O													
		roe	11	11						R																	
091-016	Mackerel, Spanish	muscle	107	107						M																	
		liver	4	4						L																	
144-003	Mako, shortfin	muscle	3	3						M																	
		liver	2	2				L																			
011-002	Marlin, blue	muscle	32	30					M																		
		liver	9	9							L																
011-005	Marlin, striped	muscle	39	39						M																	
		liver	8	8							L																
011-003	Marlin, white	muscle	49	49					M																		
		liver	8	8								L															
162-012	Mempachi	muscle	17	17						M																	
		liver	1	1					L																		
078-010	Menhaden, Atlantic	muscle	10	10						M																	
		whole	100	100											W												
078-008	Menhaden, Gulf	muscle	49	49								M															
		whole	27	27											W												
		gutted	9	9											G												
078-009	Menhaden, yellowfin	whole	13	13											W												
206-001	Milkfish	muscle	38	38								M															

Table 4.13. Distribution of Mean Tin Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Tin Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
094-010	Mojarra, yellowfin	muscle	10	10						M																	
098-003	Mullet, silver (white)	muscle	35	35						M																	
098-002	Mullet, striped	muscle	152	152						M																	
		liver	5	5									L														
079-030	Palometa	muscle	2	2				M																			
131-023	Perch, ocean (Pacific)	muscle	30	30						M																	
		liver	15	15				L																			
131-052	Perch, ocean (redfish)	muscle	80	80					M																		
		liver	2	2							L																
006-010	Perch, sand	muscle	1	1					M																		
168-005	Perch, shiner	whole	2	2														W									
045-003	Perch, silver	muscle	20	20							M																
007-001	Perch, white	muscle	26	26								M															
		h & g	18	18											H												
079-029	Permit	muscle	9	9					M																		
073-017	Pigfish	muscle	31	31							M																
114-013	Pinfish, spottail	muscle	10	10							M																
		liver	1	1						L																	
059-008	Plaice, American (dab)	muscle	67	66					M																		
		whole	1	1											W												
033-017	Pollock	muscle	72	72						M																	
		liver	33	31			L																				
033-019	Pollock, walleye (Alaska)	muscle	46	46								M															
		liver	3	3						L																	
079-028	Pompano, Florida	muscle	56	56						M																	
		liver	4	4								L															
114-014	Porgy, red	muscle	22	22							M																
		liver	1	1										L													
056-018	Pout, ocean	muscle	33	33						M																	
		liver	3	3										L													
131-061	Rockfish, bocaccio	muscle	48	48								M															
		liver	4	4						L																	
131-063	Rockfish, canary	muscle	43	43											M												
		liver	1	1				L																			
131-031	Rockfish, copper	muscle	10	10						M																	
131-043	Rockfish, yellowtail	muscle	20	20						M																	
079-004	Runner, blue	muscle	55	54						M																	
		liver	4	4					L																		
126-001	Sablefish	muscle	98	98						M																	
		liver	14	14					L																		
011-001	Sailfish	muscle	38	38					M																		
		liver	1	1							L																
179-020	Salmon, chinook, (king)	muscle	106	105						M																	
		liver	20	18						L																	
179-017	Salmon, chum (keta)	muscle	55	55							M																
		liver	5	5						L																	
179-018	Salmon, coho (silver)	muscle	65	65						M																	
		liver	7	7					L																		
179-016	Salmon, pink	muscle	25	25							M																
		liver	3	3							L																
179-019	Salmon, sockeye (red)	muscle	60	60							M																
		liver	4	4							L																
079-013	Scad, round	h & g	3	3											H												
006-041	Scamp	muscle	10	10					M																		
		liver	1	1			L																				
132-031	Sculpin, longhorn	muscle	1	1				M																			
114-016	Scup	muscle	69	69							M																
135-010	Searobin, northern	muscle	77	77							M																
135-011	Searobin, striped	muscle	10	10						M																	
045-012	Seatrout, gray (weakfish)	muscle	72	72						M																	
		liver	3	3				L																			
		whole	10	10											W												
045-007	Seatrout, sand	muscle	18	18							M																
045-010	Seatrout, silver (white)	muscle	35	35							M																
		liver	1	1										L													
045-008	Seatrout, spotted (speckled)	muscle	86	86						M																	
		liver	2	2							L																
078-006	Shad, American	muscle	59	58						M																	
145-025	Shark, Atlantic, sharpnose	muscle	1	1								M															
145-006	Shark, blacktip	muscle	15	14					M																		
		liver	4	4					L																		

Table 4.13. Distribution of Mean Tin Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1/]	Total # Samples	# samples in mean	< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
145-023	Shark, blue	muscle	14	14							M																	
		liver	9	9			L																					
145-010	Shark, dusky	muscle	4	4				M																				
145-009	Shark, sandbar	muscle	13	13							M																	
		liver	6	6				L																				
144-001	Shark, white	muscle	1	1					M																			
114-001	Sheepshead	muscle	58	58						M																		
		liver	2	2							L																	
150-005	Skate, little	muscle	52	52									M															
		liver	2	2					L																			
150-012	Skate, winter	muscle	2	2								M																
		liver	1	1				L																				
155-005	Snapper, blackfin	muscle	12	12							M																	
155-025	Snapper, gray	muscle	38	38						M																		
155-008	Snapper, gray (mangrove)	muscle	26	26					M																			
155-006	Snapper, red	muscle	38	38						M																		
155-024	Snapper, red (ehu)	muscle	37	37							M																	
155-015	Snapper, vermilion	muscle	34	34						M																		
		liver	2	2									L															
155-013	Snapper, yellowtail	muscle	41	41						M																		
157-004	Snook	muscle	12	12					M																			
059-021	Sole, Dover	muscle	66	66						M																		
		liver	4	4						L																		
059-022	Sole, English	muscle	70	70								M																
		liver	5	5								L																
059-004	Sole, petrale	muscle	56	56						M																		
		liver	7	7				L																				
059-006	Sole, rex	muscle	58	58						M																		
059-014	Sole, rock	muscle	10	10						M																		
011-004	Spearfish, shortbill	muscle	14	14						M																		
		liver	4	4										L														
045-020	Spot	muscle	54	54						M																		
166-003	Sturgeon, green	muscle	10	10					M																			
168-001	Surfperch, barred	muscle	20	20											M													
200-003	Tarpon	muscle	12	12						M																		
		liver	2	2								L																
185-022	Tautog	muscle	14	14						M																		
174-003	Tilefish	muscle	60	60					M																			
179-028	Trout, cutthroat	muscle	3	3					M																			
179-029	Trout, rainbow (steelhead)	muscle	9	9						M																		
		liver	1	1								L																
091-019	Tuna, albacore	muscle	39	39					M																			
		liver	4	4								L																
091-022	Tuna, bigeye	muscle	39	39					M																			
		liver	21	21					L																			
091-021	Tuna, blackfin	muscle	1	1					M																			
091-023	Tuna, bluefin	muscle	11	11							M																	
		liver	1	1							L																	
091-008	Tuna, skipjack	muscle	69	69						M																		
		liver	8	8					L																			
091-020	Tuna, yellowfin	muscle	79	79							M																	
		liver	23	23						L																		
091-006	Tunny, little	muscle	46	46					M																			
		liver	2	2							L																	
091-001	Wahoo	muscle	18	18					M																			
		liver	3	3							L																	
183-002	Wolffish, Atlantic	muscle	58	58						M																		
		liver	14	14					L																			
079-023	Yellowtail	muscle	22	22							M																	
	Mollusca																											
187-005	Abalone, green	shucked	10	10											S													
187-008	Abalone, red	shucked	9	9										S														
191-003	Clam, butter	shucked	28	28									S															
191-001	Clam, hard (quahog)	shucked	138	138							S																	
191-008	Clam, Pacific littleneck	shucked	1	1											S													
243-002	Clam, razor	shucked	37	37											S													
242-001	Clam, soft	shucked	19	19						S																		
244-005	Clam, surf	shucked	23	23					S																			
205-001	Octopus (marmuratus)	whole	3	3									W															
		mantle	34	34									N															

Ranges of Mean Tin Content, ppm[2/]

Table 4.13. Distribution of Mean Tin Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1/]	Total # Samples	# samples in mean	Ranges of Mean Tin Content, ppm[2/]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																										
189-001	Oyster, eastern	shucked	149	149						S																	
189-002	Oyster, Pacific (giant)	shucked	70	70								S															
190-014	Scallop, Atlantic bay	adductor muscle	20	20						A																	
190-016	Scallop, calico	shucked	9	9									S														
		adductor muscle	20	20						A																	
190-028	Scallop, pink	adductor muscle	5	5				A																			
190-013	Scallop, sea (smooth)	adductor muscle	10	10					A																		
188-003	Squid, Atlantic longfinned	whole	23	23								W															
		mantle	107	107							N																
188-006	Squid, Pacific	whole	50	50							W																
188-014	Squid, shortfinned	mantle	89	89								N															
	Crustacea																										
196-001	Crab, blue	body meat	33	33									B														
		claw meat	4	4								C															
		claw & body meat	53	53									D														
196-011	Crab, dungeness	meat, unk.	41	41									U														
		claw & body meat	7	7								D															
196-012	Crab, king	meat, unk.	20	20											U												
		claw & body meat	9	9								D															
196-006	Crab, red, deep sea	meat, unk.	25	25								U															
196-003	Crab, rock	meat, unk.	15	15								U															
196-035	Crab, tanner (bairdi)	meat, unk.	43	43							U																
194-012	Lobster, northern (American)	body meat	2	2					B																		
		claw meat	2	2					C																		
		tail meat	2	2								T															
		leg meat	2	2									F														
		claw & tail meat	78	78							K																
194-002	Lobster, spiny (Atlantic)	tail meat	39	39							T																
194-003	Lobster, spiny (Pacific)	tail meat	5	5											T												
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	17										P													
192-005	Shrimp, brown	tail, peeled	50	50							P																
192-007	Shrimp, ocean	tail, peeled	8	8								P															
192-010	Shrimp, pink	tail, peeled	49	49								P															
192-011	Shrimp, pink (northern)	tail, peeled	62	62									P														
192-003	Shrimp, royal red	tail, peeled	12	12									P														
192-004	Shrimp, white	tail, peeled	73	73							P																

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.14. Distribution of Mean Vanadium Levels in the Resource Survey, by Species

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Vanadium Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
078-005	Alewife	muscle	43	11			M																					
		whole	4	3					W																			
001-016	Anchovy, northern	whole	40	40								W																
001-006	Anchovy, striped	h & g	40	39					H																			
002-002	Argentine, Atlantic	h & g	7	3				H																				
062-014	Ballyhoo	whole	56	54							W																	
005-002	Barracuda, Atlantic	muscle	7	0	M																							
005-001	Barracuda, Pacific	muscle	20	1	M																							
006-006	Bass, black sea	muscle	55	16			M																					
		liver	2	2											L													
007-004	Bass, striped	muscle	117	13			M																					
		liver	3	2				L																				
012-001	Bluefish	muscle	72	16				M																				
		liver	4	2									L															
091-011	Bonito, Atlantic	muscle	15	0	M																							
091-009	Bonito, Pacific	muscle	40	10					M																			
		liver	1	1	L																							
021-007	Bullhead, brown	muscle	4	0	M																							
018-014	Butterfish	muscle	71	18			M																					
		whole	17	10							W																	
		h & g	1	1								H																
021-010	Catfish, channel	muscle	20	2						M																		
023-002	Catfish, gafftopsail	muscle	34	9				M																				
		liver	3	3											L													
023-001	Catfish, sea	muscle	47	17				M																				
		liver	6	6												L												
021-002	Catfish, white	muscle	1	1			M																					
033-008	Cod, Atlantic	muscle	114	28			M																					
		liver	36	8			L																					
033-007	Cod, Pacific (gray)	muscle	59	9					M																			
		liver	16	1	L																							
045-026	Croaker, Atlantic	muscle	91	23			M																					
033-004	Cusk	muscle	76	11			M																					
		liver	18	14								L																
037-004	Cusk-eel, fawn	muscle	2	2				M																				
145-018	Dogfish, smooth	muscle	95	15			M																					
141-007	Dogfish, spiny	muscle	114	24					M																			
		liver	29	6			L																					
041-002	Dolphin	muscle	62	15					M																			
		liver	28	5			L																					
045-019	Drum, banded	muscle	5	3		M																						
045-028	Drum, black	muscle	61	7				M																				
		liver	2	1			L																					
045-030	Drum, red	muscle	73	16			M																					
		liver	3	3	L																							
051-001	Eel, American	muscle	30	7					M																			
047-002	Eel, conger	muscle	1	1	M																							
153-009	Eulachon	whole	33	19				W																				
058-028	Flounder, fourspot	muscle	70	9			M																					
058-024	Flounder, Gulf	muscle	41	7			M																					
		liver	1	1	L																							
058-027	Flounder, southern	muscle	42	8				M																				
		liver	2	1							L																	
058-026	Flounder, summer (fluke)	muscle	42	11				M																				
		liver	2	1		L																						
058-030	Flounder, windowpane (s.dab)	muscle	18	2						M																		
059-030	Flounder, winter	muscle	123	25			M																					
		liver	2	2											L													
059-005	Flounder, witch	muscle	71	10			M																					
059-016	Flounder, yellowtail	muscle	89	24			M																					
		liver	2	2			L																					
006-040	Gag	muscle	30	8				M																				
066-009	Goatfish	muscle	40	5		M																						
068-001	Goosefish	muscle	81	11					M																			
		liver	10	4				L																				
		h & g	1	1	H																							
006-037	Grouper, black	muscle	34	10					M																			
006-017	Grouper, red	muscle	41	7			M																					
006-038	Grouper, yellowmouth	muscle	10	3				M																				
		liver	1	1							L																	
073-015	Grunt, bluestriped (yellow)	muscle	16	3					M																			

Table 4.14. Distribution of Mean Vanadium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Vanadium Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																											
073-014	Grunt, white	muscle	17	5			M																					
033-011	Haddock	muscle	77	28			M																					
		liver	18	15											L													
		whole	1	0	W																							
033-013	Hake, Pacific	muscle	47	9					M																			
		liver	1	0	L																							
033-020	Hake, red	muscle	65	17			M																					
033-012	Hake, silver (whiting)	muscle	82	28			M																					
		liver	3	0	L																							
033-024	Hake, spotted	muscle	65	2		M																						
033-025	Hake, white	muscle	70	22			M																					
		liver	31	7			L																					
059-011	Halibut, Pacific	muscle	37	11			M																					
		liver	16	5			L																					
143-001	Hammerhead, scalloped	muscle	12	4							M																	
143-005	Hammerhead, smooth	muscle	10	2							M																	
		liver	7	4					L																			
018-011	Harvestfish	muscle	3	0	M																							
		whole	16	14			W																					
078-011	Herring, Atlantic	muscle	24	7				M																				
		whole	63	56					W																			
		headed	6	4				E																				
		h & g	2	2				H																				
078-001	Herring, blueback	whole	1	1		W																						
078-012	Herring, Pacific	muscle	14	0	M																							
		whole	30	25					W																			
078-015	Herring, round	h & g	50	45					H																			
006-013	Hind, speckled	muscle	20	1				M																				
		liver	7	2			L																					
079-068	Jack, (mackerel scad)	muscle	40	5				M																				
079-053	Jack, akule	muscle	39	11				M																				
079-005	Jack, crevalle	muscle	49	11				M																				
		liver	4	1										L														
079-069	Jack, crevalle (Hawaii)	muscle	40	11			M																					
149-004	Jacksmelt	whole	20	20								W																
006-016	Jewfish	muscle	8	4			M																					
045-024	Kingfish, northern	muscle	6	1				M																				
045-021	Kingfish, southern	muscle	14	2			M																					
		liver	1	0	L																							
200-002	Ladyfish	muscle	2	0	M																							
071-005	Lingcod	muscle	78	18				M																				
		liver	13	7			L																					
091-013	Mackerel, Atlantic	muscle	80	15				M																				
091-012	Mackerel, chub	muscle	30	10					M																			
079-034	Mackerel, jack	muscle	10	4			M																					
		liver	1	1												L												
		headed	4	4		E																						
091-014	Mackerel, king	muscle	107	23			M																					
		liver	10	4			L																					
		milt	1	0	Q																							
		roe	11	2	R																							
091-016	Mackerel, Spanish	muscle	109	28						M																		
		liver	4	1		L																						
144-003	Mako, shortfin	muscle	3	1		M																						
		liver	2	0	L																							
011-002	Marlin, blue	muscle	33	6					M																			
		liver	11	4				L																				
011-005	Marlin, striped	muscle	40	3											M													
		liver	9	3								L																
011-003	Marlin, white	muscle	54	7		M																						
		liver	10	7			L																					
162-012	Mempachi	muscle	19	4					M																			
		liver	1	1									L															
078-010	Menhaden, Atlantic	muscle	10	4			M																					
		whole	101	98											W													
078-008	Menhaden, Gulf	muscle	49	38					M																			
		whole	28	27												W												
		gutted	9	9												G												
078-009	Menhaden, yellowfin	whole	13	13											W													
206-001	Milkfish	muscle	40	7			M																					

Table 4.14. Distribution of Mean Vanadium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Vanadium Content, ppm[2]																											
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																															
094-010	Mojarra, yellowfin	muscle	10	5					M																							
098-003	Mullet, silver (white)	muscle	36	13				M																								
098-002	Mullet, striped	muscle	158	40				M																								
		liver	5	5								L																				
079-030	Palometa	muscle	2	0	M																											
131-023	Perch, ocean (Pacific)	muscle	30	3			M																									
		liver	18	10			L																									
131-052	Perch, ocean (redfish)	muscle	80	16			M																									
		liver	2	1			L																									
006-010	Perch, sand	muscle	1	0	M																											
168-005	Perch, shiner	whole	2	2					W																							
045-003	Perch, silver	muscle	20	11				M																								
007-001	Perch, white	muscle	27	9			M																									
		h & g	18	17										H																		
079-029	Permit	muscle	9	2				M																								
073-017	Pigfish	muscle	34	12				M																								
114-013	Pinfish, spottail	muscle	10	8			M																									
		liver	1	1					L																							
059-008	Plaice, American (dab)	muscle	68	14				M																								
		whole	1	1								W																				
033-017	Pollock	muscle	73	21				M																								
		liver	33	9			L																									
033-019	Pollock, walleye (Alaska)	muscle	48	11				M																								
		liver	3	0	L																											
079-028	Pompano, Florida	muscle	59	18			M																									
		liver	4	2					L																							
114-014	Porgy, red	muscle	22	5		M																										
		liver	1	1															L													
056-018	Pout, ocean	muscle	34	3		M																										
		liver	3	1					L																							
131-061	Rockfish, bocaccio	muscle	48	11			M																									
		liver	4	2						L																						
131-063	Rockfish, canary	muscle	43	14				M																								
		liver	1	1											L																	
131-031	Rockfish, copper	muscle	10	2		M																										
131-043	Rockfish, yellowtail	muscle	20	2								M																				
079-004	Runner, blue	muscle	56	16			M																									
		liver	4	1							L																					
126-001	Sablefish	muscle	103	24					M																							
		liver	14	4										L																		
011-001	Sailfish	muscle	42	7					M																							
		liver	3	0	L																											
179-020	Salmon, chinook, (king)	muscle	110	41				M																								
		liver	22	6				L																								
179-017	Salmon, chum (keta)	muscle	57	22				M																								
		liver	5	4									L																			
179-018	Salmon, coho (silver)	muscle	67	23				M																								
		liver	7	3			L																									
179-016	Salmon, pink	muscle	27	10					M																							
		liver	3	1		L																										
179-019	Salmon, sockeye (red)	muscle	61	24				M																								
		liver	4	2					L																							
079-013	Scad, round	h & g	3	3									H																			
006-041	Scamp	muscle	10	2						M																						
		liver	1	1											L																	
132-031	Sculpin, longhorn	muscle	1	0	M																											
114-016	Scup	muscle	72	26					M																							
135-010	Searobin, northern	muscle	78	25			M																									
135-011	Searobin, striped	muscle	10	3			M																									
045-012	Seatrout, gray (weakfish)	muscle	72	21				M																								
		liver	3	1	L																											
		whole	10	10					W																							
045-007	Seatrout, sand	muscle	18	6			M																									
045-010	Seatrout, silver (white)	muscle	44	7		M																										
		liver	1	0	L																											
045-008	Seatrout, spotted (speckled)	muscle	89	20			M																									
		liver	3	0	L																											
078-006	Shad, American	muscle	60	10			M																									
145-025	Shark, Atlantic, sharpnose	muscle	1	0	M																											
145-006	Shark, blacktip	muscle	16	8				M																								
		liver	4	0	L																											

Table 4.14. Distribution of Mean Vanadium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Vanadium Content, ppm[2]																						
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Finfish																										
145-023	Shark, blue	muscle	14	2				M																			
		liver	9	4			L																				
145-010	Shark, dusky	muscle	4	0	M																						
145-009	Shark, sandbar	muscle	13	1			M																				
		liver	6	3			L																				
144-001	Shark, white	muscle	2	0	M																						
114-001	Sheepshead	muscle	59	13				M																			
		liver	2	2					L																		
150-005	Skate, little	muscle	54	22				M																			
		liver	2	2				L																			
150-012	Skate, winter	muscle	2	1					M																		
		liver	1	0	L																						
155-005	Snapper, blackfin	muscle	13	5		M																					
155-025	Snapper, gray	muscle	40	4				M																			
155-008	Snapper, gray (mangrove)	muscle	28	4		M																					
155-006	Snapper, red	muscle	38	6			M																				
155-024	Snapper, red (ehu)	muscle	40	7				M																			
155-015	Snapper, vermilion	muscle	36	9			M																				
		liver	2	2						L																	
155-013	Snapper, yellowtail	muscle	43	7			M																				
157-004	Snook	muscle	12	5		M																					
059-021	Sole, Dover	muscle	69	19					M																		
		liver	4	3											L												
059-022	Sole, English	muscle	72	18			M																				
		liver	5	5					L																		
059-004	Sole, petrale	muscle	56	19			M																				
		liver	7	3			L																				
059-006	Sole, rex	muscle	61	16				M																			
059-014	Sole, rock	muscle	10	4			M																				
011-004	Spearfish, shortbill	muscle	15	4				M																			
		liver	4	0	L																						
045-020	Spot	muscle	54	8			M																				
166-003	Sturgeon, green	muscle	10	3			M																				
168-001	Surfperch, barred	muscle	20	15				M																			
200-003	Tarpon	muscle	12	5				M																			
		liver	2	2											L												
185-022	Tautog	muscle	14	3					M																		
174-003	Tilefish	muscle	60	11			M																				
179-028	Trout, cutthroat	muscle	3	0	M																						
179-029	Trout, rainbow (steelhead)	muscle	9	1	M																						
		liver	1	0	L																						
091-019	Tuna, albacore	muscle	40	7			M																				
		liver	5	3				L																			
091-022	Tuna, bigeye	muscle	40	7					M																		
		liver	21	8				L																			
091-021	Tuna, blackfin	muscle	1	0	M																						
091-023	Tuna, bluefin	muscle	11	8			M																				
		liver	1	0	L																						
091-008	Tuna, skipjack	muscle	70	15				M																			
		liver	8	2					L																		
091-020	Tuna, yellowfin	muscle	80	25				M																			
		liver	26	9				L																			
091-006	Tunny, little	muscle	50	4			M																				
		liver	2	2		L																					
091-001	Wahoo	muscle	18	1									M														
		liver	3	1											L												
183-002	Wolffish, Atlantic	muscle	60	14			M																				
		liver	15	15											L												
079-023	Yellowtail	muscle	24	3			M																				
	Mollusca																										
187-005	Abalone, green	shucked	10	8			S																				
187-008	Abalone, red	shucked	9	2					S																		
191-003	Clam, butter	shucked	29	27					S																		
191-001	Clam, hard (quahog)	shucked	138	109					S																		
191-008	Clam, Pacific littleneck	shucked	1	1		S																					
243-002	Clam, razor	shucked	39	37							S																
242-001	Clam, soft	shucked	19	19					S																		
244-005	Clam, surf	shucked	23	8					S																		
205-001	Octopus (marmuratus)	whole	4	4		W																					
		mantle	36	5						N																	

Table 4.14. Distribution of Mean Vanadium Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	Ranges of Mean Vanadium Content, ppm[2]																							
					< 0.1	0.1 to 0.2	0.2 to 0.3	0.3 to 0.4	0.4 to 0.5	0.5 to 0.6	0.6 to 0.7	0.7 to 0.8	0.8 to 0.9	0.9 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0
	Mollusca																											
189-001	Oyster, eastern	shucked	152	110								S																
189-002	Oyster, Pacific (giant)	shucked	70	53				S																				
190-014	Scallop, Atlantic bay	adductor muscle	20	8			A																					
190-016	Scallop, calico	shucked	10	9									S															
		adductor muscle	20	8					A																			
190-028	Scallop, pink	adductor muscle	5	0	A																							
190-013	Scallop, sea (smooth)	adductor muscle	11	1											A													
188-003	Squid, Atlantic longfinned	whole	23	8			W																					
		mantle	110	18			N																					
188-006	Squid, Pacific	whole	50	15			W																					
188-014	Squid, shortfinned	mantle	92	31			N																					
	Crustacea																											
196-001	Crab, blue	body meat	35	19				B																				
		claw meat	5	4					C																			
		claw & body meat	53	30					D																			
196-011	Crab, dungeness	meat, unk.	42	18					U																			
		claw & body meat	8	4			D																					
196-012	Crab, king	meat, unk.	20	13					U																			
		claw & body meat	9	3			D																					
196-006	Crab, red, deep sea	meat, unk.	25	14			U																					
196-003	Crab, rock	meat, unk.	15	11				U																				
196-035	Crab, tanner (bairdi)	meat, unk.	50	13				U																				
194-012	Lobster, northern (American)	body meat	2	1					B																			
		claw meat	2	0	C																							
		tail meat	2	1		T																						
		leg meat	2	1		F																						
		claw & tail meat	80	41				K																				
194-002	Lobster, spiny (Atlantic)	tail meat	40	16					T																			
194-003	Lobster, spiny (Pacific)	tail meat	5	2				T																				
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	17	8					P																			
192-005	Shrimp, brown	tail, peeled	52	24				P																				
192-007	Shrimp, ocean	tail, peeled	10	2		P																						
192-010	Shrimp, pink	tail, peeled	50	30					P																			
192-011	Shrimp, pink (northern)	tail, peeled	64	22					P																			
192-003	Shrimp, royal red	tail, peeled	12	7			P																					
192-004	Shrimp, white	tail, peeled	76	28					P																			

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

Table 4.15. Distribution of Mean Zinc Levels in the Resource Survey, by Species

Ranges of Mean Zinc Content, ppm[2]

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0	60.0 to 70.0	70.0 to 80.0	80.0 to 90.0	90.0 to 100.0	100.0 to 200.0	200.0 to 300.0	300.0 to 400.0	400.0 to 500.0	500.0 to 600.0	600.0 to 700.0
	Finfish																											
078-005	Alewife	muscle	43	43						M																		
		whole	4	4										W														
001-016	Anchovy, northern	whole	40	40											W													
001-006	Anchovy, striped	h & g	40	40										H														
002-002	Argentine, Atlantic	h & g	7	7							H																	
062-014	Ballyhoo	whole	56	56											W													
005-002	Barracuda, Atlantic	muscle	7	7				M																				
005-001	Barracuda, Pacific	muscle	20	20						M																		
006-006	Bass, black sea	muscle	54	54				M																				
		liver	2	2											L													
007-004	Bass, striped	muscle	117	117				M																				
		liver	3	3											L													
012-001	Bluefish	muscle	72	72							M																	
		liver	4	4															L									
091-011	Bonito, Atlantic	muscle	15	15						M																		
091-009	Bonito, Pacific	muscle	40	40						M																		
		liver	1	1											L													
021-007	Bullhead, brown	muscle	4	4						M																		
018-014	Butterfish	muscle	72	72							M																	
		whole	17	17										W														
		h & g	1	1										H														
021-010	Catfish, channel	muscle	19	19					M																			
023-002	Catfish, gafftopsail	muscle	33	33										M														
		liver	3	3																								L
023-001	Catfish, sea	muscle	46	46										M														
		liver	6	6																					L			
021-002	Catfish, white	muscle	1	1							M																	
033-008	Cod, Atlantic	muscle	113	113				M																				
		liver	36	36										L														
033-007	Cod, Pacific (gray)	muscle	59	59				M																				
		liver	16	16										L														
045-026	Croaker, Atlantic	muscle	91	91				M																				
033-004	Cusk	muscle	76	76			M																					
		liver	17	17										L														
037-004	Cusk-eel, fawn	muscle	2	2									M															
145-018	Dogfish, smooth	muscle	94	94				M																				
141-007	Dogfish, spiny	muscle	115	115			M																					
		liver	29	29				L																				
041-002	Dolphin	muscle	63	63				M																				
		liver	26	26											L													
045-019	Drum, banded	muscle	5	5					M																			
045-028	Drum, black	muscle	61	61				M																				
		liver	2	2											L													
045-030	Drum, red	muscle	73	73				M																				
		liver	3	2											L													
051-001	Eel, American	muscle	30	30										M														
047-002	Eel, conger	muscle	1	1						M																		
153-009	Eulachon	whole	33	33										W														
058-028	Flounder, fourspot	muscle	71	71			M																					
058-024	Flounder, Gulf	muscle	40	40			M																					
		liver	1	1																		L						
058-027	Flounder, southern	muscle	41	41			M																					
		liver	2	2																L								
058-026	Flounder, summer (fluke)	muscle	42	42				M																				
		liver	2	2																		L						
058-030	Flounder, windowpane (s.dab)	muscle	18	18					M																			
059-030	Flounder, winter	muscle	122	122				M																				
		liver	2	2											L													
059-005	Flounder, witch	muscle	71	71		M																						
059-016	Flounder, yellowtail	muscle	88	88					M																			
		liver	2	2												L												
006-040	Gag	muscle	29	29				M																				
066-009	Goatfish	muscle	40	40				M																				
068-001	Goosefish	muscle	80	80					M																			
		liver	10	10										L														
		h & g	1	1				H																				
006-037	Grouper, black	muscle	33	33				M																				
006-017	Grouper, red	muscle	40	40				M																				
006-038	Grouper, yellowmouth	muscle	10	10			M																					
		liver	1	1													L											
073-015	Grunt, bluestriped (yellow)	muscle	16	16			M																					

Table 4.15. Distribution of Mean Zinc Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0	60.0 to 70.0	70.0 to 80.0	80.0 to 90.0	90.0 to 100.0	100.0 to 200.0	200.0 to 300.0	300.0 to 400.0	400.0 to 500.0	500.0 to 600.0	600.0 to 700.0
	Finfish				Ranges of Mean Zinc Content, ppm[2]																							
073-014	Grunt, white	muscle	16	16			M																					
033-011	Haddock	muscle	77	77			M																					
		liver	18	18										L														
		whole	1	1		W																						
033-013	Hake, Pacific	muscle	47	47			M																					
		liver	1	1											L													
033-020	Hake, red	muscle	65	65			M																					
033-012	Hake, silver (whiting)	muscle	83	83			M																					
		liver	3	3														L										
033-024	Hake, spotted	muscle	65	65			M																					
033-025	Hake, white	muscle	70	70		M																						
		liver	29	29													L											
059-011	Halibut, Pacific	muscle	36	36			M																					
		liver	16	16											L													
143-001	Hammerhead, scalloped	muscle	12	12				M																				
143-005	Hammerhead, smooth	muscle	10	10				M																				
		liver	7	7										L														
018-011	Harvestfish	muscle	3	3							M																	
		whole	16	16										W														
078-011	Herring, Atlantic	muscle	24	24							M																	
		whole	63	63										W														
		headed	6	6										E														
		h & g	2	2										H														
078-001	Herring, blueback	whole	1	1						W																		
078-012	Herring, Pacific	muscle	14	14					M																			
		whole	29	29										W														
078-015	Herring, round	h & g	50	50										H														
006-013	Hind, speckled	muscle	20	20					M																			
		liver	7	7											L													
079-068	Jack, (mackerel scad)	muscle	40	40								M																
079-053	Jack, akule	muscle	39	39										M														
079-005	Jack, crevalle	muscle	48	48					M																			
		liver	4	4														L										
079-069	Jack, crevalle (Hawaii)	muscle	40	40				M																				
149-004	Jacksmelt	whole	20	20											W													
006-016	Jewfish	muscle	8	8					M																			
045-024	Kingfish, northern	muscle	6	6					M																			
045-021	Kingfish, southern	muscle	14	14				M																				
		liver	1	1											L													
200-002	Ladyfish	muscle	2	2										M														
071-005	Lingcod	muscle	77	77				M																				
		liver	13	13											L													
091-013	Mackerel, Atlantic	muscle	79	79						M																		
091-012	Mackerel, chub	muscle	30	30								M																
079-034	Mackerel, jack	muscle	10	10				M																				
		liver	1	1												L												
		headed	4	4							E																	
091-014	Mackerel, king	muscle	106	106					M																			
		liver	9	9													L											
		milt	1	1										Q														
		roe	10	10														R										
091-016	Mackerel, Spanish	muscle	109	109				M																				
		liver	4	4										L														
144-003	Mako, shortfin	muscle	3	3		M																						
		liver	2	2								L																
011-002	Marlin, blue	muscle	33	33						M																		
		liver	11	11																	L							
011-005	Marlin, striped	muscle	40	40					M																			
		liver	9	9													L											
011-003	Marlin, white	muscle	54	54						M																		
		liver	10	10													L											
162-012	Mempachi	muscle	19	19		M																						
		liver	1	1																			L					
078-010	Menhaden, Atlantic	muscle	10	10						M																		
		whole	100	100										W														
078-008	Menhaden, Gulf	muscle	50	50						M																		
		whole	27	27											W													
		gutted	9	9											G													
078-009	Menhaden, yellowfin	whole	13	13										W														
206-001	Milkfish	muscle	39	39								M																

Table 4.15. Distribution of Mean Zinc Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue[1/]	Total # Samples	# samples in mean	Ranges of Mean Zinc Content, ppm[2/]																							
					1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0	60.0 to 70.0	70.0 to 80.0	80.0 to 90.0	90.0 to 100.0	100.0 to 200.0	200.0 to 300.0	300.0 to 400.0	400.0 to 500.0	500.0 to 600.0	600.0 to 700.0
	Finfish																											
094-010	Mojarra, yellowfin	muscle	10	10					M																			
098-003	Mullet, silver (white)	muscle	35	35							M																	
098-002	Mullet, striped	muscle	156	156					M																			
		liver	5	5														L										
079-030	Palometa	muscle	2	2				M																				
131-023	Perch, ocean (Pacific)	muscle	30	30			M																					
		liver	18	18												L												
131-052	Perch, ocean (redfish)	muscle	80	80			M																					
		liver	2	2											L													
006-010	Perch, sand	muscle	1	1						M																		
168-005	Perch, shiner	whole	2	2											W													
045-003	Perch, silver	muscle	20	20						M																		
007-001	Perch, white	muscle	27	27					M																			
		h & g	19	19										H														
079-029	Permit	muscle	9	9				M																				
073-017	Pigfish	muscle	34	34					M																			
114-013	Pinfish, spottail	muscle	9	9					M																			
		liver	1	1													L											
059-008	Plaice, American (dab)	muscle	68	68			M																					
		whole	1	1										W														
033-017	Pollock	muscle	73	73				M																				
		liver	33	33										L														
033-019	Pollock, walleye (Alaska)	muscle	48	48				M																				
		liver	3	3										L														
079-028	Pompano, Florida	muscle	59	59							M																	
		liver	4	4													L											
114-014	Porgy, red	muscle	22	22			M																					
		liver	1	1												L												
056-018	Pout, ocean	muscle	34	34										M														
		liver	3	3										L														
131-061	Rockfish, bocaccio	muscle	48	48				M																				
		liver	4	4												L												
131-063	Rockfish, canary	muscle	44	44					M																			
		liver	1	1												L												
131-031	Rockfish, copper	muscle	10	10		M																						
131-043	Rockfish, yellowtail	muscle	20	20				M																				
079-004	Runner, blue	muscle	55	55					M																			
		liver	4	4											L													
126-001	Sablefish	muscle	103	103			M																					
		liver	14	14										L														
011-001	Sailfish	muscle	42	42					M																			
		liver	3	3													L											
179-020	Salmon, chinook, (king)	muscle	110	110				M																				
		liver	22	22												L												
179-017	Salmon, chum (keta)	muscle	56	56				M																				
		liver	5	5												L												
179-018	Salmon, coho (silver)	muscle	68	68				M																				
		liver	7	7											L													
179-016	Salmon, pink	muscle	27	27					M																			
		liver	3	3												L												
179-019	Salmon, sockeye (red)	muscle	61	61					M																			
		liver	4	4											L													
079-013	Scad, round	h & g	3	3										H														
006-041	Scamp	muscle	10	10			M																					
		liver	1	1														L										
132-031	Sculpin, longhorn	muscle	1	1				M																				
114-016	Scup	muscle	71	71				M																				
135-010	Searobin, northern	muscle	75	75				M																				
135-011	Searobin, striped	muscle	10	10					M																			
045-012	Seatrout, gray (weakfish)	muscle	71	71				M																				
		liver	3	3											L													
		whole	10	10										W														
045-007	Seatrout, sand	muscle	18	18				M																				
045-010	Seatrout, silver (white)	muscle	44	44			M																					
		liver	1	1												L												
045-008	Seatrout, spotted (speckled)	muscle	88	88				M																				
		liver	3	3										L														
078-006	Shad, American	muscle	59	59			M																					
145-025	Shark, Atlantic, sharpnose	muscle	1	1			M																					
145-006	Shark, blacktip	muscle	16	16			M																					
		liver	4	4					L																			

Table 4.15. Distribution of Mean Zinc Levels in the Resource Survey, by Species (continued)

Ranges of Mean Zinc Content, ppm[2]

Species Number	Species	Tissue[1]	Total # Samples	# samples in mean	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0	60.0 to 70.0	70.0 to 80.0	80.0 to 90.0	90.0 to 100.0	100.0 to 200.0	200.0 to 300.0	300.0 to 400.0	400.0 to 500.0	500.0 to 600.0	600.0 to 700.0
	Finfish																											
145-023	Shark, blue	muscle	14	14						M																		
		liver	9	9										L														
145-010	Shark, dusky	muscle	4	4					M																			
145-009	Shark, sandbar	muscle	13	13						M																		
		liver	7	7									L															
144-001	Shark, white	muscle	2	2				M																				
114-001	Sheepshead	muscle	59	59			M																					
		liver	2	2																				L				
150-005	Skate, little	muscle	54	54								M																
		liver	2	2										L														
150-012	Skate, winter	muscle	2	2						M																		
		liver	1	1										L														
155-005	Snapper, blackfin	muscle	13	13		M																						
155-025	Snapper, gray	muscle	39	39			M																					
155-008	Snapper, gray (mangrove)	muscle	28	28				M																				
155-006	Snapper, red	muscle	37	37				M																				
155-024	Snapper, red (ehu)	muscle	40	40			M																					
155-015	Snapper, vermilion	muscle	36	36			M																					
		liver	2	2																			L					
155-013	Snapper, yellowtail	muscle	43	43			M																					
157-004	Snook	muscle	12	12				M																				
059-021	Sole, Dover	muscle	68	68			M																					
		liver	4	4											L													
059-022	Sole, English	muscle	73	73				M																				
		liver	5	5												L												
059-004	Sole, petrale	muscle	57	57				M																				
		liver	7	7														L										
059-006	Sole, rex	muscle	60	60			M																					
059-014	Sole, rock	muscle	10	10			M																					
011-004	Spearfish, shortbill	muscle	15	15						M																		
		liver	4	4												L												
045-020	Spot	muscle	52	52					M																			
166-003	Sturgeon, green	muscle	10	10				M																				
168-001	Surfperch, barred	muscle	20	20								M																
200-003	Tarpon	muscle	12	12									M															
		liver	2	2																			L					
185-022	Tautog	muscle	13	13				M																				
174-003	Tilefish	muscle	60	60				M																				
179-028	Trout, cutthroat	muscle	3	3				M																				
179-029	Trout, rainbow (steelhead)	muscle	9	9		M																						
		liver	1	1										L														
091-019	Tuna, albacore	muscle	39	39			M																					
		liver	5	5												L												
091-022	Tuna, bigeye	muscle	40	40			M																					
		liver	21	20													L											
091-021	Tuna, blackfin	muscle	1	1					M																			
091-023	Tuna, bluefin	muscle	10	10						M																		
		liver	1	1											L													
091-008	Tuna, skipjack	muscle	70	70								M																
		liver	8	8													L											
091-020	Tuna, yellowfin	muscle	80	80					M																			
		liver	26	26																L								
091-006	Tunny, little	muscle	50	50						M																		
		liver	2	2																			L					
091-001	Wahoo	muscle	18	18					M																			
		liver	3	3																				L				
183-002	Wolffish, Atlantic	muscle	60	60							M																	
		liver	15	15												L												
079-023	Yellowtail	muscle	23	23					M																			
	Mollusca																											
187-005	Abalone, green	shucked	9	9										S														
187-008	Abalone, red	shucked	10	10							S																	
191-003	Clam, butter	shucked	29	29										S														
191-001	Clam, hard (quahog)	shucked	139	139										S														
191-008	Clam, Pacific littleneck	shucked	1	1					S																			
243-002	Clam, razor	shucked	38	38										S														
242-001	Clam, soft	shucked	19	19										S														
244-005	Clam, surf	shucked	23	23										S														
205-001	Octopus (marmuratus)	whole	4	4										W														
		mantle	35	35										N														

Table 4.15. Distribution of Mean Zinc Levels in the Resource Survey, by Species (continued)

Species Number	Species	Tissue 1/	Total # Samples	# samples in mean	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	8.0 to 9.0	9.0 to 10.0	10.0 to 20.0	20.0 to 30.0	30.0 to 40.0	40.0 to 50.0	50.0 to 60.0	60.0 to 70.0	70.0 to 80.0	80.0 to 90.0	90.0 to 100.0	100.0 to 200.0	200.0 to 300.0	300.0 to 400.0	400.0 to 500.0	500.0 to 600.0	600.0 to 700.0
					Ranges of Mean Zinc Content, ppm 2/																							
	Mollusca																											
189-001	Oyster, eastern	shucked	151	151																				S				
189-002	Oyster, Pacific (giant)	shucked	68	68																			S					
190-014	Scallop, Atlantic bay	adductor muscle	20	20										A														
190-016	Scallop, calico	shucked	10	10										S														
		adductor muscle	20	20										A														
190-028	Scallop, pink	adductor muscle	5	5								A																
190-013	Scallop, sea (smooth)	adductor muscle	11	11										A														
188-003	Squid, Atlantic longfinned	whole	23	23										W														
		mantle	107	107										N														
188-006	Squid, Pacific	whole	50	50										W														
188-014	Squid, shortfinned	mantle	92	92										N														
	Crustacea																											
196-001	Crab, blue	body meat	35	35												B												
		claw meat	4	4												C												
		claw & body meat	54	54												D												
196-011	Crab, dungeness	meat, unk.	40	40													U											
		claw & body meat	8	8												D												
196-012	Crab, king	meat, unk.	20	20														U										
		claw & body meat	9	9															D									
196-006	Crab, red, deep sea	meat, unk.	25	25											U													
196-003	Crab, rock	meat, unk.	15	15													U											
196-035	Crab, tanner (bairdi)	meat, unk.	50	50												U												
194-012	Lobster, northern (American)	body meat	2	2												B												
		claw meat	2	2												C												
		tail meat	2	2											T													
		leg meat	2	2													F											
		claw & tail meat	78	78											K													
194-002	Lobster, spiny (Atlantic)	tail meat	38	38											T													
194-003	Lobster, spiny (Pacific)	tail meat	5	5										T														
192-012	Shrimp, Alaska (sidestripe)	tail, peeled	16	16										P														
192-005	Shrimp, brown	tail, peeled	51	51										P														
192-007	Shrimp, ocean	tail, peeled	9	9										P														
192-010	Shrimp, pink	tail, peeled	49	49										P														
192-011	Shrimp, pink (northern)	tail, peeled	64	64										P														
192-003	Shrimp, royal red	tail, peeled	12	12										P														
192-004	Shrimp, white	tail, peeled	77	77										P														

1/ The letters in the boxes correspond to the tissue or cut of fish analyzed, as follows: a, adductor muscle; b, body meat; c, claw meat; d, claw & body meat; e, headed; f, leg meat; g, gutted; h, headed and gutted; k, claw & tail meat; l, liver; m, muscle; n, mantle, skinless; p, tail, peeled; q, milt; r, roe; s, shucked; t, tail meat; u, meat, unk.; w, whole.

2/ Mean analytical values falling on the upper limit of each range are included in the next higher range (e.g., 0.2 is included in the range 0.2 to 0.3 ppm and not 0.1 to 0.2 ppm).

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

ANCHOVY, STRIPED — ANCHOA HEPSETUS — 001006 AREA- GULF — SITE- D4 H&G, TAILLESS

LENGTH	NUM	10	MEAN	0.115	S. D.	0.000	LOW	0.115	HIGH	0.115					
WEIGHT	NUM	10	MEAN	0.015	S. D.	0.000	LOW	0.015	HIGH	0.015					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0000	0000	0006	0000
MEAN	0.091	0.891	0.143	0.848	0.436	0.112	0.213	0.359	13.09	0.469	0.179	0.356	1.327	0.854	0.894
S. D.	0.054	0.201	0.035	0.441	0.253	0.024	0.036	0.143	1.58	0.102	0.054	0.072	0.293	0.497	0.268
LOW	0.045	0.660	0.105	0.060	0.050	0.080	0.145	0.060	10.40	0.330	0.130	0.220	0.940	0.120	0.610
HIGH	0.210	1.310	0.210	1.575	0.810	0.160	0.250	0.560	15.41	0.620	0.270	0.470	1.845	1.220	1.310

ANCHOVY, STRIPED — ANCHOA HEPSETUS — 001006 AREA- GULF — SITE- D5 H&G, TAILLESS

LENGTH	NUM	30	MEAN	0.116	S. D.	0.002	LOW	0.115	HIGH	0.120					
WEIGHT	NUM	30	MEAN	0.015	S. D.	0.000	LOW	0.015	HIGH	0.015					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0030	0030	0030	0030	0030	0030	0028	0030	0030	0030	0029	0030	0030	0030	0030
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0001	0000	0016	0000
MEAN	0.082	0.786	0.139	1.313	0.578	0.103	0.280	0.436	13.11	0.443	0.202	0.442	1.398	1.195	0.910
S. D.	0.046	0.274	0.034	0.786	0.247	0.024	0.154	0.189	3.19	0.121	0.060	0.175	0.521	0.464	0.256
LOW	0.020	0.440	0.060	0.300	0.040	0.030	0.060	0.180	3.13	0.180	0.130	0.130	0.170	0.190	0.440
HIGH	0.185	1.810	0.210	4.000	1.400	0.140	0.810	1.060	18.13	0.690	0.380	1.000	2.690	1.810	1.475

ANCHOVY, NORTHERN — ENGRAULIS MORDAX — 001016 AREA- CALIFORNIA — SITE- F4 WHOLE

LENGTH	NUM	10	MEAN	0.112	S. D.	0.000	LOW	0.112	HIGH	0.112					
WEIGHT	NUM	10	MEAN	0.008	S. D.	0.000	LOW	0.008	HIGH	0.008					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.080	1.603	0.164	3.255	0.531	0.131	0.447	1.066	23.15	0.927	0.332	0.709	4.872	2.269	1.955
S. D.	0.128	0.426	0.063	0.741	0.159	0.034	0.154	0.231	3.67	0.333	0.226	0.338	0.870	0.680	0.780
LOW	0.020	0.880	0.040	1.900	0.360	0.090	0.240	0.535	15.54	0.390	0.100	0.290	3.100	1.000	1.050
HIGH	0.340	2.340	0.230	3.930	0.815	0.180	0.650	1.300	28.92	1.555	0.690	1.250	6.180	3.480	3.245

ANCHOVY, NORTHERN — ENGRAULIS MORDAX — 001016 AREA- CALIFORNIA — SITE- F8 WHOLE

LENGTH	NUM	10	MEAN	0.162	S. D.	0.010	LOW	0.152	HIGH	0.183					
WEIGHT	NUM	10	MEAN	0.069	S. D.	0.010	LOW	0.060	HIGH	0.090					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0000	0000	0002	0000
MEAN	0.025	1.233	0.357	5.641	0.469	0.111	0.341	1.193	21.76	0.779	0.271	0.371	1.645	1.728	1.155
S. D.	0.007	0.650	0.119	3.080	0.197	0.070	0.175	0.322	3.55	0.348	0.173	0.134	0.569	0.805	0.403
LOW	0.020	0.805	0.110	2.100	0.165	0.040	0.140	0.820	16.25	0.365	0.100	0.200	1.120	0.580	0.500
HIGH	0.030	3.000	0.570	11.950	0.840	0.260	0.780	2.015	28.69	1.460	0.620	0.625	3.055	2.750	2.000

ANCHOVY, NORTHERN — ENGRAULIS MORDAX — 001016 AREA- CALIFORNIA — SITE- I8 WHOLE

LENGTH	NUM	10	MEAN	0.140	S. D.	0.000	LOW	0.140	HIGH	0.140					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0009	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.020	2.253	0.428	2.848	0.688	0.245	0.407	1.399	27.38	0.768	1.267	1.050	1.912	2.556	2.198
S. D.	0.000	0.586	0.065	1.503	0.168	0.106	0.133	0.654	7.48	0.119	0.505	0.576	0.417	0.571	0.592
LOW	0.000	1.500	0.340	0.900	0.460	0.095	0.190	0.250	19.19	0.640	0.470	0.413	1.450	1.280	1.530
HIGH	0.020	3.250	0.500	6.336	0.990	0.490	0.585	2.780	44.38	1.030	2.250	2.000	2.640	3.440	3.310

ANCHOVY, NORTHERN — ENGRAULIS MORDAX — 001016 AREA- CALIFORNIA — SITE- K3 WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.048	1.438	0.310	2.629	0.671	0.158	0.352	0.944	23.68	0.466	0.252	0.863	1.198	1.922	2.615
S. D.	0.027	0.412	0.071	0.989	0.195	0.039	0.135	0.406	5.43	0.046	0.095	0.400	0.398	0.338	0.643
LOW	0.020	0.940	0.185	1.200	0.460	0.090	0.140	0.190	16.25	0.410	0.110	0.500	0.560	1.405	1.660
HIGH	0.080	2.190	0.430	4.391	1.120	0.230	0.545	1.535	31.15	0.565	0.410	1.780	2.040	2.470	3.940

ARGENTINE, ATL. — ARGENTINA SILUS — 002002 AREA- NORTH ATLANTIC — SITE- S4 H&G, TAILLESS

LENGTH	NUM	7	MEAN	0.200	S. D.	0.025	LOW	0.162	HIGH	0.219					
WEIGHT	NUM	7	MEAN	0.064	S. D.	0.022	LOW	0.031	HIGH	0.084					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0006	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0003	0000
MEAN	0.055	0.510	0.098	2.490	0.438	0.060	0.205	0.473	7.15	0.280	0.110	0.392	0.360	1.025	1.155
S. D.	0.035	0.308	0.055	1.213	0.278	0.020	0.089	0.221	2.10	0.116	0.044	0.310	0.069	0.285	0.666
LOW	0.030	0.060	0.050	0.870	0.155	0.030	0.060	0.150	3.06	0.130	0.060	0.205	0.230	0.630	0.440
HIGH	0.080	1.030	0.215	4.166	0.820	0.080	0.310	0.790	9.53	0.455	0.140	0.750	0.440	1.310	2.400

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

BARRACUDA, PAC. SPHYRAENA ARGENTEA 005001 AREA- CALIFORNIA SITE- K3 MUSCLE

LENGTH	NUM	20	MEAN	0.616	S. D.	0.056	LOW	0.550	HIGH	0.729					
WEIGHT	NUM	9	MEAN	1.522	S. D.	0.448	LOW	1.025	HIGH	2.040					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0019
N DET.	0000	0000	0001	0000	0000	0005	0002	0000	0000	0002	0017	0019	0000	0002	0000
MEAN	0.172	0.638	0.110	2.530	0.415	0.034	0.381	0.423	6.35	0.202	0.293	0.060	0.156	0.912	0.869
S. D.	0.103	0.350	0.096	1.538	0.226	0.018	0.263	0.165	2.00	0.098	0.204	0.000	0.071	0.407	0.523
LOW	0.020	0.130	0.035	0.360	0.100	0.010	0.130	0.080	3.75	0.090	0.060	0.000	0.070	0.440	0.280
HIGH	0.365	1.310	0.460	5.760	1.090	0.070	0.950	0.755	10.11	0.520	0.440	0.060	0.340	2.000	2.250

BARRACUDA, ATL. SPHYRAENA BARRACUDA 005002 AREA- GULF SITE- L5 MUSCLE

LENGTH	NUM	1	MEAN	1.168	S. D.	0.000	LOW	1.168	HIGH	1.168					
WEIGHT	NUM	5	MEAN	8.172	S. D.	3.740	LOW	3.178	HIGH	12.712					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0007	0000	0006	0000
MEAN	2.168	0.297	0.064	3.047	0.692	0.021	0.219	0.482	4.82	0.266	0.000	0.000	0.115	0.090	0.566
S. D.	1.025	0.077	0.010	0.958	0.253	0.011	0.092	0.267	0.59	0.067	0.000	0.000	0.028	0.000	0.179
LOW	0.850	0.190	0.050	1.950	0.210	0.010	0.130	0.160	3.94	0.190	0.000	0.000	0.090	0.000	0.380
HIGH	3.400	0.410	0.080	4.300	0.920	0.035	0.380	1.000	5.50	0.380	0.000	0.000	0.165	0.090	0.840

BASS, BLACK SEA CENTROPRISTIS STRIATA 006006 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	1	MEAN	0.293	S. D.	0.000	LOW	0.293	HIGH	0.293					
WEIGHT	NUM	1	MEAN	0.435	S. D.	0.000	LOW	0.435	HIGH	0.435					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.050	0.310	0.070	3.000	0.350	0.010	0.130	0.070	3.56	0.150	0.000	0.000	0.080	0.000	0.410
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.310	0.070	3.000	0.350	0.010	0.130	0.070	3.56	0.150	0.000	0.000	0.080	0.000	0.410

BASS, BLACK SEA CENTROPRISTIS STRIATA 006006 AREA- NORTH ATLANTIC SITE- R6 MUSCLE

LENGTH	NUM	5	MEAN	0.230	S. D.	0.024	LOW	0.203	HIGH	0.264					
WEIGHT	NUM	5	MEAN	0.195	S. D.	0.062	LOW	0.136	HIGH	0.292					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0002	0000	0005	0000
MEAN	0.138	0.500	0.076	3.855	0.539	0.050	0.241	0.212	3.88	0.275	0.130	0.273	0.354	0.000	0.521
S. D.	0.091	0.112	0.011	2.522	0.170	0.018	0.137	0.091	0.62	0.054	0.000	0.129	0.244	0.000	0.054
LOW	0.040	0.310	0.070	1.750	0.340	0.035	0.105	0.125	3.00	0.215	0.000	0.130	0.180	0.000	0.470
HIGH	0.245	0.595	0.095	7.475	0.780	0.080	0.440	0.350	4.72	0.350	0.130	0.380	0.735	0.000	0.595

BASS, BLACK SEA CENTROPRISTIS STRIATA 006006 AREA- NORTH ATLANTIC SITE- S4 MUSCLE

LENGTH	NUM	1	MEAN	0.177	S. D.	0.000	LOW	0.177	HIGH	0.177					
WEIGHT	NUM	1	MEAN	0.125	S. D.	0.000	LOW	0.125	HIGH	0.125					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.380	0.040	7.500	0.650	0.030	0.060	0.630	4.75	0.260	0.190	0.000	0.480	0.690	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	0.040	7.500	0.650	0.030	0.060	0.630	4.75	0.260	0.190	0.000	0.480	0.690	0.630

BASS, BLACK SEA CENTROPRISTIS STRIATA 006006 AREA- SOUTH ATLANTIC SITE- B5 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.227	S. D.	0.000	LOW	0.227	HIGH	0.227					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0005	0000	0000	0005	0001	0001	0000	0003	0006	0004	0000	0004	0000
MEAN	0.113	0.729	0.088	12.402	0.725	0.058	0.213	0.218	4.52	0.340	0.258	0.403	0.210	1.262	0.590
S. D.	0.021	0.439	0.019	7.528	0.156	0.036	0.129	0.121	1.29	0.201	0.162	0.310	0.210	0.965	0.233
LOW	0.085	0.235	0.070	5.500	0.470	0.020	0.040	0.070	2.50	0.130	0.160	0.200	0.040	0.320	0.325
HIGH	0.145	1.650	0.112	26.550	0.965	0.110	0.400	0.385	7.00	0.750	0.500	1.020	0.790	3.000	0.940

BASS, BLACK SEA CENTROPRISTIS STRIATA 006006 AREA- SOUTH ATLANTIC SITE- B5 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.227	S. D.	0.000	LOW	0.227	HIGH	0.227					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.290	1.000	0.700	6.770	1.930	0.060	0.230	3.310	35.69	0.220	0.810	1.880	1.070	1.690	1.120
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.290	1.000	0.700	6.770	1.930	0.060	0.230	3.310	35.69	0.220	0.810	1.880	1.070	1.690	1.120

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

BASS, BLACK SEA — CENTROPRISTIS STRIATA — 006006 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	22	MEAN	0.319	S. D.	0.055	LOW	0.264	HIGH	0.376					
WEIGHT	NUM	22	MEAN	0.451	S. D.	0.127	LOW	0.323	HIGH	0.640					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0021	0022	0022	0021	0021	0022	0022	0021	0021	0022	0022	0022	0022	0022	0021
N DET.	0000	0002	0004	0000	0000	0010	0002	0001	0000	0001	0019	0018	0001	0005	0000
MEAN	0.193	0.379	0.059	11.681	0.568	0.040	0.166	0.145	3.97	0.269	0.230	0.288	0.139	0.592	0.441
S. D.	0.118	0.151	0.030	5.797	0.193	0.013	0.091	0.069	1.59	0.133	0.185	0.145	0.070	0.277	0.160
LOW	0.030	0.170	0.030	4.058	0.215	0.030	0.060	0.040	1.43	0.080	0.090	0.120	0.040	0.060	0.190
HIGH	0.575	0.750	0.140	26.000	1.060	0.070	0.380	0.320	9.64	0.710	0.440	0.470	0.290	1.220	0.820

BASS, BLACK SEA — CENTROPRISTIS STRIATA — 006006 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	1	MEAN	0.376	S. D.	0.000	LOW	0.376	HIGH	0.376					
WEIGHT	NUM	1	MEAN	0.567	S. D.	0.000	LOW	0.567	HIGH	0.567					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.470	1.810	1.790	12.800	1.700	0.060	0.190	5.310	22.94	0.320	0.190	0.310	1.160	0.630	0.820
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.470	1.810	1.790	12.800	1.700	0.060	0.190	5.310	22.94	0.320	0.190	0.310	1.160	0.630	0.820

BASS, BLACK SEA — CENTROPRISTIS STRIATA — 006006 — AREA- SOUTH ATLANTIC — SITE- J1 — MUSCLE

LENGTH	NUM	4	MEAN	0.262	S. D.	0.008	LOW	0.257	HIGH	0.274					
WEIGHT	NUM	4	MEAN	0.343	S. D.	0.047	LOW	0.307	HIGH	0.409					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0000	0000	0001	0000	0000	0003	0001	0000	0000	0001	0014	0013	0001	0001	0000
MEAN	0.094	0.404	0.080	9.216	0.484	0.034	0.184	0.133	3.76	0.210	0.195	0.227	0.124	0.728	0.545
S. D.	0.047	0.197	0.045	3.094	0.146	0.012	0.148	0.056	0.73	0.137	0.120	0.064	0.046	0.310	0.179
LOW	0.050	0.080	0.045	4.850	0.250	0.010	0.060	0.020	2.14	0.040	0.110	0.190	0.070	0.310	0.325
HIGH	0.210	0.740	0.210	16.500	0.695	0.060	0.560	0.255	5.25	0.625	0.280	0.300	0.230	1.630	1.100

PERCH, SAND — DIPLECTRUM FORMOSUM — 006010 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	1	MEAN	0.226	S. D.	0.000	LOW	0.226	HIGH	0.226					
WEIGHT	NUM	1	MEAN	0.375	S. D.	0.000	LOW	0.375	HIGH	0.375					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0001	0000	0000	0000
MEAN	0.620	0.100	0.040	2.125	0.510	0.130	0.090	0.190	6.40	0.000	0.000	0.000	0.125	0.150	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.620	0.100	0.040	2.125	0.510	0.130	0.090	0.190	6.40	0.000	0.000	0.000	0.125	0.150	0.400

HIND, SPECKLED — EPINEPHELUS DRUMMONDHAYI — 006013 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	20	MEAN	0.627	S. D.	0.130	LOW	0.460	HIGH	0.825					
WEIGHT	NUM	20	MEAN	6.221	S. D.	3.960	LOW	2.315	HIGH	16.458					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0019	0020	0019	0020	0020	0019	0020	0018
N DET.	0000	0000	0000	0000	0000	0005	0001	0000	0000	0000	0019	0019	0000	0000	0001
MEAN	0.179	0.453	0.069	2.798	0.907	0.032	0.163	0.340	5.31	0.169	0.060	0.310	0.071	0.630	0.492
S. D.	0.140	0.243	0.019	1.478	0.311	0.012	0.241	0.195	0.73	0.047	0.000	0.000	0.015	0.200	0.179
LOW	0.040	0.170	0.040	0.820	0.450	0.010	0.040	0.090	4.19	0.080	0.000	0.000	0.040	0.375	0.220
HIGH	0.610	1.250	0.110	7.250	1.890	0.060	1.125	0.815	7.12	0.240	0.060	0.310	0.090	1.190	0.970

HIND, SPECKLED — EPINEPHELUS DRUMMONDHAYI — 006013 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	7	MEAN	0.674	S. D.	0.137	LOW	0.508	HIGH	0.825					
WEIGHT	NUM	7	MEAN	7.222	S. D.	3.799	LOW	2.894	HIGH	11.486					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0006	0007	0006	0005	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0005	0000	0000	0000
MEAN	0.941	0.308	0.612	4.997	4.864	0.036	0.121	7.034	25.40	0.185	0.246	0.220	0.468	0.514	0.337
S. D.	0.590	0.085	0.335	4.801	2.754	0.011	0.108	5.077	8.32	0.065	0.134	0.226	0.221	0.162	0.156
LOW	0.300	0.190	0.210	0.800	2.700	0.020	0.060	2.630	18.75	0.120	0.060	0.060	0.200	0.310	0.060
HIGH	2.050	0.440	1.060	14.225	9.135	0.050	0.310	17.310	42.19	0.275	0.380	0.380	0.810	0.750	0.500

JEWFISH — EPINEPHELUS ITAJARA — 006016 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	2	MEAN	0.477	S. D.	0.009	LOW	0.470	HIGH	0.483					
WEIGHT	NUM	2	MEAN	2.270	S. D.	0.000	LOW	2.270	HIGH	2.270					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0002	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.165	0.471	0.000	5.480	0.690	0.070	0.227	0.090	3.93	0.160	0.000	0.000	0.055	0.960	0.418
S. D.	0.042	0.134	0.000	6.675	0.099	0.000	0.108	0.028	0.50	0.127	0.000	0.000	0.028	0.948	0.166
LOW	0.135	0.376	0.000	0.760	0.620	0.000	0.150	0.070	3.57	0.070	0.000	0.000	0.035	0.290	0.300
HIGH	0.195	0.565	0.000	10.200	0.760	0.070	0.303	0.110	4.28	0.250	0.000	0.000	0.075	1.630	0.535

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

JEWFISH — EPINEPHELUS ITAJARA — 006016 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.298	0.407	0.056	2.504	0.352	0.028	0.114	0.225	6.14	0.151	0.330	0.213	0.101	0.819	0.493
S. D.	0.087	0.121	0.017	1.873	0.092	0.006	0.036	0.070	1.52	0.057	0.251	0.112	0.054	0.091	0.114
LOW	0.160	0.250	0.030	0.581	0.220	0.020	0.060	0.110	4.28	0.075	0.060	0.060	0.070	0.720	0.350
HIGH	0.380	0.580	0.073	4.750	0.450	0.035	0.165	0.320	8.58	0.210	0.660	0.310	0.210	0.940	0.660

GROUPER, RED — EPINEPHELUS MORIO — 006017 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0010	0000	0002	0000
MEAN	0.570	0.344	0.058	2.463	0.780	0.033	0.160	0.187	4.03	0.178	0.130	0.000	0.062	0.512	0.535
S. D.	0.091	0.157	0.009	1.420	0.152	0.010	0.066	0.055	0.90	0.077	0.000	0.000	0.018	0.173	0.199
LOW	0.450	0.220	0.040	0.740	0.465	0.015	0.050	0.085	2.31	0.060	0.000	0.000	0.040	0.310	0.250
HIGH	0.770	0.750	0.070	5.000	1.065	0.050	0.255	0.240	5.40	0.340	0.130	0.000	0.090	0.810	0.880

GROUPER, RED — EPINEPHELUS MORIO — 006017 — AREA- GULF — SITE- L8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0009	0000	0000	0000
MEAN	0.453	0.308	0.056	2.405	0.666	0.028	0.196	0.211	5.03	0.181	0.000	0.440	0.070	0.521	0.491
S. D.	0.135	0.119	0.014	1.051	0.233	0.009	0.137	0.045	0.53	0.066	0.000	0.000	0.016	0.127	0.146
LOW	0.180	0.130	0.020	0.775	0.280	0.010	0.060	0.130	4.31	0.090	0.000	0.000	0.030	0.380	0.310
HIGH	0.710	0.500	0.070	4.000	1.010	0.040	0.405	0.280	5.88	0.280	0.000	0.440	0.080	0.750	0.810

GROUPER, RED — EPINEPHELUS MORIO — 006017 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0021	0021	0021	0020	0020	0021	0021	0021	0021	0021	0021	0021	0021	0021	0020
N DET.	0000	0000	0003	0000	0000	0003	0002	0000	0000	0000	0016	0015	0001	0003	0000
MEAN	0.262	0.354	0.062	2.203	0.755	0.029	0.260	0.205	3.83	0.223	0.368	0.172	0.082	0.651	0.495
S. D.	0.103	0.193	0.018	1.514	0.200	0.008	0.365	0.077	0.77	0.106	0.322	0.110	0.045	0.198	0.186
LOW	0.100	0.100	0.030	0.240	0.400	0.010	0.050	0.070	2.25	0.070	0.060	0.060	0.020	0.310	0.205
HIGH	0.545	0.810	0.090	5.500	1.140	0.040	1.595	0.390	5.12	0.500	0.870	0.370	0.230	1.060	1.060

GROUPER, BLACK — MYCTEROPERCA BONACI — 006037 — AREA- GULF — SITE- I9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0007	0009	0000	0000	0000
MEAN	1.014	0.348	0.050	3.286	1.197	0.034	0.118	0.169	3.67	0.185	0.184	0.582	0.075	0.692	0.525
S. D.	0.255	0.103	0.017	1.023	0.379	0.011	0.049	0.052	0.69	0.055	0.113	0.382	0.016	0.242	0.128
LOW	0.470	0.190	0.020	1.962	0.630	0.010	0.050	0.050	2.56	0.110	0.060	0.310	0.060	0.310	0.310
HIGH	1.330	0.560	0.080	5.275	1.850	0.050	0.220	0.223	4.89	0.280	0.370	1.250	0.110	1.130	0.750

GROUPER, BLACK — MYCTEROPERCA BONACI — 006037 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0010	0000	0001	0000
MEAN	0.748	0.303	0.064	2.533	0.626	0.029	0.240	0.244	4.50	0.208	0.000	0.000	0.069	0.619	0.482
S. D.	0.239	0.166	0.012	0.978	0.220	0.015	0.220	0.095	1.17	0.062	0.000	0.000	0.015	0.211	0.143
LOW	0.470	0.130	0.050	1.150	0.250	0.020	0.040	0.100	2.69	0.110	0.000	0.000	0.040	0.380	0.310
HIGH	1.030	0.630	0.090	4.500	1.010	0.070	0.760	0.380	6.88	0.290	0.000	0.000	0.090	1.050	0.590

GROUPER, BLACK — MYCTEROPERCA BONACI — 006037 — AREA- GULF — SITE- R3 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0009	0009	0010	0010	0009	0009	0010	0009	0010	0010	0010	0010
N DET.	0000	0001	0002	0000	0000	0004	0001	0000	0000	0002	0005	0005	0001	0002	0000
MEAN	0.487	0.700	0.076	4.822	1.037	0.038	0.205	0.170	5.27	0.263	0.265	0.253	0.082	0.598	0.570
S. D.	0.126	0.396	0.037	1.216	0.181	0.016	0.069	0.066	1.38	0.155	0.204	0.150	0.038	0.250	0.152
LOW	0.360	0.060	0.040	3.200	0.750	0.010	0.110	0.100	3.50	0.125	0.060	0.120	0.020	0.200	0.380
HIGH	0.750	1.440	0.140	6.825	1.250	0.055	0.310	0.290	8.10	0.570	0.440	0.440	0.130	1.000	0.780

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

GROUPER, YELLOWMOUTH — MYCTEROPERCA INTERSTITIALIS — 006038 — AREA- SOUTH ATLANTIC — SITE- B6 — MUSCLE

LENGTH	NUM	10	MEAN	0.850	S. D.	0.000	LOW	0.850	HIGH	0.850					
WEIGHT	NUM	10	MEAN	8.618	S. D.	0.000	LOW	8.618	HIGH	8.618					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0002	0000	0000	0005	0000	0000	0000	0002	0008	0007	0000	0002	0000
MEAN	0.228	0.583	0.074	7.498	0.761	0.044	0.180	0.144	3.66	0.174	0.200	0.367	0.072	0.962	0.573
S. D.	0.065	0.229	0.036	7.841	0.192	0.015	0.089	0.063	0.99	0.068	0.113	0.181	0.019	0.532	0.217
LOW	0.125	0.250	0.030	1.700	0.485	0.030	0.070	0.060	2.43	0.070	0.120	0.160	0.040	0.400	0.300
HIGH	0.335	0.940	0.130	28.500	1.055	0.070	0.330	0.235	5.25	0.290	0.280	0.500	0.110	1.750	0.940

GROUPER, YELLOWMOUTH — MYCTEROPERCA INTERSTITIALIS — 006038 — AREA- SOUTH ATLANTIC — SITE- B6 — LIVER

LENGTH	NUM	1	MEAN	0.850	S. D.	0.000	LOW	0.850	HIGH	0.850					
WEIGHT	NUM	1	MEAN	8.618	S. D.	0.000	LOW	8.618	HIGH	8.618					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001
MEAN	2.520	0.040	2.240	1.720	1.015	0.050	0.050	9.080	41.90	0.220	0.900	0.650	1.220	1.000	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	2.520	0.040	2.240	1.720	1.015	0.050	0.050	9.080	41.90	0.220	0.900	0.650	1.220	1.000	0.000

GAG — MYCTEROPERCA MICROLEPIS — 006040 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0010	0000	0002	0000
MEAN	0.683	0.272	0.066	3.323	1.042	0.031	0.244	0.183	3.84	0.178	0.000	0.000	0.064	0.453	0.505
S. D.	0.239	0.099	0.013	2.262	0.488	0.004	0.168	0.054	0.92	0.054	0.000	0.000	0.020	0.221	0.151
LOW	0.400	0.185	0.050	1.270	0.520	0.025	0.060	0.090	2.90	0.120	0.000	0.000	0.040	0.050	0.310
HIGH	1.080	0.500	0.090	7.450	2.300	0.040	0.530	0.250	6.25	0.280	0.000	0.000	0.110	0.810	0.810

GAG — MYCTEROPERCA MICROLEPIS — 006040 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0019	0020	0020	0020	0019	0019	0020	0020	0020	0020	0020
N DET.	0000	0000	0002	0000	0000	0005	0001	0000	0000	0000	0015	0012	0002	0001	0000
MEAN	0.429	0.319	0.051	4.547	0.204	0.033	0.160	0.167	4.20	0.158	0.204	0.309	0.075	0.639	0.475
S. D.	0.130	0.153	0.019	2.454	0.242	0.018	0.095	0.062	1.31	0.081	0.129	0.177	0.033	0.331	0.214
LOW	0.230	0.100	0.020	0.600	0.330	0.010	0.030	0.050	1.44	0.060	0.030	0.060	0.025	0.280	0.010
HIGH	0.650	0.630	0.090	10.000	1.270	0.083	0.405	0.270	6.21	0.340	0.370	0.500	0.160	1.650	0.940

SCAMP — MYCTEROPERCA PHENAX — 006041 — AREA- SOUTH ATLANTIC — SITE- B5 — MUSCLE

LENGTH	NUM	10	MEAN	0.572	S. D.	0.041	LOW	0.480	HIGH	0.630					
WEIGHT	NUM	10	MEAN	4.000	S. D.	0.628	LOW	2.724	HIGH	5.039					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0008	0000	0000	0000
MEAN	0.347	0.336	0.051	3.267	0.662	0.028	0.146	0.196	3.23	0.179	0.133	0.500	0.076	0.552	0.483
S. D.	0.056	0.066	0.011	1.554	0.133	0.012	0.103	0.114	0.73	0.054	0.102	0.269	0.028	0.159	0.118
LOW	0.280	0.250	0.035	1.520	0.480	0.010	0.040	0.060	2.25	0.090	0.060	0.310	0.030	0.255	0.310
HIGH	0.480	0.440	0.070	6.195	0.950	0.050	0.333	0.380	4.94	0.255	0.250	0.690	0.120	0.750	0.625

SCAMP — MYCTEROPERCA PHENAX — 006041 — AREA- SOUTH ATLANTIC — SITE- B5 — LIVER

LENGTH	NUM	1	MEAN	0.572	S. D.	0.000	LOW	0.572	HIGH	0.572					
WEIGHT	NUM	1	MEAN	4.000	S. D.	0.000	LOW	4.000	HIGH	4.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	3.700	0.630	1.690	4.250	3.300	0.130	0.190	18.130	59.38	0.210	0.000	1.810	1.250	1.300	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	3.700	0.630	1.690	4.250	3.300	0.130	0.190	18.130	59.38	0.210	0.000	1.810	1.250	1.300	0.220

PERCH, WHITE — MORONE AMERICANA — 007001 — AREA- NORTH ATLANTIC — SITE- M8 — H&G, TAILLESS

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0019	0019	0018	0018	0019	0019	0019	0019	0019	0019	0018	0019	0019	0018
N DET.	0002	0000	0001	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.055	1.584	0.119	2.143	1.166	0.158	0.459	1.224	14.66	0.479	0.400	0.963	2.927	2.067	1.883
S. D.	0.031	0.518	0.037	1.334	0.457	0.049	0.181	0.860	5.07	0.106	0.153	0.445	1.271	0.533	0.798
LOW	0.020	0.440	0.060	0.300	0.435	0.050	0.190	0.190	6.19	0.290	0.190	0.410	0.480	1.000	0.060
HIGH	0.120	2.220	0.170	5.000	2.225	0.235	0.785	4.065	27.62	0.720	0.870	1.810	5.200	2.810	3.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

PERCH, WHITE — MORONE AMERICANA — 007001 — AREA- NORTH ATLANTIC — SITE- M8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.112	0.752	0.068	1.704	1.470	0.078	0.535	1.027	7.23	0.283	0.155	0.700	0.598	0.950	1.010
S. D.	0.020	0.123	0.008	0.480	0.409	0.020	0.407	0.310	0.76	0.006	0.049	0.000	0.175	0.371	0.035
LOW	0.100	0.630	0.060	1.400	1.120	0.055	0.205	0.800	6.69	0.280	0.120	0.000	0.495	0.535	0.985
HIGH	0.135	0.875	0.075	2.258	1.920	0.090	0.990	1.380	8.09	0.290	0.190	0.700	0.800	1.250	1.035

PERCH, WHITE — MORONE AMERICANA — 007001 — AREA- NORTH ATLANTIC — SITE- M9 — MUSCLE

LENGTH	NUM	5	MEAN	0.174	S. D.	0.021	LOW	0.151	HIGH	0.202					
WEIGHT	NUM	5	MEAN	0.097	S. D.	0.037	LOW	0.061	HIGH	0.149					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0000	0000
MEAN	0.141	0.606	0.073	1.600	0.946	0.048	0.208	0.951	8.27	0.240	0.000	0.000	0.392	0.605	0.567
S. D.	0.067	0.401	0.034	0.428	0.288	0.019	0.167	0.409	2.41	0.103	0.000	0.000	0.141	0.193	0.160
LOW	0.040	0.260	0.040	1.225	0.600	0.030	0.090	0.565	4.81	0.080	0.000	0.000	0.270	0.310	0.345
HIGH	0.200	1.300	0.130	2.125	1.320	0.080	0.500	1.560	10.59	0.350	0.000	0.000	0.570	0.850	0.690

PERCH, WHITE — MORONE AMERICANA — 007001 — AREA- NORTH ATLANTIC — SITE- R5 — MUSCLE

LENGTH	NUM	10	MEAN	0.212	S. D.	0.000	LOW	0.212	HIGH	0.212					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0007	0000	0000	0000
MEAN	0.176	0.763	0.095	1.976	0.463	0.028	0.188	0.383	4.81	0.182	0.147	0.273	0.398	0.798	0.553
S. D.	0.052	0.511	0.053	1.015	0.094	0.009	0.093	0.073	0.87	0.056	0.096	0.097	0.160	0.150	0.131
LOW	0.100	0.310	0.040	0.750	0.320	0.010	0.130	0.300	4.06	0.100	0.060	0.190	0.080	0.630	0.250
HIGH	0.255	1.880	0.220	3.600	0.600	0.040	0.380	0.510	6.88	0.260	0.250	0.380	0.630	1.130	0.750

PERCH, WHITE — MORONE AMERICANA — 007001 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	9	MEAN	0.231	S. D.	0.000	LOW	0.231	HIGH	0.231					
WEIGHT	NUM	9	MEAN	0.199	S. D.	0.000	LOW	0.199	HIGH	0.199					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0004	0000	0001	0000
MEAN	0.216	0.401	0.075	2.133	0.738	0.039	0.185	0.527	4.13	0.274	0.493	0.180	0.528	0.935	0.892
S. D.	0.025	0.193	0.046	1.443	0.294	0.008	0.064	0.363	1.10	0.118	0.352	0.155	0.260	0.492	0.354
LOW	0.170	0.130	0.030	0.600	0.360	0.030	0.130	0.030	2.75	0.140	0.190	0.040	0.270	0.370	0.565
HIGH	0.250	0.750	0.180	4.750	1.180	0.050	0.310	1.100	6.40	0.465	0.880	0.430	0.970	1.880	1.630

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- NORTH ATLANTIC — SITE- M6 — MUSCLE

LENGTH	NUM	16	MEAN	0.446	S. D.	0.027	LOW	0.385	HIGH	0.510					
WEIGHT	NUM	16	MEAN	1.399	S. D.	0.225	LOW	0.915	HIGH	2.014					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0016	0016	0015	0015	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0008	0000	0000	0001	0000	0000	0000	0000	0000	0000	0016	0014	0000	0016	0000
MEAN	0.052	0.268	0.055	2.020	0.916	0.026	0.237	0.320	3.46	0.256	0.000	0.155	0.167	0.000	0.526
S. D.	0.038	0.106	0.011	1.126	0.252	0.008	0.171	0.155	0.77	0.126	0.000	0.134	0.037	0.000	0.167
LOW	0.020	0.020	0.040	0.475	0.500	0.010	0.060	0.060	2.63	0.175	0.000	0.060	0.100	0.000	0.380
HIGH	0.140	0.470	0.075	5.000	1.545	0.040	0.560	0.540	6.09	0.710	0.000	0.250	0.260	0.000	0.845

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- NORTH ATLANTIC — SITE- N7 — MUSCLE

LENGTH	NUM	1	MEAN	0.670	S. D.	0.000	LOW	0.670	HIGH	0.670					
WEIGHT	NUM	1	MEAN	3.632	S. D.	0.000	LOW	3.632	HIGH	3.632					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.495	0.530	0.075	1.546	0.693	0.020	0.130	0.345	3.75	0.225	0.000	0.000	0.135	0.720	0.420
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.495	0.530	0.075	1.546	0.693	0.020	0.130	0.345	3.75	0.225	0.000	0.000	0.135	0.720	0.420

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- NORTH ATLANTIC — SITE- R5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0000	0001	0005	0000	0000	0004	0001	0000	0000	0003	0006	0007	0000	0003	0000
MEAN	0.170	0.482	0.069	1.702	0.596	0.037	0.138	0.355	5.23	0.218	0.338	0.370	0.170	0.629	0.590
S. D.	0.047	0.405	0.034	1.020	0.217	0.019	0.093	0.110	4.94	0.106	0.295	0.230	0.087	0.309	0.147
LOW	0.120	0.050	0.040	0.100	0.340	0.020	0.056	0.210	1.53	0.090	0.100	0.140	0.030	0.360	0.375
HIGH	0.265	1.250	0.110	3.050	0.890	0.070	0.305	0.555	18.93	0.400	0.750	0.600	0.310	1.250	0.870

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- NORTH ATLANTIC — SITE- R5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.140	0.640	1.530	1.225	1.220	0.070	0.392	2.285	15.89	0.360	0.390	0.000	1.750	1.880	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.140	0.640	1.530	1.225	1.220	0.070	0.392	2.285	15.89	0.360	0.390	0.000	1.750	1.880	0.400

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- NORTH ATLANTIC — SITE- R8 — MUSCLE

LENGTH	NUM	10	MEAN	0.363	S. D.	0.000	LOW	0.363	HIGH	0.363					
WEIGHT	NUM	10	MEAN	0.652	S. D.	0.000	LOW	0.652	HIGH	0.652					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0010	0009	0000	0000	0000
MEAN	0.097	0.482	0.084	3.599	0.321	0.026	0.302	0.286	4.66	0.205	0.000	0.380	0.136	0.719	0.501
S. D.	0.055	0.294	0.056	2.007	0.088	0.008	0.287	0.089	0.99	0.039	0.000	0.000	0.026	0.163	0.103
LOW	0.040	0.180	0.050	1.300	0.120	0.010	0.060	0.150	3.31	0.130	0.000	0.000	0.105	0.440	0.380
HIGH	0.240	1.060	0.240	8.000	0.410	0.040	0.880	0.400	7.13	0.265	0.000	0.380	0.180	0.940	0.660

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- CALIFORNIA — SITE- F1 — MUSCLE

LENGTH	NUM	5	MEAN	0.760	S. D.	0.226	LOW	0.450	HIGH	1.050					
WEIGHT	NUM	5	MEAN	5.266	S. D.	4.606	LOW	1.135	HIGH	13.166					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.617	0.363	0.051	1.316	0.557	0.026	0.093	0.289	3.78	0.172	0.130	0.000	0.086	0.625	0.528
S. D.	0.357	0.055	0.017	0.743	0.249	0.015	0.003	0.121	0.45	0.032	0.000	0.000	0.017	0.161	0.119
LOW	0.160	0.310	0.030	0.300	0.230	0.010	0.090	0.165	3.31	0.130	0.000	0.000	0.060	0.440	0.340
HIGH	1.080	0.440	0.075	2.330	0.920	0.045	0.095	0.440	4.44	0.220	0.130	0.000	0.100	0.810	0.670

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- CALIFORNIA — SITE- F1 — LIVER

LENGTH	NUM	1	MEAN	0.737	S. D.	0.000	LOW	0.737	HIGH	0.737					
WEIGHT	NUM	1	MEAN	4.900	S. D.	0.000	LOW	4.900	HIGH	4.900					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	1.030	0.380	0.440	2.550	2.430	0.030	0.060	4.750	26.88	0.240	0.160	0.310	1.050	0.220	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.030	0.380	0.440	2.550	2.430	0.030	0.060	4.750	26.88	0.240	0.160	0.310	1.050	0.220	0.690

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- CALIFORNIA — SITE- F2 — MUSCLE

LENGTH	NUM	27	MEAN	0.693	S. D.	0.152	LOW	0.470	HIGH	1.190					
WEIGHT	NUM	27	MEAN	4.587	S. D.	3.927	LOW	1.070	HIGH	20.500					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0028	0028	0028	0027	0027	0028	0027	0028	0028	0028	0028	0028	0026	0028	0027
N DET.	0001	0000	0004	0001	0000	0010	0001	0000	0000	0003	0025	0024	0001	0003	0000
MEAN	0.432	0.387	0.068	1.981	0.494	0.028	0.151	0.305	3.73	0.188	0.187	0.200	0.112	0.587	0.461
S. D.	0.345	0.190	0.043	0.873	0.252	0.007	0.094	0.128	0.72	0.083	0.095	0.096	0.028	0.162	0.152
LOW	0.090	0.050	0.020	0.300	0.020	0.015	0.050	0.030	2.14	0.020	0.090	0.120	0.060	0.280	0.220
HIGH	1.685	0.750	0.235	3.585	1.025	0.040	0.380	0.530	4.94	0.430	0.280	0.310	0.180	0.910	0.900

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- CALIFORNIA — SITE- F2 — LIVER

LENGTH	NUM	1	MEAN	0.718	S. D.	0.000	LOW	0.718	HIGH	0.718					
WEIGHT	NUM	1	MEAN	6.031	S. D.	0.000	LOW	6.031	HIGH	6.031					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	1.550	0.500	1.380	2.675	1.900	0.030	0.060	6.880	38.75	0.180	0.310	0.380	0.980	0.380	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.550	0.500	1.380	2.675	1.900	0.030	0.060	6.880	38.75	0.180	0.310	0.380	0.980	0.380	0.750

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- CALIFORNIA — SITE- F4 — MUSCLE

LENGTH	NUM	7	MEAN	0.603	S. D.	0.146	LOW	0.445	HIGH	0.770					
WEIGHT	NUM	7	MEAN	3.406	S. D.	2.063	LOW	1.212	HIGH	5.670					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0001	0002	0000	0000	0004	0001	0000	0000	0002	0005	0006	0001	0001	0000
MEAN	0.539	0.546	0.068	1.470	0.690	0.023	0.157	0.379	3.54	0.135	0.250	0.400	0.114	0.665	0.534
S. D.	0.458	0.205	0.031	1.009	0.145	0.015	0.077	0.081	0.57	0.053	0.000	0.000	0.021	0.325	0.115
LOW	0.135	0.285	0.040	0.450	0.460	0.010	0.095	0.235	2.42	0.075	0.250	0.000	0.090	0.050	0.400
HIGH	1.195	0.886	0.110	3.370	0.875	0.040	0.283	0.470	4.03	0.200	0.250	0.400	0.145	0.940	0.720

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

BASS, STRIPED — MORONE SAXATILIS — 007004 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM 40	MEAN 0.750	S. D. 0.176	LOW 0.460	HIGH 1.150		
WEIGHT	NUM 40	MEAN 6.738	S. D. 5.837	LOW 1.105	HIGH 22.870		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0040	0040	0040	0038	0039	0040	0040	0039	0040	0040	0040	0040	0038	0040	0038
N DET.	0001	0000	0000	0000	0000	0015	0003	0000	0000	0000	0035	0038	0000	0002	0000
MEAN	0.858	0.442	0.062	2.289	0.464	0.028	0.151	0.204	4.23	0.181	0.130	0.315	0.111	0.604	0.460
S. D.	0.429	0.334	0.020	1.055	0.213	0.011	0.155	0.085	0.84	0.048	0.049	0.092	0.036	0.193	0.131
LOW	0.320	0.190	0.030	0.300	0.080	0.010	0.060	0.040	3.25	0.050	0.060	0.250	0.050	0.185	0.190
HIGH	2.000	2.190	0.140	4.500	1.045	0.050	0.875	0.375	7.44	0.260	0.190	0.380	0.200	1.060	0.780

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- NORTH ATLANTIC — SITE- H9 — MUSCLE

LENGTH	NUM 1	MEAN 1.610	S. D. 0.000	LOW 1.610	HIGH 1.610		
WEIGHT	NUM 1	MEAN 19.976	S. D. 0.000	LOW 19.976	HIGH 19.976		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.245	0.405	0.085	3.025	0.640	0.020	0.250	0.350	4.66	0.190	0.000	0.000	0.085	0.750	0.410
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.245	0.405	0.085	3.025	0.640	0.020	0.250	0.350	4.66	0.190	0.000	0.000	0.085	0.750	0.410

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM 1	MEAN 1.500	S. D. 0.000	LOW 1.500	HIGH 1.500		
WEIGHT	NUM 1	MEAN 14.061	S. D. 0.000	LOW 14.061	HIGH 14.061		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.135	0.595	0.090	3.266	0.390	0.025	0.130	0.305	4.93	0.210	0.000	0.000	0.090	0.595	0.280
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.135	0.595	0.090	3.266	0.390	0.025	0.130	0.305	4.93	0.210	0.000	0.000	0.090	0.595	0.280

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM 9	MEAN 1.540	S. D. 0.078	LOW 1.440	HIGH 1.660		
WEIGHT	NUM 9	MEAN 15.775	S. D. 1.679	LOW 13.154	HIGH 18.597		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0008	0008	0009	0009	0008	0008	0008	0008	0008	0008	0008	0008	0008	0006
N DET.	0000	0000	0000	0000	0000	0004	0000	0000	0000	0000	0008	0007	0000	0000	0000
MEAN	0.687	0.438	0.071	3.657	0.806	0.030	0.188	0.221	6.43	0.172	0.000	0.250	0.131	0.615	0.568
S. D.	0.446	0.243	0.018	1.349	0.266	0.014	0.170	0.136	0.63	0.073	0.000	0.000	0.022	0.199	0.219
LOW	0.150	0.155	0.050	2.200	0.440	0.010	0.060	0.080	5.62	0.060	0.000	0.000	0.105	0.440	0.440
HIGH	1.610	0.830	0.100	5.875	1.250	0.040	0.560	0.505	7.50	0.310	0.000	0.250	0.170	1.060	1.000

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM 2	MEAN 1.590	S. D. 0.071	LOW 1.540	HIGH 1.640		
WEIGHT	NUM 2	MEAN 15.195	S. D. 2.886	LOW 13.154	HIGH 17.236		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.345	0.455	0.075	3.113	0.790	0.030	0.095	0.210	6.49	0.108	0.000	0.000	0.105	0.535	0.415
S. D.	0.332	0.502	0.021	1.715	0.000	0.000	0.049	0.198	0.06	0.053	0.000	0.000	0.035	0.134	0.035
LOW	0.110	0.100	0.060	1.900	0.790	0.000	0.060	0.070	6.44	0.070	0.000	0.000	0.080	0.440	0.390
HIGH	0.580	0.810	0.090	4.325	0.790	0.030	0.130	0.350	6.53	0.145	0.000	0.000	0.130	0.630	0.440

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM 11	MEAN 1.673	S. D. 0.115	LOW 1.490	HIGH 1.900		
WEIGHT	NUM 11	MEAN 22.845	S. D. 4.587	LOW 13.608	HIGH 29.938		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0010	0011	0011	0011	0011	0009
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0007	0008	0000	0002	0000
MEAN	0.555	0.314	0.145	3.145	0.771	0.024	0.145	0.725	6.95	0.212	0.425	0.680	0.165	0.581	0.511
S. D.	0.315	0.142	0.101	1.863	0.180	0.011	0.076	0.466	2.58	0.045	0.474	0.659	0.103	0.328	0.188
LOW	0.050	0.143	0.050	0.400	0.535	0.010	0.060	0.130	0.50	0.140	0.060	0.130	0.080	0.220	0.190
HIGH	1.120	0.630	0.350	6.650	1.130	0.040	0.295	1.630	9.78	0.285	1.120	1.410	0.440	1.190	0.750

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM 2	MEAN 1.845	S. D. 0.078	LOW 1.790	HIGH 1.900		
WEIGHT	NUM 2	MEAN 27.897	S. D. 2.887	LOW 25.855	HIGH 29.938		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.435	0.315	2.910	2.355	2.900	0.015	0.250	6.455	60.91	0.290	0.640	0.000	0.700	1.235	0.750
S. D.	0.035	0.177	1.329	0.000	0.000	0.007	0.212	1.124	56.16	0.057	0.679	0.000	0.212	0.191	0.000
LOW	0.410	0.190	1.970	0.000	0.000	0.010	0.100	5.660	21.20	0.250	0.160	0.000	0.550	1.100	0.000
HIGH	0.460	0.440	3.850	2.355	2.900	0.020	0.400	7.250	100.62	0.330	1.120	0.000	0.850	1.370	0.750

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- SOUTH ATLANTIC — SITE- M4 — MUSCLE

LENGTH	NUM	10	MEAN	1.380	S. D.	0.217	LOW	1.080	HIGH	1.660					
WEIGHT	NUM	10	MEAN	11.388	S. D.	5.642	LOW	4.989	HIGH	21.338					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0000	0000	0000	0002	0000	0000	0000	0000	0010	0010	0000	0000	0000
MEAN	0.314	0.462	0.088	2.917	0.985	0.022	0.129	0.230	5.15	0.178	0.000	0.000	0.102	0.582	0.448
S. D.	0.282	0.107	0.055	1.160	0.354	0.008	0.114	0.064	1.09	0.047	0.000	0.000	0.025	0.237	0.153
LOW	0.030	0.345	0.030	1.300	0.280	0.010	0.060	0.090	2.63	0.080	0.000	0.000	0.060	0.310	0.190
HIGH	0.900	0.630	0.180	5.000	1.490	0.030	0.380	0.320	6.30	0.240	0.000	0.000	0.140	0.940	0.725

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- GULF — SITE- E4 — MUSCLE

LENGTH	NUM	3	MEAN	1.962	S. D.	0.377	LOW	1.530	HIGH	2.222					
WEIGHT	NUM	4	MEAN	13.276	S. D.	2.991	LOW	9.988	HIGH	16.783					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0003	0000
MEAN	0.815	0.296	0.061	2.502	0.704	0.020	0.119	0.491	5.49	0.193	0.000	0.000	0.096	0.630	0.520
S. D.	0.509	0.112	0.002	0.535	0.353	0.000	0.055	0.368	1.37	0.030	0.000	0.000	0.029	0.000	0.055
LOW	0.250	0.160	0.060	1.800	0.210	0.020	0.060	0.140	3.94	0.150	0.000	0.000	0.060	0.000	0.440
HIGH	1.330	0.400	0.065	3.000	1.005	0.020	0.190	0.980	6.81	0.220	0.000	0.000	0.130	0.630	0.560

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	5	MEAN	1.608	S. D.	0.081	LOW	1.520	HIGH	1.700					
WEIGHT	NUM	5	MEAN	17.830	S. D.	5.663	LOW	12.701	HIGH	25.855					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0002	0000	0000	0000	0000	0000	0000	0003	0005	0002	0000	0000	0000
MEAN	0.411	0.374	0.117	5.294	0.768	0.170	0.100	0.558	4.67	0.075	0.000	0.327	0.151	0.515	0.412
S. D.	0.110	0.213	0.150	3.031	0.260	0.195	0.035	0.107	0.80	0.007	0.000	0.264	0.027	0.270	0.137
LOW	0.246	0.120	0.020	0.980	0.320	0.010	0.065	0.426	3.53	0.070	0.000	0.150	0.115	0.310	0.185
HIGH	0.540	0.620	0.290	8.450	0.970	0.430	0.136	0.690	5.47	0.080	0.000	0.630	0.190	0.970	0.545

SAILFISH — ISTIOPHORUS PLATYPTERUS — 011001 — AREA- GULF — SITE- L5 — LIVER

LENGTH	NUM	1	MEAN	1.700	S. D.	0.000	LOW	1.700	HIGH	1.700					
WEIGHT	NUM	1	MEAN	21.565	S. D.	0.000	LOW	21.565	HIGH	21.565					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	1.780	0.500	2.990	3.200	0.670	0.030	0.060	6.500	17.50	0.170	0.220	0.000	0.440	0.560	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.780	0.500	2.990	3.200	0.670	0.030	0.060	6.500	17.50	0.170	0.220	0.000	0.440	0.560	0.000

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	4	MEAN	2.288	S. D.	0.178	LOW	2.030	HIGH	2.440					
WEIGHT	NUM	4	MEAN	106.350	S. D.	19.936	LOW	77.634	HIGH	122.580					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0003
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	1.643	0.255	0.073	3.116	1.156	0.028	0.131	0.133	5.50	0.095	0.000	0.000	0.089	0.358	0.342
S. D.	0.499	0.069	0.015	1.669	0.267	0.004	0.120	0.153	0.63	0.047	0.000	0.000	0.002	0.062	0.033
LOW	1.280	0.160	0.060	1.600	0.865	0.025	0.060	0.040	4.81	0.050	0.000	0.000	0.085	0.310	0.310
HIGH	2.380	0.310	0.090	5.500	1.500	0.030	0.310	0.360	6.25	0.160	0.000	0.000	0.090	0.440	0.375

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- SOUTH ATLANTIC — SITE- B5 — MUSCLE

LENGTH	NUM	1	MEAN	2.340	S. D.	0.000	LOW	2.340	HIGH	2.340					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	3.775	0.215	0.070	2.700	1.990	0.040	0.060	0.360	5.84	0.125	0.000	0.000	0.080	0.500	0.460
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	3.775	0.215	0.070	2.700	1.990	0.040	0.060	0.360	5.84	0.125	0.000	0.000	0.080	0.500	0.460

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	4	MEAN	3.550	S. D.	0.084	LOW	3.454	HIGH	3.658					
WEIGHT	NUM	9	MEAN	167.630	S. D.	47.998	LOW	72.576	HIGH	215.800					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0009	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010
N DET.	0000	0002	0002	0000	0000	0005	0000	0000	0000	0002	0009	0007	0001	0003	0001
MEAN	9.453	0.416	0.071	2.731	2.423	0.052	0.131	0.323	8.78	0.258	0.370	0.577	0.107	0.830	0.429
S. D.	10.565	0.206	0.062	2.073	1.246	0.054	0.076	0.174	2.91	0.255	0.000	0.584	0.047	0.418	0.160
LOW	0.865	0.180	0.020	0.913	0.815	0.010	0.040	0.110	5.50	0.040	0.000	0.200	0.055	0.300	0.260
HIGH	37.800	0.750	0.210	7.300	4.950	0.140	0.287	0.710	13.57	0.780	0.370	1.250	0.210	1.430	0.690

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	2	MEAN	3.505	S. D.	0.072	LOW 3.454 HIGH 3.556
WEIGHT	NUM	2	MEAN	186.883	S. D.	7.698	LOW 181.440 HIGH 192.326

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0001	0000
MEAN	5.675	0.645	0.905	2.763	13.375	0.028	0.170	1.433	210.50	9.255	0.000	0.222	0.265	1.000	0.630
S. D.	0.926	0.148	0.290	0.301	2.581	0.004	0.113	1.050	135.90	12.537	0.000	0.000	0.191	0.000	0.000
LOW	5.020	0.540	0.700	2.550	11.550	0.025	0.090	0.690	114.40	0.390	0.000	0.000	0.130	0.000	0.000
HIGH	6.330	0.750	1.110	2.975	15.200	0.030	0.250	2.175	306.59	18.120	0.000	0.222	0.400	1.000	0.630

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	2	MEAN	85.080	S. D.	24.013	LOW 68.100 HIGH 102.060

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0001	0000	0001	0000	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	1.162	0.312	0.077	1.595	1.390	0.018	0.057	0.248	5.44	0.137	0.235	0.000	0.120	0.522	0.417
S. D.	0.906	0.105	0.021	0.460	0.051	0.011	0.006	0.085	1.28	0.034	0.191	0.000	0.010	0.115	0.216
LOW	0.120	0.190	0.060	1.270	1.335	0.010	0.050	0.150	4.00	0.110	0.100	0.000	0.110	0.395	0.190
HIGH	1.765	0.375	0.100	1.920	1.435	0.025	0.060	0.305	6.47	0.175	0.370	0.000	0.130	0.620	0.620

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	2	MEAN	85.080	S. D.	24.013	LOW 68.100 HIGH 102.060

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	6.857	0.530	11.405	1.113	2.500	0.020	1.220	7.840	59.38	0.740	0.595	0.000	1.290	0.455	0.625
S. D.	4.500	0.226	5.961	0.230	0.000	0.000	1.287	5.968	22.10	0.707	0.049	0.000	0.240	0.021	0.092
LOW	2.070	0.370	7.190	0.950	0.000	0.000	0.310	3.620	43.75	0.240	0.560	0.000	1.120	0.440	0.560
HIGH	11.000	0.690	15.620	1.275	2.500	0.020	2.130	12.060	75.00	1.240	0.630	0.000	1.460	0.470	0.690

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- SOUTH ATLANTIC — SITE- M4 — MUSCLE

LENGTH	NUM	1	MEAN	2.530	S. D.	0.000	LOW 2.530 HIGH 2.530
WEIGHT	NUM	1	MEAN	150.728	S. D.	0.000	LOW 150.728 HIGH 150.728

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	3.650	0.160	0.080	5.150	1.700	0.000	0.060	0.070	6.88	0.090	0.000	0.000	0.140	0.560	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	3.650	0.160	0.080	5.150	1.700	0.000	0.060	0.070	6.88	0.090	0.000	0.000	0.140	0.560	0.560

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	4	MEAN	100.788	S. D.	15.033	LOW 89.890 HIGH 123.030

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0004	0000	0001	0000
MEAN	1.785	0.321	0.109	1.910	1.230	0.026	0.120	0.459	4.49	0.155	0.120	0.000	0.089	0.357	0.549
S. D.	0.421	0.066	0.034	1.444	0.382	0.007	0.028	0.356	1.08	0.103	0.000	0.000	0.028	0.040	0.116
LOW	1.370	0.250	0.080	0.550	0.780	0.015	0.090	0.110	3.50	0.040	0.000	0.000	0.070	0.310	0.440
HIGH	2.200	0.410	0.145	3.833	1.713	0.030	0.145	0.875	5.75	0.290	0.120	0.000	0.130	0.380	0.690

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- HAWAII — SITE- H4 — MUSCLE

LENGTH	NUM	8	MEAN	2.512	S. D.	0.429	LOW 2.250 HIGH 3.550
WEIGHT	NUM	8	MEAN	103.824	S. D.	73.614	LOW 61.236 HIGH 283.500

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0001	0002	0000	0000	0002	0000	0000	0000	0000	0007	0005	0001	0001	0001
MEAN	2.776	0.404	0.144	3.563	2.216	0.052	0.171	0.220	5.97	0.341	0.440	0.403	0.120	0.781	0.468
S. D.	2.075	0.105	0.097	2.517	1.193	0.043	0.096	0.087	3.39	0.234	0.000	0.337	0.039	0.459	0.171
LOW	0.130	0.295	0.070	0.700	0.940	0.010	0.040	0.110	2.45	0.050	0.000	0.130	0.060	0.250	0.350
HIGH	6.565	0.575	0.300	7.300	4.000	0.130	0.295	0.350	13.57	0.700	0.440	0.780	0.160	1.500	0.845

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- HAWAII — SITE- H4 — LIVER

LENGTH	NUM	5	MEAN	2.626	S. D.	0.526	LOW 2.251 HIGH 3.550
WEIGHT	NUM	5	MEAN	122.291	S. D.	91.348	LOW 61.236 HIGH 283.500

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0005	0005	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0004
N DET.	0000	0000	0000	0001	0000	0000	0001	0000	0000	0001	0000	0002	0000	0002	0000
MEAN	10.294	0.760	17.781	4.647	10.001	0.094	0.265	17.164	43.41	0.395	0.462	0.438	1.674	1.177	0.433
S. D.	6.801	0.392	8.809	1.629	10.218	0.067	0.037	7.974	35.95	0.195	0.292	0.078	0.857	0.887	0.109
LOW	4.530	0.250	2.740	3.180	3.155	0.010	0.210	4.940	7.50	0.110	0.160	0.350	0.440	0.630	0.330
HIGH	19.800	1.310	24.750	6.400	25.200	0.180	0.290	26.070	98.21	0.540	0.780	0.500	2.610	2.200	0.550

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- HAWAII — SITE- J5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	91.174	S. D.	31.433	LOW	68.947	HIGH	113.400					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	5.062	0.359	0.335	1.292	2.305	0.046	0.191	0.540	6.98	0.227	0.000	0.000	0.195	0.685	0.530
S. D.	6.008	0.037	0.262	1.261	1.549	0.000	0.027	0.283	1.90	0.146	0.000	0.000	0.148	0.078	0.099
LOW	0.813	0.333	0.150	0.400	1.210	0.000	0.172	0.340	5.63	0.123	0.000	0.000	0.090	0.630	0.460
HIGH	9.310	0.385	0.520	2.183	3.400	0.046	0.210	0.740	8.32	0.330	0.000	0.000	0.300	0.740	0.600

MARLIN, BLUE — MAKAIRA NIGRICANS — 011002 — AREA- HAWAII — SITE- J5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	91.174	S. D.	31.433	LOW	68.947	HIGH	113.400					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	2.375	0.595	4.210	3.123	4.475	0.120	0.415	7.400	74.82	0.380	0.720	0.000	1.005	1.250	1.170
S. D.	1.025	0.672	3.041	0.110	2.722	0.127	0.389	4.907	39.15	0.212	0.000	0.000	0.516	0.000	0.325
LOW	1.650	0.120	2.060	3.045	2.550	0.030	0.140	3.930	47.14	0.230	0.000	0.000	0.640	0.000	0.940
HIGH	3.100	1.070	6.360	3.200	6.400	0.210	0.690	10.870	102.50	0.530	0.720	0.000	1.370	1.250	1.400

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- NORTH ATLANTIC — SITE- M9 — MUSCLE

LENGTH	NUM	21	MEAN	1.595	S. D.	0.087	LOW	1.410	HIGH	1.720					
WEIGHT	NUM	21	MEAN	23.674	S. D.	3.500	LOW	17.236	HIGH	31.300					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0021	0020	0021	0021	0020	0021	0021	0021	0021	0021	0021	0021	0020
N DET.	0001	0000	0000	0000	0000	0005	0000	0000	0000	0000	0019	0020	0000	0001	0000
MEAN	0.690	0.520	0.106	3.080	0.788	0.026	0.208	0.259	6.42	0.153	0.470	0.080	0.114	0.570	0.438
S. D.	0.418	0.565	0.055	1.077	0.251	0.024	0.164	0.144	0.96	0.044	0.042	0.000	0.030	0.168	0.159
LOW	0.050	0.130	0.060	1.450	0.020	0.010	0.060	0.060	3.63	0.070	0.440	0.000	0.075	0.310	0.080
HIGH	1.730	2.560	0.280	5.000	1.320	0.110	0.630	0.510	7.88	0.230	0.500	0.080	0.190	0.940	0.795

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	1	MEAN	1.650	S. D.	0.000	LOW	1.650	HIGH	1.650					
WEIGHT	NUM	1	MEAN	24.040	S. D.	0.000	LOW	24.040	HIGH	24.040					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.690	0.430	0.100	2.100	1.120	0.010	0.060	0.190	6.30	0.150	0.120	0.000	0.100	0.370	0.370
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.690	0.430	0.100	2.100	1.120	0.010	0.060	0.190	6.30	0.150	0.120	0.000	0.100	0.370	0.370

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	15	MEAN	1.984	S. D.	0.277	LOW	1.500	HIGH	2.311					
WEIGHT	NUM	15	MEAN	23.300	S. D.	3.962	LOW	18.598	HIGH	31.751					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0012	0012	0015	0015	0015	0015	0015	0015	0015	0015	0015	0014
N DET.	0000	0000	0002	0000	0000	0009	0000	0000	0000	0002	0013	0012	0001	0004	0000
MEAN	0.599	0.524	0.081	2.367	0.815	0.032	0.173	0.227	5.60	0.292	0.215	0.100	0.084	0.779	0.418
S. D.	0.378	0.220	0.031	1.153	0.273	0.012	0.096	0.107	1.90	0.221	0.219	0.000	0.032	0.469	0.343
LOW	0.160	0.200	0.040	0.180	0.500	0.010	0.020	0.060	2.62	0.050	0.060	0.100	0.030	0.250	0.010
HIGH	1.505	1.050	0.130	3.800	1.260	0.040	0.386	0.430	8.57	0.810	0.370	0.100	0.140	1.780	1.500

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- NORTH ATLANTIC — SITE- R9 — LIVER

LENGTH	NUM	4	MEAN	2.191	S. D.	0.139	LOW	2.007	HIGH	2.311					
WEIGHT	NUM	4	MEAN	25.798	S. D.	5.456	LOW	18.598	HIGH	31.751					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0002	0000
MEAN	0.440	0.565	4.840	3.800	6.191	0.030	0.193	10.280	56.54	0.268	0.375	0.180	0.745	0.970	1.045
S. D.	0.415	0.344	1.268	0.995	5.929	0.020	0.174	6.802	36.76	0.140	0.232	0.087	0.361	0.495	0.491
LOW	0.070	0.300	3.500	2.725	2.500	0.010	0.070	5.130	30.63	0.060	0.060	0.130	0.380	0.620	0.750
HIGH	1.020	1.030	6.020	4.800	15.000	0.050	0.440	20.300	109.38	0.370	0.620	0.280	1.230	1.320	1.780

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	1	MEAN	1.510	S. D.	0.000	LOW	1.510	HIGH	1.510					
WEIGHT	NUM	1	MEAN	19.050	S. D.	0.000	LOW	19.050	HIGH	19.050					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.290	0.380	0.000	1.550	0.780	0.000	0.130	0.420	6.19	0.170	0.000	0.000	0.110	0.630	0.360
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.290	0.380	0.000	1.550	0.780	0.000	0.130	0.420	6.19	0.170	0.000	0.000	0.110	0.630	0.360

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM 3	MEAN 1.520	S. D. 0.060	LOW 1.460	HIGH 1.580		
WEIGHT	NUM 5	MEAN 19.505	S. D. 2.442	LOW 16.330	HIGH 22.680		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0005	0000	0001	0000
MEAN	0.731	0.415	0.122	3.080	0.895	0.038	0.095	0.318	5.93	0.195	0.493	0.203	0.098	0.714	0.663
S. D.	0.312	0.234	0.107	1.059	0.175	0.023	0.048	0.200	2.13	0.163	0.333	0.018	0.035	0.328	0.328
LOW	0.215	0.160	0.056	1.312	0.670	0.010	0.020	0.120	3.12	0.100	0.240	0.190	0.055	0.380	0.450
HIGH	1.150	0.880	0.360	4.600	1.170	0.080	0.155	0.630	9.94	0.560	0.870	0.215	0.150	1.310	1.380

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM 2	MEAN 1.550	S. D. 0.042	LOW 1.520	HIGH 1.580		
WEIGHT	NUM 4	MEAN 19.845	S. D. 2.680	LOW 16.330	HIGH 22.680		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0005	0005	0003	0001	0005	0005	0005	0005	0005	0005	0005	0005	0005	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	1.357	0.886	9.534	3.787	2.100	0.080	0.226	14.042	42.56	0.428	0.286	0.303	0.784	1.044	0.620
S. D.	1.212	0.301	8.143	3.530	0.000	0.059	0.306	6.493	16.59	0.288	0.102	0.086	0.142	0.380	0.485
LOW	0.260	0.500	3.100	1.625	0.000	0.030	0.040	6.080	28.13	0.190	0.160	0.190	0.630	0.390	0.060
HIGH	3.450	1.180	18.750	7.860	2.100	0.160	0.770	20.630	70.31	0.930	0.380	0.400	0.900	1.380	0.900

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- SOUTH ATLANTIC — SITE- N1 — MUSCLE

LENGTH	NUM 1	MEAN 1.590	S. D. 0.000	LOW 1.590	HIGH 1.590		
WEIGHT	NUM 1	MEAN 20.412	S. D. 0.000	LOW 20.412	HIGH 20.412		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.870	0.690	0.180	4.100	0.580	0.040	0.120	0.690	5.31	0.240	0.000	0.000	0.190	0.810	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.870	0.690	0.180	4.100	0.580	0.040	0.120	0.690	5.31	0.240	0.000	0.000	0.190	0.810	0.000

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- GULF — SITE- D6 — MUSCLE

LENGTH	NUM 1	MEAN 1.580	S. D. 0.000	LOW 1.580	HIGH 1.580		
WEIGHT	NUM 1	MEAN 19.504	S. D. 0.000	LOW 19.504	HIGH 19.504		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.500	0.810	2.610	8.250	1.470	0.060	0.180	2.000	14.25	0.250	0.000	0.090	0.250	1.380	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.500	0.810	2.610	8.250	1.470	0.060	0.180	2.000	14.25	0.250	0.000	0.090	0.250	1.380	0.000

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- GULF — SITE- D6 — LIVER

LENGTH	NUM 1	MEAN 1.580	S. D. 0.000	LOW 1.580	HIGH 1.580		
WEIGHT	NUM 1	MEAN 19.504	S. D. 0.000	LOW 19.504	HIGH 19.504		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.270	0.060	2.520	4.790	0.000	0.020	0.050	9.810	104.37	0.220	0.180	0.000	0.860	1.060	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.270	0.060	2.520	4.790	0.000	0.020	0.050	9.810	104.37	0.220	0.180	0.000	0.860	1.060	0.560

MARLIN, WHITE — TETRAPTURUS ALBIDUS — 011003 — AREA- GULF — SITE- E4 — MUSCLE

LENGTH	NUM 7	MEAN 1.674	S. D. 0.103	LOW 1.540	HIGH 1.810		
WEIGHT	NUM 7	MEAN 27.609	S. D. 6.265	LOW 20.870	HIGH 38.560		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0006
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0007	0007	0000	0000	0000
MEAN	1.114	0.306	0.076	3.721	1.086	0.024	0.136	0.141	5.91	0.129	0.000	0.000	0.103	0.458	0.443
S. D.	0.784	0.119	0.010	2.024	0.301	0.009	0.074	0.059	0.66	0.053	0.000	0.000	0.016	0.149	0.113
LOW	0.360	0.110	0.060	1.800	0.740	0.010	0.060	0.060	5.19	0.040	0.000	0.000	0.080	0.310	0.340
HIGH	2.640	0.500	0.090	8.000	1.640	0.030	0.250	0.240	6.81	0.190	0.000	0.000	0.120	0.720	0.660

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- O5 — MUSCLE

LENGTH	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		
WEIGHT	NUM 2	MEAN 19.479	S. D. 0.641	LOW 19.026	HIGH 19.932		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.340	0.420	0.050	2.274	0.668	0.050	0.140	0.578	6.65	0.270	0.160	0.265	0.140	0.800	0.570
S. D.	0.014	0.198	0.014	0.214	0.060	0.028	0.057	0.202	1.04	0.170	0.000	0.000	0.000	0.113	0.339
LOW	0.330	0.280	0.040	2.123	0.625	0.030	0.100	0.435	5.91	0.150	0.000	0.000	0.140	0.720	0.330
HIGH	0.350	0.560	0.060	2.425	0.710	0.070	0.180	0.720	7.38	0.390	0.160	0.265	0.140	0.880	0.810

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- D5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	18.221	S. D.	0.000	LOW	18.221	HIGH	18.221					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.120	0.190	1.710	7.650	2.280	0.040	0.120	1.880	31.25	0.260	0.220	0.000	1.180	0.500	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	0.190	1.710	7.650	2.280	0.040	0.120	1.880	31.25	0.260	0.220	0.000	1.180	0.500	0.630

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- D6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	20.687	S. D.	3.853	LOW	16.761	HIGH	24.462					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.287	0.460	0.037	1.312	0.640	0.050	0.127	0.417	7.36	0.143	0.000	0.190	0.113	0.503	0.530
S. D.	0.126	0.161	0.025	0.352	0.217	0.014	0.065	0.097	2.87	0.015	0.000	0.000	0.021	0.110	0.042
LOW	0.170	0.310	0.010	1.012	0.410	0.040	0.060	0.310	4.88	0.130	0.000	0.000	0.090	0.440	0.500
HIGH	0.420	0.630	0.060	1.700	0.840	0.060	0.190	0.500	10.50	0.160	0.000	0.190	0.130	0.630	0.560

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- D9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	14.043	S. D.	0.000	LOW	14.043	HIGH	14.043					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.500	0.080	1.100	0.630	0.010	0.060	0.110	4.19	0.160	0.000	0.000	0.070	1.130	0.870
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.500	0.080	1.100	0.630	0.010	0.060	0.110	4.19	0.160	0.000	0.000	0.070	1.130	0.870

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- G5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	22.095	S. D.	0.524	LOW	21.792	HIGH	22.700					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.233	0.750	0.080	3.567	1.177	0.030	0.333	0.413	6.94	0.210	0.000	0.000	0.123	0.683	0.440
S. D.	0.121	0.622	0.020	1.504	0.206	0.010	0.414	0.171	1.14	0.030	0.000	0.000	0.031	0.170	0.060
LOW	0.140	0.310	0.060	2.000	0.980	0.020	0.060	0.300	6.25	0.180	0.000	0.000	0.090	0.490	0.380
HIGH	0.370	1.190	0.100	5.000	1.390	0.040	0.810	0.610	8.25	0.240	0.000	0.000	0.150	0.810	0.500

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- G5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	22.095	S. D.	0.524	LOW	21.792	HIGH	22.700					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0002	0003	0000	0002	0000
MEAN	0.143	0.523	1.563	5.950	4.307	0.027	0.440	6.367	33.36	0.190	0.190	0.000	0.983	0.630	1.080
S. D.	0.121	0.526	0.927	3.606	2.096	0.015	0.271	2.107	7.40	0.053	0.000	0.000	0.307	0.000	0.589
LOW	0.050	0.190	0.500	3.400	1.920	0.010	0.130	4.750	28.50	0.130	0.000	0.000	0.700	0.000	0.440
HIGH	0.280	1.130	2.200	8.500	5.850	0.040	0.630	8.750	41.88	0.230	0.190	0.000	1.310	0.630	1.600

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- H2 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	13.847	S. D.	0.963	LOW	13.166	HIGH	14.528					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.293	0.145	0.058	1.683	0.710	0.020	0.268	0.820	6.67	0.220	0.000	0.000	0.093	0.470	0.508
S. D.	0.124	0.021	0.004	0.683	0.141	0.000	0.110	0.014	0.74	0.000	0.000	0.000	0.018	0.311	0.074
LOW	0.205	0.130	0.055	1.200	0.610	0.020	0.190	0.810	6.15	0.220	0.000	0.000	0.080	0.250	0.455
HIGH	0.380	0.160	0.060	2.166	0.810	0.020	0.345	0.830	7.19	0.220	0.000	0.000	0.105	0.690	0.560

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- H6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	21.291	S. D.	0.000	LOW	21.291	HIGH	21.291					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.165	0.495	0.060	2.600	0.670	0.040	0.010	0.155	3.95	0.120	0.120	0.000	0.115	0.590	0.390
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.165	0.495	0.060	2.600	0.670	0.040	0.010	0.155	3.95	0.120	0.120	0.000	0.115	0.590	0.390

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

SPEARFISH, SHORTBILL — TETRAPTURUS ANGUSTIROSTRIS — 011004 — AREA- HAWAII — SITE- J5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	17.063	S. D.	0.262	LOW	16.761	HIGH	17.214					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.070	0.790	0.090	1.336	0.743	0.072	0.182	0.333	6.16	0.243	0.175	0.410	0.133	0.795	0.802
S. D.	0.046	0.221	0.022	0.719	0.050	0.019	0.089	0.046	1.07	0.100	0.021	0.311	0.053	0.204	0.200
LOW	0.020	0.560	0.075	0.893	0.690	0.050	0.130	0.300	5.06	0.130	0.160	0.190	0.075	0.665	0.655
HIGH	0.110	1.000	0.115	2.166	0.790	0.085	0.285	0.365	7.19	0.320	0.190	0.630	0.180	1.030	1.030

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	22	MEAN	33.364	S. D.	6.540	LOW	22.246	HIGH	47.174					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0023	0023	0023	0023	0023	0023	0023	0022	0023	0023	0023	0023	0023	0023	0023
N DET.	0009	0001	0000	0000	0000	0001	0002	0000	0000	0001	0023	0023	0001	0002	0000
MEAN	1.529	0.853	0.123	2.813	0.932	0.027	0.202	0.282	4.83	0.187	0.000	0.000	0.113	0.697	0.547
S. D.	2.140	0.907	0.077	1.409	0.503	0.008	0.144	0.161	1.17	0.058	0.000	0.000	0.036	0.225	0.278
LOW	0.020	0.190	0.030	0.450	0.280	0.010	0.050	0.070	2.75	0.080	0.000	0.000	0.070	0.380	0.310
HIGH	5.200	3.380	0.280	6.100	2.250	0.040	0.630	0.630	7.44	0.285	0.000	0.000	0.220	1.130	1.470

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- D5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	22.246	S. D.	0.000	LOW	22.246	HIGH	22.246					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	2.440	1.720	1.500	2.250	0.030	0.250	2.340	19.81	0.090	0.250	0.000	0.850	0.470	0.550
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	2.440	1.720	1.500	2.250	0.030	0.250	2.340	19.81	0.090	0.250	0.000	0.850	0.470	0.550

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- D8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	4	MEAN	38.215	S. D.	3.560	LOW	34.927	HIGH	41.731					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0001	0002	0001	0000	0000	0000
MEAN	0.516	0.325	0.037	2.193	0.883	0.105	0.235	0.415	5.53	0.200	0.365	1.073	0.095	0.445	0.470
S. D.	0.170	0.293	0.012	0.294	0.148	0.097	0.173	0.133	2.25	0.135	0.474	0.467	0.070	0.192	0.134
LOW	0.345	0.050	0.030	1.821	0.725	0.010	0.080	0.235	3.56	0.070	0.030	0.630	0.030	0.190	0.345
HIGH	0.715	0.678	0.050	2.540	1.060	0.220	0.433	0.556	8.77	0.340	0.700	1.560	0.185	0.650	0.645

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- D8 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	37.346	S. D.	3.804	LOW	34.927	HIGH	41.731					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0001	0000	0000	0000	0000	0000	0000	0000	0001	0001	0002	0000	0001	0000
MEAN	0.203	0.405	5.653	2.735	2.290	0.070	0.105	12.335	71.90	0.285	0.660	1.250	1.250	1.280	1.035
S. D.	0.222	0.219	5.606	1.867	0.891	0.030	0.049	1.365	48.76	0.007	0.651	0.000	0.365	0.127	0.474
LOW	0.070	0.250	2.020	0.750	1.420	0.040	0.070	11.370	23.75	0.280	0.200	0.000	0.880	1.190	0.700
HIGH	0.460	0.560	12.110	4.455	3.200	0.100	0.140	13.300	121.25	0.290	1.120	1.250	1.610	1.370	1.370

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- G5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	16.344	S. D.	0.000	LOW	16.344	HIGH	16.344					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.060	1.310	0.150	4.500	1.270	0.020	0.690	0.230	5.31	0.230	0.000	0.000	0.140	1.000	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.060	1.310	0.150	4.500	1.270	0.020	0.690	0.230	5.31	0.230	0.000	0.000	0.140	1.000	0.560

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- G5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	16.344	S. D.	0.000	LOW	16.344	HIGH	16.344					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	1.250	2.060	6.240	2.000	0.050	0.190	3.770	32.81	0.230	0.000	0.000	0.710	1.250	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.250	2.060	6.240	2.000	0.050	0.190	3.770	32.81	0.230	0.000	0.000	0.710	1.250	0.380

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

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LOCATION LEVEL 5

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- H2 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	9	MEAN	28.047	S. D.	6.918	LOW	18.614	HIGH	40.406					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0008	0009	0009	0009	0009	0008	0008	0009	0009	0009	0009	0009	0009	0008
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0009	0000	0001	0000
MEAN	2.497	0.581	0.140	3.241	1.420	0.022	0.243	0.298	4.29	0.178	0.000	0.000	0.088	0.623	0.451
S. D.	2.403	0.557	0.053	3.751	0.831	0.010	0.243	0.209	1.50	0.068	0.000	0.000	0.039	0.242	0.214
LOW	0.070	0.190	0.080	0.970	0.550	0.010	0.050	0.080	2.63	0.090	0.000	0.000	0.020	0.310	0.190
HIGH	5.670	1.940	0.220	13.000	3.100	0.040	0.690	0.630	6.50	0.290	0.000	0.000	0.160	0.940	0.910

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- H2 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	22.927	S. D.	2.247	LOW	21.338	HIGH	24.516					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.050	0.910	2.380	5.325	3.018	0.030	0.220	3.845	46.10	0.245	0.305	0.250	1.440	1.000	0.655
S. D.	0.014	1.103	0.085	0.884	1.036	0.014	0.042	4.151	7.73	0.064	0.148	0.000	0.622	0.000	0.134
LOW	0.040	0.130	2.320	4.700	2.285	0.020	0.190	0.910	40.63	0.200	0.200	0.000	1.000	0.000	0.560
HIGH	0.060	1.690	2.440	5.950	3.750	0.040	0.250	6.780	51.56	0.290	0.410	0.250	1.880	1.000	0.750

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- H6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	42.033	S. D.	3.666	LOW	39.916	HIGH	46.266					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0001	0002	0000	0000	0003	0001	0001	0000	0001	0003	0003	0000	0002	0000
MEAN	0.370	0.843	0.070	3.117	0.827	0.000	0.098	0.485	7.90	0.195	0.000	0.000	0.107	0.360	0.420
S. D.	0.070	1.071	0.000	1.460	0.273	0.000	0.074	0.078	3.54	0.078	0.000	0.000	0.035	0.000	0.036
LOW	0.320	0.085	0.000	1.940	0.580	0.000	0.045	0.430	3.93	0.140	0.000	0.000	0.070	0.000	0.380
HIGH	0.450	1.600	0.070	4.750	1.120	0.000	0.150	0.540	10.71	0.250	0.000	0.000	0.140	0.360	0.450

MARLIN, STRIPED — TETRAPTURUS AUDAX — 011005 — AREA- HAWAII — SITE- H6 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	43.092	S. D.	4.490	LOW	39.917	HIGH	46.267					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.195	0.360	7.640	2.875	4.100	0.025	0.080	12.360	78.10	0.235	0.650	0.620	1.085	0.810	0.505
S. D.	0.049	0.000	8.047	0.000	0.000	0.021	0.028	0.198	48.65	0.134	0.665	0.000	0.771	0.000	0.078
LOW	0.160	0.000	1.950	0.000	0.000	0.010	0.060	12.220	43.70	0.140	0.180	0.000	0.540	0.000	0.450
HIGH	0.230	0.360	13.330	2.875	4.100	0.040	0.100	12.500	112.50	0.330	1.120	0.620	1.630	0.810	0.560

BLUEFISH — POMATOMUS SALTATRIX — 012001 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	14	MEAN	0.617	S. D.	0.040	LOW	0.557	HIGH	0.698					
WEIGHT	NUM	14	MEAN	2.860	S. D.	0.403	LOW	2.268	HIGH	3.799					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0000	0001	0003	0000	0000	0005	0000	0000	0000	0002	0010	0009	0000	0003	0000
MEAN	0.277	0.769	0.071	2.902	0.958	0.027	0.152	0.590	12.35	0.195	0.373	0.262	0.157	0.664	0.456
S. D.	0.163	0.903	0.035	1.444	0.556	0.020	0.130	0.163	4.36	0.095	0.342	0.176	0.056	0.232	0.139
LOW	0.110	0.175	0.020	1.500	0.400	0.010	0.020	0.230	8.09	0.060	0.090	0.060	0.095	0.280	0.220
HIGH	0.690	2.810	0.140	7.200	2.500	0.070	0.435	0.840	23.75	0.360	0.870	0.440	0.300	1.060	0.690

BLUEFISH — POMATOMUS SALTATRIX — 012001 — AREA- NORTH ATLANTIC — SITE- N2 — LIVER

LENGTH	NUM	1	MEAN	0.611	S. D.	0.000	LOW	0.611	HIGH	0.611					
WEIGHT	NUM	1	MEAN	0.826	S. D.	0.000	LOW	0.826	HIGH	0.826					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.260	0.310	0.210	4.153	3.040	0.020	0.060	6.440	61.25	0.220	1.310	0.120	0.960	0.620	0.620
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.260	0.310	0.210	4.153	3.040	0.020	0.060	6.440	61.25	0.220	1.310	0.120	0.960	0.620	0.620

BLUEFISH — POMATOMUS SALTATRIX — 012001 — AREA- NORTH ATLANTIC — SITE- N4 — MUSCLE

LENGTH	NUM	10	MEAN	0.438	S. D.	0.014	LOW	0.415	HIGH	0.454					
WEIGHT	NUM	10	MEAN	0.823	S. D.	0.086	LOW	0.679	HIGH	0.953					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0003	0000	0000	0003	0000	0000	0000	0001	0007	0008	0000	0004	0000
MEAN	0.134	0.406	0.061	2.215	0.792	0.032	0.239	0.425	6.09	0.225	0.583	0.315	0.139	0.520	0.606
S. D.	0.026	0.182	0.035	1.130	0.246	0.020	0.114	0.219	2.06	0.109	0.374	0.078	0.096	0.311	0.239
LOW	0.095	0.190	0.020	0.850	0.445	0.010	0.110	0.130	2.94	0.080	0.160	0.260	0.060	0.060	0.425
HIGH	0.170	0.750	0.110	4.500	1.190	0.070	0.440	0.890	9.44	0.375	0.870	0.370	0.340	0.765	1.200

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- NORTH ATLANTIC SITE- N4 LIVER

LENGTH	NUM	1	MEAN	0.438	S. D.	0.000	LOW	0.438	HIGH	0.438						
WEIGHT	NUM	1	MEAN	0.823	S. D.	0.000	LOW	0.823	HIGH	0.823						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	
MEAN	0.130	0.560	0.140	1.050	2.280	0.040	0.130	2.500	16.00	0.260	0.250	0.000	0.890	0.380	0.690	
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
HIGH	0.130	0.560	0.140	1.050	2.280	0.040	0.130	2.500	16.00	0.260	0.250	0.000	0.890	0.380	0.690	

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- NORTH ATLANTIC SITE- N5 MUSCLE

LENGTH	NUM	2	MEAN	0.655	S. D.	0.134	LOW	0.560	HIGH	0.750						
WEIGHT	NUM	2	MEAN	3.405	S. D.	1.605	LOW	2.270	HIGH	4.540						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0001	0000	
MEAN	0.495	0.300	0.060	2.343	0.740	0.030	0.375	0.165	8.00	0.165	0.000	0.090	0.145	0.560	0.535	
S. D.	0.530	0.014	0.000	0.951	0.622	0.000	0.445	0.163	3.97	0.035	0.000	0.000	0.021	0.000	0.177	
LOW	0.120	0.290	0.060	1.670	0.300	0.000	0.060	0.050	5.19	0.140	0.000	0.000	0.130	0.000	0.410	
HIGH	0.870	0.310	0.060	3.015	1.180	0.030	0.690	0.280	10.80	0.190	0.000	0.090	0.160	0.560	0.660	

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- NORTH ATLANTIC SITE- R3 MUSCLE

LENGTH	NUM	2	MEAN	0.253	S. D.	0.095	LOW	0.185	HIGH	0.320						
WEIGHT	NUM	2	MEAN	0.312	S. D.	0.313	LOW	0.090	HIGH	0.533						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0002	0000	
MEAN	0.110	0.313	0.058	2.182	1.070	0.025	0.160	0.438	4.96	0.235	0.090	0.000	0.118	0.000	0.495	
S. D.	0.000	0.088	0.011	1.158	0.495	0.007	0.042	0.074	0.11	0.007	0.000	0.000	0.011	0.000	0.035	
LOW	0.000	0.250	0.050	1.363	0.720	0.020	0.130	0.385	4.88	0.230	0.000	0.000	0.110	0.000	0.470	
HIGH	0.110	0.375	0.065	3.000	1.420	0.030	0.190	0.490	5.03	0.240	0.090	0.000	0.125	0.000	0.520	

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- NORTH ATLANTIC SITE- R6 MUSCLE

LENGTH	NUM	1	MEAN	0.278	S. D.	0.000	LOW	0.278	HIGH	0.278						
WEIGHT	NUM	1	MEAN	0.340	S. D.	0.000	LOW	0.340	HIGH	0.340						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000	
MEAN	0.020	0.500	0.060	2.450	0.550	0.010	0.060	0.460	4.38	0.310	0.000	0.000	0.170	0.000	0.530	
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
HIGH	0.020	0.500	0.060	2.450	0.550	0.010	0.060	0.460	4.38	0.310	0.000	0.000	0.170	0.000	0.530	

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- NORTH ATLANTIC SITE- R8 MUSCLE

LENGTH	NUM	10	MEAN	0.366	S. D.	0.000	LOW	0.366	HIGH	0.366						
WEIGHT	NUM	10	MEAN	0.460	S. D.	0.000	LOW	0.460	HIGH	0.460						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0009	0009	0009	0010	0010	0010	
N DET.	0000	0000	0004	0001	0000	0003	0001	0000	0000	0001	0007	0007	0000	0001	0000	
MEAN	0.213	0.389	0.037	1.327	0.799	0.059	0.205	0.388	5.74	0.202	0.250	0.815	0.170	0.873	0.483	
S. D.	0.034	0.234	0.008	0.518	0.223	0.050	0.150	0.152	0.79	0.136	0.141	0.445	0.096	0.573	0.186	
LOW	0.155	0.150	0.030	0.700	0.450	0.010	0.050	0.040	4.50	0.040	0.150	0.500	0.070	0.180	0.290	
HIGH	0.290	0.880	0.050	2.400	1.130	0.140	0.500	0.605	7.14	0.390	0.350	1.130	0.415	1.850	0.750	

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- NORTH ATLANTIC SITE- R9 MUSCLE

LENGTH	NUM	2	MEAN	0.454	S. D.	0.355	LOW	0.203	HIGH	0.705						
WEIGHT	NUM	2	MEAN	1.759	S. D.	2.329	LOW	0.112	HIGH	3.405						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0001	0000	
MEAN	0.690	0.500	0.058	1.898	0.633	0.030	0.083	0.528	9.99	0.203	0.000	0.000	0.145	0.470	0.368	
S. D.	0.799	0.042	0.011	0.350	0.180	0.000	0.032	0.117	7.22	0.046	0.000	0.000	0.007	0.000	0.011	
LOW	0.125	0.470	0.050	1.650	0.505	0.000	0.060	0.445	4.88	0.170	0.000	0.000	0.140	0.000	0.360	
HIGH	1.255	0.530	0.065	2.145	0.760	0.030	0.105	0.610	15.09	0.235	0.000	0.000	0.150	0.470	0.375	

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- SOUTH ATLANTIC SITE- B6 MUSCLE

LENGTH	NUM	10	MEAN	0.260	S. D.	0.000	LOW	0.260	HIGH	0.260						
WEIGHT	NUM	10	MEAN	0.340	S. D.	0.000	LOW	0.340	HIGH	0.340						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	
N DET.	0000	0000	0003	0000	0000	0004	0000	0000	0000	0002	0007	0008	0000	0003	0000	
MEAN	0.109	0.859	0.075	2.082	1.014	0.028	0.152	0.635	6.11	0.241	0.750	0.390	0.151	0.606	0.457	
S. D.	0.039	0.634	0.035	0.963	0.686	0.012	0.074	0.178	1.45	0.151	0.570	0.325	0.066	0.291	0.139	
LOW	0.020	0.120	0.040	0.580	0.520	0.010	0.070	0.330	3.06	0.070	0.130	0.160	0.070	0.350	0.350	
HIGH	0.155	2.250	0.120	3.500	2.805	0.040	0.310	0.890	8.44	0.570	1.250	0.620	0.290	1.190	0.750	

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- SOUTH ATLANTIC SITE- F6 MUSCLE

LENGTH	NUM 2	MEAN 0.282	S. D. 0.003	LOW 0.280	HIGH 0.284		
WEIGHT	NUM 2	MEAN 0.285	S. D. 0.000	LOW 0.285	HIGH 0.285		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0001	0001	0002	0000	0000	0000
MEAN	0.203	0.145	0.085	2.713	0.985	0.020	0.050	0.373	5.10	0.490	0.250	0.000	0.123	1.010	0.390
S. D.	0.011	0.148	0.035	1.290	0.219	0.000	0.000	0.124	2.38	0.000	0.000	0.000	0.018	0.990	0.085
LOW	0.195	0.040	0.060	1.800	0.830	0.000	0.000	0.285	3.41	0.000	0.000	0.000	0.110	0.310	0.330
HIGH	0.210	0.250	0.110	3.625	1.140	0.020	0.050	0.460	6.78	0.490	0.250	0.000	0.135	1.710	0.450

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- GULF SITE- E5 MUSCLE

LENGTH	NUM 20	MEAN 0.431	S. D. 0.037	LOW 0.397	HIGH 0.509		
WEIGHT	NUM 20	MEAN 0.804	S. D. 0.249	LOW 0.577	HIGH 1.335		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0018	0018	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0002	0000	0000	0007	0001	0000	0000	0000	0016	0016	0000	0003	0000
MEAN	0.536	0.401	0.056	2.499	0.976	0.035	0.141	0.448	7.50	0.224	0.388	0.170	0.164	0.708	0.560
S. D.	0.148	0.175	0.020	1.008	0.241	0.012	0.091	0.161	2.19	0.063	0.370	0.107	0.052	0.539	0.299
LOW	0.370	0.190	0.010	0.320	0.550	0.020	0.030	0.140	0.63	0.110	0.060	0.060	0.100	0.120	0.253
HIGH	0.945	0.770	0.100	4.150	1.450	0.065	0.380	0.710	10.63	0.390	0.870	0.310	0.290	2.190	1.470

BLUEFISH POMATOMUS SALTATRIX 012001 AREA- GULF SITE- E5 LIVER

LENGTH	NUM 2	MEAN 0.430	S. D. 0.035	LOW 0.405	HIGH 0.454		
WEIGHT	NUM 2	MEAN 0.795	S. D. 0.238	LOW 0.626	HIGH 0.963		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	1.010	0.708	0.210	4.275	2.490	0.040	0.305	5.115	86.31	0.183	0.473	1.630	1.048	1.103	1.445
S. D.	0.255	0.053	0.099	1.662	0.014	0.000	0.276	1.831	8.25	0.004	0.223	0.000	0.187	0.746	1.492
LOW	0.830	0.670	0.140	3.100	2.480	0.000	0.110	3.820	80.47	0.180	0.315	0.000	0.915	0.575	0.390
HIGH	1.190	0.745	0.280	5.450	2.500	0.040	0.500	6.410	92.14	0.185	0.630	1.630	1.180	1.630	2.500

HARVESTFISH PEPRILUS ALEPIDOTUS 018011 AREA- NORTH ATLANTIC SITE- R9 WHOLE

LENGTH	NUM 16	MEAN 0.089	S. D. 0.003	LOW 0.083	HIGH 0.097		
WEIGHT	NUM 16	MEAN 0.030	S. D. 0.002	LOW 0.028	HIGH 0.036		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0015	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0015	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0014	0000
MEAN	0.160	0.845	0.123	3.341	1.018	0.089	0.323	0.421	15.97	0.404	0.199	0.248	1.497	0.175	1.129
S. D.	0.000	0.229	0.022	1.054	0.315	0.016	0.118	0.154	1.21	0.087	0.050	0.090	0.646	0.064	0.260
LOW	0.000	0.500	0.080	2.250	0.620	0.060	0.130	0.160	13.13	0.220	0.130	0.130	0.160	0.130	0.750
HIGH	0.160	1.190	0.180	5.600	1.950	0.115	0.500	0.690	17.38	0.510	0.310	0.410	2.230	0.220	1.630

HARVESTFISH PEPRILUS ALEPIDOTUS 018011 AREA- SOUTH ATLANTIC SITE- C2 MUSCLE

LENGTH	NUM 1	MEAN 0.154	S. D. 0.000	LOW 0.154	HIGH 0.154		
WEIGHT	NUM 1	MEAN 0.143	S. D. 0.000	LOW 0.143	HIGH 0.143		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	.0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.040	0.190	0.070	0.565	0.920	0.030	0.250	0.260	5.88	0.250	0.000	0.000	0.190	0.000	0.470
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.190	0.070	0.565	0.920	0.030	0.250	0.260	5.88	0.250	0.000	0.000	0.190	0.000	0.470

HARVESTFISH PEPRILUS ALEPIDOTUS 018011 AREA- SOUTH ATLANTIC SITE- F6 MUSCLE

LENGTH	NUM 2	MEAN 0.162	S. D. 0.009	LOW 0.155	HIGH 0.168		
WEIGHT	NUM 2	MEAN 0.202	S. D. 0.093	LOW 0.136	HIGH 0.267		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.118	0.268	0.073	7.125	0.775	0.000	0.065	0.285	8.26	0.313	0.000	0.000	0.163	0.850	0.513
S. D.	0.124	0.103	0.046	1.768	0.028	0.000	0.007	0.028	2.84	0.067	0.000	0.000	0.124	0.566	0.159
LOW	0.030	0.195	0.040	5.875	0.755	0.000	0.060	0.265	6.25	0.265	0.000	0.000	0.075	0.450	0.400
HIGH	0.205	0.340	0.105	8.375	0.795	0.000	0.070	0.305	10.26	0.360	0.000	0.000	0.250	1.250	0.625

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- M8 MUSCLE

LENGTH	NUM 6	MEAN 0.156	S. D. 0.011	LOW 0.142	HIGH 0.170		
WEIGHT	NUM 6	MEAN 0.144	S. D. 0.098	LOW 0.074	HIGH 0.333		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0002	0001	0001	0000	0000	0003	0000	0000	0000	0002	0003	0005	0000	0004	0000
MEAN	0.039	0.332	0.066	3.367	0.654	0.037	0.161	0.489	6.10	0.189	0.347	0.260	0.218	0.898	0.480
S. D.	0.022	0.145	0.019	2.236	0.162	0.006	0.170	0.111	1.55	0.037	0.454	0.000	0.102	0.011	0.207
LOW	0.020	0.150	0.040	1.066	0.490	0.030	0.050	0.330	4.28	0.140	0.060	0.000	0.030	0.890	0.250
HIGH	0.060	0.530	0.090	5.840	0.950	0.040	0.500	0.610	8.52	0.225	0.870	0.260	0.290	0.905	0.800

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- M9 WHOLE

LENGTH	NUM	7	MEAN	0.118	S. D.	0.002	LOW	0.116	HIGH	0.121					
WEIGHT	NUM	7	MEAN	0.035	S. D.	0.002	LOW	0.033	HIGH	0.039					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0007	0000	0007	0000
MEAN	0.053	0.424	0.081	1.553	0.719	0.036	0.329	0.353	7.18	0.282	0.170	0.000	0.316	0.000	0.547
S. D.	0.026	0.084	0.011	0.905	0.215	0.013	0.114	0.131	0.87	0.068	0.000	0.000	0.050	0.000	0.059
LOW	0.020	0.310	0.060	0.425	0.550	0.010	0.190	0.140	6.22	0.200	0.000	0.000	0.240	0.000	0.500
HIGH	0.100	0.560	0.095	3.000	1.145	0.050	0.535	0.495	8.44	0.370	0.170	0.000	0.390	0.000	0.630

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- N2 WHOLE

LENGTH	NUM	8	MEAN	0.069	S. D.	0.009	LOW	0.063	HIGH	0.084					
WEIGHT	NUM	8	MEAN	0.010	S. D.	0.008	LOW	0.004	HIGH	0.021					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0000
MEAN	0.050	0.950	0.148	1.555	0.746	0.086	0.278	0.564	12.57	0.483	0.274	0.671	2.145	0.000	1.111
S. D.	0.000	0.123	0.025	0.685	0.178	0.025	0.069	0.184	2.49	0.109	0.156	0.217	0.713	0.000	0.217
LOW	0.000	0.750	0.125	0.450	0.550	0.060	0.190	0.260	8.87	0.280	0.060	0.330	1.190	0.000	0.860
HIGH	0.050	1.130	0.190	2.500	1.105	0.130	0.375	0.765	16.25	0.580	0.580	1.000	3.130	0.000	1.440

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	3	MEAN	0.174	S. D.	0.015	LOW	0.164	HIGH	0.191					
WEIGHT	NUM	3	MEAN	0.121	S. D.	0.024	LOW	0.105	HIGH	0.148					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	0.060	0.293	0.053	2.113	0.507	0.027	0.257	0.613	8.25	0.150	0.000	0.000	0.140	0.645	0.780
S. D.	0.000	0.096	0.023	1.466	0.169	0.006	0.264	0.259	2.04	0.113	0.000	0.000	0.069	0.290	0.156
LOW	0.000	0.190	0.040	1.140	0.390	0.020	0.080	0.320	6.69	0.080	0.000	0.000	0.060	0.440	0.690
HIGH	0.060	0.380	0.080	3.800	0.700	0.030	0.560	0.810	10.56	0.280	0.000	0.000	0.180	0.850	0.960

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- N7 WHOLE

LENGTH	NUM	2	MEAN	0.080	S. D.	0.004	LOW	0.077	HIGH	0.082					
WEIGHT	NUM	2	MEAN	0.018	S. D.	0.001	LOW	0.017	HIGH	0.018					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.020	0.920	0.115	0.883	0.685	0.090	0.435	0.533	13.99	0.493	0.510	0.505	3.045	0.310	1.173
S. D.	0.000	0.156	0.007	0.542	0.672	0.000	0.276	0.152	0.27	0.011	0.453	0.177	0.643	0.000	0.421
LOW	0.000	0.810	0.110	0.500	0.210	0.090	0.240	0.425	13.80	0.485	0.190	0.380	2.590	0.000	0.875
HIGH	0.020	1.030	0.120	1.266	1.160	0.090	0.630	0.640	14.18	0.500	0.830	0.630	3.500	0.310	1.470

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- N8 H&G, TAILLESS

LENGTH	NUM	1	MEAN	0.109	S. D.	0.000	LOW	0.109	HIGH	0.109					
WEIGHT	NUM	1	MEAN	0.025	S. D.	0.000	LOW	0.025	HIGH	0.025					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.250	0.897	0.117	4.990	0.790	0.130	0.357	0.822	18.58	0.330	0.233	0.735	1.465	1.563	0.966
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.250	0.897	0.117	4.990	0.790	0.130	0.357	0.822	18.58	0.330	0.233	0.735	1.465	1.563	0.966

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- N8 MUSCLE

LENGTH	NUM	13	MEAN	0.153	S. D.	0.010	LOW	0.133	HIGH	0.174					
WEIGHT	NUM	13	MEAN	0.075	S. D.	0.020	LOW	0.045	HIGH	0.112					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0012	0013	0013	0013	0013	0013	0012	0013	0013	0013
N DET.	0008	0000	0000	0000	0000	0001	0000	0000	0000	0000	0009	0007	0000	0001	0000
MEAN	0.024	0.391	0.086	2.779	0.715	0.048	0.167	0.562	8.80	0.215	0.188	0.226	0.203	0.594	0.571
S. D.	0.009	0.152	0.016	1.426	0.214	0.021	0.076	0.107	1.11	0.034	0.053	0.149	0.052	0.152	0.246
LOW	0.020	0.250	0.060	1.275	0.410	0.020	0.080	0.410	6.87	0.160	0.120	0.060	0.150	0.310	0.220
HIGH	0.040	0.750	0.110	5.650	1.300	0.090	0.320	0.750	11.00	0.275	0.250	0.440	0.310	0.810	1.190

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- O1 MUSCLE

LENGTH	NUM	17	MEAN	0.173	S. D.	0.015	LOW	0.127	HIGH	0.194					
WEIGHT	NUM	17	MEAN	0.114	S. D.	0.025	LOW	0.048	HIGH	0.149					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0017	0017	0017	0017	0017	0016	0017	0016	0017	0017	0016	0017	0017
N DET.	0012	0000	0000	0000	0000	0001	0000	0000	0000	0000	0017	0016	0000	0004	0000
MEAN	0.108	0.370	0.089	1.254	0.457	0.041	0.279	0.560	7.12	0.240	0.000	0.170	0.158	0.598	0.684
S. D.	0.145	0.099	0.025	0.677	0.188	0.009	0.232	0.232	2.11	0.107	0.000	0.000	0.095	0.239	0.287
LOW	0.020	0.190	0.050	0.210	0.100	0.030	0.050	0.110	2.63	0.110	0.000	0.000	0.070	0.310	0.280
HIGH	0.360	0.630	0.140	2.740	0.755	0.060	1.020	1.130	10.35	0.540	0.000	0.170	0.480	1.130	1.190

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- 02 MUSCLE

LENGTH	NUM	1	MEAN	0.141	S. D.	0.000	LOW	0.141	HIGH	0.141					
WEIGHT	NUM	1	MEAN	0.060	S. D.	0.000	LOW	0.060	HIGH	0.060					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.320	0.110	4.000	0.630	0.070	0.182	0.655	9.28	0.320	0.000	0.000	0.250	1.250	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.320	0.110	4.000	0.630	0.070	0.182	0.655	9.28	0.320	0.000	0.000	0.250	1.250	0.500

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- 03 MUSCLE

LENGTH	NUM	3	MEAN	0.169	S. D.	0.015	LOW	0.154	HIGH	0.184					
WEIGHT	NUM	3	MEAN	0.115	S. D.	0.030	LOW	0.086	HIGH	0.145					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.240	0.353	0.052	3.070	0.517	0.042	0.378	0.527	6.92	0.260	0.060	0.060	0.145	0.783	0.622
S. D.	0.000	0.094	0.008	0.893	0.206	0.026	0.004	0.088	0.54	0.062	0.000	0.000	0.022	0.220	0.225
LOW	0.000	0.250	0.045	2.487	0.320	0.020	0.375	0.440	6.44	0.210	0.000	0.000	0.130	0.630	0.470
HIGH	0.240	0.435	0.060	4.098	0.730	0.070	0.380	0.615	7.50	0.330	0.060	0.060	0.170	1.035	0.880

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- 06 MUSCLE

LENGTH	NUM	4	MEAN	0.183	S. D.	0.020	LOW	0.157	HIGH	0.201					
WEIGHT	NUM	4	MEAN	0.141	S. D.	0.038	LOW	0.094	HIGH	0.174					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.040	0.407	0.081	1.844	0.524	0.040	0.239	0.340	7.02	0.199	0.060	0.155	0.131	0.888	0.615
S. D.	0.028	0.325	0.059	0.791	0.116	0.021	0.150	0.032	2.21	0.042	0.000	0.134	0.051	0.061	0.091
LOW	0.020	0.190	0.045	1.225	0.390	0.020	0.120	0.305	5.19	0.155	0.000	0.060	0.085	0.815	0.560
HIGH	0.060	0.780	0.170	3.000	0.650	0.065	0.455	0.380	10.00	0.255	0.060	0.250	0.200	0.940	0.750

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- P1 MUSCLE

LENGTH	NUM	19	MEAN	0.152	S. D.	0.013	LOW	0.132	HIGH	0.179					
WEIGHT	NUM	19	MEAN	0.079	S. D.	0.020	LOW	0.056	HIGH	0.127					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0018	0019	0018	0018	0019	0018	0019	0019	0019	0019	0019	0019	0019	0019
N DET.	0013	0000	0001	0001	0000	0002	0000	0000	0000	0000	0012	0011	0000	0001	0000
MEAN	0.032	0.453	0.081	2.844	0.461	0.041	0.190	0.526	7.44	0.220	0.150	0.296	0.155	0.886	0.612
S. D.	0.018	0.192	0.029	1.168	0.164	0.010	0.178	0.197	2.13	0.084	0.077	0.216	0.038	0.256	0.230
LOW	0.010	0.225	0.050	1.300	0.180	0.020	0.030	0.215	4.72	0.070	0.060	0.060	0.095	0.480	0.220
HIGH	0.060	0.940	0.170	5.725	0.716	0.060	0.830	1.000	14.28	0.450	0.280	0.630	0.230	1.580	1.130

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- R3 MUSCLE

LENGTH	NUM	5	MEAN	0.130	S. D.	0.016	LOW	0.116	HIGH	0.155					
WEIGHT	NUM	5	MEAN	0.046	S. D.	0.020	LOW	0.032	HIGH	0.081					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0000	0000
MEAN	0.065	0.547	0.075	2.588	0.608	0.040	0.119	0.591	8.01	0.181	0.000	0.000	0.269	0.606	0.587
S. D.	0.035	0.317	0.010	0.810	0.177	0.016	0.054	0.077	0.68	0.059	0.000	0.000	0.056	0.139	0.109
LOW	0.040	0.315	0.065	1.375	0.335	0.020	0.060	0.480	7.19	0.090	0.000	0.000	0.180	0.440	0.490
HIGH	0.090	1.100	0.090	3.400	0.735	0.060	0.190	0.690	9.00	0.240	0.000	0.000	0.320	0.750	0.755

BUTTERFISH PEPRILUS TRIACANTHUS 018014 AREA- NORTH ATLANTIC SITE- S4 MUSCLE

LENGTH	NUM	1	MEAN	0.156	S. D.	0.000	LOW	0.156	HIGH	0.156					
WEIGHT	NUM	1	MEAN	0.087	S. D.	0.000	LOW	0.087	HIGH	0.087					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.190	0.120	0.510	0.080	0.040	0.060	0.750	3.25	0.380	0.000	0.000	0.310	0.560	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.120	0.510	0.080	0.040	0.060	0.750	3.25	0.380	0.000	0.000	0.310	0.560	0.000

CATFISH, WHITE ICTALURUS CATUS 021002 AREA- NORTH ATLANTIC SITE- M8 MUSCLE

LENGTH	NUM	1	MEAN	0.205	S. D.	0.000	LOW	0.205	HIGH	0.205					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.145	0.315	0.045	0.666	0.170	0.070	0.060	0.415	7.78	0.120	0.000	0.240	0.250	0.540	0.285
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.145	0.315	0.045	0.666	0.170	0.070	0.060	0.415	7.78	0.120	0.000	0.240	0.250	0.540	0.285

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

BULLHEAD, BROWN — ICTALURUS NEBULOSUS — 021007 — AREA- NORTH ATLANTIC — SITE- M6 — MUSCLE

LENGTH	NUM	4	MEAN	0.187	S. D.	0.013	LOW	0.176	HIGH	0.206					
WEIGHT	NUM	2	MEAN	2.270	S. D.	0.000	LOW	2.270	HIGH	2.270					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0003	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.040	0.650	0.051	1.425	0.184	0.042	0.189	0.653	6.73	0.169	0.000	0.000	0.525	0.600	0.389
S. D.	0.000	0.133	0.009	0.927	0.091	0.003	0.072	0.467	1.17	0.045	0.000	0.000	0.267	0.238	0.181
LOW	0.000	0.470	0.040	0.300	0.050	0.040	0.130	0.300	5.50	0.130	0.000	0.000	0.300	0.310	0.190
HIGH	0.040	0.750	0.060	2.550	0.250	0.045	0.290	1.300	8.31	0.230	0.000	0.000	0.880	0.810	0.610

CATFISH, CHANNEL — ICTALURUS PUNCTATUS — 021010 — AREA- NORTH ATLANTIC — SITE- R5 — MUSCLE

LENGTH	NUM	20	MEAN	0.532	S. D.	0.006	LOW	0.526	HIGH	0.538					
WEIGHT	NUM	20	MEAN	1.611	S. D.	0.210	LOW	1.406	HIGH	1.816					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0001	0001	0000	0010	0001	0000	0000	0000	0016	0018	0000	0004	0000
MEAN	0.172	0.398	0.060	1.725	0.322	0.030	0.143	0.315	5.94	0.252	0.563	0.540	0.184	0.559	0.503
S. D.	0.109	0.216	0.022	1.201	0.283	0.008	0.098	0.169	0.81	0.260	0.510	0.240	0.056	0.210	0.172
LOW	0.040	0.060	0.007	0.125	0.080	0.020	0.060	0.125	4.42	0.080	0.130	0.370	0.105	0.221	0.253
HIGH	0.380	0.996	0.110	4.596	1.315	0.040	0.346	0.855	7.25	1.250	1.120	0.710	0.350	1.120	0.880

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	2	MEAN	0.225	S. D.	0.000	LOW	0.225	HIGH	0.225					
WEIGHT	NUM	2	MEAN	0.340	S. D.	0.000	LOW	0.340	HIGH	0.340					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.153	0.426	0.038	8.977	0.517	0.053	0.093	0.500	18.99	0.244	0.145	0.213	0.529	0.613	0.733
S. D.	0.046	0.013	0.003	1.211	0.009	0.025	0.032	0.028	3.32	0.143	0.148	0.053	0.048	0.513	0.725
LOW	0.120	0.416	0.036	8.120	0.510	0.035	0.070	0.480	16.64	0.143	0.040	0.175	0.495	0.250	0.220
HIGH	0.185	0.435	0.040	9.833	0.523	0.070	0.115	0.520	21.34	0.345	0.250	0.250	0.563	0.976	1.245

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.363	S. D.	0.022	LOW	0.331	HIGH	0.398					
WEIGHT	NUM	20	MEAN	0.520	S. D.	0.152	LOW	0.345	HIGH	0.788					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0019	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0001	0003	0000	0000	0004	0000	0000	0000	0001	0016	0012	0000	0004	0000
MEAN	0.468	0.426	0.099	17.391	0.447	0.041	0.146	0.301	10.90	0.262	0.343	0.270	0.211	0.784	0.536
S. D.	0.090	0.211	0.057	9.871	0.180	0.012	0.115	0.092	4.00	0.133	0.363	0.203	0.084	0.273	0.147
LOW	0.290	0.110	0.040	3.800	0.120	0.025	0.040	0.080	5.66	0.080	0.060	0.130	0.085	0.440	0.286
HIGH	0.640	0.860	0.210	39.750	0.745	0.070	0.560	0.465	23.47	0.595	0.870	0.750	0.400	1.560	0.790

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	4	MEAN	0.361	S. D.	0.015	LOW	0.347	HIGH	0.375					
WEIGHT	NUM	4	MEAN	0.507	S. D.	0.127	LOW	0.388	HIGH	0.625					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0000
MEAN	1.964	1.071	0.595	6.258	3.008	0.058	0.486	6.040	305.73	0.308	0.550	3.708	1.076	0.949	0.361
S. D.	1.166	0.268	0.284	1.374	1.435	0.015	0.377	3.328	44.02	0.106	0.217	3.156	0.706	0.556	0.069
LOW	1.100	0.810	0.335	4.750	1.410	0.040	0.080	2.615	260.94	0.235	0.410	1.500	0.300	0.370	0.300
HIGH	3.650	1.310	0.890	8.016	4.450	0.070	0.940	10.440	365.18	0.430	0.800	8.300	2.000	1.700	0.450

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- G3 — MUSCLE

LENGTH	NUM	8	MEAN	0.225	S. D.	0.000	LOW	0.225	HIGH	0.225					
WEIGHT	NUM	8	MEAN	0.340	S. D.	0.000	LOW	0.340	HIGH	0.340					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0007	0008	0008	0008	0008	0008	0008	0008	0006
N DET.	0000	0000	0001	0000	0000	0003	0000	0000	0000	0000	0007	0007	0000	0004	0000
MEAN	0.181	0.489	0.090	5.894	0.468	0.028	0.154	0.452	12.80	0.280	0.880	0.780	0.249	0.993	0.458
S. D.	0.044	0.312	0.040	3.724	0.310	0.011	0.106	0.117	5.32	0.130	0.000	0.000	0.107	0.219	0.080
LOW	0.100	0.250	0.040	2.900	0.180	0.010	0.070	0.280	4.94	0.120	0.000	0.000	0.060	0.810	0.380
HIGH	0.240	1.190	0.130	13.400	1.100	0.040	0.370	0.605	21.43	0.570	0.880	0.780	0.390	1.250	0.590

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	6	MEAN	0.330	S. D.	0.009	LOW	0.321	HIGH	0.340					
WEIGHT	NUM	5	MEAN	0.400	S. D.	0.056	LOW	0.340	HIGH	0.482					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.244	0.606	0.118	8.203	0.351	0.025	0.278	0.458	13.95	0.173	0.000	0.310	0.188	0.678	0.483
S. D.	0.106	0.289	0.073	4.360	0.137	0.008	0.154	0.114	2.53	0.111	0.000	0.000	0.036	0.191	0.106
LOW	0.130	0.285	0.045	3.750	0.210	0.010	0.130	0.265	11.94	0.060	0.000	0.000	0.140	0.440	0.380
HIGH	0.410	1.060	0.260	14.750	0.590	0.030	0.560	0.580	18.75	0.340	0.000	0.310	0.230	0.940	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	11	MEAN	0.301	S. D.	0.016	LOW	0.283	HIGH	0.329					
WEIGHT	NUM	11	MEAN	0.530	S. D.	0.107	LOW	0.385	HIGH	0.729					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0010	0010	0011	0011	0011	0010	0011	0010	0011	0011	0011	0011
N DET.	0000	0001	0004	0000	0002	0003	0001	0000	0000	0002	0007	0006	0000	0005	0000
MEAN	0.240	0.421	0.056	15.306	0.353	0.033	0.249	0.406	17.09	0.309	0.470	0.372	0.209	0.707	0.539
S. D.	0.051	0.169	0.025	10.786	0.121	0.016	0.234	0.063	6.23	0.129	0.236	0.356	0.079	0.295	0.309
LOW	0.150	0.200	0.025	2.480	0.190	0.010	0.060	0.290	8.39	0.180	0.250	0.090	0.130	0.370	0.250
HIGH	0.310	0.725	0.090	39.500	0.540	0.060	0.730	0.526	29.14	0.610	0.720	0.940	0.390	1.160	1.315

CATFISH, SEA — ARIUS FELIS — 023001 — AREA- GULF — SITE- L5 — LIVER

LENGTH	NUM	2	MEAN	0.297	S. D.	0.003	LOW	0.295	HIGH	0.299					
WEIGHT	NUM	2	MEAN	0.510	S. D.	0.004	LOW	0.507	HIGH	0.512					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0001	0001	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.640	1.023	0.505	6.550	1.870	0.055	0.145	2.580	293.61	0.350	0.325	0.795	1.470	0.250	0.425
S. D.	0.000	0.378	0.049	0.000	0.000	0.035	0.134	0.071	332.28	0.212	0.177	0.049	0.552	0.000	0.035
LOW	0.000	0.755	0.470	0.000	0.000	0.030	0.050	2.530	58.65	0.200	0.200	0.760	1.080	0.000	0.400
HIGH	0.640	1.290	0.540	6.550	1.870	0.080	0.240	2.630	528.57	0.500	0.450	0.830	1.860	0.250	0.450

CATFISH, GAFFTOPSAIL — BAGRE MARINUS — 023002 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	7	MEAN	0.393	S. D.	0.046	LOW	0.350	HIGH	0.470					
WEIGHT	NUM	6	MEAN	1.262	S. D.	0.455	LOW	1.006	HIGH	2.155					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0002	0000	0000	0005	0000	0000	0000	0002	0004	0005	0000	0002	0000
MEAN	0.301	0.455	0.077	7.572	0.210	0.045	0.241	0.351	12.81	0.243	0.240	0.467	0.177	1.174	0.547
S. D.	0.100	0.207	0.053	4.200	0.073	0.015	0.151	0.079	4.12	0.078	0.185	0.444	0.140	0.347	0.202
LOW	0.173	0.200	0.040	2.100	0.100	0.030	0.055	0.195	6.78	0.150	0.050	0.060	0.030	0.640	0.300
HIGH	0.430	0.750	0.180	15.950	0.310	0.060	0.550	0.436	18.13	0.360	0.440	0.940	0.466	1.536	0.870

CATFISH, GAFFTOPSAIL — BAGRE MARINUS — 023002 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.506	S. D.	0.017	LOW	0.475	HIGH	0.548					
WEIGHT	NUM	20	MEAN	1.229	S. D.	0.172	LOW	0.895	HIGH	1.655					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0002	0000	0000	0004	0000	0000	0000	0002	0013	0016	0001	0002	0000
MEAN	0.624	0.379	0.066	12.470	0.284	0.041	0.166	0.319	13.53	0.193	0.189	0.235	0.191	0.887	0.570
S. D.	0.196	0.204	0.026	6.432	0.094	0.014	0.107	0.101	7.32	0.089	0.156	0.175	0.129	0.395	0.172
LOW	0.350	0.020	0.010	2.900	0.130	0.020	0.045	0.125	4.44	0.040	0.050	0.060	0.040	0.440	0.250
HIGH	1.200	0.810	0.120	25.500	0.470	0.060	0.440	0.560	30.63	0.380	0.440	0.470	0.530	1.880	1.000

CATFISH, GAFFTOPSAIL — BAGRE MARINUS — 023002 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	2	MEAN	0.506	S. D.	0.013	LOW	0.496	HIGH	0.515					
WEIGHT	NUM	2	MEAN	1.220	S. D.	0.102	LOW	1.148	HIGH	1.292					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	1.310	0.375	0.340	4.750	3.745	0.030	0.165	1.180	815.00	0.300	0.350	1.565	0.315	0.900	0.765
S. D.	0.467	0.177	0.000	1.061	2.553	0.000	0.049	0.806	1145.51	0.085	0.000	1.506	0.290	0.566	0.191
LOW	0.980	0.250	0.000	4.000	1.940	0.000	0.130	0.610	5.00	0.240	0.000	0.500	0.110	0.500	0.630
HIGH	1.640	0.500	0.340	5.500	5.550	0.030	0.200	1.750	1625.00	0.360	0.350	2.630	0.520	1.300	0.900

CATFISH, GAFFTOPSAIL — BAGRE MARINUS — 023002 — AREA- GULF — SITE- H1 — MUSCLE

LENGTH	NUM	4	MEAN	0.494	S. D.	0.015	LOW	0.475	HIGH	0.510					
WEIGHT	NUM	4	MEAN	1.029	S. D.	0.140	LOW	0.908	HIGH	1.163					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.610	0.324	0.060	8.213	0.281	0.034	0.104	0.341	13.25	0.166	0.160	0.190	0.196	0.653	0.480
S. D.	0.322	0.163	0.009	4.728	0.076	0.005	0.034	0.255	1.04	0.059	0.000	0.000	0.044	0.164	0.075
LOW	0.280	0.160	0.050	2.827	0.180	0.030	0.060	0.080	12.28	0.090	0.000	0.000	0.165	0.500	0.410
HIGH	1.020	0.540	0.070	14.300	0.360	0.040	0.130	0.690	14.34	0.215	0.160	0.190	0.260	0.880	0.560

CATFISH, GAFFTOPSAIL — BAGRE MARINUS — 023002 — AREA- GULF — SITE- H1 — LIVER

LENGTH	NUM	1	MEAN	0.495	S. D.	0.000	LOW	0.495	HIGH	0.495					
WEIGHT	NUM	1	MEAN	1.078	S. D.	0.000	LOW	1.078	HIGH	1.078					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	1.220	0.630	0.460	3.650	2.500	0.030	0.060	2.440	184.38	0.260	0.340	1.630	1.330	0.560	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.220	0.630	0.460	3.650	2.500	0.030	0.060	2.440	184.38	0.260	0.340	1.630	1.330	0.560	0.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CATFISH, GAFFTOPSAIL — BAGRE MARINUS — 023002 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	2	MEAN	0.288	S. D.	0.013	LOW	0.279	HIGH	0.297					
WEIGHT	NUM	2	MEAN	0.470	S. D.	0.098	LOW	0.400	HIGH	0.539					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.458	0.350	0.075	62.325	0.378	0.030	0.216	0.488	9.02	0.320	0.100	0.325	0.178	0.850	0.545
S. D.	0.145	0.057	0.000	13.895	0.152	0.000	0.211	0.011	1.90	0.255	0.000	0.000	0.074	0.566	0.042
LOW	0.355	0.310	0.000	52.500	0.270	0.000	0.066	0.480	7.67	0.140	0.000	0.000	0.125	0.450	0.515
HIGH	0.560	0.390	0.075	72.150	0.485	0.030	0.365	0.495	10.36	0.500	0.100	0.325	0.230	1.250	0.575

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- E8 — MUSCLE

LENGTH	NUM	2	MEAN	0.885	S. D.	0.035	LOW	0.860	HIGH	0.910					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.325	0.470	0.075	1.085	0.425	0.025	0.145	0.165	4.57	0.175	0.000	0.000	0.150	0.310	0.645
S. D.	0.007	0.226	0.007	0.516	0.035	0.021	0.021	0.021	1.15	0.049	0.000	0.000	0.085	0.000	0.375
LOW	0.320	0.310	0.070	0.720	0.400	0.010	0.130	0.150	3.75	0.140	0.000	0.000	0.090	0.000	0.380
HIGH	0.330	0.630	0.080	1.450	0.450	0.040	0.160	0.180	5.38	0.210	0.000	0.000	0.210	0.310	0.910

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- E9 — MUSCLE

LENGTH	NUM	3	MEAN	0.553	S. D.	0.040	LOW	0.510	HIGH	0.590					
WEIGHT	NUM	3	MEAN	1.770	S. D.	0.411	LOW	1.313	HIGH	2.109					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0002	0000
MEAN	0.153	0.325	0.078	1.693	0.222	0.032	0.128	0.172	3.46	0.228	0.000	0.000	0.213	0.500	0.608
S. D.	0.067	0.067	0.028	0.990	0.164	0.014	0.090	0.083	0.98	0.070	0.000	0.000	0.095	0.000	0.080
LOW	0.110	0.250	0.060	1.055	0.090	0.015	0.060	0.080	2.67	0.150	0.000	0.000	0.115	0.000	0.520
HIGH	0.230	0.380	0.110	2.833	0.406	0.040	0.230	0.240	4.56	0.285	0.000	0.000	0.305	0.500	0.675

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- I5 — MUSCLE

LENGTH	NUM	6	MEAN	0.590	S. D.	0.107	LOW	0.480	HIGH	0.730					
WEIGHT	NUM	5	MEAN	2.365	S. D.	1.422	LOW	1.040	HIGH	4.080					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0003	0000
MEAN	0.278	0.288	0.053	2.415	0.659	0.036	0.134	0.135	3.45	0.198	0.190	0.310	0.126	0.385	0.511
S. D.	0.166	0.050	0.012	1.388	0.113	0.011	0.105	0.051	0.32	0.068	0.000	0.000	0.031	0.080	0.071
LOW	0.130	0.250	0.035	0.580	0.500	0.025	0.060	0.060	3.00	0.090	0.000	0.000	0.090	0.310	0.410
HIGH	0.585	0.375	0.065	4.400	0.780	0.055	0.340	0.190	3.81	0.265	0.190	0.310	0.180	0.470	0.590

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- I9 — MUSCLE

LENGTH	NUM	3	MEAN	0.517	S. D.	0.067	LOW	0.460	HIGH	0.590					
WEIGHT	NUM	3	MEAN	1.524	S. D.	0.675	LOW	1.036	HIGH	2.294					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.205	0.303	0.053	1.848	0.543	0.037	0.088	0.212	3.31	0.143	0.000	0.000	0.135	0.470	0.495
S. D.	0.101	0.068	0.012	0.185	0.073	0.013	0.045	0.044	0.33	0.047	0.000	0.000	0.005	0.330	0.120
LOW	0.090	0.250	0.040	1.635	0.460	0.025	0.060	0.175	2.97	0.090	0.000	0.000	0.130	0.250	0.410
HIGH	0.280	0.380	0.060	1.963	0.595	0.050	0.140	0.260	3.63	0.180	0.000	0.000	0.140	0.850	0.580

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- J2 — MUSCLE

LENGTH	NUM	3	MEAN	0.877	S. D.	0.047	LOW	0.840	HIGH	0.930					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	1.040	0.313	0.065	1.710	0.577	0.017	0.147	0.147	4.00	0.158	0.000	0.000	0.148	0.562	0.322
S. D.	0.392	0.088	0.030	1.060	0.023	0.006	0.096	0.038	0.10	0.028	0.000	0.000	0.038	0.003	0.020
LOW	0.770	0.250	0.045	0.592	0.550	0.010	0.060	0.120	3.94	0.130	0.000	0.000	0.110	0.560	0.310
HIGH	1.490	0.375	0.100	2.700	0.590	0.020	0.250	0.190	4.12	0.185	0.000	0.000	0.185	0.565	0.345

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- J2 — LIVER

LENGTH	NUM	3	MEAN	0.877	S. D.	0.047	LOW	0.840	HIGH	0.930					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0002	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	2.443	0.377	0.688	5.093	3.435	0.023	0.093	1.723	16.15	0.275	0.188	1.040	1.083	0.417	0.282
S. D.	2.020	0.065	0.273	1.572	0.997	0.004	0.046	0.417	2.62	0.058	0.088	0.749	0.631	0.050	0.030
LOW	0.900	0.310	0.415	3.280	2.730	0.020	0.060	1.330	14.30	0.215	0.125	0.440	0.430	0.370	0.250
HIGH	4.730	0.440	0.960	6.075	4.140	0.025	0.125	2.160	18.00	0.330	0.250	1.880	1.690	0.470	0.310

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J3 MUSCLE

LENGTH	NUM	1	MEAN	0.680	S. D.	0.000	LOW	0.680	HIGH	0.680					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.100	0.500	0.040	2.675	0.910	0.000	0.090	0.260	3.75	0.190	0.000	0.000	0.110	0.340	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.100	0.500	0.040	2.675	0.910	0.000	0.090	0.260	3.75	0.190	0.000	0.000	0.110	0.340	0.220

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J4 MUSCLE

LENGTH	NUM	14	MEAN	0.621	S. D.	0.137	LOW	0.395	HIGH	0.810					
WEIGHT	NUM	13	MEAN	2.463	S. D.	1.630	LOW	0.599	HIGH	5.185					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0013	0014	0014	0014	0014	0013	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0012	0013	0000	0007	0000
MEAN	0.397	0.385	0.073	2.703	0.510	0.034	0.168	0.168	3.48	0.217	0.060	0.060	0.160	0.599	0.433
S. D.	0.231	0.130	0.035	2.415	0.194	0.018	0.059	0.073	0.54	0.035	0.000	0.000	0.048	0.236	0.145
LOW	0.145	0.185	0.040	0.690	0.060	0.020	0.095	0.060	2.87	0.160	0.060	0.000	0.090	0.310	0.190
HIGH	0.920	0.630	0.150	9.500	0.900	0.090	0.310	0.340	4.75	0.290	0.060	0.060	0.250	0.940	0.750

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J4 LIVER

LENGTH	NUM	2	MEAN	0.718	S. D.	0.088	LOW	0.655	HIGH	0.780					
WEIGHT	NUM	1	MEAN	2.792	S. D.	0.000	LOW	2.792	HIGH	2.792					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0001	0000	0000	0000	0000	0001	0000	0000	0000	0002	0000	0000	0001	0000
MEAN	0.100	0.440	0.430	1.925	2.150	0.035	0.060	1.720	13.25	0.365	0.000	0.160	0.535	0.190	0.330
S. D.	0.000	0.000	0.495	0.000	0.000	0.007	0.000	0.834	8.65	0.389	0.000	0.042	0.361	0.000	0.156
LOW	0.000	0.000	0.080	0.000	0.000	0.030	0.000	1.130	7.13	0.090	0.000	0.130	0.280	0.000	0.220
HIGH	0.100	0.440	0.780	1.925	2.150	0.040	0.060	2.310	19.37	0.640	0.000	0.190	0.790	0.190	0.440

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J5 MUSCLE

LENGTH	NUM	16	MEAN	0.635	S. D.	0.113	LOW	0.400	HIGH	0.800					
WEIGHT	NUM	8	MEAN	1.662	S. D.	0.757	LOW	0.591	HIGH	2.660					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0016	0016	0016	0015	0016	0016	0015	0016	0016	0016	0016	0016	0016	0015
N DET.	0000	0000	0002	0000	0000	0000	0001	0000	0000	0000	0012	0013	0000	0003	0000
MEAN	0.393	0.485	0.065	3.411	0.567	0.027	0.166	0.178	3.70	0.219	0.106	0.347	0.199	0.602	0.461
S. D.	0.370	0.252	0.023	1.956	0.202	0.011	0.118	0.099	0.95	0.065	0.067	0.232	0.096	0.118	0.151
LOW	0.140	0.155	0.030	0.675	0.210	0.010	0.060	0.060	2.06	0.130	0.030	0.100	0.095	0.440	0.225
HIGH	1.650	1.000	0.110	7.400	0.920	0.060	0.500	0.460	5.69	0.370	0.190	0.560	0.390	0.815	0.880

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J5 LIVER

LENGTH	NUM	6	MEAN	0.757	S. D.	0.055	LOW	0.690	HIGH	0.820					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006
N DET.	0002	0000	0000	0001	0000	0003	0002	0000	0000	0000	0006	0001	0000	0000	0001
MEAN	0.183	0.437	0.233	4.606	1.392	0.040	0.088	1.383	12.79	0.181	0.000	0.715	0.462	0.278	0.194
S. D.	0.092	0.338	0.141	1.786	0.550	0.026	0.069	0.448	4.57	0.109	0.000	0.920	0.117	0.201	0.251
LOW	0.070	0.120	0.080	2.575	0.750	0.010	0.040	0.785	8.44	0.030	0.000	0.060	0.350	0.090	0.030
HIGH	0.280	1.060	0.470	7.315	2.300	0.060	0.190	1.880	20.60	0.330	0.000	2.340	0.690	0.535	0.630

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J6 MUSCLE

LENGTH	NUM	5	MEAN	0.752	S. D.	0.108	LOW	0.600	HIGH	0.900					
WEIGHT	NUM	1	MEAN	1.347	S. D.	0.000	LOW	1.347	HIGH	1.347					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0001	0000
MEAN	0.508	0.513	0.064	2.608	0.391	0.023	0.170	0.198	3.86	0.163	0.000	0.040	0.131	0.582	0.402
S. D.	0.185	0.279	0.030	1.171	0.121	0.005	0.107	0.066	1.31	0.057	0.000	0.000	0.049	0.249	0.205
LOW	0.305	0.155	0.030	1.010	0.195	0.020	0.070	0.145	2.00	0.110	0.000	0.000	0.070	0.375	0.060
HIGH	0.780	0.880	0.110	4.000	0.535	0.030	0.380	0.325	5.25	0.250	0.000	0.040	0.215	0.965	0.590

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J6 LIVER

LENGTH	NUM	1	MEAN	0.730	S. D.	0.000	LOW	0.730	HIGH	0.730					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.260	0.310	0.300	5.100	1.645	0.020	0.060	2.185	8.56	0.235	0.000	1.340	0.705	0.315	0.425
S. D.	0.000	0.085	0.339	0.000	0.742	0.000	0.000	0.445	1.50	0.007	0.000	0.000	0.643	0.092	0.290
LOW	0.000	0.250	0.060	5.100	1.120	0.000	0.060	1.870	7.50	0.230	0.000	0.000	0.250	0.250	0.220
HIGH	0.260	0.370	0.540	5.100	2.170	0.020	0.060	2.500	9.62	0.240	0.000	1.340	1.160	0.380	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J7 MUSCLE

LENGTH	NUM	4	MEAN	0.743	S. D.	0.153	LOW	0.600	HIGH	0.960						
WEIGHT	NUM	2	MEAN	3.039	S. D.	1.059	LOW	2.290	HIGH	3.787						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000	
MEAN	0.343	0.408	0.073	2.994	0.452	0.036	0.186	0.188	4.11	0.210	0.060	0.280	0.228	0.555	0.571	
S. D.	0.175	0.188	0.022	2.827	0.166	0.016	0.166	0.082	0.99	0.061	0.000	0.000	0.088	0.199	0.336	
LOW	0.130	0.250	0.050	0.260	0.250	0.025	0.060	0.080	3.28	0.150	0.000	0.000	0.130	0.280	0.220	
HIGH	0.540	0.625	0.100	5.450	0.620	0.060	0.430	0.280	5.31	0.280	0.060	0.280	0.320	0.750	1.015	

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J7 LIVER

LENGTH	NUM	1	MEAN	0.780	S. D.	0.000	LOW	0.780	HIGH	0.780						
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	
MEAN	0.060	0.310	0.170	4.955	1.480	0.010	0.060	1.190	11.94	0.250	0.000	0.090	0.640	0.630	0.530	
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
HIGH	0.060	0.310	0.170	4.955	1.480	0.010	0.060	1.190	11.94	0.250	0.000	0.090	0.640	0.630	0.530	

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- J8 MUSCLE

LENGTH	NUM	1	MEAN	0.700	S. D.	0.000	LOW	0.700	HIGH	0.700						
WEIGHT	NUM	1	MEAN	4.190	S. D.	0.000	LOW	4.190	HIGH	4.190						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	
MEAN	0.520	0.440	0.060	1.300	0.750	0.010	0.130	0.420	5.81	0.370	0.000	0.000	0.110	0.630	0.500	
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	
HIGH	0.520	0.440	0.060	1.300	0.750	0.010	0.130	0.420	5.81	0.370	0.000	0.000	0.110	0.630	0.500	

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- K4 MUSCLE

LENGTH	NUM	8	MEAN	0.673	S. D.	0.100	LOW	0.500	HIGH	0.790						
WEIGHT	NUM	4	MEAN	3.018	S. D.	1.310	LOW	1.310	HIGH	4.502						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0010	0009	0010	0010	0009	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0007	0000	0001	0000	
MEAN	0.275	0.424	0.064	2.660	0.607	0.029	0.106	0.211	4.65	0.165	0.130	0.360	0.151	0.595	0.518	
S. D.	0.136	0.202	0.020	0.973	0.210	0.011	0.046	0.096	0.92	0.057	0.000	0.236	0.054	0.170	0.164	
LOW	0.110	0.190	0.040	1.337	0.263	0.010	0.050	0.090	3.50	0.085	0.000	0.190	0.090	0.375	0.340	
HIGH	0.540	0.760	0.100	4.600	0.900	0.050	0.190	0.370	6.31	0.240	0.130	0.630	0.280	0.970	0.910	

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- K4 LIVER

LENGTH	NUM	2	MEAN	0.740	S. D.	0.071	LOW	0.690	HIGH	0.790						
WEIGHT	NUM	1	MEAN	3.139	S. D.	0.000	LOW	3.139	HIGH	3.139						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0001	
MEAN	0.120	0.470	0.475	4.475	4.175	0.020	0.130	1.435	10.47	0.140	0.190	0.880	0.560	0.750	0.390	
S. D.	0.000	0.311	0.488	2.652	1.308	0.014	0.000	0.007	6.24	0.000	0.000	0.000	0.453	0.000	0.000	
LOW	0.000	0.250	0.130	2.600	3.250	0.010	0.130	1.430	6.06	0.140	0.000	0.000	0.240	0.000	0.000	
HIGH	0.120	0.690	0.820	6.350	5.100	0.030	0.130	1.440	14.88	0.140	0.190	0.880	0.880	0.750	0.390	

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- K5 MUSCLE

LENGTH	NUM	4	MEAN	0.678	S. D.	0.050	LOW	0.610	HIGH	0.730						
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0003	0000	0000	0000	
MEAN	0.273	0.353	0.056	2.478	0.508	0.016	0.125	0.170	3.47	0.145	0.000	0.440	0.139	0.409	0.429	
S. D.	0.129	0.139	0.005	0.691	0.076	0.006	0.056	0.041	0.32	0.055	0.000	0.000	0.010	0.128	0.083	
LOW	0.110	0.190	0.050	1.608	0.400	0.010	0.060	0.130	3.18	0.080	0.000	0.000	0.125	0.310	0.345	
HIGH	0.390	0.530	0.060	3.300	0.575	0.025	0.160	0.225	3.87	0.195	0.000	0.440	0.150	0.590	0.500	

CUSK BROSME BROSME 033004 AREA- NORTH ATLANTIC SITE- K5 LIVER

LENGTH	NUM	2	MEAN	0.710	S. D.	0.028	LOW	0.690	HIGH	0.730						
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000						
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM	
NUMBER	0002	0002	0002	0002	0000	0001	0002	0001	0002	0002	0002	0002	0002	0002	0002	
N DET.	0001	0000	0000	0000	0000	0000	0002	0000	0000	0000	0001	0001	0000	0000	0000	
MEAN	0.170	0.130	0.540	1.675	0.000	0.010	0.000	0.490	15.53	0.180	0.190	0.810	0.510	0.575	0.170	
S. D.	0.000	0.000	0.552	1.732	0.000	0.000	0.000	0.000	1.46	0.085	0.000	0.000	0.467	0.332	0.028	
LOW	0.000	0.130	0.150	0.450	0.000	0.000	0.000	0.000	14.50	0.120	0.000	0.000	0.180	0.340	0.150	
HIGH	0.170	0.130	0.930	2.900	0.000	0.010	0.000	0.490	16.56	0.240	0.190	0.810	0.840	0.810	0.190	

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CUSK — BROSME BROSME — 033004 — AREA- NORTH ATLANTIC — SITE- K7 — MUSCLE

LENGTH	NUM	3	MEAN	0.627	S. D.	0.165	LOW	0.460	HIGH	0.790					
WEIGHT	NUM	3	MEAN	2.214	S. D.	1.251	LOW	0.813	HIGH	3.220					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.390	0.222	0.048	1.827	0.387	0.038	0.237	0.215	3.46	0.152	0.000	0.000	0.133	0.397	0.543
S. D.	0.256	0.111	0.008	0.607	0.152	0.003	0.235	0.083	0.52	0.049	0.000	0.000	0.042	0.204	0.127
LOW	0.120	0.130	0.040	1.320	0.250	0.035	0.050	0.160	3.13	0.110	0.000	0.000	0.100	0.250	0.470
HIGH	0.630	0.345	0.055	2.500	0.550	0.040	0.500	0.310	4.06	0.205	0.000	0.000	0.180	0.630	0.690

COD, PAC. (GRAY) — GADUS MACROCEPHALUS — 033007 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM	10	MEAN	0.534	S. D.	0.008	LOW	0.525	HIGH	0.540					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0004	0000	0000	0005	0001	0000	0000	0004	0009	0008	0002	0005	0000
MEAN	0.107	0.342	0.067	12.355	0.514	0.048	0.154	0.221	4.46	0.305	0.150	0.450	0.130	0.982	0.566
S. D.	0.024	0.176	0.029	14.151	0.229	0.013	0.103	0.103	1.77	0.125	0.000	0.071	0.058	0.449	0.278
LOW	0.060	0.150	0.040	2.700	0.150	0.040	0.045	0.110	1.78	0.172	0.000	0.400	0.055	0.360	0.350
HIGH	0.140	0.626	0.110	44.700	1.005	0.070	0.296	0.430	7.14	0.500	0.150	0.500	0.215	1.630	1.250

COD, PAC. (GRAY) — GADUS MACROCEPHALUS — 033007 — AREA- PACIFIC NORTHWEST — SITE- G9 — LIVER

LENGTH	NUM	8	MEAN	0.534	S. D.	0.008	LOW	0.525	HIGH	0.540					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0007	0008	0008	0008	0008	0008	0008	0008	0008	0007	0008
N DET.	0007	0001	0003	0000	0000	0001	0002	0000	0000	0002	0001	0007	0000	0003	0001
MEAN	0.010	0.161	0.098	5.265	1.419	0.044	0.104	2.585	11.09	0.223	0.126	0.070	0.571	0.110	0.279
S. D.	0.000	0.050	0.036	2.020	0.495	0.024	0.062	0.883	4.47	0.119	0.073	0.000	0.255	0.042	0.194
LOW	0.000	0.120	0.070	2.320	0.920	0.010	0.040	1.440	3.75	0.080	0.050	0.000	0.250	0.050	0.100
HIGH	0.010	0.260	0.160	7.640	2.225	0.080	0.190	3.770	16.88	0.380	0.250	0.070	1.000	0.150	0.560

COD, PAC. (GRAY) — GADUS MACROCEPHALUS — 033007 — AREA- PACIFIC NORTHWEST — SITE- M2 — MUSCLE

LENGTH	NUM	2	MEAN	0.620	S. D.	0.028	LOW	0.600	HIGH	0.640					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0002	0002	0001	0001	0000
MEAN	0.158	0.144	0.080	10.598	0.410	0.085	0.116	0.200	3.18	0.153	0.000	0.000	0.160	0.650	0.850
S. D.	0.004	0.175	0.000	12.306	0.028	0.064	0.065	0.028	0.04	0.011	0.000	0.000	0.000	0.000	0.636
LOW	0.155	0.020	0.000	1.896	0.390	0.040	0.070	0.180	3.15	0.145	0.000	0.000	0.000	0.000	0.400
HIGH	0.160	0.267	0.080	19.300	0.430	0.130	0.162	0.220	3.21	0.160	0.000	0.000	0.160	0.650	1.300

COD, PAC. (GRAY) — GADUS MACROCEPHALUS — 033007 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	16	MEAN	0.655	S. D.	0.074	LOW	0.500	HIGH	0.760					
WEIGHT	NUM	13	MEAN	3.803	S. D.	1.226	LOW	1.474	HIGH	5.670					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0017	0017	0016	0017	0017	0017	0017	0017	0017	0017	0017	0017	0015
N DET.	0000	0000	0004	0000	0001	0008	0001	0001	0000	0000	0013	0014	0001	0002	0000
MEAN	0.169	0.365	0.066	8.893	0.556	0.031	0.212	0.235	3.83	0.230	0.163	0.367	0.138	0.654	0.557
S. D.	0.054	0.202	0.047	6.170	0.172	0.021	0.130	0.069	0.79	0.131	0.137	0.277	0.104	0.435	0.270
LOW	0.060	0.105	0.030	3.030	0.210	0.010	0.070	0.110	2.50	0.070	0.060	0.060	0.060	0.130	0.120
HIGH	0.260	0.880	0.180	28.500	0.810	0.070	0.613	0.360	5.36	0.640	0.350	0.600	0.500	1.630	1.350

COD, PAC. (GRAY) — GADUS MACROCEPHALUS — 033007 — AREA- PACIFIC NORTHWEST — SITE- M5 — LIVER

LENGTH	NUM	1	MEAN	0.575	S. D.	0.000	LOW	0.575	HIGH	0.575					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000	0001	0000
MEAN	0.020	0.400	0.000	3.180	1.780	0.140	0.170	4.860	18.57	0.000	0.250	0.000	0.930	0.000	0.350
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.400	0.000	3.180	1.780	0.140	0.170	4.860	18.57	0.000	0.250	0.000	0.930	0.000	0.350

COD, PAC. (GRAY) — GADUS MACROCEPHALUS — 033007 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	1	MEAN	0.510	S. D.	0.000	LOW	0.510	HIGH	0.510					
WEIGHT	NUM	1	MEAN	1.134	S. D.	0.000	LOW	1.134	HIGH	1.134					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.140	0.420	0.180	3.455	0.460	0.035	0.817	0.365	3.99	0.720	0.000	0.000	0.180	0.783	0.450
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.140	0.420	0.180	3.455	0.460	0.035	0.817	0.365	3.99	0.720	0.000	0.000	0.180	0.783	0.450

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

COD, PAC. (GRAY) GADUS MACROCEPHALUS 033007 AREA- PACIFIC NORTHWEST SITE- N1 MUSCLE

LENGTH	NUM	10	MEAN	0.526	S. D.	0.040	LOW	0.450	HIGH	0.570					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0001	0003	0000	0000	0005	0002	0000	0000	0004	0008	0009	0000	0002	0000
MEAN	0.261	0.615	0.055	10.200	0.401	0.037	0.127	0.173	3.73	0.199	0.105	1.020	0.159	0.856	0.632
S. D.	0.089	0.555	0.014	8.614	0.174	0.010	0.065	0.040	0.88	0.097	0.064	0.000	0.077	0.666	0.241
LOW	0.163	0.150	0.040	3.322	0.120	0.025	0.050	0.125	2.68	0.070	0.060	0.000	0.070	0.250	0.350
HIGH	0.400	1.780	0.070	30.250	0.620	0.050	0.225	0.253	5.33	0.320	0.150	1.020	0.325	1.750	0.970

COD, PAC. (GRAY) GADUS MACROCEPHALUS 033007 AREA- PACIFIC NORTHWEST SITE- N1 LIVER

LENGTH	NUM	2	MEAN	0.460	S. D.	0.014	LOW	0.450	HIGH	0.470					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0001	0000	0002	0000	0000	0000
MEAN	0.098	0.268	0.110	8.538	3.643	0.873	0.170	10.565	25.25	0.360	0.160	0.000	1.638	0.150	0.153
S. D.	0.110	0.350	0.000	0.053	2.790	0.180	0.099	0.714	3.69	0.000	0.057	0.000	0.357	0.141	0.039
LOW	0.020	0.020	0.000	8.500	1.670	0.745	0.100	10.060	22.64	0.000	0.120	0.000	1.385	0.050	0.125
HIGH	0.175	0.515	0.110	8.575	5.616	1.000	0.240	11.070	27.86	0.360	0.200	0.000	1.890	0.250	0.180

COD, PAC. (GRAY) GADUS MACROCEPHALUS 033007 AREA- ALASKA SITE- K7 MUSCLE

LENGTH	NUM	9	MEAN	0.666	S. D.	0.065	LOW	0.600	HIGH	0.760					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0000	0000	0000	0000	0000	0006	0000	0000	0000	0000	0008	0009	0000	0000	0000
MEAN	0.130	0.323	0.055	4.536	0.291	0.025	0.163	0.251	4.04	0.144	0.060	0.000	0.087	0.483	0.477
S. D.	0.086	0.056	0.012	1.998	0.156	0.009	0.124	0.070	0.48	0.056	0.000	0.000	0.009	0.075	0.095
LOW	0.020	0.230	0.040	0.750	0.140	0.020	0.060	0.160	3.38	0.070	0.000	0.000	0.075	0.370	0.355
HIGH	0.310	0.380	0.075	7.000	0.630	0.035	0.345	0.355	4.81	0.225	0.060	0.000	0.100	0.595	0.630

COD, PAC. (GRAY) GADUS MACROCEPHALUS 033007 AREA- ALASKA SITE- N6 MUSCLE

LENGTH	NUM	10	MEAN	0.666	S. D.	0.058	LOW	0.590	HIGH	0.750					
WEIGHT	NUM	10	MEAN	2.778	S. D.	0.586	LOW	2.155	HIGH	3.629					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.154	0.423	0.049	7.798	0.620	0.034	0.206	0.280	4.27	0.187	0.213	0.302	0.171	0.615	0.539
S. D.	0.095	0.161	0.014	3.300	0.290	0.006	0.122	0.121	1.53	0.055	0.145	0.223	0.062	0.264	0.144
LOW	0.020	0.250	0.030	3.250	0.330	0.030	0.095	0.060	2.75	0.060	0.060	0.060	0.105	0.130	0.250
HIGH	0.315	0.785	0.075	12.960	1.205	0.045	0.500	0.500	8.12	0.270	0.410	0.500	0.320	0.940	0.750

COD, PAC. (GRAY) GADUS MACROCEPHALUS 033007 AREA- ALASKA SITE- N6 LIVER

LENGTH	NUM	5	MEAN	0.707	S. D.	0.042	LOW	0.645	HIGH	0.750					
WEIGHT	NUM	5	MEAN	3.221	S. D.	0.485	LOW	2.381	HIGH	3.629					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0000	0005	0005	0005	0005	0005	0004	0005	0004	0005	0005
N DET.	0002	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0005	0000	0000	0000
MEAN	0.047	0.506	0.376	3.729	0.000	0.066	0.192	3.075	22.54	0.252	0.383	0.000	2.010	0.550	0.442
S. D.	0.038	0.188	0.212	2.058	0.000	0.079	0.130	2.154	4.72	0.116	0.056	0.000	0.860	0.326	0.269
LOW	0.020	0.310	0.150	2.600	0.000	0.010	0.010	0.880	15.00	0.090	0.310	0.000	1.130	0.130	0.060
HIGH	0.090	0.750	0.700	7.400	0.000	0.190	0.330	5.090	26.72	0.410	0.440	0.000	3.190	0.940	0.750

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I2 MUSCLE

LENGTH	NUM	7	MEAN	0.871	S. D.	0.220	LOW	0.410	HIGH	1.040					
WEIGHT	NUM	1	MEAN	0.925	S. D.	0.000	LOW	0.925	HIGH	0.925					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0007	0006	0000	0000	0000
MEAN	0.222	0.409	0.061	5.374	0.501	0.034	0.174	0.212	3.84	0.169	0.000	0.190	0.124	0.563	0.431
S. D.	0.133	0.176	0.019	2.519	0.114	0.015	0.154	0.034	0.43	0.037	0.000	0.000	0.035	0.177	0.170
LOW	0.040	0.190	0.040	3.375	0.375	0.015	0.060	0.180	2.97	0.120	0.000	0.000	0.090	0.300	0.220
HIGH	0.430	0.750	0.090	9.300	0.720	0.060	0.440	0.270	4.38	0.210	0.000	0.190	0.180	0.750	0.690

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I2 LIVER

LENGTH	NUM	6	MEAN	0.948	S. D.	0.091	LOW	0.800	HIGH	1.040					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0005	0000	0000	0000	0000	0000	0001	0000	0000	0000	0003	0005	0000	0000	0000
MEAN	0.110	0.488	0.097	7.988	1.234	0.202	0.202	3.770	13.92	0.178	0.167	0.310	0.698	0.312	0.260
S. D.	0.000	0.313	0.067	5.882	0.851	0.231	0.242	2.829	5.50	0.082	0.072	0.000	0.478	0.171	0.196
LOW	0.000	0.060	0.050	2.300	0.600	0.010	0.060	0.970	6.50	0.090	0.120	0.000	0.210	0.120	0.060
HIGH	0.110	1.000	0.230	16.550	2.440	0.510	0.630	9.060	21.88	0.300	0.250	0.310	1.330	0.630	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I3 MUSCLE

LENGTH	NUM	2	MEAN	0.920	S. D.	0.198	LOW	0.780	HIGH	1.060					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.333	0.360	0.048	12.369	0.493	0.035	0.158	0.223	4.67	0.240	0.000	0.000	0.090	0.658	0.420
S. D.	0.364	0.156	0.004	11.588	0.110	0.007	0.039	0.138	0.41	0.000	0.000	0.000	0.042	0.131	0.071
LOW	0.075	0.250	0.045	4.175	0.415	0.030	0.130	0.125	4.38	0.240	0.000	0.000	0.060	0.565	0.370
HIGH	0.590	0.470	0.050	20.563	0.570	0.040	0.185	0.320	4.96	0.240	0.000	0.000	0.120	0.750	0.470

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I3 LIVER

LENGTH	NUM	2	MEAN	0.920	S. D.	0.198	LOW	0.780	HIGH	1.060					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.210	0.375	0.125	1.960	1.905	0.265	0.285	3.220	19.38	0.190	0.190	0.310	1.175	0.345	0.525
S. D.	0.000	0.346	0.021	0.000	0.375	0.262	0.134	2.079	6.19	0.071	0.042	0.000	1.039	0.403	0.304
LOW	0.000	0.130	0.110	0.000	1.640	0.080	0.190	1.750	15.00	0.140	0.160	0.000	0.440	0.060	0.310
HIGH	0.210	0.620	0.140	1.960	2.170	0.450	0.380	4.690	23.75	0.240	0.220	0.310	1.910	0.630	0.740

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I7 MUSCLE

LENGTH	NUM	11	MEAN	0.446	S. D.	0.101	LOW	0.416	HIGH	0.750					
WEIGHT	NUM	11	MEAN	0.839	S. D.	0.136	LOW	0.798	HIGH	1.249					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0006	0006	0000	0001	0001
MEAN	0.066	0.557	0.076	6.545	0.395	0.031	0.216	0.247	3.82	0.194	0.176	0.393	0.144	0.610	0.469
S. D.	0.033	0.523	0.047	2.297	0.198	0.007	0.139	0.090	1.30	0.056	0.073	0.215	0.040	0.206	0.117
LOW	0.020	0.130	0.020	4.282	0.150	0.020	0.060	0.060	2.25	0.100	0.060	0.185	0.070	0.310	0.220
HIGH	0.120	1.880	0.170	11.090	0.715	0.040	0.500	0.360	6.56	0.315	0.250	0.630	0.190	0.905	0.620

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I7 LIVER

LENGTH	NUM	2	MEAN	0.583	S. D.	0.236	LOW	0.416	HIGH	0.750					
WEIGHT	NUM	1	MEAN	0.798	S. D.	0.000	LOW	0.798	HIGH	0.798					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.000	0.375	0.285	5.494	1.000	0.210	0.500	4.310	19.07	0.225	0.345	0.000	0.690	0.410	0.345
S. D.	0.000	0.177	0.177	1.636	0.325	0.085	0.000	0.000	5.75	0.007	0.049	0.000	0.141	0.042	0.049
LOW	0.000	0.250	0.160	4.337	0.770	0.150	0.000	0.000	15.00	0.220	0.310	0.000	0.590	0.380	0.310
HIGH	0.000	0.500	0.410	6.650	1.230	0.270	0.500	4.310	23.13	0.230	0.380	0.000	0.790	0.440	0.380

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I9 MUSCLE

LENGTH	NUM	1	MEAN	0.770	S. D.	0.000	LOW	0.770	HIGH	0.770					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.190	0.310	0.040	4.850	0.140	0.025	0.535	0.310	3.97	0.355	0.000	0.000	0.100	0.655	0.425
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.190	0.310	0.040	4.850	0.140	0.025	0.535	0.310	3.97	0.355	0.000	0.000	0.100	0.655	0.425

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- I9 LIVER

LENGTH	NUM	1	MEAN	0.605	S. D.	0.000	LOW	0.605	HIGH	0.605					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.500	0.640	5.750	0.980	0.050	0.060	5.000	16.25	0.120	0.210	0.000	0.540	0.250	0.250
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.500	0.640	5.750	0.980	0.050	0.060	5.000	16.25	0.120	0.210	0.000	0.540	0.250	0.250

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J4 LIVER

LENGTH	NUM	1	MEAN	0.910	S. D.	0.000	LOW	0.910	HIGH	0.910					
WEIGHT	NUM	1	MEAN	9.072	S. D.	0.000	LOW	9.072	HIGH	9.072					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.000	0.430	0.140	0.000	0.950	0.360	0.080	6.430	15.36	0.820	0.150	0.000	0.530	0.000	0.280
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.430	0.140	0.000	0.950	0.360	0.080	6.430	15.36	0.820	0.150	0.000	0.530	0.000	0.280

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J5 MUSCLE

LENGTH	NUM	1	MEAN	0.543	S. D.	0.000	LOW	0.543	HIGH	0.543					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.113	1.038	0.185	7.166	0.363	0.040	0.262	0.120	4.05	0.315	0.000	0.000	0.106	0.325	0.950
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.113	1.038	0.185	7.166	0.363	0.040	0.262	0.120	4.05	0.315	0.000	0.000	0.106	0.325	0.950

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J5 LIVER

LENGTH	NUM	1	MEAN	0.543	S. D.	0.000	LOW	0.543	HIGH	0.543					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0001
MEAN	0.080	0.360	0.370	5.760	1.050	0.810	0.115	10.000	31.87	0.810	0.270	0.000	1.190	0.300	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.080	0.360	0.370	5.760	1.050	0.810	0.115	10.000	31.87	0.810	0.270	0.000	1.190	0.300	0.000

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J6 MUSCLE

LENGTH	NUM	14	MEAN	0.641	S. D.	0.122	LOW	0.520	HIGH	0.920					
WEIGHT	NUM	4	MEAN	4.144	S. D.	2.756	LOW	1.436	HIGH	7.938					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0013	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0000	0000	0002	0000	0000	0003	0001	0000	0000	0001	0014	0012	0000	0000	0000
MEAN	0.105	0.452	0.052	4.755	0.444	0.030	0.198	0.325	3.42	0.222	0.000	0.295	0.134	0.657	0.456
S. D.	0.056	0.235	0.020	2.192	0.081	0.011	0.212	0.259	0.26	0.072	0.000	0.064	0.042	0.234	0.175
LOW	0.020	0.180	0.030	0.750	0.325	0.010	0.060	0.130	3.06	0.120	0.000	0.250	0.060	0.120	0.100
HIGH	0.230	1.050	0.100	8.650	0.575	0.050	0.756	1.110	3.78	0.390	0.000	0.340	0.215	1.200	0.820

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J6 LIVER

LENGTH	NUM	3	MEAN	0.801	S. D.	0.143	LOW	0.643	HIGH	0.920					
WEIGHT	NUM	2	MEAN	5.528	S. D.	3.408	LOW	3.118	HIGH	7.938					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0002	0000	0000	0001
MEAN	0.040	0.404	0.623	4.098	0.845	0.113	0.155	6.972	16.20	0.157	0.395	0.190	0.668	0.542	0.250
S. D.	0.000	0.137	0.715	1.128	0.346	0.121	0.148	4.725	8.14	0.127	0.318	0.000	0.302	0.477	0.000
LOW	0.000	0.253	0.110	3.300	0.600	0.020	0.050	3.260	8.62	0.010	0.170	0.000	0.340	0.090	0.000
HIGH	0.040	0.520	1.440	4.895	1.090	0.250	0.260	12.290	24.80	0.240	0.620	0.190	0.935	1.040	0.250

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J7 MUSCLE

LENGTH	NUM	15	MEAN	0.430	S. D.	0.042	LOW	0.324	HIGH	0.480					
WEIGHT	NUM	15	MEAN	0.860	S. D.	0.240	LOW	0.362	HIGH	1.158					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0014	0014	0015	0015	0015	0014	0014	0014	0015	0015	0015	0015	0015	0013
N DET.	0006	0000	0000	0000	0000	0001	0000	0000	0000	0000	0014	0014	0000	0002	0000
MEAN	0.121	0.336	0.078	3.979	0.316	0.033	0.142	0.258	3.77	0.239	0.190	0.380	0.210	0.743	0.519
S. D.	0.104	0.146	0.042	1.822	0.080	0.010	0.055	0.127	0.55	0.085	0.000	0.000	0.197	0.227	0.197
LOW	0.020	0.080	0.030	0.900	0.150	0.020	0.060	0.080	2.81	0.100	0.000	0.000	0.060	0.470	0.380
HIGH	0.300	0.595	0.210	7.066	0.470	0.050	0.285	0.510	4.59	0.380	0.190	0.380	0.700	1.190	1.130

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J7 LIVER

LENGTH	NUM	1	MEAN	1.050	S. D.	0.000	LOW	1.050	HIGH	1.050					
WEIGHT	NUM	1	MEAN	14.969	S. D.	0.000	LOW	14.969	HIGH	14.969					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.500	0.425	1.926	0.900	0.020	0.120	0.865	17.06	0.155	0.495	0.120	0.585	0.720	0.545
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.500	0.425	1.926	0.900	0.020	0.120	0.865	17.06	0.155	0.495	0.120	0.585	0.720	0.545

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J8 MUSCLE

LENGTH	NUM	18	MEAN	0.632	S. D.	0.148	LOW	0.404	HIGH	1.040					
WEIGHT	NUM	14	MEAN	2.846	S. D.	1.489	LOW	0.735	HIGH	5.840					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0018	0018	0017	0017	0018	0018	0017	0018	0018	0018	0018	0017	0018	0017
N DET.	0001	0001	0001	0000	0000	0003	0000	0000	0000	0001	0012	0014	0000	0001	0000
MEAN	0.098	0.373	0.057	5.185	0.315	0.051	0.134	0.198	3.93	0.231	0.358	0.108	0.132	0.722	0.576
S. D.	0.048	0.137	0.025	3.688	0.130	0.043	0.084	0.074	1.46	0.129	0.348	0.032	0.052	0.219	0.165
LOW	0.020	0.190	0.025	1.725	0.130	0.020	0.030	0.030	1.06	0.040	0.060	0.060	0.060	0.380	0.315
HIGH	0.210	0.685	0.120	17.183	0.560	0.180	0.325	0.310	7.50	0.460	0.870	0.130	0.240	1.080	0.910

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- J8 LIVER

LENGTH	NUM	4	MEAN	0.764	S. D.	0.184	LOW	0.663	HIGH	1.040					
WEIGHT	NUM	1	MEAN	3.629	S. D.	0.000	LOW	3.629	HIGH	3.629					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0001	0002	0004	0000	0000	0000
MEAN	0.158	0.549	0.105	5.362	0.696	0.185	0.087	5.850	15.67	0.107	0.225	0.000	0.398	0.553	0.398
S. D.	0.145	0.415	0.062	2.640	0.305	0.129	0.023	5.691	13.57	0.059	0.049	0.000	0.278	0.574	0.397
LOW	0.055	0.150	0.040	3.700	0.250	0.010	0.060	1.570	4.40	0.040	0.190	0.000	0.140	0.190	0.060
HIGH	0.260	1.120	0.180	9.300	0.940	0.320	0.100	14.210	35.36	0.150	0.260	0.000	0.780	1.410	0.900

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- K2 MUSCLE

LENGTH	NUM	8	MEAN	0.712	S. D.	0.216	LOW	0.434	HIGH	1.020					
WEIGHT	NUM	3	MEAN	1.087	S. D.	0.289	LOW	0.782	HIGH	1.358					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0005	0005	0000	0001	0000
MEAN	0.074	0.334	0.052	3.423	0.632	0.044	0.119	0.218	4.25	0.210	0.333	0.360	0.159	0.959	0.763
S. D.	0.065	0.140	0.011	1.611	0.244	0.010	0.052	0.085	0.95	0.077	0.239	0.375	0.047	0.313	0.424
LOW	0.020	0.155	0.036	1.100	0.345	0.030	0.060	0.030	3.47	0.126	0.060	0.060	0.075	0.580	0.390
HIGH	0.195	0.500	0.070	6.133	1.040	0.060	0.205	0.280	6.23	0.360	0.500	0.780	0.205	1.500	1.750

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- K2 LIVER

LENGTH	NUM	6	MEAN	0.791	S. D.	0.186	LOW	0.465	HIGH	1.020					
WEIGHT	NUM	1	MEAN	1.032	S. D.	0.000	LOW	1.032	HIGH	1.032					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0004	0006	0006	0006	0006	0006	0006	0006	0006	0005	0006
N DET.	0005	0000	0001	0000	0000	0001	0000	0000	0000	0001	0001	0005	0000	0001	0000
MEAN	0.010	0.435	0.161	3.674	0.810	0.072	0.191	3.690	13.33	0.244	0.264	0.400	0.500	0.355	0.309
S. D.	0.000	0.217	0.098	3.176	0.233	0.058	0.137	1.282	3.86	0.159	0.156	0.000	0.213	0.124	0.325
LOW	0.000	0.250	0.040	0.300	0.520	0.010	0.040	2.120	8.21	0.090	0.100	0.000	0.220	0.200	0.060
HIGH	0.010	0.850	0.290	8.020	1.040	0.130	0.400	5.750	17.85	0.510	0.500	0.400	0.800	0.500	0.890

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- N2 MUSCLE

LENGTH	NUM	7	MEAN	0.589	S. D.	0.089	LOW	0.510	HIGH	0.780					
WEIGHT	NUM	7	MEAN	1.994	S. D.	0.370	LOW	1.362	HIGH	2.270					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0010	0009	0000	0010	0000
MEAN	0.168	0.456	0.068	2.649	0.386	0.034	0.434	0.263	4.44	0.234	0.190	0.140	0.187	0.410	0.509
S. D.	0.166	0.201	0.024	1.673	0.147	0.009	0.280	0.109	1.41	0.032	0.000	0.113	0.076	0.000	0.103
LOW	0.060	0.190	0.040	0.100	0.145	0.020	0.125	0.080	2.75	0.180	0.000	0.060	0.080	0.000	0.370
HIGH	0.580	0.810	0.130	6.125	0.600	0.050	0.815	0.510	7.75	0.280	0.190	0.220	0.320	0.410	0.690

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- N2 LIVER

LENGTH	NUM	4	MEAN	0.605	S. D.	0.120	LOW	0.510	HIGH	0.780					
WEIGHT	NUM	3	MEAN	1.835	S. D.	0.418	LOW	1.362	HIGH	2.157					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0002	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0004	0000	0004	0000
MEAN	0.057	0.313	0.252	3.246	0.751	0.076	0.167	4.360	16.60	0.328	0.252	0.250	0.662	0.440	0.360
S. D.	0.064	0.102	0.229	1.490	0.339	0.094	0.097	2.338	6.28	0.217	0.114	0.000	0.238	0.000	0.063
LOW	0.020	0.190	0.130	1.720	0.260	0.010	0.060	2.060	6.85	0.130	0.130	0.000	0.290	0.000	0.250
HIGH	0.130	0.440	0.660	5.225	1.100	0.240	0.250	8.050	21.88	0.610	0.410	0.250	0.910	0.440	0.410

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	5	MEAN	0.606	S. D.	0.104	LOW	0.448	HIGH	0.735					
WEIGHT	NUM	4	MEAN	3.204	S. D.	1.329	LOW	2.155	HIGH	5.103					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.109	0.612	0.067	4.373	0.496	0.029	0.145	0.266	4.29	0.212	0.000	0.280	0.146	0.664	0.503
S. D.	0.047	0.341	0.037	1.788	0.125	0.011	0.087	0.064	0.53	0.029	0.000	0.000	0.040	0.219	0.215
LOW	0.030	0.280	0.035	3.231	0.330	0.010	0.060	0.175	3.69	0.180	0.000	0.000	0.115	0.440	0.220
HIGH	0.150	1.060	0.130	7.500	0.620	0.035	0.285	0.325	5.12	0.255	0.000	0.280	0.215	0.965	0.690

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- O2 MUSCLE

LENGTH	NUM	10	MEAN	0.547	S. D.	0.060	LOW	0.481	HIGH	0.675					
WEIGHT	NUM	10	MEAN	1.691	S. D.	0.506	LOW	1.204	HIGH	2.749					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0009	0010	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0001	0000	0000	0001	0001	0000	0000	0000	0008	0005	0000	0000	0000
MEAN	0.097	0.396	0.051	5.326	0.330	0.026	0.122	0.233	3.41	0.213	0.060	0.203	0.125	0.600	0.590
S. D.	0.054	0.243	0.020	2.691	0.184	0.014	0.049	0.091	1.36	0.065	0.000	0.167	0.073	0.278	0.845
LOW	0.020	0.120	0.020	2.050	0.140	0.010	0.070	0.080	0.87	0.140	0.000	0.060	0.030	0.060	0.250
HIGH	0.205	0.810	0.075	9.500	0.780	0.050	0.200	0.340	5.47	0.350	0.060	0.380	0.270	0.905	2.930

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- 03 MUSCLE

LENGTH	NUM	10	MEAN	0.636	S. D.	0.287	LOW	0.328	HIGH	1.140					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0007	0000	0000	0000
MEAN	0.120	0.488	0.061	5.094	0.422	0.041	0.148	0.282	4.92	0.211	0.190	0.238	0.154	0.742	0.552
S. D.	0.095	0.247	0.021	1.968	0.128	0.021	0.060	0.120	1.69	0.052	0.000	0.113	0.082	0.252	0.126
LOW	0.030	0.250	0.020	1.600	0.220	0.020	0.060	0.100	0.94	0.120	0.190	0.040	0.040	0.190	0.330
HIGH	0.340	1.000	0.100	8.300	0.590	0.080	0.250	0.485	7.88	0.330	0.190	0.310	0.325	1.130	0.810

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- 03 LIVER

LENGTH	NUM	3	MEAN	0.887	S. D.	0.260	LOW	0.620	HIGH	1.140					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	0.020	0.490	0.245	5.994	0.805	0.323	0.187	6.617	15.45	0.180	0.175	0.310	0.525	0.198	0.325
S. D.	0.000	0.205	0.157	3.985	0.106	0.474	0.125	3.816	3.16	0.044	0.021	0.000	0.200	0.095	0.110
LOW	0.020	0.280	0.115	3.157	0.730	0.020	0.060	2.290	11.97	0.150	0.160	0.000	0.345	0.130	0.220
HIGH	0.020	0.690	0.420	10.550	0.880	0.870	0.310	9.500	18.13	0.230	0.190	0.310	0.740	0.265	0.440

COD, ATL. GADUS MORHUA 033008 AREA- NORTH ATLANTIC SITE- P1 LIVER

LENGTH	NUM	1	MEAN	0.690	S. D.	0.000	LOW	0.690	HIGH	0.690					
WEIGHT	NUM	1	MEAN	7.258	S. D.	0.000	LOW	7.258	HIGH	7.258					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	0.690	0.180	2.750	0.850	0.120	0.130	8.630	26.25	0.210	0.000	0.090	0.000	0.690	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.690	0.180	2.750	0.850	0.120	0.130	8.630	26.25	0.210	0.000	0.090	0.000	0.690	0.220

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- E9 MUSCLE

LENGTH	NUM	13	MEAN	0.276	S. D.	0.024	LOW	0.232	HIGH	0.313					
WEIGHT	NUM	13	MEAN	0.223	S. D.	0.059	LOW	0.122	HIGH	0.337					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0003	0000	0001	0000	0000	0001	0000	0000	0000	0000	0011	0006	0000	0001	0000
MEAN	0.050	0.382	0.073	9.383	0.653	0.037	0.125	0.247	3.57	0.213	0.125	0.350	0.414	0.623	0.418
S. D.	0.030	0.121	0.065	3.396	0.106	0.005	0.071	0.042	0.58	0.036	0.092	0.079	0.237	0.107	0.105
LOW	0.020	0.190	0.020	4.625	0.480	0.029	0.060	0.190	2.88	0.130	0.060	0.240	0.090	0.440	0.280
HIGH	0.110	0.630	0.275	15.400	0.800	0.040	0.310	0.320	4.94	0.260	0.190	0.440	1.000	0.750	0.626

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- I9 MUSCLE

LENGTH	NUM	1	MEAN	0.710	S. D.	0.000	LOW	0.710	HIGH	0.710					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.070	0.298	0.045	8.659	0.675	0.030	0.198	0.150	3.23	0.183	0.000	0.000	0.130	0.565	0.400
S. D.	0.028	0.018	0.021	2.498	0.205	0.014	0.166	0.141	0.82	0.018	0.000	0.000	0.000	0.092	0.057
LOW	0.050	0.285	0.030	6.893	0.530	0.020	0.080	0.050	2.65	0.170	0.000	0.000	0.130	0.500	0.360
HIGH	0.090	0.310	0.060	10.425	0.820	0.040	0.315	0.250	3.81	0.195	0.000	0.000	0.130	0.630	0.440

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- I9 LIVER

LENGTH	NUM	1	MEAN	0.710	S. D.	0.000	LOW	0.710	HIGH	0.710					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.130	0.140	3.400	1.900	0.040	0.160	2.060	18.00	0.230	0.130	0.750	0.750	0.630	0.190
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.130	0.140	3.400	1.900	0.040	0.160	2.060	18.00	0.230	0.130	0.750	0.750	0.630	0.190

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- J5 WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.030	0.325	0.000	29.800	1.180	0.000	0.045	0.610	2.50	0.250	0.000	0.000	0.430	0.000	0.390
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.030	0.325	0.000	29.800	1.180	0.000	0.045	0.610	2.50	0.250	0.000	0.000	0.430	0.000	0.390

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM	10	MEAN	0.637	S. D.	0.042	LOW	0.550	HIGH	0.680					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0003	0000	0000	0000	0000	0009	0007	0000	0001	0000
MEAN	0.133	0.370	0.054	8.508	0.603	0.026	0.076	0.197	3.45	0.215	0.060	0.187	0.220	0.595	0.417
S. D.	0.083	0.087	0.014	3.945	0.197	0.010	0.029	0.054	0.64	0.054	0.000	0.125	0.131	0.261	0.073
LOW	0.030	0.250	0.040	3.912	0.330	0.010	0.060	0.120	2.59	0.125	0.000	0.060	0.095	0.370	0.340
HIGH	0.300	0.500	0.075	16.550	0.900	0.040	0.130	0.280	4.56	0.310	0.060	0.310	0.510	1.060	0.560

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J5 — LIVER

LENGTH	NUM	8	MEAN	0.655	S. D.	0.020	LOW	0.630	HIGH	0.680					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0007	0006	0003	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0008	0000	0000	0000	0000	0001	0002	0000	0000	0000	0003	0001	0000	0001	0000
MEAN	0.000	0.401	0.354	28.744	1.549	0.057	0.067	4.515	14.15	0.544	0.112	2.066	1.716	0.404	0.281
S. D.	0.000	0.177	0.082	19.647	0.742	0.041	0.010	1.870	4.00	0.190	0.054	1.618	1.490	0.121	0.087
LOW	0.000	0.130	0.230	5.750	0.885	0.010	0.060	3.130	6.94	0.310	0.060	0.470	0.360	0.250	0.190
HIGH	0.000	0.630	0.450	48.000	2.350	0.130	0.080	8.380	20.40	0.810	0.190	4.440	5.040	0.630	0.440

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J6 — MUSCLE

LENGTH	NUM	6	MEAN	0.476	S. D.	0.032	LOW	0.433	HIGH	0.530					
WEIGHT	NUM	6	MEAN	1.189	S. D.	0.275	LOW	0.813	HIGH	1.644					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	0.037	0.469	0.077	5.174	0.485	0.048	0.232	0.183	3.63	0.224	0.268	0.150	0.218	0.924	0.553
S. D.	0.016	0.101	0.023	3.441	0.118	0.028	0.135	0.063	0.65	0.035	0.143	0.096	0.078	0.361	0.107
LOW	0.020	0.315	0.055	2.685	0.403	0.020	0.076	0.070	3.00	0.185	0.120	0.060	0.110	0.690	0.425
HIGH	0.055	0.610	0.120	10.900	0.675	0.095	0.480	0.240	4.59	0.265	0.500	0.280	0.325	1.555	0.720

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J6 — LIVER

LENGTH	NUM	1	MEAN	0.465	S. D.	0.000	LOW	0.465	HIGH	0.465					
WEIGHT	NUM	1	MEAN	1.095	S. D.	0.000	LOW	1.095	HIGH	1.095					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.000	0.800	0.140	9.200	1.590	0.070	0.200	6.360	9.71	0.110	0.300	0.000	0.750	0.000	0.270
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.800	0.140	9.200	1.590	0.070	0.200	6.360	9.71	0.110	0.300	0.000	0.750	0.000	0.270

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J8 — MUSCLE

LENGTH	NUM	25	MEAN	0.631	S. D.	0.122	LOW	0.332	HIGH	0.860					
WEIGHT	NUM	16	MEAN	2.294	S. D.	1.110	LOW	0.737	HIGH	5.046					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0026	0026	0026	0025	0026	0026	0026	0026	0026	0026	0026	0026	0026	0026	0025
N DET.	0002	0000	0001	0000	0000	0004	0002	0000	0000	0000	0017	0019	0000	0000	0000
MEAN	0.098	0.393	0.057	6.006	0.365	0.032	0.109	0.239	3.17	0.230	0.212	0.429	0.171	0.686	0.485
S. D.	0.057	0.296	0.018	3.288	0.182	0.015	0.045	0.102	0.76	0.179	0.127	0.253	0.088	0.352	0.218
LOW	0.040	0.100	0.025	1.975	0.080	0.010	0.030	0.090	1.31	0.060	0.060	0.075	0.060	0.130	0.060
HIGH	0.250	1.500	0.100	15.740	0.775	0.075	0.190	0.510	4.56	0.860	0.500	0.780	0.500	1.500	1.000

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J8 — LIVER

LENGTH	NUM	3	MEAN	0.728	S. D.	0.128	LOW	0.605	HIGH	0.860					
WEIGHT	NUM	1	MEAN	2.826	S. D.	0.000	LOW	2.826	HIGH	2.826					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001
MEAN	0.000	0.273	0.177	7.803	1.162	0.070	0.210	3.082	8.26	0.282	0.440	0.337	0.430	0.515	0.290
S. D.	0.000	0.095	0.172	5.283	0.175	0.062	0.095	1.913	4.87	0.083	0.165	0.111	0.256	0.332	0.163
LOW	0.000	0.165	0.040	4.580	0.980	0.020	0.130	1.145	3.14	0.195	0.250	0.220	0.265	0.280	0.175
HIGH	0.000	0.345	0.370	13.900	1.330	0.140	0.315	4.970	12.84	0.360	0.540	0.440	0.725	0.750	0.405

HADDOCK — MELANOGRAMMUS AEGLEFINUS — 033011 — AREA- NORTH ATLANTIC — SITE- J9 — MUSCLE

LENGTH	NUM	3	MEAN	0.551	S. D.	0.285	LOW	0.223	HIGH	0.740					
WEIGHT	NUM	1	MEAN	0.126	S. D.	0.000	LOW	0.126	HIGH	0.126					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0002	0003	0003	0003	0003	0009	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.102	0.580	0.123	4.900	0.481	0.033	0.187	0.289	3.85	0.240	0.000	0.000	0.133	0.705	0.471
S. D.	0.059	0.071	0.075	3.305	0.201	0.006	0.077	0.049	1.15	0.118	0.000	0.000	0.051	0.095	0.077
LOW	0.066	0.530	0.050	2.700	0.350	0.030	0.100	0.233	3.10	0.140	0.000	0.000	0.090	0.625	0.420
HIGH	0.170	0.630	0.200	8.700	0.713	0.040	0.245	0.325	5.18	0.370	0.000	0.000	0.190	0.810	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

HADDOCK MELANOGRAMMUS-AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- J9 LIVER

LENGTH	NUM	2	MEAN	0.470	S. D.	0.349	LOW	0.223	HIGH	0.717					
WEIGHT	NUM	1	MEAN	0.126	S. D.	0.000	LOW	0.126	HIGH	0.126					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.595	0.370	18.025	1.700	0.040	0.090	4.840	14.10	0.405	0.235	0.340	0.875	0.785	0.840
S. D.	0.000	0.304	0.071	3.712	0.141	0.014	0.085	2.164	0.05	0.049	0.106	0.000	0.177	0.219	0.000
LOW	0.000	0.380	0.320	15.400	1.600	0.030	0.030	3.310	14.06	0.370	0.160	0.000	0.750	0.630	0.000
HIGH	0.000	0.810	0.420	20.650	1.800	0.050	0.150	6.370	14.13	0.440	0.310	0.340	1.000	0.940	0.840

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- K3 MUSCLE

LENGTH	NUM	2	MEAN	0.450	S. D.	0.045	LOW	0.418	HIGH	0.482					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.038	0.288	0.075	2.940	0.623	0.035	0.123	0.360	4.83	0.270	0.000	0.190	0.185	1.105	0.468
S. D.	0.018	0.032	0.007	2.744	0.145	0.007	0.088	0.113	2.50	0.014	0.000	0.000	0.064	0.318	0.230
LOW	0.025	0.265	0.070	1.000	0.520	0.030	0.060	0.280	3.06	0.260	0.000	0.000	0.140	0.880	0.305
HIGH	0.050	0.310	0.080	4.880	0.725	0.040	0.185	0.440	6.60	0.280	0.000	0.190	0.230	1.330	0.630

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- K4 MUSCLE

LENGTH	NUM	5	MEAN	0.298	S. D.	0.081	LOW	0.242	HIGH	0.440					
WEIGHT	NUM	5	MEAN	0.310	S. D.	0.261	LOW	0.154	HIGH	0.772					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0003	0000	0000	0000
MEAN	0.065	0.425	0.058	5.736	0.738	0.032	0.091	0.281	3.83	0.269	0.000	0.160	0.261	0.486	0.489
S. D.	0.051	0.100	0.022	1.786	0.225	0.011	0.051	0.068	0.50	0.084	0.000	0.042	0.061	0.260	0.191
LOW	0.020	0.310	0.030	3.850	0.430	0.020	0.045	0.190	3.16	0.155	0.000	0.130	0.180	0.130	0.340
HIGH	0.130	0.560	0.090	7.700	1.050	0.040	0.160	0.360	4.30	0.380	0.000	0.190	0.340	0.860	0.810

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- K7 MUSCLE

LENGTH	NUM	1	MEAN	0.610	S. D.	0.000	LOW	0.610	HIGH	0.610					
WEIGHT	NUM	1	MEAN	2.552	S. D.	0.000	LOW	2.552	HIGH	2.552					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.210	0.176	0.000	33.750	0.475	0.000	0.136	0.500	3.82	1.155	0.000	0.200	0.320	0.910	0.460
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.210	0.176	0.000	33.750	0.475	0.000	0.136	0.500	3.82	1.155	0.000	0.200	0.320	0.910	0.460

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- K7 LIVER

LENGTH	NUM	1	MEAN	0.445	S. D.	0.000	LOW	0.445	HIGH	0.445					
WEIGHT	NUM	1	MEAN	2.009	S. D.	0.000	LOW	2.009	HIGH	2.009					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.000	0.166	0.210	25.666	2.240	0.125	0.240	4.730	18.15	0.410	0.345	2.065	0.835	0.000	0.240
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.166	0.210	25.666	2.240	0.125	0.240	4.730	18.15	0.410	0.345	2.065	0.835	0.000	0.240

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- O3 MUSCLE

LENGTH	NUM	9	MEAN	0.621	S. D.	0.139	LOW	0.440	HIGH	0.780					
WEIGHT	NUM	5	MEAN	1.815	S. D.	1.224	LOW	0.883	HIGH	3.345					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0006	0000	0000	0000
MEAN	0.105	0.316	0.051	6.210	0.516	0.035	0.251	0.256	3.46	0.236	0.123	0.273	0.187	0.601	0.604
S. D.	0.056	0.083	0.008	1.951	0.267	0.014	0.230	0.107	0.81	0.086	0.085	0.311	0.086	0.185	0.177
LOW	0.020	0.190	0.040	3.745	0.250	0.020	0.060	0.180	2.31	0.145	0.060	0.060	0.090	0.310	0.345
HIGH	0.185	0.470	0.065	9.500	0.980	0.060	0.750	0.530	5.09	0.440	0.220	0.630	0.370	0.880	0.970

HADDOCK MELANOGRAMMUS AEGLEFINUS 033011 AREA- NORTH ATLANTIC SITE- O3 LIVER

LENGTH	NUM	2	MEAN	0.743	S. D.	0.032	LOW	0.720	HIGH	0.765					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.030	0.578	0.160	28.504	2.365	0.160	0.060	3.528	13.79	0.370	0.250	0.875	0.928	0.470	0.305
S. D.	0.000	0.194	0.099	22.374	1.407	0.000	0.000	0.576	5.36	0.184	0.000	0.969	0.187	0.396	0.021
LOW	0.000	0.440	0.090	12.683	1.370	0.000	0.060	3.120	10.00	0.240	0.000	0.190	0.795	0.190	0.290
HIGH	0.030	0.715	0.230	44.325	3.360	0.160	0.060	3.935	17.58	0.500	0.250	1.560	1.060	0.750	0.320

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- I2 MUSCLE

LENGTH	NUM	2	MEAN	0.232	S. D.	0.014	LOW	0.222	HIGH	0.242					
WEIGHT	NUM	2	MEAN	0.117	S. D.	0.031	LOW	0.095	HIGH	0.139					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.473	0.053	5.262	0.558	0.030	0.065	0.488	3.10	0.273	0.310	0.130	0.193	0.673	0.593
S. D.	0.000	0.484	0.018	0.318	0.081	0.000	0.007	0.286	0.22	0.074	0.000	0.000	0.060	0.067	0.308
LOW	0.000	0.130	0.040	5.037	0.500	0.030	0.060	0.285	2.94	0.220	0.000	0.000	0.150	0.625	0.375
HIGH	0.000	0.815	0.065	5.487	0.615	0.030	0.070	0.690	3.25	0.325	0.310	0.130	0.235	0.720	0.810

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- J1 MUSCLE

LENGTH	NUM	2	MEAN	0.201	S. D.	0.081	LOW	0.144	HIGH	0.258					
WEIGHT	NUM	2	MEAN	0.061	S. D.	0.062	LOW	0.017	HIGH	0.105					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.020	0.595	0.073	7.247	0.573	0.073	0.410	0.185	5.25	0.403	0.253	0.405	0.833	1.000	0.920
S. D.	0.000	0.403	0.046	0.066	0.004	0.060	0.396	0.177	2.74	0.173	0.088	0.000	0.767	0.438	0.594
LOW	0.000	0.310	0.040	7.200	0.570	0.030	0.130	0.060	3.31	0.280	0.190	0.000	0.290	0.690	0.500
HIGH	0.020	0.880	0.105	7.293	0.575	0.115	0.690	0.310	7.19	0.525	0.315	0.405	1.375	1.310	1.340

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- K3 MUSCLE

LENGTH	NUM	5	MEAN	0.583	S. D.	0.041	LOW	0.530	HIGH	0.630					
WEIGHT	NUM	5	MEAN	1.565	S. D.	0.373	LOW	1.077	HIGH	1.871					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0001	0001	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0001	0000
MEAN	0.067	0.479	0.055	7.423	0.631	0.033	0.302	0.268	3.53	0.351	0.130	0.060	0.102	0.728	0.574
S. D.	0.019	0.125	0.019	1.779	0.128	0.010	0.247	0.140	0.43	0.077	0.000	0.000	0.034	0.471	0.391
LOW	0.040	0.332	0.040	5.000	0.470	0.020	0.140	0.145	2.88	0.240	0.000	0.000	0.055	0.300	0.250
HIGH	0.085	0.635	0.080	9.070	0.780	0.040	0.740	0.435	3.87	0.455	0.130	0.060	0.140	1.250	1.250

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- K3 LIVER

LENGTH	NUM	2	MEAN	0.620	S. D.	0.014	LOW	0.610	HIGH	0.630					
WEIGHT	NUM	2	MEAN	1.843	S. D.	0.040	LOW	1.814	HIGH	1.871					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0001	0001	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.000	0.220	0.085	6.150	0.915	0.020	0.060	4.425	78.13	0.165	0.250	0.000	1.265	0.530	0.380
S. D.	0.000	0.042	0.035	5.233	0.092	0.000	0.000	0.955	15.46	0.007	0.085	0.000	0.021	0.311	0.000
LOW	0.000	0.190	0.060	2.450	0.850	0.000	0.000	3.750	67.19	0.160	0.190	0.000	1.250	0.310	0.380
HIGH	0.000	0.250	0.110	9.850	0.980	0.020	0.060	5.100	89.06	0.170	0.310	0.000	1.280	0.750	0.380

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- K7 MUSCLE

LENGTH	NUM	16	MEAN	0.260	S. D.	0.02.	LOW	0.222	HIGH	0.309					
WEIGHT	NUM	15	MEAN	0.126	S. D.	0.024	LOW	0.091	HIGH	0.178					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0015	0014	0016	0015	0016	0015	0016	0016	0016	0016	0015	0016	0016	0016
N DET.	0007	0000	0000	0000	0000	0000	0001	0000	0000	0000	0011	0007	0000	0000	0000
MEAN	0.036	0.416	0.055	4.604	0.551	0.041	0.159	0.358	3.63	0.251	0.136	0.166	0.189	0.691	0.542
S. D.	0.018	0.145	0.016	1.515	0.290	0.019	0.063	0.263	1.49	0.106	0.112	0.130	0.114	0.184	0.167
LOW	0.020	0.250	0.030	2.550	0.100	0.010	0.060	0.110	0.12	0.090	0.060	0.040	0.020	0.440	0.295
HIGH	0.065	0.715	0.085	7.783	1.210	0.080	0.310	1.250	5.81	0.580	0.310	0.440	0.420	1.060	0.880

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	5	MEAN	0.314	S. D.	0.031	LOW	0.286	HIGH	0.363					
WEIGHT	NUM	5	MEAN	0.222	S. D.	0.077	LOW	0.154	HIGH	0.347					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0004
N DET.	0002	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.120	0.376	0.075	9.186	0.451	0.030	0.187	0.223	3.59	0.165	0.135	0.280	0.208	0.567	0.506
S. D.	0.139	0.136	0.028	3.302	0.094	0.007	0.249	0.067	0.26	0.067	0.000	0.000	0.080	0.101	0.105
LOW	0.030	0.220	0.060	6.163	0.350	0.025	0.060	0.120	3.31	0.080	0.000	0.000	0.150	0.440	0.325
HIGH	0.280	0.520	0.125	14.500	0.600	0.040	0.630	0.290	3.99	0.235	0.135	0.280	0.340	0.690	0.660

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- N5 MUSCLE

LENGTH	NUM	18	MEAN	0.321	S. D.	0.043	LOW	0.229	HIGH	0.430					
WEIGHT	NUM	18	MEAN	0.309	S. D.	0.155	LOW	0.190	HIGH	0.848					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0014	0013	0000	0000	0000
MEAN	0.037	0.500	0.058	6.281	0.449	0.033	0.141	0.280	4.49	0.199	0.103	0.250	0.149	0.660	0.552
S. D.	0.018	0.293	0.018	1.963	0.147	0.013	0.063	0.093	1.02	0.047	0.075	0.107	0.057	0.220	0.173
LOW	0.020	0.215	0.030	1.800	0.250	0.010	0.060	0.130	3.25	0.100	0.060	0.130	0.080	0.130	0.345
HIGH	0.080	1.155	0.100	8.933	0.700	0.060	0.260	0.445	6.63	0.280	0.190	0.340	0.335	0.970	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- N5 LIVER

LENGTH	NUM	1	MEAN	0.430	S. D.	0.000	LOW	0.430	HIGH	0.430					
WEIGHT	NUM	1	MEAN	0.190	S. D.	0.000	LOW	0.190	HIGH	0.190					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	1.060	0.140	5.450	1.100	0.030	0.060	4.380	43.13	0.190	0.190	0.000	1.120	0.310	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.060	0.140	5.450	1.100	0.030	0.060	4.380	43.13	0.190	0.190	0.000	1.120	0.310	0.380

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- O1 MUSCLE

LENGTH	NUM	4	MEAN	0.295	S. D.	0.086	LOW	0.228	HIGH	0.412					
WEIGHT	NUM	4	MEAN	0.274	S. D.	0.254	LOW	0.092	HIGH	0.640					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	0.052	0.444	0.047	4.461	0.665	0.040	0.178	0.406	4.01	0.254	0.123	0.620	0.323	0.966	0.459
S. D.	0.020	0.105	0.015	1.566	0.488	0.005	0.082	0.146	0.69	0.046	0.118	0.000	0.131	0.111	0.136
LOW	0.040	0.330	0.030	3.020	0.260	0.035	0.095	0.240	3.25	0.200	0.050	0.000	0.200	0.830	0.350
HIGH	0.075	0.535	0.060	6.500	1.360	0.045	0.250	0.595	4.83	0.305	0.260	0.620	0.490	1.095	0.630

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- O2 MUSCLE

LENGTH	NUM	10	MEAN	0.350	S. D.	0.043	LOW	0.309	HIGH	0.442					
WEIGHT	NUM	10	MEAN	0.316	S. D.	0.142	LOW	0.201	HIGH	0.662					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0001	0002	0000	0000	0000	0001	0007	0007	0001	0001	0001
MEAN	0.065	0.350	0.052	5.272	0.495	0.031	0.137	0.290	2.67	0.178	0.188	0.127	0.159	0.565	0.510
S. D.	0.073	0.146	0.018	1.795	0.195	0.019	0.092	0.152	1.14	0.036	0.003	0.065	0.061	0.230	0.172
LOW	0.020	0.060	0.010	3.300	0.270	0.010	0.040	0.040	0.06	0.130	0.185	0.060	0.085	0.060	0.240
HIGH	0.240	0.560	0.075	8.533	0.850	0.065	0.295	0.535	4.62	0.250	0.190	0.190	0.255	0.810	0.750

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- O3 MUSCLE

LENGTH	NUM	10	MEAN	0.267	S. D.	0.018	LOW	0.250	HIGH	0.312					
WEIGHT	NUM	10	MEAN	0.136	S. D.	0.033	LOW	0.104	HIGH	0.217					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.046	0.440	0.116	6.885	0.497	0.043	0.130	0.322	3.83	0.220	0.170	0.290	0.197	0.694	0.478
S. D.	0.030	0.194	0.182	1.744	0.181	0.019	0.041	0.131	0.97	0.071	0.129	0.180	0.046	0.271	0.188
LOW	0.020	0.130	0.035	3.750	0.195	0.025	0.070	0.130	1.88	0.090	0.060	0.090	0.090	0.280	0.190
HIGH	0.115	0.750	0.630	9.545	0.720	0.085	0.220	0.530	5.69	0.320	0.310	0.440	0.255	1.285	0.815

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- O4 MUSCLE

LENGTH	NUM	1	MEAN	0.370	S. D.	0.000	LOW	0.370	HIGH	0.370					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.130	1.125	0.055	6.150	0.806	0.000	0.590	0.250	3.79	0.215	0.120	0.300	0.175	0.815	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.130	1.125	0.055	6.150	0.806	0.000	0.590	0.250	3.79	0.215	0.120	0.300	0.175	0.815	0.750

HAKE, SILVER (WHITING) MERLUCCIUS BILINEARIS 033012 AREA- NORTH ATLANTIC SITE- P1 MUSCLE

LENGTH	NUM	11	MEAN	0.277	S. D.	0.011	LOW	0.256	HIGH	0.290					
WEIGHT	NUM	11	MEAN	0.123	S. D.	0.014	LOW	0.106	HIGH	0.144					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0007	0000	0000	0000
MEAN	0.025	0.436	0.056	6.185	0.534	0.038	0.199	0.298	3.84	0.224	0.175	0.220	0.173	0.669	0.528
S. D.	0.010	0.115	0.022	1.659	0.137	0.013	0.155	0.085	0.66	0.079	0.021	0.159	0.048	0.172	0.158
LOW	0.020	0.310	0.020	3.250	0.350	0.020	0.060	0.110	2.94	0.110	0.160	0.060	0.090	0.380	0.310
HIGH	0.040	0.690	0.110	9.075	0.770	0.060	0.620	0.430	5.05	0.400	0.190	0.440	0.245	0.845	0.750

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- CALIFORNIA SITE- F4 MUSCLE

LENGTH	NUM	6	MEAN	0.547	S. D.	0.045	LOW	0.490	HIGH	0.590					
WEIGHT	NUM	6	MEAN	0.780	S. D.	0.163	LOW	0.500	HIGH	1.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.121	0.632	0.063	1.758	0.491	0.033	0.191	0.373	3.69	0.170	0.340	0.343	0.224	0.690	0.743
S. D.	0.045	0.127	0.020	0.657	0.044	0.009	0.081	0.081	0.50	0.039	0.000	0.046	0.093	0.159	0.158
LOW	0.060	0.440	0.040	0.850	0.403	0.020	0.080	0.245	3.13	0.140	0.000	0.310	0.110	0.440	0.560
HIGH	0.170	0.785	0.090	2.616	0.525	0.045	0.310	0.460	4.37	0.240	0.340	0.375	0.360	0.880	0.905

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

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LOCATION LEVEL 5

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- CALIFORNIA SITE- F4 LIVER

LENGTH	NUM	1	MEAN	0.547	S. D.	0.000	LOW	0.547	HIGH	0.547					
WEIGHT	NUM	1	MEAN	0.780	S. D.	0.000	LOW	0.780	HIGH	0.780					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.750	0.690	3.550	1.250	0.030	0.060	7.500	25.12	0.150	0.280	0.000	1.180	0.130	0.300
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.750	0.690	3.550	1.250	0.030	0.060	7.500	25.12	0.150	0.280	0.000	1.180	0.130	0.300

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- PACIFIC NORTHWEST SITE- G9 MUSCLE

LENGTH	NUM	8	MEAN	0.553	S. D.	0.040	LOW	0.505	HIGH	0.600					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0001	0002	0000	0000	0005	0002	0000	0000	0001	0008	0008	0001	0005	0000
MEAN	0.142	0.471	0.061	3.742	0.485	0.043	0.200	0.289	4.74	0.195	0.000	0.000	0.121	0.660	0.436
S. D.	0.051	0.165	0.033	1.715	0.138	0.012	0.090	0.073	1.76	0.113	0.000	0.000	0.026	0.160	0.098
LOW	0.050	0.270	0.030	1.985	0.303	0.030	0.095	0.210	2.86	0.040	0.000	0.000	0.070	0.480	0.300
HIGH	0.230	0.710	0.110	6.750	0.680	0.050	0.340	0.390	8.03	0.400	0.000	0.000	0.140	0.785	0.600

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- PACIFIC NORTHWEST SITE- H7 MUSCLE

LENGTH	NUM	2	MEAN	0.600	S. D.	0.000	LOW	0.600	HIGH	0.600					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0001	0002	0002	0000	0000	0000
MEAN	0.140	0.240	0.040	1.641	0.370	0.020	0.138	0.240	3.24	0.230	0.000	0.000	0.130	0.968	0.290
S. D.	0.028	0.014	0.000	0.536	0.240	0.000	0.053	0.212	1.45	0.000	0.000	0.000	0.014	1.149	0.000
LOW	0.120	0.230	0.000	1.262	0.200	0.000	0.100	0.090	2.21	0.000	0.000	0.000	0.120	0.155	0.000
HIGH	0.160	0.250	0.040	2.020	0.540	0.020	0.175	0.390	4.26	0.230	0.000	0.000	0.140	1.780	0.290

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- PACIFIC NORTHWEST SITE- I7 MUSCLE

LENGTH	NUM	9	MEAN	0.408	S. D.	0.060	LOW	0.350	HIGH	0.550					
WEIGHT	NUM	8	MEAN	0.357	S. D.	0.045	LOW	0.272	HIGH	0.408					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0001	0000	0003	0000	0000	0004	0002	0000	0000	0002	0006	0005	0000	0002	0000
MEAN	0.059	0.418	0.056	1.693	0.421	0.035	0.274	0.234	3.35	0.168	0.417	0.560	0.242	0.693	0.569
S. D.	0.040	0.173	0.021	0.786	0.472	0.005	0.177	0.060	0.67	0.056	0.432	0.562	0.108	0.226	0.166
LOW	0.020	0.200	0.030	0.540	0.175	0.030	0.100	0.180	2.50	0.100	0.010	0.120	0.105	0.400	0.350
HIGH	0.140	0.750	0.075	3.040	1.580	0.040	0.630	0.360	4.64	0.250	0.870	1.380	0.460	0.940	0.870

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- PACIFIC NORTHWEST SITE- M2 MUSCLE

LENGTH	NUM	10	MEAN	0.580	S. D.	0.000	LOW	0.580	HIGH	0.580					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0009
N DET.	0000	0000	0003	0000	0000	0004	0001	0000	0000	0002	0007	0008	0000	0002	0000
MEAN	0.090	0.595	0.110	2.473	0.417	0.048	0.174	0.350	4.46	0.422	0.235	0.380	0.353	0.600	0.642
S. D.	0.030	0.284	0.056	0.857	0.145	0.022	0.125	0.100	2.12	0.170	0.163	0.000	0.172	0.221	0.314
LOW	0.050	0.255	0.055	0.960	0.160	0.020	0.040	0.250	2.79	0.185	0.120	0.000	0.110	0.245	0.310
HIGH	0.130	1.165	0.180	3.710	0.650	0.075	0.405	0.535	8.93	0.715	0.350	0.380	0.640	0.950	1.165

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- PACIFIC NORTHWEST SITE- N1 MUSCLE

LENGTH	NUM	4	MEAN	0.482	S. D.	0.078	LOW	0.425	HIGH	0.590					
WEIGHT	NUM	1	MEAN	1.134	S. D.	0.000	LOW	1.134	HIGH	1.134					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.170	0.626	0.083	2.853	1.076	0.017	0.154	0.215	3.80	0.216	0.125	0.345	0.221	0.678	0.513
S. D.	0.023	0.361	0.068	2.507	0.976	0.012	0.091	0.041	0.33	0.112	0.163	0.403	0.064	0.274	0.160
LOW	0.150	0.335	0.030	0.500	0.210	0.010	0.060	0.166	3.60	0.093	0.010	0.060	0.170	0.305	0.295
HIGH	0.190	1.120	0.160	6.360	2.400	0.030	0.275	0.260	4.18	0.360	0.240	0.630	0.310	0.940	0.665

HAKE, PAC. MERLUCCIUS PRODUCTUS 033013 AREA- PACIFIC NORTHWEST SITE- R2 MUSCLE

LENGTH	NUM	10	MEAN	0.535	S. D.	0.000	LOW	0.535	HIGH	0.535					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010
N DET.	0000	0000	0001	0000	0000	0006	0000	0000	0000	0000	0010	0009	0000	0004	0000
MEAN	0.098	0.529	0.086	1.941	0.544	0.045	0.201	0.230	3.85	0.305	0.000	0.000	0.263	0.701	0.648
S. D.	0.034	0.379	0.034	0.819	0.208	0.021	0.099	0.093	0.90	0.135	0.000	0.000	0.135	0.326	0.268
LOW	0.060	0.115	0.040	0.830	0.275	0.020	0.070	0.110	2.39	0.090	0.000	0.000	0.110	0.340	0.300
HIGH	0.155	1.450	0.140	3.025	0.960	0.070	0.380	0.410	5.17	0.500	0.000	0.000	0.510	1.040	1.105

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- I6 — MUSCLE

LENGTH	NUM	7	MEAN	0.791	S. D.	0.079	LOW	0.700	HIGH	0.900					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0004	0000	0000	0000
MEAN	0.174	0.466	0.056	6.921	0.525	0.032	0.137	0.332	3.71	0.191	0.125	0.240	0.147	0.700	0.698
S. D.	0.087	0.216	0.015	4.038	0.077	0.010	0.067	0.109	1.37	0.058	0.000	0.180	0.063	0.244	0.212
LOW	0.070	0.310	0.030	1.250	0.400	0.020	0.060	0.120	1.12	0.080	0.000	0.090	0.050	0.430	0.540
HIGH	0.320	0.930	0.080	13.687	0.620	0.050	0.230	0.460	5.12	0.250	0.125	0.440	0.220	1.060	1.095

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- I6 — LIVER

LENGTH	NUM	7	MEAN	0.791	S. D.	0.079	LOW	0.700	HIGH	0.900					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0006	0005	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0005	0000	0000	0000	0000	0005	0002	0000	0000	0000	0000	0004	0000	0001	0002
MEAN	0.055	0.348	0.301	6.540	0.950	0.010	0.138	3.525	13.63	0.159	0.140	0.113	0.659	0.383	0.308
S. D.	0.021	0.248	0.254	3.383	0.368	0.000	0.083	2.344	4.56	0.066	0.066	0.068	0.137	0.143	0.154
LOW	0.040	0.125	0.070	1.800	0.700	0.010	0.060	0.560	8.00	0.060	0.060	0.060	0.500	0.190	0.100
HIGH	0.070	0.810	0.840	10.550	1.590	0.010	0.250	7.500	20.63	0.230	0.250	0.190	0.890	0.620	0.470

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- I9 — MUSCLE

LENGTH	NUM	1	MEAN	0.820	S. D.	0.000	LOW	0.820	HIGH	0.820					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.190	0.660	0.065	3.975	0.520	0.040	0.135	0.395	5.01	0.175	0.000	0.060	0.225	0.875	0.720
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.190	0.660	0.065	3.975	0.520	0.040	0.135	0.395	5.01	0.175	0.000	0.060	0.225	0.875	0.720

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	5	MEAN	0.782	S. D.	0.132	LOW	0.620	HIGH	0.970					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.369	0.425	0.067	3.278	0.499	0.043	0.144	0.405	3.76	0.226	0.130	0.380	0.120	0.539	0.462
S. D.	0.257	0.111	0.022	1.556	0.168	0.026	0.027	0.162	0.52	0.056	0.000	0.000	0.012	0.084	0.153
LOW	0.095	0.310	0.050	1.275	0.300	0.020	0.120	0.250	3.26	0.175	0.000	0.000	0.110	0.440	0.220
HIGH	0.680	0.560	0.105	4.800	0.730	0.080	0.190	0.640	4.44	0.315	0.130	0.380	0.140	0.630	0.630

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J4 — LIVER

LENGTH	NUM	3	MEAN	0.863	S. D.	0.092	LOW	0.810	HIGH	0.970					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	0.070	0.293	0.450	7.629	0.687	0.043	0.060	4.190	13.64	0.117	0.160	0.000	0.397	0.373	0.253
S. D.	0.000	0.156	0.399	4.215	0.371	0.015	0.000	0.190	0.90	0.040	0.042	0.000	0.150	0.164	0.060
LOW	0.000	0.130	0.190	2.850	0.300	0.030	0.060	4.000	12.63	0.070	0.130	0.000	0.240	0.250	0.190
HIGH	0.070	0.440	0.910	10.816	1.040	0.060	0.060	4.380	14.38	0.140	0.190	0.000	0.540	0.560	0.310

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM	20	MEAN	0.435	S. D.	0.163	LOW	0.260	HIGH	0.750					
WEIGHT	NUM	18	MEAN	1.032	S. D.	0.970	LOW	0.171	HIGH	3.232					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0001	0000	0003	0000	0000	0006	0000	0000	0000	0000	0014	0013	0000	0003	0000
MEAN	0.100	0.599	0.056	3.879	0.546	0.039	0.211	0.538	4.93	0.225	0.175	0.404	0.130	0.702	0.432
S. D.	0.124	0.398	0.023	3.578	0.223	0.019	0.180	0.216	1.39	0.152	0.146	0.240	0.045	0.221	0.159
LOW	0.020	0.190	0.010	1.000	0.280	0.010	0.060	0.130	1.50	0.075	0.060	0.080	0.040	0.250	0.060
HIGH	0.490	1.750	0.120	17.100	1.050	0.090	0.630	0.950	6.78	0.635	0.440	0.780	0.245	1.036	0.705

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J5 — LIVER

LENGTH	NUM	15	MEAN	0.652	S. D.	0.089	LOW	0.490	HIGH	0.750					
WEIGHT	NUM	6	MEAN	1.895	S. D.	0.540	LOW	1.247	HIGH	2.778					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0013	0011	0015	0015	0014	0014	0013	0015	0015	0015	0015	0015
N DET.	0008	0002	0000	0000	0000	0009	0002	0000	0000	0003	0007	0012	0000	0009	0000
MEAN	0.053	0.212	0.188	8.575	1.147	0.023	0.180	5.390	20.23	0.247	0.214	0.333	0.615	0.375	0.316
S. D.	0.050	0.166	0.141	5.916	0.304	0.015	0.192	2.684	12.85	0.134	0.072	0.122	0.448	0.298	0.147
LOW	0.020	0.060	0.060	1.700	0.700	0.010	0.020	2.500	8.81	0.060	0.100	0.200	0.100	0.120	0.130
HIGH	0.150	0.610	0.540	19.000	1.630	0.040	0.750	10.370	56.07	0.470	0.310	0.440	1.960	0.940	0.620

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	1	MEAN	0.900	S. D.	0.000	LOW	0.900	HIGH	0.900					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.280	0.250	0.040	1.915	0.550	0.030	0.060	0.260	3.69	0.250	0.000	0.000	0.050	0.440	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.280	0.250	0.040	1.915	0.550	0.030	0.060	0.260	3.69	0.250	0.000	0.000	0.050	0.440	0.630

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J7 — LIVER

LENGTH	NUM	1	MEAN	0.900	S. D.	0.000	LOW	0.900	HIGH	0.900					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.285	0.170	7.431	0.455	0.010	0.660	4.535	9.84	0.140	0.190	0.310	0.475	0.285	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.285	0.170	7.431	0.455	0.010	0.660	4.535	9.84	0.140	0.190	0.310	0.475	0.285	0.310

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J8 — MUSCLE

LENGTH	NUM	11	MEAN	0.856	S. D.	0.088	LOW	0.720	HIGH	0.980					
WEIGHT	NUM	10	MEAN	6.179	S. D.	1.835	LOW	3.808	HIGH	8.796					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0001	0000	0000	0000	0002	0000	0000	0000	0011	0010	0000	0000	0000
MEAN	0.366	0.450	0.060	2.482	0.447	0.029	0.134	0.473	3.48	0.173	0.000	0.500	0.098	0.668	0.580
S. D.	0.235	0.208	0.013	1.303	0.201	0.013	0.024	0.191	0.96	0.031	0.000	0.000	0.025	0.206	0.145
LOW	0.115	0.250	0.040	0.790	0.190	0.010	0.105	0.190	2.25	0.130	0.000	0.000	0.060	0.310	0.440
HIGH	0.760	0.880	0.090	4.950	0.870	0.055	0.190	0.810	5.12	0.220	0.000	0.500	0.155	1.000	0.870

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J8 — LIVER

LENGTH	NUM	1	MEAN	0.840	S. D.	0.000	LOW	0.840	HIGH	0.840					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.060	0.280	6.600	1.030	0.020	0.290	8.750	22.94	0.000	0.090	0.000	0.630	0.440	0.190
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.060	0.280	6.600	1.030	0.020	0.290	8.750	22.94	0.000	0.090	0.000	0.630	0.440	0.190

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J9 — MUSCLE

LENGTH	NUM	10	MEAN	0.613	S. D.	0.042	LOW	0.560	HIGH	0.680					
WEIGHT	NUM	1	MEAN	1.701	S. D.	0.000	LOW	1.701	HIGH	1.701					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0008	0000	0000	0000
MEAN	0.143	0.457	0.062	2.717	0.488	0.030	0.170	0.445	4.06	0.246	0.110	0.345	0.118	0.670	0.567
S. D.	0.152	0.162	0.038	0.997	0.232	0.012	0.088	0.159	1.40	0.064	0.063	0.134	0.030	0.243	0.148
LOW	0.040	0.310	0.030	1.115	0.230	0.010	0.090	0.160	2.56	0.160	0.060	0.250	0.060	0.380	0.220
HIGH	0.540	0.810	0.165	4.243	0.930	0.050	0.380	0.735	7.36	0.375	0.190	0.440	0.165	1.035	0.750

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- J9 — LIVER

LENGTH	NUM	2	MEAN	0.610	S. D.	0.010	LOW	0.603	HIGH	0.617					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0001	0001	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.500	0.165	6.500	0.680	0.030	0.060	4.375	14.38	0.110	0.240	0.190	0.360	0.375	0.140
S. D.	0.000	0.269	0.064	0.849	0.255	0.000	0.000	0.884	4.42	0.014	0.000	0.000	0.071	0.177	0.113
LOW	0.000	0.310	0.120	5.900	0.500	0.000	0.000	3.750	11.25	0.100	0.000	0.000	0.310	0.250	0.060
HIGH	0.000	0.690	0.210	7.100	0.860	0.030	0.060	5.000	17.50	0.120	0.240	0.190	0.410	0.500	0.220

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- K5 — MUSCLE

LENGTH	NUM	12	MEAN	0.307	S. D.	0.038	LOW	0.258	HIGH	0.384					
WEIGHT	NUM	12	MEAN	0.378	S. D.	0.142	LOW	0.201	HIGH	0.663					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0011
N DET.	0002	0000	0000	0000	0000	0001	0002	0000	0000	0000	0012	0007	0000	0002	0000
MEAN	0.037	0.338	0.057	4.034	0.573	0.029	0.197	0.594	5.93	0.220	0.000	0.377	0.188	0.695	0.509
S. D.	0.015	0.061	0.009	0.912	0.163	0.011	0.071	0.191	1.07	0.051	0.000	0.261	0.048	0.261	0.113
LOW	0.020	0.250	0.040	2.625	0.220	0.010	0.090	0.200	4.62	0.130	0.000	0.130	0.125	0.370	0.330
HIGH	0.060	0.440	0.073	5.487	0.860	0.040	0.315	0.975	7.62	0.285	0.000	0.815	0.280	1.220	0.685

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- K7 — MUSCLE

LENGTH	NUM	4	MEAN	0.588	S. D.	0.074	LOW	0.480	HIGH	0.640					
WEIGHT	NUM	4	MEAN	2.212	S. D.	0.750	LOW	1.134	HIGH	2.722					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	0.109	0.299	0.045	3.664	0.463	0.050	0.127	0.393	3.64	0.411	1.120	0.260	0.113	0.967	0.509
S. D.	0.033	0.140	0.009	1.992	0.116	0.028	0.083	0.026	1.15	0.184	0.000	0.000	0.025	0.394	0.197
LOW	0.060	0.145	0.040	1.900	0.340	0.030	0.070	0.375	2.09	0.280	0.000	0.000	0.080	0.630	0.365
HIGH	0.130	0.485	0.055	5.825	0.570	0.070	0.250	0.430	4.81	0.680	1.120	0.260	0.140	1.400	0.800

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- K7 — LIVER

LENGTH	NUM	2	MEAN	0.552	S. D.	0.101	LOW	0.480	HIGH	0.623					
WEIGHT	NUM	2	MEAN	1.852	S. D.	1.015	LOW	1.134	HIGH	2.570					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0001	0000	0000	0000	0001	0001	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.000	0.125	0.080	5.608	0.723	0.010	0.200	2.073	7.03	0.115	0.180	0.000	0.433	0.418	0.225
S. D.	0.000	0.000	0.042	4.873	0.456	0.000	0.000	1.969	1.99	0.092	0.000	0.000	0.216	0.067	0.035
LOW	0.000	0.000	0.050	2.162	0.400	0.000	0.000	0.680	5.62	0.050	0.000	0.000	0.280	0.370	0.200
HIGH	0.000	0.125	0.110	9.053	1.045	0.010	0.200	3.465	8.43	0.180	0.180	0.000	0.585	0.465	0.250

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- O2 — MUSCLE

LENGTH	NUM	2	MEAN	0.930	S. D.	0.113	LOW	0.850	HIGH	1.010					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.283	0.280	0.080	4.525	0.415	0.020	0.280	0.468	3.35	0.318	0.000	0.000	0.103	0.795	0.303
S. D.	0.131	0.000	0.071	0.672	0.049	0.000	0.311	0.230	0.76	0.173	0.000	0.000	0.018	0.120	0.159
LOW	0.190	0.000	0.030	4.050	0.380	0.020	0.060	0.305	2.81	0.195	0.000	0.000	0.090	0.710	0.190
HIGH	0.375	0.280	0.130	5.000	0.450	0.020	0.500	0.630	3.88	0.440	0.000	0.000	0.115	0.880	0.415

POLLOCK — POLLACHIUS VIRENS — 033017 — AREA- NORTH ATLANTIC — SITE- O2 — LIVER

LENGTH	NUM	2	MEAN	0.930	S. D.	0.113	LOW	0.850	HIGH	1.010					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.298	0.155	3.081	1.120	0.020	0.030	4.303	16.45	0.130	0.120	0.310	0.465	0.435	0.233
S. D.	0.000	0.202	0.035	0.892	0.141	0.000	0.000	3.157	6.21	0.042	0.000	0.000	0.021	0.049	0.025
LOW	0.000	0.155	0.130	2.450	1.020	0.000	0.000	2.070	12.06	0.100	0.000	0.000	0.450	0.400	0.215
HIGH	0.020	0.440	0.180	3.712	1.220	0.020	0.030	6.535	20.84	0.160	0.120	0.310	0.480	0.470	0.250

POLLOCK, WALLEYE (ALASKA) — THERAGRA CHALCOGRAMMA — 033019 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	0.400	S. D.	0.000	LOW	0.400	HIGH	0.400					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.190	1.030	0.000	3.200	0.330	0.000	0.250	0.360	3.61	0.290	0.000	0.000	0.180	1.250	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.190	1.030	0.000	3.200	0.330	0.000	0.250	0.360	3.61	0.290	0.000	0.000	0.180	1.250	0.000

POLLOCK, WALLEYE (ALASKA) — THERAGRA CHALCOGRAMMA — 033019 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	9	MEAN	0.391	S. D.	0.043	LOW	0.345	HIGH	0.495					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009
N DET.	0000	0000	0003	0000	0001	0002	0000	0000	0000	0001	0006	0006	0000	0002	0000
MEAN	0.148	0.466	0.063	3.997	0.453	0.056	0.258	0.274	3.41	0.238	0.185	0.397	0.156	0.694	0.547
S. D.	0.045	0.471	0.027	1.485	0.331	0.016	0.265	0.074	0.91	0.080	0.048	0.075	0.058	0.296	0.245
LOW	0.085	0.150	0.040	1.600	0.080	0.035	0.050	0.140	1.88	0.110	0.130	0.310	0.060	0.340	0.300
HIGH	0.210	1.690	0.110	5.926	1.180	0.080	0.840	0.390	5.00	0.360	0.220	0.440	0.250	1.250	1.060

POLLOCK, WALLEYE (ALASKA) — THERAGRA CHALCOGRAMMA — 033019 — AREA- ALASKA — SITE- L7 — MUSCLE

LENGTH	NUM	5	MEAN	0.475	S. D.	0.000	LOW	0.475	HIGH	0.475					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.116	0.411	0.077	3.175	0.220	0.039	0.098	0.290	3.67	0.244	0.000	0.190	0.092	0.866	0.521
S. D.	0.095	0.187	0.020	1.770	0.069	0.002	0.044	0.071	0.32	0.107	0.000	0.000	0.022	0.300	0.198
LOW	0.040	0.240	0.060	0.925	0.130	0.035	0.040	0.190	3.31	0.080	0.000	0.000	0.060	0.630	0.220
HIGH	0.220	0.720	0.105	4.625	0.310	0.040	0.130	0.380	4.16	0.340	0.000	0.190	0.110	1.250	0.740

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

POLLOCK, WALLEYE (ALASKA) THERAGRA CHALCOGRAMMA 033019 AREA- ALASKA SITE- N6 MUSCLE

LENGTH	NUM	28	MEAN	0.498	S. D.	0.068	LOW	0.408	HIGH	0.665					
WEIGHT	NUM	8	MEAN	0.936	S. D.	0.132	LOW	0.681	HIGH	1.135					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0028	0028	0028	0028	0028	0028	0028	0028	0028	0028	0028	0028	0028	0028	0028
N DET.	0012	0000	0000	0000	0000	0002	0005	0000	0000	0000	0024	0022	0001	0000	0000
MEAN	0.135	0.595	0.077	2.603	0.374	0.029	0.232	0.520	4.58	0.177	0.228	0.317	0.144	0.644	0.787
S. D.	0.225	0.463	0.060	1.174	0.187	0.011	0.195	0.427	1.02	0.069	0.057	0.346	0.049	0.240	0.325
LOW	0.020	0.130	0.010	0.750	0.120	0.010	0.060	0.130	2.00	0.060	0.190	0.060	0.060	0.050	0.220
HIGH	0.950	2.060	0.290	5.375	0.915	0.060	0.810	2.380	6.31	0.310	0.310	1.000	0.250	1.060	1.630

POLLOCK, WALLEYE (ALASKA) THERAGRA CHALCOGRAMMA 033019 AREA- ALASKA SITE- N6 LIVER

LENGTH	NUM	3	MEAN	0.488	S. D.	0.024	LOW	0.461	HIGH	0.507					
WEIGHT	NUM	1	MEAN	0.936	S. D.	0.000	LOW	0.936	HIGH	0.936					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0000	0000	0000
MEAN	0.050	0.417	0.353	5.937	0.803	0.042	0.153	2.670	15.16	0.120	0.240	0.000	0.888	0.562	0.503
S. D.	0.000	0.235	0.183	6.867	0.251	0.028	0.067	1.128	5.11	0.013	0.068	0.000	0.254	0.128	0.110
LOW	0.000	0.250	0.210	1.550	0.520	0.010	0.105	1.370	11.25	0.110	0.175	0.000	0.650	0.435	0.440
HIGH	0.050	0.685	0.560	13.850	1.000	0.060	0.230	3.390	20.94	0.135	0.310	0.000	1.155	0.690	0.630

POLLOCK, WALLEYE (ALASKA) THERAGRA CHALCOGRAMMA 033019 AREA- ALASKA SITE- R1 MUSCLE

LENGTH	NUM	5	MEAN	0.440	S. D.	0.000	LOW	0.440	HIGH	0.440					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0005	0005	0005	0005	0005	0005	0005	0005	0305	0005	0005	0004	0005	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0004	0000	0000	0000
MEAN	0.363	0.488	0.083	1.397	0.343	0.054	0.202	0.347	5.98	0.247	0.140	0.440	0.151	0.695	0.829
S. D.	0.097	0.183	0.010	0.505	0.136	0.020	0.078	0.097	2.02	0.118	0.028	0.000	0.019	0.128	0.284
LOW	0.220	0.375	0.070	0.616	0.170	0.035	0.130	0.200	4.12	0.115	0.120	0.000	0.140	0.560	0.495
HIGH	0.440	0.810	0.090	2.000	0.530	0.080	0.310	0.470	9.10	0.380	0.160	0.440	0.180	0.870	1.190

HAKE, RED UROPHYCIS CHUSS 033020 AREA- NORTH ATLANTIC SITE- I3 MUSCLE

LENGTH	NUM	7	MEAN	0.395	S. D.	0.090	LOW	0.258	HIGH	0.508					
WEIGHT	NUM	7	MEAN	0.565	S. D.	0.385	LOW	0.108	HIGH	1.121					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0006	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0003	0000	0000	0000	0000	0001	0001	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.093	0.376	0.038	10.196	0.550	0.033	0.089	0.205	2.88	0.204	0.190	0.000	0.154	0.607	0.457
S. D.	0.054	0.115	0.024	5.135	0.280	0.010	0.034	0.052	0.43	0.064	0.000	0.000	0.051	0.238	0.111
LOW	0.045	0.190	0.010	2.875	0.180	0.020	0.060	0.130	2.38	0.155	0.000	0.000	0.090	0.250	0.340
HIGH	0.170	0.530	0.065	17.500	0.920	0.050	0.130	0.260	3.69	0.340	0.190	0.000	0.230	0.910	0.630

HAKE, RED UROPHYCIS CHUSS 033020 AREA- NORTH ATLANTIC SITE- I5 MUSCLE

LENGTH	NUM	4	MEAN	0.408	S. D.	0.017	LOW	0.394	HIGH	0.431					
WEIGHT	NUM	4	MEAN	0.519	S. D.	0.101	LOW	0.411	HIGH	0.633					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.063	0.442	0.060	11.166	0.513	0.038	0.112	0.311	3.71	0.184	0.197	0.117	0.140	0.940	0.474
S. D.	0.018	0.339	0.011	5.251	0.359	0.010	0.078	0.081	1.24	0.058	0.142	0.074	0.014	0.227	0.310
LOW	0.040	0.250	0.050	7.575	0.260	0.030	0.020	0.240	2.30	0.120	0.070	0.060	0.130	0.750	0.215
HIGH	0.085	0.950	0.075	18.750	1.043	0.050	0.210	0.420	4.95	0.260	0.350	0.200	0.160	1.200	0.890

HAKE, RED UROPHYCIS CHUSS 033020 AREA- NORTH ATLANTIC SITE- I7 MUSCLE

LENGTH	NUM	11	MEAN	0.377	S. D.	0.011	LOW	0.357	HIGH	0.393					
WEIGHT	NUM	11	MEAN	0.510	S. D.	0.074	LOW	0.409	HIGH	0.645					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0000	0003	0000	0000	0000	0010	0007	0000	0000	0000
MEAN	0.062	0.396	0.056	7.553	0.375	0.045	0.156	0.401	2.75	0.213	0.060	0.435	0.162	0.567	0.519
S. D.	0.029	0.218	0.014	2.497	0.135	0.041	0.065	0.338	0.68	0.109	0.000	0.288	0.040	0.249	0.208
LOW	0.030	0.130	0.040	4.450	0.185	0.010	0.060	0.060	1.65	0.080	0.000	0.060	0.075	0.280	0.220
HIGH	0.110	0.845	0.080	12.765	0.610	0.150	0.250	1.380	3.87	0.500	0.060	0.690	0.230	1.130	0.810

HAKE, RED UROPHYCIS CHUSS 033020 AREA- NORTH ATLANTIC SITE- J1 MUSCLE

LENGTH	NUM	3	MEAN	0.461	S. D.	0.080	LOW	0.394	HIGH	0.550					
WEIGHT	NUM	3	MEAN	0.768	S. D.	0.448	LOW	0.430	HIGH	1.276					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.110	0.373	0.052	23.649	0.458	0.028	0.282	0.242	2.42	0.238	0.000	0.310	0.120	0.487	0.448
S. D.	0.061	0.105	0.019	10.668	0.302	0.013	0.242	0.067	0.31	0.109	0.000	0.000	0.028	0.081	0.013
LOW	0.040	0.310	0.030	12.716	0.250	0.015	0.125	0.165	2.15	0.150	0.000	0.000	0.095	0.440	0.435
HIGH	0.150	0.495	0.065	34.030	0.805	0.040	0.560	0.290	2.75	0.360	0.000	0.310	0.150	0.580	0.460

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	5	MEAN	0.388	S. D.	0.093	LOW	0.310	HIGH	0.510					
WEIGHT	NUM	5	MEAN	0.563	S. D.	0.457	LOW	0.199	HIGH	1.192					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0000	0000	0000	0001	0000	0000	0005	0005	0000	0000	0000
MEAN	0.103	0.472	0.048	13.395	0.451	0.024	0.256	0.185	2.93	0.189	0.000	0.000	0.137	0.535	0.510
S. D.	0.097	0.177	0.010	8.198	0.046	0.011	0.200	0.061	0.41	0.043	0.000	0.000	0.038	0.110	0.164
LOW	0.025	0.375	0.040	2.700	0.390	0.010	0.060	0.125	2.47	0.130	0.000	0.000	0.080	0.390	0.340
HIGH	0.230	0.785	0.065	24.366	0.500	0.040	0.560	0.270	3.50	0.250	0.000	0.000	0.180	0.695	0.750

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- K2 — MUSCLE

LENGTH	NUM	1	MEAN	0.310	S. D.	0.000	LOW	0.310	HIGH	0.310					
WEIGHT	NUM	1	MEAN	0.234	S. D.	0.000	LOW	0.234	HIGH	0.234					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.130	0.060	3.950	0.650	0.010	0.000	0.230	3.00	0.100	0.000	0.000	0.120	0.280	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.130	0.060	3.950	0.650	0.010	0.000	0.230	3.00	0.100	0.000	0.000	0.120	0.280	0.380

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- N4 — MUSCLE

LENGTH	NUM	4	MEAN	0.367	S. D.	0.078	LOW	0.266	HIGH	0.453					
WEIGHT	NUM	4	MEAN	0.483	S. D.	0.310	LOW	0.127	HIGH	0.881					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0004	0000	0000	0000
MEAN	0.136	0.486	0.055	8.336	0.515	0.022	0.143	0.166	3.99	0.125	0.130	0.000	0.200	0.539	0.440
S. D.	0.044	0.133	0.013	2.022	0.075	0.008	0.068	0.050	0.95	0.070	0.000	0.000	0.045	0.177	0.000
LOW	0.100	0.393	0.035	6.270	0.420	0.015	0.060	0.095	3.30	0.050	0.000	0.000	0.150	0.310	0.440
HIGH	0.190	0.680	0.063	11.050	0.600	0.030	0.225	0.210	5.39	0.203	0.130	0.000	0.260	0.716	0.440

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- N6 — MUSCLE

LENGTH	NUM	4	MEAN	0.289	S. D.	0.045	LOW	0.237	HIGH	0.340					
WEIGHT	NUM	4	MEAN	0.150	S. D.	0.073	LOW	0.078	HIGH	0.245					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.087	0.534	0.078	8.528	0.495	0.049	0.323	0.354	3.43	0.241	0.143	0.375	0.254	0.856	0.616
S. D.	0.060	0.152	0.013	2.305	0.117	0.012	0.164	0.045	0.29	0.034	0.144	0.092	0.042	0.302	0.300
LOW	0.030	0.310	0.060	6.297	0.340	0.040	0.175	0.300	3.19	0.205	0.060	0.310	0.200	0.500	0.270
HIGH	0.150	0.630	0.090	11.575	0.620	0.065	0.510	0.405	3.84	0.270	0.310	0.440	0.290	1.190	1.000

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- O1 — MUSCLE

LENGTH	NUM	6	MEAN	0.274	S. D.	0.058	LOW	0.189	HIGH	0.353					
WEIGHT	NUM	6	MEAN	0.162	S. D.	0.091	LOW	0.052	HIGH	0.305					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0002	0000	0000	0000
MEAN	0.055	0.360	0.079	7.452	0.621	0.039	0.393	0.488	4.54	0.299	0.250	0.323	0.166	0.712	0.698
S. D.	0.028	0.255	0.019	3.739	0.477	0.013	0.300	0.227	1.03	0.104	0.000	0.109	0.078	0.259	0.309
LOW	0.020	0.250	0.060	2.900	0.310	0.030	0.060	0.270	3.40	0.200	0.000	0.250	0.100	0.380	0.470
HIGH	0.090	0.880	0.110	14.000	1.560	0.060	0.880	0.810	6.38	0.460	0.250	0.480	0.310	0.970	1.310

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- O3 — MUSCLE

LENGTH	NUM	6	MEAN	0.375	S. D.	0.105	LOW	0.298	HIGH	0.510					
WEIGHT	NUM	6	MEAN	0.475	S. D.	0.403	LOW	0.159	HIGH	1.021					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0006	0000	0000	0000
MEAN	0.068	0.366	0.053	8.238	0.488	0.038	0.100	0.279	3.42	0.197	0.110	0.000	0.187	0.657	0.601
S. D.	0.052	0.172	0.012	2.792	0.172	0.012	0.030	0.083	0.77	0.053	0.071	0.000	0.136	0.106	0.177
LOW	0.020	0.220	0.035	4.600	0.275	0.025	0.060	0.180	2.56	0.110	0.060	0.000	0.090	0.500	0.345
HIGH	0.160	0.690	0.070	11.405	0.730	0.060	0.130	0.405	4.37	0.255	0.160	0.000	0.455	0.750	0.875

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	2	MEAN	0.347	S. D.	0.025	LOW	0.329	HIGH	0.365					
WEIGHT	NUM	2	MEAN	0.327	S. D.	0.093	LOW	0.261	HIGH	0.392					

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.102	0.595	0.063	11.130	0.540	0.033	0.128	0.345	4.28	0.200	0.220	0.155	0.213	0.728	0.545
S. D.	0.012	0.085	0.011	1.230	0.156	0.011	0.004	0.141	0.31	0.021	0.042	0.000	0.074	0.117	0.156
LOW	0.093	0.535	0.055	10.260	0.430	0.025	0.125	0.245	4.06	0.185	0.190	0.000	0.160	0.645	0.435
HIGH	0.110	0.655	0.070	12.000	0.650	0.040	0.130	0.445	4.50	0.215	0.250	0.155	0.265	0.810	0.655

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

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LOCATION LEVEL 5

HAKE, RED — UROPHYCIS CHUSS — 033020 — AREA- NORTH ATLANTIC — SITE- P2 — MUSCLE

LENGTH	NUM	12	MEAN	0.372	S. D.	0.026	LOW	0.343	HIGH	0.426					
WEIGHT	NUM	12	MEAN	0.408	S. D.	0.090	LOW	0.314	HIGH	0.580					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0010	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0010	0010	0000	0001	0000
MEAN	0.110	0.468	0.050	13.926	0.346	0.035	0.237	0.243	3.10	0.193	0.175	0.200	0.162	0.637	0.587
S. D.	0.040	0.212	0.010	10.578	0.195	0.010	0.287	0.106	0.98	0.050	0.021	0.156	0.045	0.174	0.246
LOW	0.050	0.250	0.035	0.400	0.065	0.020	0.060	0.050	0.63	0.110	0.160	0.090	0.110	0.380	0.185
HIGH	0.150	1.000	0.065	42.500	0.765	0.060	1.065	0.370	4.25	0.300	0.190	0.310	0.280	0.940	1.120

HAKE, SPOTTED — UROPHYCIS REGIUS — 033024 — AREA- NORTH ATLANTIC — SITE- N6 — MUSCLE

LENGTH	NUM	5	MEAN	0.197	S. D.	0.017	LOW	0.175	HIGH	0.216					
WEIGHT	NUM	5	MEAN	0.087	S. D.	0.026	LOW	0.058	HIGH	0.115					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0003	0000
MEAN	0.066	0.332	0.091	4.316	0.372	0.037	0.192	0.437	3.25	0.278	0.000	0.000	0.174	0.755	0.693
S. D.	0.036	0.160	0.026	2.388	0.200	0.007	0.076	0.193	0.77	0.092	0.000	0.000	0.032	0.177	0.384
LOW	0.020	0.130	0.060	1.290	0.080	0.030	0.120	0.270	1.88	0.180	0.000	0.000	0.140	0.630	0.280
HIGH	0.110	0.560	0.120	6.765	0.605	0.045	0.310	0.750	3.69	0.375	0.000	0.000	0.210	0.880	1.310

HAKE, SPOTTED — UROPHYCIS REGIUS — 033024 — AREA- NORTH ATLANTIC — SITE- N8 — MUSCLE

LENGTH	NUM	7	MEAN	0.189	S. D.	0.019	LOW	0.167	HIGH	0.225					
WEIGHT	NUM	7	MEAN	0.068	S. D.	0.020	LOW	0.044	HIGH	0.106					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0007	0000	0005	0000
MEAN	0.070	0.492	0.103	5.008	0.386	0.046	0.223	0.454	4.58	0.233	0.090	0.000	0.243	0.970	0.609
S. D.	0.044	0.175	0.078	4.056	0.116	0.010	0.110	0.156	1.71	0.067	0.000	0.000	0.132	0.127	0.201
LOW	0.020	0.250	0.070	1.010	0.230	0.030	0.060	0.260	2.90	0.130	0.000	0.000	0.070	0.880	0.380
HIGH	0.130	0.720	0.280	12.500	0.540	0.060	0.380	0.710	7.31	0.310	0.090	0.000	0.460	1.060	1.000

HAKE, SPOTTED — UROPHYCIS REGIUS — 033024 — AREA- NORTH ATLANTIC — SITE- S1 — MUSCLE

LENGTH	NUM	19	MEAN	0.201	S. D.	0.029	LOW	0.172	HIGH	0.305					
WEIGHT	NUM	19	MEAN	0.083	S. D.	0.059	LOW	0.044	HIGH	0.313					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0019	0019	0019	0019	0019	0019	0019	0019	0018	0019	0019	0019	0019	0018
N DET.	0008	0000	0000	0000	0000	0001	0001	0000	0000	0001	0018	0019	0000	0005	0000
MEAN	0.087	0.360	0.066	4.662	0.362	0.041	0.293	0.370	3.56	0.244	0.060	0.000	0.325	0.646	0.613
S. D.	0.041	0.207	0.022	2.100	0.145	0.013	0.265	0.116	0.60	0.108	0.000	0.000	0.128	0.253	0.180
LOW	0.040	0.060	0.030	1.040	0.060	0.010	0.060	0.140	2.19	0.080	0.000	0.000	0.150	0.250	0.380
HIGH	0.160	0.880	0.120	10.100	0.620	0.060	1.000	0.630	4.44	0.510	0.060	0.000	0.570	1.100	1.000

HAKE, SPOTTED — UROPHYCIS REGIUS — 033024 — AREA- NORTH ATLANTIC — SITE- S4 — MUSCLE

LENGTH	NUM	34	MEAN	0.186	S. D.	0.019	LOW	0.161	HIGH	0.232					
WEIGHT	NUM	34	MEAN	0.065	S. D.	0.027	LOW	0.036	HIGH	0.133					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0033	0034	0034	0034	0034	0034	0034	0033	0034	0034	0034	0034	0034	0034	0033
N DET.	0010	0000	0000	0000	0000	0000	0002	0000	0000	0000	0033	0032	0000	0030	0000
MEAN	0.060	0.407	0.073	4.818	0.382	0.041	0.204	0.320	4.12	0.245	0.180	0.160	0.275	0.698	0.509
S. D.	0.060	0.219	0.027	2.140	0.152	0.017	0.095	0.177	0.76	0.080	0.000	0.042	0.084	0.163	0.091
LOW	0.020	0.190	0.050	0.920	0.050	0.010	0.060	0.090	3.12	0.090	0.000	0.130	0.120	0.500	0.380
HIGH	0.300	1.370	0.210	9.100	0.650	0.100	0.440	1.030	6.88	0.460	0.180	0.190	0.495	0.850	0.690

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- E8 — MUSCLE

LENGTH	NUM	8	MEAN	0.584	S. D.	0.253	LOW	0.334	HIGH	0.990					
WEIGHT	NUM	5	MEAN	0.541	S. D.	0.293	LOW	0.255	HIGH	0.869					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0007	0005	0000	0001	0000
MEAN	0.145	0.389	0.062	6.133	0.534	0.033	0.121	0.228	2.93	0.178	0.500	0.420	0.124	0.431	0.411
S. D.	0.133	0.140	0.021	1.803	0.151	0.016	0.057	0.056	0.29	0.045	0.000	0.092	0.031	0.232	0.109
LOW	0.020	0.190	0.043	3.950	0.300	0.010	0.055	0.170	2.54	0.120	0.000	0.320	0.090	0.060	0.215
HIGH	0.330	0.565	0.110	8.795	0.730	0.060	0.203	0.310	3.40	0.230	0.500	0.500	0.175	0.713	0.560

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- E8 — LIVER

LENGTH	NUM	2	MEAN	0.960	S. D.	0.042	LOW	0.930	HIGH	0.990					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.148	0.220	0.220	15.314	1.615	0.053	0.190	13.678	99.61	0.165	0.330	0.235	1.123	0.210	0.283
S. D.	0.088	0.042	0.085	10.250	0.163	0.039	0.000	13.368	8.29	0.092	0.071	0.000	0.110	0.212	0.046
LOW	0.085	0.190	0.160	8.066	1.500	0.025	0.000	4.225	93.75	0.100	0.280	0.000	1.045	0.060	0.250
HIGH	0.210	0.250	0.280	22.562	1.730	0.080	0.190	23.130	105.47	0.230	0.380	0.235	1.200	0.360	0.315

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- I5 — MUSCLE

LENGTH	NUM	1	MEAN	0.490	S. D.	0.000	LOW	0.490	HIGH	0.490					
WEIGHT	NUM	1	MEAN	0.907	S. D.	0.000	LOW	0.907	HIGH	0.907					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.060	0.300	0.030	6.500	0.360	0.000	0.100	0.160	3.16	0.255	0.280	0.000	0.115	0.620	0.620
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.060	0.300	0.030	6.500	0.360	0.000	0.100	0.160	3.16	0.255	0.280	0.000	0.115	0.620	0.620

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- I6 — MUSCLE

LENGTH	NUM	1	MEAN	0.290	S. D.	0.000	LOW	0.290	HIGH	0.290					
WEIGHT	NUM	1	MEAN	0.432	S. D.	0.000	LOW	0.432	HIGH	0.432					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.220	0.280	0.040	5.438	0.450	0.030	0.190	0.255	3.06	0.265	0.060	0.000	0.160	0.780	0.500
S. D.	0.156	0.042	0.000	4.366	0.566	0.000	0.000	0.092	0.71	0.035	0.000	0.000	0.085	0.042	0.085
LOW	0.110	0.250	0.040	2.350	0.050	0.030	0.000	0.190	2.56	0.240	0.000	0.000	0.100	0.750	0.440
HIGH	0.330	0.310	0.040	8.525	0.850	0.030	0.190	0.320	3.56	0.290	0.060	0.000	0.220	0.810	0.560

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- I6 — LIVER

LENGTH	NUM	1	MEAN	0.620	S. D.	0.000	LOW	0.620	HIGH	0.620					
WEIGHT	NUM	1	MEAN	1.311	S. D.	0.000	LOW	1.311	HIGH	1.311					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0001
MEAN	0.000	0.380	0.160	1.750	0.000	0.020	0.060	4.070	0.00	0.070	0.000	0.000	0.710	0.250	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	0.160	1.750	0.000	0.020	0.060	4.070	0.00	0.070	0.000	0.000	0.710	0.250	0.000

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J1 — MUSCLE

LENGTH	NUM	13	MEAN	0.570	S. D.	0.203	LOW	0.288	HIGH	0.920					
WEIGHT	NUM	8	MEAN	0.684	S. D.	0.346	LOW	0.171	HIGH	1.361					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0012	0012	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0003	0000	0000	0000	0000	0003	0001	0000	0000	0000	0008	0009	0000	0000	0000
MEAN	0.066	0.370	0.060	7.295	0.636	0.032	0.141	0.232	2.65	0.183	0.162	0.263	0.110	0.561	0.425
S. D.	0.052	0.144	0.040	3.770	0.393	0.011	0.102	0.069	0.44	0.048	0.098	0.055	0.031	0.220	0.179
LOW	0.020	0.190	0.030	2.240	0.350	0.010	0.040	0.125	2.06	0.100	0.060	0.190	0.050	0.190	0.175
HIGH	0.155	0.620	0.180	14.430	1.705	0.045	0.345	0.360	3.84	0.250	0.280	0.310	0.170	1.060	0.870

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J1 — LIVER

LENGTH	NUM	4	MEAN	0.755	S. D.	0.227	LOW	0.421	HIGH	0.920					
WEIGHT	NUM	1	MEAN	0.584	S. D.	0.000	LOW	0.584	HIGH	0.584					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0003	0000	0001	0000
MEAN	0.000	0.245	0.065	17.239	0.933	0.030	0.284	7.988	46.66	0.306	0.133	0.130	0.731	0.177	0.293
S. D.	0.000	0.110	0.006	6.797	0.261	0.010	0.139	4.497	17.18	0.320	0.055	0.000	0.242	0.102	0.102
LOW	0.000	0.120	0.060	9.700	0.603	0.020	0.080	3.860	28.21	0.085	0.080	0.000	0.500	0.060	0.220
HIGH	0.000	0.375	0.070	25.862	1.180	0.040	0.375	14.370	67.50	0.780	0.190	0.130	1.060	0.250	0.440

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	11	MEAN	0.691	S. D.	0.073	LOW	0.600	HIGH	0.860					
WEIGHT	NUM	1	MEAN	3.175	S. D.	0.000	LOW	3.175	HIGH	3.175					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0010	0009	0000	0007	0000
MEAN	0.080	0.308	0.050	9.424	0.405	0.029	0.207	0.228	2.71	0.233	0.060	0.125	0.110	0.576	0.583
S. D.	0.073	0.164	0.016	7.333	0.194	0.003	0.135	0.049	0.32	0.073	0.000	0.092	0.014	0.283	0.160
LOW	0.025	0.060	0.010	2.550	0.080	0.020	0.030	0.160	2.31	0.095	0.000	0.060	0.090	0.425	0.370
HIGH	0.240	0.690	0.070	25.500	0.730	0.030	0.440	0.310	3.44	0.360	0.060	0.190	0.140	1.000	0.940

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J4 — LIVER

LENGTH	NUM	6	MEAN	0.725	S. D.	0.072	LOW	0.650	HIGH	0.860					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0003	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006
N DET.	0006	0000	0000	0000	0000	0001	0004	0000	0000	0000	0004	0006	0000	0001	0004
MEAN	0.000	0.153	0.063	9.485	0.470	0.084	0.060	6.392	34.05	0.220	0.110	0.000	0.622	0.284	0.125
S. D.	0.000	0.103	0.041	6.456	0.408	0.138	0.000	3.830	19.28	0.274	0.071	0.000	0.217	0.143	0.092
LOW	0.000	0.060	0.020	4.300	0.210	0.010	0.060	3.500	8.90	0.010	0.060	0.000	0.330	0.160	0.060
HIGH	0.000	0.310	0.140	20.250	0.940	0.330	0.060	13.800	61.00	0.760	0.160	0.000	0.920	0.440	0.190

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM	17	MEAN	0.582	S. D.	0.132	LOW	0.377	HIGH	0.780					
WEIGHT	NUM	14	MEAN	1.712	S. D.	1.267	LOW	0.529	HIGH	4.540					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0017	0017	0017	0017	0016	0017	0017	0017	0017	0017	0017	0017	0017
N DET.	0003	0000	0001	0000	0000	0000	0000	0000	0000	0000	0009	0012	0000	0000	0000
MEAN	0.120	0.374	0.073	7.556	0.466	0.027	0.215	0.231	2.95	0.314	0.186	0.200	0.145	0.576	0.569
S. D.	0.069	0.159	0.048	4.275	0.149	0.014	0.220	0.116	0.86	0.218	0.093	0.193	0.046	0.199	0.236
LOW	0.020	0.190	0.030	1.100	0.270	0.010	0.060	0.060	1.78	0.153	0.060	0.060	0.090	0.190	0.220
HIGH	0.265	0.720	0.220	20.400	0.765	0.060	0.940	0.500	4.56	1.000	0.370	0.440	0.240	1.095	1.190

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J5 — LIVER

LENGTH	NUM	8	MEAN	0.683	S. D.	0.039	LOW	0.620	HIGH	0.750					
WEIGHT	NUM	5	MEAN	2.631	S. D.	0.608	LOW	1.814	HIGH	3.175					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0006	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0007	0001	0002	0000	0000	0004	0003	0000	0000	0000	0004	0006	0000	0003	0000
MEAN	0.103	0.188	0.061	7.604	0.576	0.033	0.471	5.261	37.54	0.161	0.158	0.250	0.628	0.314	0.331
S. D.	0.000	0.103	0.019	4.719	0.200	0.022	0.745	2.531	9.42	0.139	0.065	0.000	0.111	0.009	0.182
LOW	0.000	0.060	0.040	1.800	0.350	0.010	0.060	1.820	18.06	0.050	0.060	0.250	0.510	0.310	0.120
HIGH	0.103	0.345	0.085	12.650	0.915	0.060	1.800	9.060	50.63	0.480	0.190	0.250	0.840	0.330	0.630

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J6 — MUSCLE

LENGTH	NUM	2	MEAN	0.710	S. D.	0.042	LOW	0.680	HIGH	0.740					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.248	0.580	0.085	4.063	0.748	0.038	0.090	0.283	4.22	0.333	0.120	0.060	0.130	0.628	0.273
S. D.	0.216	0.156	0.021	2.210	0.520	0.039	0.000	0.060	1.90	0.152	0.057	0.000	0.057	0.004	0.117
LOW	0.095	0.470	0.070	2.500	0.380	0.010	0.000	0.240	2.88	0.225	0.080	0.000	0.090	0.625	0.190
HIGH	0.400	0.690	0.100	5.625	1.116	0.065	0.090	0.325	5.56	0.440	0.160	0.060	0.170	0.630	0.355

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J6 — LIVER

LENGTH	NUM	2	MEAN	0.710	S. D.	0.042	LOW	0.680	HIGH	0.740					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.090	0.263	0.075	4.675	0.685	0.020	0.085	5.103	47.72	0.103	0.140	0.000	0.738	0.438	0.180
S. D.	0.000	0.286	0.021	0.000	0.134	0.000	0.007	1.022	1.19	0.018	0.071	0.000	0.301	0.004	0.014
LOW	0.000	0.060	0.060	0.000	0.590	0.020	0.080	4.380	46.88	0.090	0.090	0.000	0.525	0.435	0.170
HIGH	0.090	0.465	0.090	4.675	0.780	0.020	0.090	5.825	48.56	0.115	0.190	0.000	0.950	0.440	0.190

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	2	MEAN	0.748	S. D.	0.018	LOW	0.735	HIGH	0.760					
WEIGHT	NUM	2	MEAN	4.650	S. D.	0.320	LOW	4.423	HIGH	4.876					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.135	0.455	0.083	4.637	0.575	0.033	0.110	0.185	2.86	0.175	0.160	0.205	0.155	0.470	0.375
S. D.	0.014	0.064	0.046	1.631	0.000	0.004	0.014	0.028	0.20	0.049	0.000	0.106	0.021	0.085	0.134
LOW	0.125	0.410	0.050	3.483	0.000	0.030	0.100	0.165	2.72	0.140	0.000	0.130	0.140	0.410	0.280
HIGH	0.145	0.500	0.115	5.790	0.575	0.035	0.120	0.205	3.00	0.210	0.160	0.280	0.170	0.530	0.470

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- K2 — MUSCLE

LENGTH	NUM	1	MEAN	0.940	S. D.	0.000	LOW	0.940	HIGH	0.940					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.103	0.293	0.040	10.140	0.650	0.033	0.185	0.190	3.31	0.236	0.285	0.310	0.166	0.376	0.460
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.103	0.293	0.040	10.140	0.650	0.033	0.185	0.190	3.31	0.236	0.285	0.310	0.166	0.376	0.460

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- K2 — LIVER

LENGTH	NUM	1	MEAN	0.940	S. D.	0.000	LOW	0.940	HIGH	0.940					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.190	0.030	10.930	0.780	0.000	0.310	1.940	36.88	0.090	0.190	0.310	0.540	0.310	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.030	10.930	0.780	0.000	0.310	1.940	36.88	0.090	0.190	0.310	0.540	0.310	0.380

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- K5 — MUSCLE

LENGTH	NUM	8	MEAN	0.674	S. D.	0.097	LOW	0.520	HIGH	0.850					
WEIGHT	NUM	8	MEAN	1.889	S. D.	0.532	LOW	1.419	HIGH	2.944					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0007	0007	0000	0000	0000
MEAN	0.173	0.363	0.056	9.031	0.526	0.027	0.101	0.234	3.70	0.199	0.120	0.310	0.111	0.515	0.414
S. D.	0.127	0.128	0.013	3.871	0.192	0.015	0.050	0.060	2.16	0.068	0.000	0.000	0.027	0.154	0.099
LOW	0.090	0.120	0.040	3.533	0.250	0.010	0.060	0.120	2.69	0.100	0.000	0.000	0.080	0.370	0.220
HIGH	0.470	0.565	0.075	15.712	0.890	0.050	0.190	0.310	9.03	0.330	0.120	0.310	0.170	0.750	0.540

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- K5 — LIVER

LENGTH	NUM	7	MEAN	0.680	S. D.	0.103	LOW	0.520	HIGH	0.850					
WEIGHT	NUM	7	MEAN	1.951	S. D.	0.542	LOW	1.419	HIGH	2.944					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0006	0006	0007	0007	0006	0007	0006	0007	0007	0007	0007	0007
N DET.	0004	0000	0000	0000	0000	0003	0002	0000	0000	0000	0004	0005	0000	0001	0000
MEAN	0.057	0.297	0.133	19.706	0.542	0.068	0.236	4.793	48.86	0.158	0.123	0.155	0.670	0.280	0.214
S. D.	0.035	0.194	0.103	13.446	0.229	0.108	0.209	0.690	18.33	0.058	0.006	0.134	0.241	0.033	0.121
LOW	0.020	0.130	0.030	5.475	0.290	0.010	0.060	4.000	34.75	0.090	0.120	0.060	0.440	0.250	0.060
HIGH	0.090	0.560	0.280	40.400	0.810	0.230	0.570	5.810	87.50	0.250	0.130	0.250	1.060	0.310	0.380

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	3	MEAN	0.726	S. D.	0.208	LOW	0.497	HIGH	0.905					
WEIGHT	NUM	3	MEAN	4.340	S. D.	3.335	LOW	0.545	HIGH	6.804					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0002	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.137	0.323	0.030	9.294	0.478	0.020	0.191	0.107	2.50	0.402	0.870	0.410	0.162	0.625	0.558
S. D.	0.120	0.166	0.000	6.086	0.024	0.000	0.083	0.029	0.40	0.093	0.000	0.000	0.095	0.430	0.125
LOW	0.015	0.210	0.000	2.950	0.460	0.000	0.116	0.085	2.23	0.295	0.000	0.000	0.090	0.130	0.415
HIGH	0.255	0.513	0.030	15.083	0.505	0.020	0.280	0.140	2.96	0.465	0.870	0.410	0.270	0.910	0.645

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- P2 — MUSCLE

LENGTH	NUM	1	MEAN	0.454	S. D.	0.000	LOW	0.454	HIGH	0.454					
WEIGHT	NUM	1	MEAN	0.738	S. D.	0.000	LOW	0.738	HIGH	0.738					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0001	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.030	0.310	0.040	21.000	0.000	0.040	0.000	0.040	2.81	0.210	0.870	0.120	0.040	1.120	0.620
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.030	0.310	0.040	21.000	0.000	0.040	0.000	0.040	2.81	0.210	0.870	0.120	0.040	1.120	0.620

HAKE, WHITE — UROPHYCIS TENUIS — 033025 — AREA- NORTH ATLANTIC — SITE- P3 — MUSCLE

LENGTH	NUM	1	MEAN	0.451	S. D.	0.000	LOW	0.451	HIGH	0.451					
WEIGHT	NUM	1	MEAN	0.756	S. D.	0.000	LOW	0.756	HIGH	0.756					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0001	0000
MEAN	0.060	0.355	0.040	11.000	0.530	0.000	0.145	0.250	3.21	0.140	0.000	0.150	0.280	0.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.060	0.355	0.040	11.000	0.530	0.000	0.145	0.250	3.21	0.140	0.000	0.150	0.280	0.000	0.380

CUSK-EEL, FAWN — LEPOPHIDIUM CERVINUM — 037004 — AREA- NORTH ATLANTIC — SITE- P4 — MUSCLE

LENGTH	NUM	2	MEAN	0.216	S. D.	0.000	LOW	0.216	HIGH	0.216					
WEIGHT	NUM	2	MEAN	0.033	S. D.	0.000	LOW	0.033	HIGH	0.033					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.030	1.355	0.145	8.670	0.500	0.070	0.288	0.820	9.11	0.785	0.150	0.345	1.445	1.205	1.165
S. D.	0.014	0.198	0.049	0.000	0.000	0.000	0.011	0.099	2.27	0.403	0.000	0.007	0.629	1.450	0.474
LOW	0.020	1.215	0.110	0.000	0.000	0.070	0.280	0.750	7.50	0.500	0.150	0.340	1.000	0.180	0.830
HIGH	0.040	1.495	0.180	8.670	0.500	0.070	0.295	0.890	10.71	1.070	0.150	0.350	1.890	2.230	1.500

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	11	MEAN	0.688	S. D.	0.070	LOW	0.650	HIGH	0.900					
WEIGHT	NUM	11	MEAN	2.317	S. D.	0.776	LOW	1.361	HIGH	4.536					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0010	0010	0011	0011	0010
N DET.	0001	0001	0003	0000	0000	0006	0000	0000	0000	0004	0008	0008	0000	0006	0000
MEAN	0.133	0.461	0.071	3.490	0.595	0.034	0.252	0.535	5.09	0.286	0.470	0.565	0.155	0.898	0.460
S. D.	0.179	0.224	0.031	1.375	0.257	0.009	0.267	0.147	0.89	0.083	0.042	0.092	0.118	0.512	0.105
LOW	0.010	0.130	0.040	1.770	0.140	0.020	0.040	0.310	3.67	0.210	0.440	0.500	0.040	0.450	0.315
HIGH	0.530	0.736	0.140	5.940	1.130	0.040	0.990	0.790	6.25	0.460	0.500	0.630	0.460	1.575	0.690

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	9	MEAN	4.335	S. D.	1.729	LOW	2.722	HIGH	7.257					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0001	0000	0000	0003	0001	0000	0000	0000	0007	0008	0001	0001	0000
MEAN	0.175	0.440	0.107	4.463	0.775	0.043	0.158	0.398	5.72	0.322	0.207	0.450	0.202	1.127	0.431
S. D.	0.114	0.183	0.029	1.406	0.148	0.008	0.072	0.079	2.19	0.130	0.144	0.354	0.089	0.431	0.146
LOW	0.035	0.140	0.055	1.875	0.520	0.030	0.070	0.300	3.23	0.175	0.100	0.200	0.113	0.525	0.250
HIGH	0.335	0.725	0.150	6.400	0.970	0.055	0.280	0.520	10.17	0.545	0.370	0.700	0.335	1.780	0.650

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	4.627	S. D.	0.000	LOW	4.627	HIGH	4.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.110	0.150	0.980	3.120	1.865	0.010	0.000	1.900	28.90	0.100	0.500	0.200	0.460	0.700	0.650
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.110	0.150	0.980	3.120	1.865	0.010	0.000	1.900	28.90	0.100	0.500	0.200	0.460	0.700	0.650

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	1	MEAN	1.403	S. D.	0.000	LOW	1.403	HIGH	1.403					
WEIGHT	NUM	2	MEAN	11.123	S. D.	5.136	LOW	7.491	HIGH	14.755					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.350	0.345	0.055	3.875	0.770	0.030	0.160	0.625	4.32	0.205	0.000	0.000	0.090	0.000	0.545
S. D.	0.255	0.049	0.021	1.520	0.382	0.000	0.042	0.049	0.26	0.092	0.000	0.000	0.014	0.000	0.021
LOW	0.170	0.310	0.040	2.800	0.500	0.030	0.130	0.590	4.13	0.140	0.000	0.000	0.080	0.000	0.530
HIGH	0.530	0.380	0.070	4.950	1.040	0.030	0.190	0.660	4.50	0.270	0.000	0.000	0.100	0.000	0.560

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- HAWAII — SITE- C3 — MUSCLE

LENGTH	NUM	1	MEAN	0.829	S. D.	0.000	LOW	0.829	HIGH	0.829					
WEIGHT	NUM	1	MEAN	4.783	S. D.	0.000	LOW	4.783	HIGH	4.783					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.040	0.630	0.210	0.900	0.370	0.020	0.140	1.130	3.69	0.160	0.200	0.000	0.060	0.810	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.630	0.210	0.900	0.370	0.020	0.140	1.130	3.69	0.160	0.200	0.000	0.060	0.810	0.000

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- HAWAII — SITE- C3 — LIVER

LENGTH	NUM	1	MEAN	0.829	S. D.	0.000	LOW	0.829	HIGH	0.829					
WEIGHT	NUM	1	MEAN	4.783	S. D.	0.000	LOW	4.783	HIGH	4.783					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.500	1.290	2.300	0.000	0.050	0.130	5.630	18.44	0.150	0.250	0.250	0.620	0.630	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.500	1.290	2.300	0.000	0.050	0.130	5.630	18.44	0.150	0.250	0.250	0.620	0.630	0.310

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	4	MEAN	0.585	S. D.	0.126	LOW	0.469	HIGH	0.731					
WEIGHT	NUM	33	MEAN	9.590	S. D.	4.713	LOW	1.027	HIGH	20.412					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0033	0033	0033	0033	0031	0033	0033	0033	0033	0033	0033	0033	0033	0033	0032
N DET.	0002	0000	0000	0000	0000	0004	0000	0000	0000	0000	0017	0023	0000	0000	0000
MEAN	0.111	0.464	0.059	3.034	0.644	0.028	0.170	0.349	3.81	0.183	0.192	0.411	0.088	0.682	0.492
S. D.	0.085	0.232	0.023	1.096	0.222	0.013	0.116	0.161	1.26	0.053	0.137	0.259	0.026	0.265	0.155
LOW	0.020	0.060	0.030	1.433	0.140	0.015	0.060	0.110	2.12	0.090	0.060	0.060	0.050	0.155	0.190
HIGH	0.385	1.060	0.120	6.900	1.300	0.080	0.470	0.870	9.50	0.305	0.630	1.000	0.146	1.190	0.750

DOLPHIN — CORYPHAENA HIPPURUS — 041002 — AREA- HAWAII — SITE- D5 — LIVER

LENGTH	NUM	1	MEAN	0.585	S. D.	0.000	LOW	0.585	HIGH	0.585					
WEIGHT	NUM	21	MEAN	11.200	S. D.	4.737	LOW	2.038	HIGH	20.412					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0021	0020	0021	0020	0011	0021	0020	0021	0019	0021	0021	0021	0021	0021	0019
N DET.	0010	0000	0000	0000	0000	0002	0001	0000	0000	0000	0005	0019	0000	0000	0000
MEAN	0.036	0.596	1.988	3.852	1.995	0.043	0.215	9.253	24.14	0.219	0.464	0.265	1.031	0.770	0.585
S. D.	0.030	0.362	0.850	2.461	0.717	0.025	0.142	7.179	6.74	0.106	0.206	0.064	0.483	0.386	0.236
LOW	0.020	0.060	0.490	0.700	1.300	0.010	0.040	2.050	10.63	0.060	0.220	0.220	0.200	0.250	0.310
HIGH	0.120	1.380	3.800	10.450	3.675	0.110	0.630	28.280	34.37	0.480	1.000	0.310	1.810	1.500	1.250

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DOLPHIN — CORYPHAENA HIPPURUS — 041002 AREA- HAWAII — SITE- E7 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	5	MEAN	7.167	S. D.	2.999	LOW	4.536	HIGH	10.433					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0003	0004	0000	0001	0000
MEAN	0.113	0.312	0.065	3.466	0.490	0.028	0.166	0.307	3.70	0.197	0.075	0.230	0.087	0.545	0.481
S. D.	0.090	0.187	0.030	1.142	0.175	0.008	0.074	0.139	1.06	0.033	0.021	0.000	0.024	0.477	0.098
LOW	0.040	0.160	0.035	2.100	0.300	0.020	0.073	0.125	2.81	0.170	0.060	0.000	0.060	0.060	0.375
HIGH	0.240	0.630	0.110	4.587	0.690	0.040	0.250	0.450	5.53	0.235	0.090	0.230	0.125	1.190	0.625

DOLPHIN — CORYPHAENA HIPPURUS — 041002 AREA- HAWAII — SITE- E7 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	5	MEAN	7.167	S. D.	2.999	LOW	4.536	HIGH	10.433					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0003	0001	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0003	0000	0000	0000	0000	0002	0000	0000	0000	0000	0001	0004	0000	0000	0000
MEAN	0.065	0.610	2.680	4.764	1.490	0.020	0.118	9.210	28.96	0.162	0.463	0.310	0.924	0.744	0.388
S. D.	0.035	0.172	1.926	2.360	0.000	0.017	0.095	7.795	5.67	0.064	0.075	0.000	0.259	0.460	0.145
LOW	0.040	0.440	1.190	2.350	0.000	0.010	0.060	1.270	21.25	0.080	0.380	0.000	0.560	0.250	0.250
HIGH	0.090	0.870	5.990	7.067	1.490	0.040	0.280	21.650	36.25	0.230	0.560	0.310	1.170	1.440	0.630

DOLPHIN — CORYPHAENA HIPPURUS — 041002 AREA- HAWAII — SITE- K1 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	5.889	S. D.	0.000	LOW	5.889	HIGH	5.889					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.105	0.345	0.045	1.533	0.530	0.015	0.160	0.420	3.28	0.190	0.000	0.000	0.085	0.060	0.355
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.105	0.345	0.045	1.533	0.530	0.015	0.160	0.420	3.28	0.190	0.000	0.000	0.085	0.060	0.355

PERCH, SILVER — BAIRDIELLA CHRYSURA — 045003 AREA- SOUTH ATLANTIC — SITE- C2 MUSCLE

LENGTH	NUM	10	MEAN	0.209	S. D.	0.000	LOW	0.209	HIGH	0.209					
WEIGHT	NUM	10	MEAN	0.113	S. D.	0.000	LOW	0.113	HIGH	0.113					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0005	0002	0000	0000	0000
MEAN	0.138	0.620	0.071	2.133	0.687	0.044	0.175	0.440	6.56	0.232	0.288	0.331	0.202	0.805	0.562
S. D.	0.037	0.256	0.042	0.639	0.193	0.016	0.073	0.150	1.40	0.076	0.097	0.138	0.059	0.432	0.158
LOW	0.070	0.326	0.020	1.000	0.460	0.010	0.090	0.235	5.12	0.140	0.190	0.190	0.140	0.380	0.250
HIGH	0.190	1.130	0.140	3.230	0.945	0.065	0.295	0.665	9.06	0.410	0.410	0.630	0.330	1.690	0.780

PERCH, SILVER — BAIRDIELLA CHRYSURA — 045003 AREA- SOUTH ATLANTIC — SITE- J4 MUSCLE

LENGTH	NUM	10	MEAN	0.172	S. D.	0.006	LOW	0.160	HIGH	0.183					
WEIGHT	NUM	10	MEAN	0.130	S. D.	0.015	LOW	0.105	HIGH	0.148					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0001	0000	0000	0003	0000	0000	0000	0001	0008	0007	0000	0003	0000
MEAN	0.060	0.548	0.088	7.444	0.505	0.041	0.183	0.219	7.35	0.331	0.205	0.377	0.187	0.921	0.708
S. D.	0.018	0.279	0.041	5.711	0.132	0.013	0.063	0.076	1.43	0.141	0.205	0.125	0.083	0.254	0.249
LOW	0.025	0.350	0.035	0.900	0.250	0.030	0.095	0.140	4.82	0.150	0.060	0.250	0.070	0.530	0.400
HIGH	0.080	1.120	0.150	19.820	0.705	0.070	0.286	0.385	9.46	0.532	0.350	0.500	0.380	1.350	1.150

SEATROUT, SAND — CYNOSCION ARENARIUS — 045007 AREA- GULF — SITE- B7 MUSCLE

LENGTH	NUM	4	MEAN	0.198	S. D.	0.038	LOW	0.160	HIGH	0.250					
WEIGHT	NUM	4	MEAN	0.101	S. D.	0.049	LOW	0.056	HIGH	0.170					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.040	0.418	0.079	2.090	0.753	0.034	0.173	0.369	4.97	0.205	0.000	0.000	0.183	0.783	0.668
S. D.	0.020	0.074	0.009	0.829	0.308	0.009	0.080	0.112	0.55	0.087	0.000	0.000	0.064	0.196	0.253
LOW	0.020	0.310	0.070	1.333	0.375	0.020	0.060	0.265	4.25	0.130	0.000	0.000	0.125	0.500	0.380
HIGH	0.060	0.480	0.090	3.200	1.096	0.040	0.250	0.480	5.56	0.315	0.000	0.000	0.250	0.940	0.880

SEATROUT, SAND — CYNOSCION ARENARIUS — 045007 AREA- GULF — SITE- B8 MUSCLE

LENGTH	NUM	2	MEAN	0.271	S. D.	0.120	LOW	0.186	HIGH	0.355					
WEIGHT	NUM	3	MEAN	0.342	S. D.	0.490	LOW	0.041	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0001	0003	0002	0000	0001	0000
MEAN	0.047	0.545	0.055	2.608	0.882	0.035	0.202	0.318	5.25	0.148	0.000	0.150	0.215	0.575	0.600
S. D.	0.025	0.255	0.021	1.125	0.188	0.000	0.028	0.186	0.89	0.053	0.000	0.000	0.101	0.304	0.092
LOW	0.020	0.260	0.040	1.400	0.700	0.000	0.170	0.180	4.23	0.110	0.000	0.000	0.140	0.360	0.520
HIGH	0.070	0.750	0.070	3.625	1.075	0.035	0.220	0.530	5.84	0.185	0.000	0.150	0.330	0.790	0.700

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SEATROUT, SAND — CYNOSCION ARENARIUS — 045007 — AREA- GULF — SITE- H1 — MUSCLE

LENGTH	NUM	5	MEAN	0.195	S. D.	0.020	LOW	0.170	HIGH	0.220					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0003	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	0.060	0.521	0.064	1.664	0.578	0.045	0.155	0.536	5.43	0.251	0.150	0.440	0.309	0.687	0.709
S. D.	0.042	0.064	0.038	0.808	0.200	0.006	0.067	0.359	0.51	0.039	0.032	0.000	0.111	0.158	0.127
LOW	0.030	0.440	0.020	0.735	0.350	0.040	0.073	0.260	4.81	0.210	0.120	0.440	0.170	0.500	0.540
HIGH	0.090	0.606	0.120	2.650	0.860	0.050	0.250	1.030	6.00	0.290	0.190	0.440	0.470	0.880	0.870

SEATROUT, SAND — CYNOSCION ARENARIUS — 045007 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	6	MEAN	0.227	S. D.	0.013	LOW	0.210	HIGH	0.245					
WEIGHT	NUM	6	MEAN	0.179	S. D.	0.041	LOW	0.135	HIGH	0.232					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0003	0000	0001	0000
MEAN	0.359	0.424	0.059	2.678	0.784	0.037	0.141	0.239	4.14	0.208	0.108	0.217	0.127	0.806	0.564
S. D.	0.080	0.278	0.015	0.982	0.262	0.012	0.050	0.127	1.37	0.078	0.062	0.137	0.030	0.248	0.153
LOW	0.265	0.250	0.035	1.775	0.535	0.020	0.085	0.070	1.69	0.120	0.060	0.060	0.090	0.500	0.370
HIGH	0.490	0.965	0.076	4.100	1.255	0.050	0.223	0.406	5.15	0.340	0.190	0.310	0.160	1.060	0.835

SEATROUT, SPOTTED (SPECKLED) — CYNOSCION NEBULOSUS — 045008 — AREA- NORTH ATLANTIC — SITE- R8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0003	0000	0000	0003	0000	0000	0000	0004	0008	0008	0001	0003	0000
MEAN	0.109	0.367	0.056	2.230	0.544	0.049	0.164	0.317	3.88	0.194	0.330	0.270	0.221	0.966	0.440
S. D.	0.054	0.120	0.027	1.514	0.120	0.042	0.079	0.106	1.00	0.070	0.240	0.240	0.108	0.719	0.131
LOW	0.050	0.250	0.035	0.795	0.340	0.010	0.065	0.195	2.89	0.120	0.160	0.100	0.040	0.190	0.100
HIGH	0.185	0.535	0.110	5.620	0.720	0.140	0.300	0.530	6.07	0.320	0.500	0.440	0.430	1.930	0.575

SEATROUT, SPOTTED (SPECKLED) — CYNOSCION NEBULOSUS — 045008 — AREA- NORTH ATLANTIC — SITE- R8 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.020	0.310	0.100	0.100	0.870	0.030	0.050	5.060	11.87	0.180	0.120	0.000	0.810	0.880	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.310	0.100	0.100	0.870	0.030	0.050	5.060	11.87	0.180	0.120	0.000	0.810	0.880	0.000

SEATROUT, SPOTTED (SPECKLED) — CYNOSCION NEBULOSUS — 045008 — AREA- SOUTH ATLANTIC — SITE- F3 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.411	S. D.	0.000	LOW	0.411	HIGH	0.411					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0009	0009	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0001	0002	0003	0001	0000	0005	0000	0000	0000	0000	0006	0006	0000	0004	0000
MEAN	0.117	0.416	0.074	2.549	0.713	0.022	0.232	0.299	4.52	0.302	0.158	0.332	0.137	0.820	0.487
S. D.	0.104	0.163	0.061	1.143	0.267	0.012	0.157	0.159	1.41	0.217	0.074	0.186	0.053	0.206	0.152
LOW	0.020	0.250	0.020	1.500	0.413	0.010	0.060	0.190	2.85	0.040	0.060	0.060	0.060	0.470	0.275
HIGH	0.350	0.810	0.200	4.750	1.245	0.040	0.505	0.740	7.50	0.610	0.220	0.500	0.230	1.100	0.810

SEATROUT, SPOTTED (SPECKLED) — CYNOSCION NEBULOSUS — 045008 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	4	MEAN	0.357	S. D.	0.025	LOW	0.326	HIGH	0.381					
WEIGHT	NUM	2	MEAN	0.490	S. D.	0.045	LOW	0.458	HIGH	0.521					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0002	0000	0000	0003	0000	0000	0000	0001	0003	0003	0000	0001	0000
MEAN	0.290	0.458	0.115	3.683	0.566	0.020	0.396	0.225	4.96	0.323	0.150	0.300	0.133	0.638	0.428
S. D.	0.030	0.174	0.035	0.847	0.291	0.000	0.254	0.040	0.55	0.143	0.000	0.000	0.079	0.314	0.175
LOW	0.255	0.230	0.090	2.650	0.305	0.000	0.100	0.200	4.38	0.200	0.000	0.000	0.070	0.345	0.250
HIGH	0.320	0.650	0.140	4.400	0.930	0.020	0.705	0.285	5.69	0.480	0.150	0.300	0.245	0.970	0.660

SEATROUT, SPOTTED (SPECKLED) — CYNOSCION NEBULOSUS — 045008 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	3	MEAN	0.420	S. D.	0.066	LOW	0.374	HIGH	0.495					
WEIGHT	NUM	2	MEAN	1.023	S. D.	1.082	LOW	0.258	HIGH	1.788					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0001	0002	0000	0000	0001	0000	0000	0000	0001	0003	0003	0001	0002	0000
MEAN	0.710	0.299	0.130	1.207	0.463	0.035	0.152	0.250	4.66	0.320	0.000	0.000	0.175	0.575	0.458
S. D.	0.428	0.062	0.000	1.007	0.234	0.007	0.048	0.061	1.25	0.057	0.000	0.000	0.148	0.000	0.095
LOW	0.370	0.255	0.000	0.500	0.290	0.030	0.100	0.180	3.71	0.280	0.000	0.000	0.070	0.000	0.350
HIGH	1.190	0.343	0.130	2.360	0.730	0.040	0.195	0.290	6.07	0.360	0.000	0.000	0.280	0.575	0.525

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- B8 MUSCLE

LENGTH	NUM	3	MEAN	0.387	S. D.	0.117	LOW	0.266	HIGH	0.500					
WEIGHT	NUM	3	MEAN	0.613	S. D.	0.305	LOW	0.280	HIGH	0.879					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0004
N DET.	0000	0000	0004	0000	0000	0004	0000	0001	0000	0000	0004	0004	0000	0001	0000
MEAN	0.170	0.535	0.040	3.431	0.710	0.020	0.255	0.434	3.80	0.307	0.080	0.280	0.214	1.238	0.518
S. D.	0.124	0.293	0.000	1.870	0.166	0.000	0.105	0.400	1.32	0.103	0.000	0.000	0.139	0.805	0.046
LOW	0.100	0.200	0.000	0.800	0.520	0.000	0.085	0.125	2.34	0.210	0.000	0.000	0.075	0.250	0.450
HIGH	0.390	0.990	0.040	6.000	0.950	0.020	0.365	1.010	5.85	0.460	0.080	0.280	0.445	2.100	0.550

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- D5 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.131	S. D.	0.000	LOW	0.131	HIGH	0.131					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0013	0013	0013	0013	0013	0012	0012	0012	0013	0013	0013	0013	0013	0012
N DET.	0000	0000	0001	0001	0000	0000	0000	0000	0000	0000	0009	0010	0000	0002	0000
MEAN	0.162	0.468	0.091	2.132	0.660	0.049	0.165	0.327	3.90	0.216	0.173	0.420	0.182	0.730	0.607
S. D.	0.057	0.307	0.054	1.355	0.251	0.041	0.105	0.304	0.72	0.092	0.147	0.312	0.061	0.263	0.234
LOW	0.095	0.020	0.035	0.725	0.350	0.020	0.060	0.060	3.03	0.125	0.060	0.220	0.110	0.280	0.400
HIGH	0.305	1.120	0.220	5.000	1.290	0.180	0.370	1.250	5.74	0.415	0.370	0.780	0.330	1.310	1.300

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- D5 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.350	0.000	3.650	1.800	0.000	0.255	3.860	13.21	0.360	0.000	0.000	0.530	0.800	0.780
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.350	0.000	3.650	1.800	0.000	0.255	3.860	13.21	0.360	0.000	0.000	0.530	0.800	0.780

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- E5 MUSCLE

LENGTH	NUM	20	MEAN	0.450	S. D.	0.068	LOW	0.343	HIGH	0.576					
WEIGHT	NUM	20	MEAN	0.901	S. D.	0.369	LOW	0.404	HIGH	1.735					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0003	0000	0000	0004	0001	0000	0000	0001	0017	0015	0001	0004	0000
MEAN	0.543	0.467	0.070	1.873	0.757	0.053	0.213	0.211	4.14	0.278	0.097	0.366	0.124	0.722	0.460
S. D.	0.212	0.257	0.027	0.948	0.295	0.042	0.223	0.080	1.08	0.190	0.035	0.226	0.048	0.292	0.099
LOW	0.250	0.050	0.040	0.150	0.170	0.030	0.060	0.090	2.88	0.110	0.060	0.190	0.040	0.440	0.325
HIGH	0.865	1.070	0.140	3.630	1.325	0.190	0.925	0.370	7.50	0.820	0.130	0.750	0.250	1.450	0.630

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- E5 LIVER

LENGTH	NUM	1	MEAN	0.414	S. D.	0.000	LOW	0.414	HIGH	0.414					
WEIGHT	NUM	1	MEAN	0.779	S. D.	0.000	LOW	0.779	HIGH	0.779					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.240	0.440	0.140	1.000	1.630	0.060	0.120	10.060	31.25	0.280	0.060	0.000	1.010	0.500	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.240	0.440	0.140	1.000	1.630	0.060	0.120	10.060	31.25	0.280	0.060	0.000	1.010	0.500	0.560

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- G3 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.058	S. D.	0.000	LOW	0.058	HIGH	0.058					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0002	0002	0000	0000	0001	0001	0000	0000	0002	0003	0003	0000	0002	0000
MEAN	0.253	0.375	0.060	0.798	0.860	0.185	0.148	0.203	4.94	0.260	0.000	0.000	0.100	0.310	0.525
S. D.	0.086	0.000	0.000	0.474	0.285	0.205	0.004	0.071	1.26	0.000	0.000	0.000	0.052	0.000	0.025
LOW	0.160	0.000	0.000	0.408	0.610	0.040	0.145	0.140	3.57	0.000	0.000	0.000	0.070	0.000	0.500
HIGH	0.330	0.375	0.060	1.325	1.170	0.330	0.150	0.280	6.06	0.260	0.000	0.000	0.160	0.310	0.550

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- G5 MUSCLE

LENGTH	NUM	1	MEAN	0.630	S. D.	0.000	LOW	0.630	HIGH	0.630					
WEIGHT	NUM	1	MEAN	2.497	S. D.	0.000	LOW	2.497	HIGH	2.497					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.090	0.565	0.055	4.500	0.615	0.040	0.315	0.110	3.21	0.180	0.000	0.000	0.085	0.000	0.455
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.090	0.565	0.055	4.500	0.615	0.040	0.315	0.110	3.21	0.180	0.000	0.000	0.085	0.000	0.455

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- G8 MUSCLE

LENGTH	NUM	8	MEAN	0.428	S. D.	0.034	LOW	0.384	HIGH	0.495					
WEIGHT	NUM	8	MEAN	0.822	S. D.	0.287	LOW	0.340	HIGH	1.362					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0007	0000	0000	0000
MEAN	0.181	0.787	0.096	2.387	1.112	0.024	0.422	0.276	4.57	0.197	0.000	0.190	0.208	0.788	0.446
S. D.	0.114	0.372	0.041	0.829	0.288	0.012	0.364	0.091	0.61	0.068	0.000	0.000	0.101	0.150	0.100
LOW	0.070	0.380	0.050	0.723	0.730	0.010	0.130	0.200	3.81	0.100	0.000	0.000	0.140	0.630	0.310
HIGH	0.430	1.250	0.180	3.500	1.650	0.040	1.190	0.480	5.63	0.275	0.000	0.190	0.440	1.000	0.630

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- L5 MUSCLE

LENGTH	NUM	10	MEAN	0.226	S. D.	0.038	LOW	0.140	HIGH	0.264					
WEIGHT	NUM	10	MEAN	0.200	S. D.	0.071	LOW	0.128	HIGH	0.325					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0002	0003	0001	0000	0003	0001	0001	0000	0005	0008	0008	0000	0002	0000
MEAN	0.194	0.513	0.049	2.984	0.476	0.089	0.177	0.186	5.61	0.312	0.195	0.175	0.165	0.821	0.636
S. D.	0.071	0.257	0.025	1.703	0.258	0.084	0.095	0.065	3.03	0.288	0.219	0.035	0.082	0.382	0.231
LOW	0.110	0.270	0.020	1.645	0.050	0.030	0.050	0.070	3.21	0.120	0.040	0.150	0.030	0.480	0.315
HIGH	0.320	1.000	0.095	7.330	0.905	0.210	0.356	0.250	13.48	0.820	0.350	0.200	0.290	1.710	0.900

SEATROUT, SPOTTED (SPECKLED) CYNOSCION NEBULOSUS 045008 AREA- GULF SITE- R3 MUSCLE

LENGTH	NUM	1	MEAN	0.387	S. D.	0.000	LOW	0.387	HIGH	0.387					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0001	0000	0000	0001	0001	0000	0001	0000
MEAN	0.530	0.290	0.070	3.250	1.160	0.000	0.070	0.000	3.57	0.290	0.000	0.000	0.430	0.000	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.530	0.290	0.070	3.250	1.160	0.000	0.070	0.000	3.57	0.290	0.000	0.000	0.430	0.000	0.500

SEATROUT, SILVER (WHITE) CYNOSCION NOTHUS 045010 AREA- GULF SITE- B8 MUSCLE

LENGTH	NUM	1	MEAN	0.300	S. D.	0.000	LOW	0.300	HIGH	0.300					
WEIGHT	NUM	1	MEAN	0.454	S. D.	0.000	LOW	0.454	HIGH	0.454					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	1.410	0.110	0.850	0.600	0.000	0.090	0.270	3.85	0.240	0.000	0.000	0.230	0.890	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.410	0.110	0.850	0.600	0.000	0.090	0.270	3.85	0.240	0.000	0.000	0.230	0.890	0.220

SEATROUT, SILVER (WHITE) CYNOSCION NOTHUS 045010 AREA- GULF SITE- C7 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0007	0010	0009	0009	0010	0009	0010	0010	0010	0010	0010	0010	0010	0007
N DET.	0003	0000	0000	0001	0000	0003	0001	0000	0000	0000	0010	0008	0002	0001	0000
MEAN	0.069	0.230	0.077	2.335	0.926	0.021	0.159	0.208	3.76	0.146	0.000	0.125	0.127	0.643	0.702
S. D.	0.046	0.102	0.057	0.786	0.257	0.012	0.102	0.061	0.42	0.051	0.000	0.092	0.036	0.211	0.428
LOW	0.020	0.130	0.040	1.250	0.625	0.010	0.060	0.130	3.13	0.080	0.000	0.060	0.080	0.380	0.380
HIGH	0.140	0.440	0.200	3.250	1.500	0.040	0.380	0.300	4.69	0.230	0.000	0.190	0.190	1.000	1.600

SEATROUT, SILVER (WHITE) CYNOSCION NOTHUS 045010 AREA- GULF SITE- D4 MUSCLE

LENGTH	NUM	10	MEAN	0.265	S. D.	0.030	LOW	0.231	HIGH	0.315					
WEIGHT	NUM	10	MEAN	0.219	S. D.	0.071	LOW	0.143	HIGH	0.351					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0008	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0009	0010	0009
N DET.	0002	0000	0000	0001	0000	0002	0000	0000	0000	0000	0008	0010	0000	0000	0000
MEAN	0.046	0.378	0.088	2.467	0.624	0.024	0.124	0.222	4.36	0.156	0.165	0.000	0.124	0.625	0.473
S. D.	0.024	0.204	0.052	1.496	0.223	0.010	0.115	0.088	0.49	0.046	0.120	0.000	0.023	0.162	0.201
LOW	0.020	0.130	0.040	0.900	0.330	0.010	0.060	0.080	3.50	0.080	0.080	0.000	0.090	0.380	0.220
HIGH	0.090	0.810	0.180	6.000	0.980	0.035	0.380	0.380	5.19	0.230	0.250	0.000	0.160	0.880	0.880

SEATROUT, SILVER (WHITE) CYNOSCION NOTHUS 045010 AREA- GULF SITE- D5 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0011
N DET.	0002	0000	0000	0000	0000	0001	0000	0000	0000	0000	0008	0009	0000	0003	0000
MEAN	0.114	0.296	0.046	2.259	0.674	0.034	0.205	0.305	3.67	0.183	0.120	0.305	0.143	0.723	0.548
S. D.	0.026	0.116	0.018	2.029	0.201	0.017	0.213	0.120	1.30	0.095	0.062	0.235	0.065	0.216	0.304
LOW	0.060	0.130	0.020	0.390	0.300	0.010	0.060	0.060	0.88	0.080	0.050	0.090	0.030	0.310	0.030
HIGH	0.160	0.500	0.080	8.213	1.060	0.070	0.870	0.560	6.75	0.425	0.190	0.630	0.250	1.000	1.115

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

SEATROUT, SILVER (WHITE) CYNOSCION NOTHUS 045010 AREA- GULF SITE- D5 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.090	1.000	0.450	1.455	1.180	0.060	0.120	10.620	34.37	0.590	0.190	0.000	1.310	0.940	1.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.090	1.000	0.450	1.455	1.180	0.060	0.120	10.620	34.37	0.590	0.190	0.000	1.310	0.940	1.000

SEATROUT, SILVER (WHITE) CYNOSCION NOTHUS 045010 AREA- GULF SITE- D6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0007
N DET.	0005	0000	0000	0000	0000	0003	0001	0000	0000	0000	0009	0009	0002	0000	0000
MEAN	0.100	0.531	0.077	2.697	0.941	0.044	0.231	0.234	3.83	0.174	0.080	0.300	0.143	0.625	0.911
S. D.	0.079	0.486	0.037	1.304	0.224	0.054	0.206	0.041	0.42	0.074	0.000	0.000	0.077	0.177	1.043
LOW	0.020	0.130	0.030	0.750	0.500	0.010	0.060	0.190	3.13	0.090	0.000	0.000	0.090	0.440	0.380
HIGH	0.200	1.690	0.150	5.275	1.190	0.165	0.630	0.310	4.38	0.310	0.080	0.300	0.330	0.940	3.250

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- M9 MUSCLE

LENGTH	NUM	8	MEAN	0.182	S. D.	0.012	LOW	0.162	HIGH	0.203					
WEIGHT	NUM	8	MEAN	0.074	S. D.	0.009	LOW	0.064	HIGH	0.092					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0007	0008	0008	0008	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0007	0000
MEAN	0.049	0.471	0.071	2.041	0.542	0.036	0.146	0.284	5.10	0.234	0.000	0.000	0.178	0.410	0.494
S. D.	0.027	0.117	0.022	0.728	0.159	0.010	0.077	0.096	0.38	0.054	0.000	0.000	0.076	0.000	0.059
LOW	0.020	0.310	0.040	1.015	0.320	0.020	0.060	0.155	4.56	0.160	0.000	0.000	0.130	0.000	0.440
HIGH	0.090	0.625	0.110	3.050	0.783	0.055	0.285	0.390	5.62	0.310	0.000	0.000	0.355	0.410	0.630

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- N2 MUSCLE

LENGTH	NUM	10	MEAN	0.528	S. D.	0.042	LOW	0.458	HIGH	0.589					
WEIGHT	NUM	10	MEAN	1.380	S. D.	0.312	LOW	1.007	HIGH	1.841					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0001	0000	0000	0004	0001	0000	0000	0001	0005	0004	0000	0004	0000
MEAN	0.176	0.345	0.046	2.211	0.610	0.032	0.180	0.291	5.10	0.205	0.268	0.463	0.086	0.703	0.504
S. D.	0.067	0.135	0.015	1.227	0.141	0.021	0.068	0.115	2.42	0.113	0.238	0.143	0.026	0.099	0.119
LOW	0.110	0.140	0.030	0.495	0.400	0.010	0.085	0.170	2.19	0.070	0.030	0.280	0.040	0.590	0.400
HIGH	0.290	0.505	0.070	4.200	0.870	0.070	0.300	0.485	10.36	0.430	0.620	0.630	0.140	0.810	0.810

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- N2 LIVER

LENGTH	NUM	1	MEAN	0.528	S. D.	0.000	LOW	0.528	HIGH	0.528					
WEIGHT	NUM	1	MEAN	1.380	S. D.	0.000	LOW	1.380	HIGH	1.380					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.105	0.450	0.325	2.010	1.385	0.055	0.180	6.325	25.89	0.360	0.150	0.000	1.160	0.530	0.325
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.105	0.450	0.325	2.010	1.385	0.055	0.180	6.325	25.89	0.360	0.150	0.000	1.160	0.530	0.325

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- N7 MUSCLE

LENGTH	NUM	4	MEAN	0.270	S. D.	0.161	LOW	0.152	HIGH	0.500					
WEIGHT	NUM	3	MEAN	0.102	S. D.	0.082	LOW	0.055	HIGH	0.197					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0004	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0003	0000
MEAN	0.112	0.396	0.080	0.573	0.618	0.028	0.276	0.281	5.09	0.263	0.000	0.000	0.148	1.080	0.466
S. D.	0.098	0.112	0.008	0.248	0.059	0.005	0.222	0.104	1.21	0.113	0.000	0.000	0.083	0.000	0.183
LOW	0.050	0.310	0.070	0.250	0.550	0.020	0.120	0.190	3.72	0.120	0.000	0.000	0.060	0.000	0.305
HIGH	0.225	0.560	0.090	0.800	0.690	0.030	0.605	0.390	6.00	0.390	0.000	0.000	0.260	1.080	0.630

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- N7 LIVER

LENGTH	NUM	1	MEAN	0.500	S. D.	0.000	LOW	0.500	HIGH	0.500					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.500	0.190	0.000	0.000	0.050	0.060	6.880	26.88	0.400	0.000	0.000	0.400	0.690	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.500	0.190	0.000	0.000	0.050	0.060	6.880	26.88	0.400	0.000	0.000	0.400	0.690	0.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- R9 WHOLE

LENGTH	NUM	10	MEAN	0.154	S. D.	0.016	LOW	0.128	HIGH	0.185					
WEIGHT	NUM	9	MEAN	0.033	S. D.	0.007	LOW	0.026	HIGH	0.047					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.068	1.062	0.127	2.881	0.766	0.111	0.334	0.443	13.95	0.399	0.248	0.445	1.230	1.526	1.459
S. D.	0.074	0.180	0.024	0.656	0.163	0.018	0.067	0.059	1.37	0.092	0.064	0.095	0.270	0.451	0.238
LOW	0.020	0.860	0.105	2.150	0.515	0.065	0.250	0.330	12.53	0.260	0.120	0.295	0.820	0.630	1.095
HIGH	0.215	1.445	0.180	4.050	1.055	0.130	0.470	0.520	16.88	0.530	0.340	0.625	I.630	2.190	1.940

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- NORTH ATLANTIC SITE- R9 MUSCLE

LENGTH	NUM	30	MEAN	0.500	S. D.	0.047	LOW	0.382	HIGH	0.593					
WEIGHT	NUM	30	MEAN	1.149	S. D.	0.352	LOW	0.532	HIGH	1.784					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0030	0029	0030	0030	0029	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0019	0021	0000	0000	0000
MEAN	0.151	0.494	0.054	2.259	0.538	0.032	0.159	0.366	3.96	0.185	0.138	0.208	0.095	0.625	0.524
S. D.	0.047	0.243	0.019	1.373	0.180	0.017	0.124	0.100	0.96	0.046	0.088	0.211	0.037	0.182	0.203
LOW	0.070	0.125	0.030	0.350	0.080	0.010	0.060	0.185	2.25	0.090	0.060	0.060	0.050	0.220	0.160
HIGH	0.225	1.065	0.090	5.000	0.900	0.085	0.620	0.660	6.63	0.280	0.330	0.630	0.220	0.940	1.060

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- SOUTH ATLANTIC SITE- C2 MUSCLE

LENGTH	NUM	20	MEAN	0.346	S. D.	0.116	LOW	0.232	HIGH	0.459					
WEIGHT	NUM	20	MEAN	0.522	S. D.	0.397	LOW	0.135	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0003	0001	0000	0009	0000	0000	0000	0000	0014	0014	0000	0003	0000
MEAN	0.101	0.488	0.063	1.639	0.613	0.039	0.223	0.217	4.88	0.241	0.177	0.380	0.186	0.750	0.499
S. D.	0.050	0.221	0.028	0.829	0.213	0.036	0.127	0.076	1.12	0.098	0.093	0.216	0.081	0.337	0.299
LOW	0.020	0.173	0.030	0.150	0.225	0.010	0.055	0.080	2.72	0.070	0.060	0.150	0.105	0.355	0.180
HIGH	0.210	1.065	0.150	3.250	1.050	0.140	0.510	0.360	7.78	0.580	0.340	0.630	0.480	1.810	1.500

SEATROUT, GRAY (WEAKFISH) CYNOSCION REGALIS 045012 AREA- SOUTH ATLANTIC SITE- C2 LIVER

LENGTH	NUM	1	MEAN	0.459	S. D.	0.000	LOW	0.459	HIGH	0.459					
WEIGHT	NUM	1	MEAN	0.908	S. D.	0.000	LOW	0.908	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.020	0.250	0.190	1.965	1.420	0.030	0.060	3.440	13.25	0.200	0.130	0.060	1.310	0.470	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.250	0.190	1.965	1.420	0.030	0.060	3.440	13.25	0.200	0.130	0.060	1.310	0.470	0.310

DRUM, BANDED LARIMUS FASCIATUS 045019 AREA- NORTH ATLANTIC SITE- R9 MUSCLE

LENGTH	NUM	3	MEAN	0.147	S. D.	0.009	LOW	0.140	HIGH	0.158					
WEIGHT	NUM	3	MEAN	0.103	S. D.	0.019	LOW	0.086	HIGH	0.123					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0003	0000
MEAN	0.040	0.385	0.088	5.108	0.502	0.040	0.700	0.298	5.68	0.245	0.000	0.130	0.252	0.000	0.648
S. D.	0.000	0.101	0.028	1.210	0.104	0.009	0.447	0.252	0.50	0.030	0.000	0.000	0.013	0.000	0.099
LOW	0.000	0.310	0.070	4.000	0.425	0.030	0.315	0.020	5.25	0.210	0.000	0.000	0.240	0.000	0.560
HIGH	0.040	0.500	0.120	6.400	0.620	0.045	1.190	0.510	6.22	0.265	0.000	0.130	0.265	0.000	0.755

DRUM, BANDED LARIMUS FASCIATUS 045019 AREA- SOUTH ATLANTIC SITE- F6 MUSCLE

LENGTH	NUM	2	MEAN	0.158	S. D.	0.008	LOW	0.152	HIGH	0.163					
WEIGHT	NUM	2	MEAN	0.065	S. D.	0.008	LOW	0.059	HIGH	0.071					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.053	0.750	0.055	22.825	0.565	0.110	0.105	0.490	5.60	0.373	0.100	0.165	0.320	1.168	0.758
S. D.	0.046	0.075	0.021	18.137	0.021	0.000	0.049	0.064	0.67	0.258	0.000	0.049	0.127	0.117	0.308
LOW	0.020	0.697	0.040	10.000	0.550	0.000	0.070	0.445	5.12	0.190	0.000	0.130	0.230	1.085	0.540
HIGH	0.085	0.803	0.070	35.650	0.580	0.110	0.140	0.535	6.07	0.555	0.100	0.200	0.410	1.250	0.975

SPOT LEIOSTOMUS XANTHURUS 045020 AREA- NORTH ATLANTIC SITE- M9 MUSCLE

LENGTH	NUM	7	MEAN	0.159	S. D.	0.008	LOW	0.147	HIGH	0.170					
WEIGHT	NUM	7	MEAN	0.074	S. D.	0.009	LOW	0.065	HIGH	0.090					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007	0007
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0006	0000	0007	0000
MEAN	0.028	0.498	0.078	2.674	0.628	0.036	0.469	0.404	5.07	0.242	0.000	0.190	0.266	0.000	0.459
S. D.	0.015	0.201	0.018	2.149	0.155	0.011	0.190	0.085	0.39	0.074	0.000	0.000	0.043	0.000	0.148
LOW	0.020	0.345	0.060	0.500	0.380	0.020	0.250	0.230	4.63	0.110	0.000	0.000	0.180	0.000	0.310
HIGH	0.050	0.940	0.110	5.875	0.790	0.055	0.750	0.470	5.63	0.310	0.000	0.190	0.310	0.000	0.720

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- NORTH ATLANTIC — SITE- N1 — MUSCLE

LENGTH	NUM	1	MEAN	0.190	S. D.	0.000	LOW	0.190	HIGH	0.190					
WEIGHT	NUM	1	MEAN	0.106	S. D.	0.000	LOW	0.106	HIGH	0.106					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.020	0.565	0.055	2.875	1.310	0.045	0.100	0.380	6.03	0.215	0.000	0.250	0.400	0.535	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.565	0.055	2.875	1.310	0.045	0.100	0.380	6.03	0.215	0.000	0.250	0.400	0.535	0.560

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- NORTH ATLANTIC — SITE- N7 — MUSCLE

LENGTH	NUM	4	MEAN	0.153	S. D.	0.008	LOW	0.145	HIGH	0.163					
WEIGHT	NUM	4	MEAN	0.062	S. D.	0.012	LOW	0.050	HIGH	0.075					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0003	0000
MEAN	0.050	0.510	0.080	1.983	0.560	0.041	0.353	0.438	5.08	0.256	0.220	0.000	0.376	0.310	0.539
S. D.	0.000	0.202	0.016	0.806	0.229	0.013	0.162	0.114	0.20	0.046	0.127	0.000	0.075	0.000	0.047
LOW	0.000	0.370	0.060	0.870	0.310	0.030	0.190	0.310	4.84	0.200	0.130	0.000	0.295	0.000	0.500
HIGH	0.050	0.810	0.100	2.750	0.840	0.060	0.565	0.570	5.28	0.310	0.310	0.000	0.450	0.310	0.595

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	7	MEAN	0.163	S. D.	0.007	LOW	0.156	HIGH	0.173					
WEIGHT	NUM	7	MEAN	0.076	S. D.	0.008	LOW	0.065	HIGH	0.091					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.055	0.362	0.079	2.409	0.549	0.039	0.161	0.669	4.99	0.267	0.250	0.000	0.297	0.646	0.619
S. D.	0.057	0.089	0.022	1.234	0.263	0.006	0.080	0.403	1.43	0.090	0.000	0.000	0.082	0.206	0.130
LOW	0.020	0.250	0.055	0.530	0.100	0.030	0.060	0.285	3.00	0.130	0.000	0.000	0.190	0.405	0.440
HIGH	0.140	0.500	0.120	3.550	0.850	0.050	0.310	1.440	6.31	0.430	0.250	0.000	0.410	0.860	0.810

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- NORTH ATLANTIC — SITE- R8 — MUSCLE

LENGTH	NUM	10	MEAN	0.150	S. D.	0.000	LOW	0.150	HIGH	0.150					
WEIGHT	NUM	10	MEAN	0.084	S. D.	0.000	LOW	0.084	HIGH	0.084					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0004	0000	0000	0005	0000	0000	0000	0003	0008	0008	0001	0002	0000
MEAN	0.089	0.609	0.076	2.606	0.726	0.044	0.227	0.303	4.45	0.281	0.500	0.285	0.373	1.190	0.562
S. D.	0.030	0.168	0.041	1.074	0.229	0.009	0.134	0.071	0.81	0.127	0.523	0.120	0.104	0.460	0.206
LOW	0.067	0.370	0.040	0.500	0.410	0.040	0.040	0.180	3.21	0.160	0.130	0.200	0.220	0.450	0.350
HIGH	0.110	0.890	0.150	4.060	1.200	0.060	0.490	0.410	5.93	0.545	0.870	0.370	0.555	1.930	0.925

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	7	MEAN	0.190	S. D.	0.008	LOW	0.178	HIGH	0.202					
WEIGHT	NUM	7	MEAN	0.109	S. D.	0.012	LOW	0.093	HIGH	0.127					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0002	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0006	0000	0000	0000
MEAN	0.074	1.026	0.064	3.723	0.578	0.037	0.131	0.432	5.18	0.211	0.157	0.250	0.334	0.675	0.511
S. D.	0.050	0.697	0.014	1.325	0.284	0.010	0.072	0.052	0.58	0.042	0.035	0.000	0.096	0.239	0.104
LOW	0.020	0.480	0.045	1.960	0.030	0.030	0.060	0.380	4.40	0.130	0.120	0.000	0.160	0.440	0.345
HIGH	0.150	2.390	0.090	5.806	0.890	0.055	0.250	0.510	6.11	0.250	0.190	0.250	0.470	1.000	0.660

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- SOUTH ATLANTIC — SITE- B8 — MUSCLE

LENGTH	NUM	10	MEAN	0.156	S. D.	0.000	LOW	0.156	HIGH	0.156					
WEIGHT	NUM	10	MEAN	0.170	S. D.	0.000	LOW	0.170	HIGH	0.170					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0005	0001	0004	0000	0000	0004	0001	0000	0000	0003	0009	0010	0000	0003	0000
MEAN	0.032	0.541	0.095	6.708	0.542	0.040	0.205	0.473	5.27	0.437	0.220	0.000	0.277	0.807	0.425
S. D.	0.013	0.268	0.046	4.631	0.252	0.017	0.061	0.154	0.76	0.332	0.000	0.000	0.109	0.526	0.156
LOW	0.020	0.250	0.030	1.300	0.240	0.020	0.136	0.210	4.11	0.100	0.000	0.000	0.070	0.280	0.200
HIGH	0.050	1.050	0.150	16.720	1.030	0.070	0.315	0.670	6.43	1.000	0.220	0.000	0.395	1.830	0.780

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	2	MEAN	0.182	S. D.	0.004	LOW	0.179	HIGH	0.185					
WEIGHT	NUM	2	MEAN	0.118	S. D.	0.007	LOW	0.113	HIGH	0.123					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0001	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.020	0.238	0.070	6.800	0.793	0.040	0.110	0.520	6.10	0.500	0.000	0.200	0.413	1.670	0.445
S. D.	0.000	0.018	0.000	5.020	0.322	0.000	0.014	0.127	2.73	0.354	0.000	0.000	0.180	0.552	0.007
LOW	0.000	0.225	0.000	3.250	0.565	0.000	0.100	0.430	4.17	0.250	0.000	0.000	0.285	1.280	0.440
HIGH	0.020	0.250	0.070	10.350	1.020	0.040	0.120	0.610	8.03	0.750	0.000	0.200	0.540	2.060	0.450

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- SOUTH ATLANTIC — SITE- F3 — MUSCLE

LENGTH	NUM	2	MEAN	0.188	S. D.	0.002	LOW	0.186	HIGH	0.189					
WEIGHT	NUM	2	MEAN	0.104	S. D.	0.003	LOW	0.102	HIGH	0.106					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.063	0.438	0.065	7.696	1.062	0.050	0.105	0.595	5.71	0.195	0.505	0.700	0.258	1.065	1.013
S. D.	0.004	0.088	0.007	2.834	0.196	0.028	0.021	0.078	0.56	0.021	0.219	0.000	0.032	0.262	0.774
LOW	0.060	0.375	0.060	5.692	0.923	0.030	0.090	0.540	5.31	0.180	0.350	0.000	0.235	0.880	0.465
HIGH	0.065	0.500	0.070	9.700	1.200	0.070	0.120	0.650	6.10	0.210	0.660	0.700	0.280	1.250	1.560

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- SOUTH ATLANTIC — SITE- F6 — MUSCLE

LENGTH	NUM	2	MEAN	0.180	S. D.	0.001	LOW	0.179	HIGH	0.181					
WEIGHT	NUM	2	MEAN	0.100	S. D.	0.004	LOW	0.097	HIGH	0.103					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.028	0.459	0.040	11.193	0.723	0.000	0.235	0.417	4.40	0.293	0.000	0.000	0.313	1.625	0.675
S. D.	0.003	0.303	0.000	1.348	0.202	0.000	0.057	0.080	0.34	0.095	0.000	0.000	0.146	0.000	0.530
LOW	0.026	0.245	0.000	10.240	0.580	0.000	0.195	0.360	4.16	0.226	0.000	0.000	0.210	0.000	0.300
HIGH	0.030	0.673	0.040	12.146	0.866	0.000	0.275	0.473	4.64	0.360	0.000	0.000	0.416	1.625	1.050

SPOT — LEIOSTOMUS XANTHURUS — 045020 — AREA- SOUTH ATLANTIC — SITE- G5 — MUSCLE

LENGTH	NUM	2	MEAN	0.196	S. D.	0.001	LOW	0.195	HIGH	0.197					
WEIGHT	NUM	2	MEAN	0.110	S. D.	0.001	LOW	0.109	HIGH	0.111					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0001	0001	0001	0000	0002	0000
MEAN	0.170	0.545	0.070	6.240	0.950	0.070	0.153	0.555	5.36	0.610	0.180	0.180	0.340	0.000	0.565
S. D.	0.014	0.163	0.000	5.657	0.028	0.000	0.004	0.332	0.50	0.000	0.000	0.000	0.127	0.000	0.191
LOW	0.160	0.430	0.000	2.240	0.930	0.000	0.150	0.320	5.00	0.000	0.000	0.000	0.250	0.000	0.430
HIGH	0.180	0.660	0.070	10.240	0.970	0.070	0.155	0.790	5.71	0.610	0.180	0.180	0.430	0.000	0.700

KINGFISH, SOUTHERN — MENTICIRRHUS AMERICANUS — 045021 — AREA- GULF — SITE- B7 — MUSCLE

LENGTH	NUM	1	MEAN	0.193	S. D.	0.000	LOW	0.193	HIGH	0.193					
WEIGHT	NUM	1	MEAN	0.121	S. D.	0.000	LOW	0.121	HIGH	0.121					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.440	0.110	1.675	0.980	0.040	0.500	0.370	5.18	0.300	0.000	0.000	0.160	1.060	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.440	0.110	1.675	0.980	0.040	0.500	0.370	5.18	0.300	0.000	0.000	0.160	1.060	0.560

KINGFISH, SOUTHERN — MENTICIRRHUS AMERICANUS — 045021 — AREA- GULF — SITE- D5 — MUSCLE

LENGTH	NUM	1	MEAN	0.242	S. D.	0.000	LOW	0.242	HIGH	0.242					
WEIGHT	NUM	1	MEAN	0.237	S. D.	0.000	LOW	0.237	HIGH	0.237					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0012	0012	0013	0013	0013	0013	0013	0013	0012
N DET.	0001	0000	0000	0000	0000	0002	0000	0000	0000	0000	0009	0011	0000	0000	0000
MEAN	0.085	0.533	0.054	3.994	1.091	0.034	0.177	0.398	4.27	0.192	0.225	0.215	0.133	0.708	0.546
S. D.	0.083	0.289	0.023	1.066	0.316	0.011	0.127	0.149	1.22	0.068	0.182	0.219	0.062	0.318	0.202
LOW	0.020	0.130	0.020	2.706	0.650	0.010	0.060	0.090	1.19	0.105	0.060	0.060	0.030	0.295	0.250
HIGH	0.330	0.970	0.090	6.650	1.530	0.050	0.440	0.560	5.32	0.325	0.470	0.370	0.285	1.440	0.910

KINGFISH, SOUTHERN — MENTICIRRHUS AMERICANUS — 045021 — AREA- GULF — SITE- D5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.020	0.190	0.330	3.390	1.060	0.010	0.120	2.500	20.00	0.290	0.160	0.000	1.080	0.500	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.190	0.330	3.390	1.060	0.010	0.120	2.500	20.00	0.290	0.160	0.000	1.080	0.500	0.560

KINGFISH, NORTHERN — MENTICIRRHUS SAXATILIS — 045024 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	6	MEAN	0.204	S. D.	0.028	LOW	0.167	HIGH	0.245					
WEIGHT	NUM	6	MEAN	0.095	S. D.	0.043	LOW	0.047	HIGH	0.167					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0005
N DET.	0003	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.080	0.370	0.061	4.977	0.632	0.039	0.093	0.270	5.92	0.133	0.000	0.310	0.238	0.610	0.589
S. D.	0.085	0.104	0.016	1.195	0.164	0.002	0.037	0.086	0.68	0.033	0.000	0.000	0.090	0.080	0.170
LOW	0.020	0.250	0.035	3.766	0.400	0.035	0.060	0.110	5.31	0.090	0.000	0.000	0.110	0.530	0.440
HIGH	0.140	0.500	0.080	6.440	0.830	0.040	0.130	0.330	7.15	0.165	0.000	0.310	0.360	0.750	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

LOCATION LEVEL 5

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- NORTH ATLANTIC SITE- N8 MUSCLE

LENGTH	NUM	1	MEAN	0.244	S. D.	0.000	LOW	0.244	HIGH	0.244					
WEIGHT	NUM	1	MEAN	0.206	S. D.	0.000	LOW	0.206	HIGH	0.206					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.020	0.310	0.060	1.350	0.000	0.020	0.130	0.630	3.75	0.310	0.000	0.000	0.230	0.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.310	0.060	1.350	0.000	0.020	0.130	0.630	3.75	0.310	0.000	0.000	0.230	0.000	0.380

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- NORTH ATLANTIC SITE- O4 MUSCLE

LENGTH	NUM	3	MEAN	0.163	S. D.	0.045	LOW	0.114	HIGH	0.203					
WEIGHT	NUM	3	MEAN	0.084	S. D.	0.041	LOW	0.041	HIGH	0.123					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.048	0.450	0.070	5.393	1.008	0.048	0.197	0.593	3.93	0.312	0.250	0.265	0.345	0.857	0.715
S. D.	0.041	0.131	0.020	0.520	0.744	0.013	0.012	0.078	1.12	0.033	0.269	0.247	0.217	0.216	0.043
LOW	0.020	0.310	0.050	5.025	0.340	0.035	0.190	0.520	3.19	0.280	0.060	0.090	0.210	0.630	0.690
HIGH	0.095	0.570	0.090	5.760	1.810	0.060	0.210	0.675	5.22	0.345	0.440	0.440	0.595	1.060	0.765

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- NORTH ATLANTIC SITE- R3 MUSCLE

LENGTH	NUM	10	MEAN	0.241	S. D.	0.012	LOW	0.224	HIGH	0.257					
WEIGHT	NUM	10	MEAN	0.217	S. D.	0.012	LOW	0.199	HIGH	0.238					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0009	0000	0010	0000
MEAN	0.033	0.430	0.067	2.343	0.633	0.034	0.214	0.364	4.02	0.240	0.080	0.130	0.261	0.000	0.504
S. D.	0.015	0.109	0.018	1.207	0.276	0.009	0.139	0.056	0.40	0.063	0.000	0.000	0.063	0.000	0.146
LOW	0.020	0.310	0.030	0.100	0.020	0.020	0.060	0.295	3.44	0.120	0.000	0.000	0.170	0.000	0.380
HIGH	0.050	0.630	0.100	4.000	1.025	0.050	0.500	0.490	4.65	0.330	0.080	0.130	0.370	0.000	0.880

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- NORTH ATLANTIC SITE- R6 MUSCLE

LENGTH	NUM	9	MEAN	0.247	S. D.	0.014	LOW	0.228	HIGH	0.272					
WEIGHT	NUM	9	MEAN	0.209	S. D.	0.029	LOW	0.175	HIGH	0.267					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0008	0000	0004	0000
MEAN	0.083	0.391	0.100	1.382	0.486	0.044	0.162	0.741	3.72	0.276	0.100	0.750	0.294	0.556	0.658
S. D.	0.061	0.099	0.064	0.458	0.235	0.009	0.084	0.287	1.01	0.113	0.057	0.000	0.168	0.261	0.282
LOW	0.020	0.250	0.010	0.840	0.120	0.030	0.030	0.380	1.81	0.090	0.060	0.000	0.145	0.190	0.285
HIGH	0.220	0.500	0.210	2.133	0.745	0.060	0.250	1.190	5.06	0.450	0.140	0.750	0.530	0.810	1.220

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- NORTH ATLANTIC SITE- S7 MUSCLE

LENGTH	NUM	5	MEAN	0.200	S. D.	0.078	LOW	0.114	HIGH	0.263					
WEIGHT	NUM	5	MEAN	0.155	S. D.	0.105	LOW	0.041	HIGH	0.254					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0001	0001	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.130	0.551	0.118	4.424	0.716	0.049	0.159	0.419	4.02	0.308	0.303	0.290	0.413	1.053	0.789
S. D.	0.028	0.289	0.108	2.340	0.276	0.009	0.091	0.286	0.94	0.074	0.211	0.221	0.196	0.638	0.217
LOW	0.090	0.293	0.055	2.215	0.365	0.040	0.075	0.060	2.85	0.220	0.060	0.060	0.165	0.250	0.525
HIGH	0.155	0.940	0.310	8.000	1.040	0.060	0.310	0.810	5.40	0.415	0.440	0.500	0.690	1.810	1.015

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- NORTH ATLANTIC SITE- S8 MUSCLE

LENGTH	NUM	9	MEAN	0.233	S. D.	0.016	LOW	0.210	HIGH	0.254					
WEIGHT	NUM	9	MEAN	0.143	S. D.	0.028	LOW	0.101	HIGH	0.179					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0003	0000	0000	0000
MEAN	0.134	0.853	0.071	5.192	0.722	0.054	0.197	0.436	4.70	0.229	0.120	0.267	0.324	0.783	0.583
S. D.	0.059	0.363	0.013	1.175	0.123	0.015	0.082	0.066	0.35	0.061	0.000	0.092	0.084	0.215	0.150
LOW	0.030	0.570	0.050	3.550	0.450	0.040	0.120	0.375	4.27	0.140	0.120	0.190	0.200	0.560	0.380
HIGH	0.220	1.710	0.090	7.750	0.840	0.080	0.380	0.580	5.30	0.295	0.120	0.440	0.500	1.130	0.815

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- SOUTH ATLANTIC SITE- C2 MUSCLE

LENGTH	NUM	2	MEAN	0.242	S. D.	0.006	LOW	0.237	HIGH	0.246					
WEIGHT	NUM	2	MEAN	0.170	S. D.	0.016	LOW	0.159	HIGH	0.181					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0011	0011	0012	0012	0012	0012	0012	0011	0011	0012	0012	0011
N DET.	0004	0002	0004	0000	0000	0008	0002	0000	0000	0004	0009	0008	0000	0003	0000
MEAN	0.061	0.473	0.075	2.332	0.726	0.040	0.182	0.373	4.70	0.316	0.185	0.177	0.487	0.921	0.503
S. D.	0.051	0.131	0.061	1.352	0.211	0.024	0.058	0.220	1.05	0.245	0.233	0.090	0.277	0.620	0.177
LOW	0.010	0.266	0.010	0.400	0.380	0.010	0.090	0.160	3.20	0.085	0.020	0.120	0.210	0.295	0.200
HIGH	0.150	0.635	0.180	5.050	1.095	0.070	0.290	0.860	7.14	0.855	0.350	0.280	1.000	2.280	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- SOUTH ATLANTIC SITE- F6 MUSCLE

LENGTH	NUM	2	MEAN	0.168	S. D.	0.000	LOW	0.168	HIGH	0.168					
WEIGHT	NUM	2	MEAN	0.072	S. D.	0.000	LOW	0.072	HIGH	0.072					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.030	0.555	0.115	9.040	0.710	0.070	0.383	0.310	5.09	0.170	1.310	0.000	0.665	0.998	0.813
S. D.	0.000	0.325	0.092	0.820	0.127	0.000	0.180	0.212	0.88	0.085	0.000	0.000	0.177	0.774	0.442
LOW	0.000	0.325	0.050	8.460	0.620	0.000	0.255	0.160	4.47	0.110	0.000	0.000	0.540	0.450	0.500
HIGH	0.030	0.785	0.180	9.620	0.800	0.070	0.510	0.460	5.71	0.230	1.310	0.000	0.790	1.545	1.125

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- GULF SITE- B7 MUSCLE

LENGTH	NUM	8	MEAN	0.203	S. D.	0.067	LOW	0.155	HIGH	0.302					
WEIGHT	NUM	7	MEAN	0.141	S. D.	0.118	LOW	0.056	HIGH	0.355					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0008	0009	0008	0009	0009	0009	0009	0009	0008
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0007	0000	0000	0000
MEAN	0.090	0.689	0.097	3.307	0.865	0.037	0.141	0.262	4.45	0.208	0.190	0.248	0.342	0.826	0.611
S. D.	0.044	0.466	0.024	1.701	0.283	0.005	0.076	0.080	0.86	0.083	0.085	0.004	0.185	0.343	0.198
LOW	0.040	0.190	0.060	0.500	0.380	0.030	0.060	0.130	3.06	0.060	0.130	0.245	0.160	0.160	0.380
HIGH	0.120	1.660	0.130	6.250	1.360	0.040	0.250	0.360	6.16	0.340	0.250	0.250	0.705	1.250	0.875

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- GULF SITE- C9 MUSCLE

LENGTH	NUM	10	MEAN	0.350	S. D.	0.000	LOW	0.350	HIGH	0.350					
WEIGHT	NUM	10	MEAN	0.795	S. D.	0.000	LOW	0.795	HIGH	0.795					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0009	0000	0003	0000
MEAN	0.135	0.365	0.077	1.746	0.661	0.039	0.147	0.380	3.21	0.236	0.060	0.060	0.142	0.539	0.568
S. D.	0.043	0.106	0.024	1.070	0.276	0.008	0.061	0.091	0.74	0.091	0.000	0.000	0.072	0.194	0.153
LOW	0.070	0.250	0.050	0.360	0.120	0.025	0.060	0.250	1.88	0.080	0.000	0.000	0.090	0.310	0.380
HIGH	0.210	0.560	0.130	3.600	1.140	0.050	0.250	0.530	4.88	0.360	0.060	0.060	0.340	0.810	0.810

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- GULF SITE- E5 MUSCLE

LENGTH	NUM	10	MEAN	0.314	S. D.	0.016	LOW	0.291	HIGH	0.342					
WEIGHT	NUM	10	MEAN	0.425	S. D.	0.068	LOW	0.322	HIGH	0.540					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0009
N DET.	0003	0000	0002	0000	0000	0006	0000	0000	0000	0002	0005	0008	0001	0003	0000
MEAN	0.027	0.378	0.087	3.256	0.904	0.040	0.151	0.412	4.16	0.230	0.146	0.215	0.176	0.621	0.514
S. D.	0.014	0.154	0.049	1.509	0.177	0.008	0.081	0.099	0.93	0.147	0.130	0.092	0.085	0.217	0.125
LOW	0.010	0.216	0.040	0.975	0.586	0.030	0.040	0.250	2.50	0.085	0.060	0.150	0.080	0.400	0.350
HIGH	0.050	0.750	0.180	6.900	1.170	0.050	0.290	0.540	6.03	0.530	0.370	0.280	0.320	1.000	0.735

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- GULF SITE- E8 MUSCLE

LENGTH	NUM	10	MEAN	0.316	S. D.	0.010	LOW	0.297	HIGH	0.332					
WEIGHT	NUM	10	MEAN	0.449	S. D.	0.044	LOW	0.382	HIGH	0.511					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0009
N DET.	0009	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0008	0000	0000	0000
MEAN	0.020	0.445	0.093	3.687	1.092	0.032	0.233	0.421	4.29	0.177	0.190	0.430	0.136	0.581	0.480
S. D.	0.000	0.176	0.079	1.502	0.296	0.009	0.165	0.132	0.79	0.029	0.000	0.071	0.031	0.143	0.086
LOW	0.000	0.190	0.040	1.400	0.510	0.020	0.070	0.180	3.00	0.140	0.000	0.380	0.100	0.310	0.310
HIGH	0.020	0.750	0.310	6.500	1.485	0.050	0.560	0.590	6.06	0.240	0.190	0.480	0.210	0.850	0.630

CROAKER, ATL. MICROPOGON UNDULATUS 045026 AREA- GULF SITE- G5 MUSCLE

LENGTH	NUM	2	MEAN	0.385	S. D.	0.007	LOW	0.380	HIGH	0.390					
WEIGHT	NUM	2	MEAN	0.908	S. D.	0.000	LOW	0.908	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.035	0.565	0.060	2.891	0.958	0.040	0.118	0.378	3.64	0.235	0.000	0.000	0.178	0.000	0.408
S. D.	0.000	0.269	0.014	0.530	0.152	0.014	0.018	0.074	0.11	0.057	0.000	0.000	0.053	0.000	0.018
LOW	0.000	0.375	0.050	2.516	0.850	0.030	0.105	0.325	3.56	0.195	0.000	0.000	0.140	0.000	0.395
HIGH	0.035	0.755	0.070	3.266	1.065	0.050	0.130	0.430	3.72	0.275	0.000	0.000	0.215	0.000	0.420

DRUM, BLACK POGONIAS CROMIS 045028 AREA- GULF SITE- B8 MUSCLE

LENGTH	NUM	1	MEAN	0.315	S. D.	0.000	LOW	0.315	HIGH	0.315					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.500	0.110	2.900	1.045	0.030	0.130	0.330	4.75	0.240	0.000	0.000	0.120	0.940	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.500	0.110	2.900	1.045	0.030	0.130	0.330	4.75	0.240	0.000	0.000	0.120	0.940	0.310

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- D5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0010	0000	0000	0000
MEAN	0.070	0.426	0.066	2.475	0.724	0.029	0.296	0.305	4.04	0.192	0.220	0.000	0.257	0.635	0.424
S. D.	0.030	0.267	0.018	0.763	0.265	0.009	0.235	0.092	0.69	0.077	0.000	0.000	0.102	0.234	0.045
LOW	0.040	0.130	0.040	1.600	0.415	0.010	0.040	0.230	3.37	0.060	0.000	0.000	0.140	0.380	0.380
HIGH	0.100	1.095	0.100	4.000	1.210	0.040	0.810	0.520	5.63	0.350	0.220	0.000	0.430	1.190	0.520

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	10	MEAN	0.463	S. D.	0.146	LOW	0.360	HIGH	0.850					
WEIGHT	NUM	10	MEAN	1.746	S. D.	2.062	LOW	0.690	HIGH	7.500					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0010	0009	0009	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0009	0010	0000	0000	0000
MEAN	0.140	0.714	0.092	4.077	0.750	0.029	0.289	0.282	3.96	0.191	0.000	0.000	0.116	0.751	0.442
S. D.	0.183	0.740	0.051	2.480	0.328	0.005	0.159	0.062	0.59	0.061	0.000	0.000	0.030	0.238	0.136
LOW	0.040	0.310	0.040	1.250	0.360	0.020	0.130	0.140	2.63	0.110	0.000	0.000	0.080	0.380	0.190
HIGH	0.650	2.500	0.210	10.000	1.250	0.040	0.630	0.350	4.75	0.290	0.000	0.000	0.170	1.090	0.530

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- F7 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0001	0004	0000	0001	0000
MEAN	0.163	0.381	0.049	6.090	0.468	0.032	0.174	0.217	4.14	0.230	0.283	0.433	0.123	0.953	0.441
S. D.	0.069	0.178	0.021	2.911	0.161	0.006	0.103	0.089	1.24	0.095	0.254	0.323	0.037	0.132	0.094
LOW	0.050	0.220	0.010	2.332	0.295	0.025	0.077	0.100	2.06	0.060	0.060	0.060	0.070	0.780	0.325
HIGH	0.260	0.690	0.070	10.150	0.683	0.040	0.310	0.350	6.32	0.360	0.720	0.620	0.180	1.150	0.620

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- F7 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.120	0.810	0.440	4.200	1.740	0.040	0.190	31.250	25.00	0.160	0.160	0.000	1.250	1.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	0.810	0.440	4.200	1.740	0.040	0.190	31.250	25.00	0.160	0.160	0.000	1.250	1.000	0.380

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- G3 — MUSCLE

LENGTH	NUM	10	MEAN	0.501	S. D.	0.057	LOW	0.385	HIGH	0.570					
WEIGHT	NUM	10	MEAN	1.990	S. D.	0.579	LOW	1.134	HIGH	2.835					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0005	0000	0000	0006	0000	0001	0000	0002	0009	0008	0001	0004	0000
MEAN	0.096	0.617	0.055	2.625	1.164	0.031	0.202	0.232	4.31	0.193	0.150	0.258	0.115	0.588	0.571
S. D.	0.033	0.144	0.017	1.641	0.250	0.012	0.125	0.155	1.54	0.110	0.000	0.152	0.035	0.236	0.204
LOW	0.050	0.350	0.035	0.860	0.690	0.015	0.073	0.070	2.14	0.110	0.000	0.150	0.070	0.360	0.310
HIGH	0.140	0.820	0.070	5.500	1.520	0.040	0.500	0.570	7.50	0.430	0.150	0.365	0.180	1.000	1.000

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	5	MEAN	0.534	S. D.	0.156	LOW	0.350	HIGH	0.770					
WEIGHT	NUM	5	MEAN	3.059	S. D.	2.293	LOW	0.795	HIGH	6.895					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0005	0005	0000	0004	0000
MEAN	0.103	0.437	0.065	4.857	1.235	0.029	0.114	0.253	3.48	0.271	0.000	0.000	0.154	0.060	0.585
S. D.	0.050	0.236	0.005	2.480	0.223	0.004	0.052	0.119	0.58	0.036	0.000	0.000	0.038	0.000	0.111
LOW	0.050	0.190	0.060	0.895	0.990	0.025	0.075	0.090	2.72	0.220	0.000	0.000	0.090	0.000	0.440
HIGH	0.180	0.805	0.070	7.375	1.510	0.035	0.190	0.390	4.28	0.310	0.000	0.000	0.190	0.060	0.735

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- L2 — MUSCLE

LENGTH	NUM	1	MEAN	0.252	S. D.	0.000	LOW	0.252	HIGH	0.252					
WEIGHT	NUM	1	MEAN	0.415	S. D.	0.000	LOW	0.415	HIGH	0.415					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	1.212	0.025	2.070	0.245	0.040	0.643	0.626	6.60	0.180	0.060	0.630	0.206	1.586	1.625
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.212	0.025	2.070	0.245	0.040	0.643	0.626	6.60	0.180	0.060	0.630	0.206	1.586	1.625

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	7	MEAN	0.427	S. D.	0.071	LOW	0.362	HIGH	0.539					
WEIGHT	NUM	7	MEAN	2.051	S. D.	1.276	LOW	0.232	HIGH	4.102					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0002	0000	0000	0002	0001	0000	0000	0000	0002	0006	0001	0001	0000
MEAN	0.068	0.392	0.069	12.459	0.606	0.036	0.199	0.292	5.12	0.256	0.340	0.120	0.127	0.672	0.557
S. D.	0.055	0.258	0.018	5.912	0.236	0.023	0.103	0.081	1.14	0.171	0.260	0.000	0.073	0.373	0.170
LOW	0.020	0.160	0.050	0.533	0.250	0.010	0.090	0.185	3.25	0.020	0.110	0.000	0.045	0.130	0.380
HIGH	0.160	0.825	0.090	17.750	0.955	0.070	0.365	0.425	7.14	0.540	0.720	0.120	0.250	1.060	0.810

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- L5 — LIVER

LENGTH	NUM	1	MEAN	0.397	S. D.	0.000	LOW	0.397	HIGH	0.397					
WEIGHT	NUM	1	MEAN	1.904	S. D.	0.000	LOW	1.904	HIGH	1.904					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.050	0.130	0.400	4.825	1.375	0.080	0.140	4.830	26.05	0.300	0.050	0.210	0.640	1.650	0.650
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.130	0.400	4.825	1.375	0.080	0.140	4.830	26.05	0.300	0.050	0.210	0.640	1.650	0.650

DRUM, BLACK — POGONIAS CROMIS — 045028 — AREA- GULF — SITE- L8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0010	0000	0000	0000
MEAN	0.096	0.458	0.073	3.790	0.652	0.032	0.224	0.336	3.76	0.189	0.120	0.000	0.131	0.647	0.499
S. D.	0.035	0.190	0.025	1.654	0.509	0.007	0.111	0.165	1.30	0.065	0.000	0.000	0.047	0.217	0.085
LOW	0.040	0.190	0.040	0.600	0.265	0.020	0.110	0.150	1.88	0.110	0.000	0.000	0.080	0.310	0.405
HIGH	0.170	0.750	0.120	6.500	2.025	0.040	0.380	0.690	5.87	0.340	0.120	0.000	0.210	0.940	0.690

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	10	MEAN	0.354	S. D.	0.000	LOW	0.354	HIGH	0.354					
WEIGHT	NUM	10	MEAN	0.590	S. D.	0.000	LOW	0.590	HIGH	0.590					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0002	0002	0000	0000	0005	0001	0000	0000	0001	0008	0008	0000	0003	0000
MEAN	0.066	0.479	0.063	2.462	0.585	0.033	0.177	0.303	4.32	0.233	0.785	0.130	0.226	0.587	0.484
S. D.	0.023	0.254	0.019	1.972	0.310	0.018	0.081	0.089	0.93	0.100	0.092	0.099	0.120	0.234	0.088
LOW	0.030	0.060	0.030	0.150	0.040	0.010	0.096	0.165	2.06	0.040	0.720	0.060	0.040	0.400	0.350
HIGH	0.100	0.946	0.085	6.000	0.980	0.055	0.293	0.500	5.65	0.370	0.850	0.200	0.430	1.000	0.630

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	10	MEAN	0.441	S. D.	0.082	LOW	0.360	HIGH	0.580					
WEIGHT	NUM	10	MEAN	1.166	S. D.	0.562	LOW	0.720	HIGH	2.180					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0001	0000	0000	0000	0000	0003	0000	0000	0000	0000	0010	0009	0000	0000	0000
MEAN	0.085	0.321	0.065	6.771	0.521	0.031	0.120	0.264	4.26	0.160	0.000	0.470	0.198	0.600	0.902
S. D.	0.069	0.112	0.016	4.274	0.103	0.011	0.050	0.050	0.67	0.055	0.000	0.000	0.089	0.199	1.085
LOW	0.030	0.190	0.040	1.900	0.380	0.010	0.060	0.160	2.75	0.080	0.000	0.000	0.060	0.160	0.310
HIGH	0.220	0.560	0.090	14.500	0.700	0.040	0.190	0.320	5.44	0.245	0.000	0.470	0.350	0.940	3.760

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	1	MEAN	0.442	S. D.	0.000	LOW	0.442	HIGH	0.442					
WEIGHT	NUM	1	MEAN	1.166	S. D.	0.000	LOW	1.166	HIGH	1.166					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.050	0.440	0.090	5.325	2.430	0.030	0.060	6.250	25.50	0.440	0.190	0.000	0.760	0.440	0.360
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.440	0.090	5.325	2.430	0.030	0.060	6.250	25.50	0.440	0.190	0.000	0.760	0.440	0.360

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	2	MEAN	0.319	S. D.	0.001	LOW	0.318	HIGH	0.320					
WEIGHT	NUM	2	MEAN	0.624	S. D.	0.402	LOW	0.340	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.075	0.530	0.080	3.025	0.705	0.025	0.130	0.210	3.00	0.180	0.000	0.000	0.155	0.685	0.285
S. D.	0.035	0.396	0.014	0.990	0.226	0.007	0.000	0.071	0.98	0.057	0.000	0.000	0.021	0.177	0.134
LOW	0.050	0.250	0.070	2.325	0.545	0.020	0.000	0.160	2.31	0.140	0.000	0.000	0.140	0.560	0.190
HIGH	0.100	0.810	0.090	3.725	0.865	0.030	0.130	0.260	3.69	0.220	0.000	0.000	0.170	0.810	0.380

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- C9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0007	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0010	0010	0000	0001	0000
MEAN	0.413	0.406	0.083	4.168	0.610	0.020	0.162	0.314	3.69	0.142	0.000	0.000	0.095	0.587	0.415
S. D.	0.241	0.189	0.042	2.362	0.168	0.012	0.101	0.037	0.73	0.065	0.000	0.000.	0.024	0.194	0.180
LOW	0.150	0.130	0.040	1.750	0.300	0.010	0.060	0.250	1.88	0.070	0.000	0.000	0.050	0.310	0.030
HIGH	0.800	0.690	0.190	8.000	0.900	0.040	0.310	0.380	4.44	0.270	0.000	0.000	0.130	0.940	0.560

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- G3 — MUSCLE

LENGTH	NUM	11	MEAN	0.615	S. D.	0.065	LOW	0.500	HIGH	0.710					
WEIGHT	NUM	11	MEAN	2.758	S. D.	0.989	LOW	1.531	HIGH	4.763					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0011	0012	0012	0012	0012	0012
N DET.	0000	0000	0005	0001	0000	0006	0001	0001	0000	0001	0012	0009	0000	0003	0000
MEAN	0.215	0.477	0.061	2.037	0.830	0.091	0.188	0.188	4.27	0.309	0.000	0.100	0.179	0.788	0.633
S. D.	0.052	0.215	0.042	0.723	0.208	0.079	0.092	0.086	1.30	0.205	0.000	0.030	0.136	0.381	0.354
LOW	0.145	0.150	0.020	0.800	0.580	0.020	0.070	0.070	2.46	0.105	0.000	0.070	0.030	0.370	0.300
HIGH	0.310	0.740	0.140	2.800	1.245	0.190	0.330	0.320	6.71	0.680	0.000	0.130	0.540	1.500	1.450

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- G3 — LIVER

LENGTH	NUM	1	MEAN	0.627	S. D.	0.000	LOW	0.627	HIGH	0.627					
WEIGHT	NUM	1	MEAN	2.880	S. D.	0.000	LOW	2.880	HIGH	2.880					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.240	0.630	2.260	1.400	1.880	0.010	0.150	12.690	15.75	0.370	0.310	0.000	1.080	0.870	0.590
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.240	0.630	2.260	1.400	1.880	0.010	0.150	12.690	15.75	0.370	0.310	0.000	1.080	0.870	0.590

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	6	MEAN	0.601	S. D.	0.025	LOW	0.560	HIGH	0.630					
WEIGHT	NUM	6	MEAN	2.459	S. D.	0.371	LOW	1.929	HIGH	2.951					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0004	0000	0006	0000
MEAN	0.096	0.329	0.061	3.436	0.624	0.030	0.195	0.276	3.61	0.236	0.000	0.235	0.163	0.000	0.518
S. D.	0.038	0.143	0.009	1.202	0.262	0.009	0.101	0.110	0.25	0.025	0.000	0.064	0.033	0.000	0.088
LOW	0.050	0.130	0.050	2.050	0.210	0.020	0.095	0.150	3.13	0.210	0.000	0.190	0.120	0.000	0.380
HIGH	0.155	0.470	0.070	4.816	1.010	0.045	0.380	0.425	3.81	0.280	0.000	0.280	0.200	0.000	0.610

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	3	MEAN	0.254	S. D.	0.020	LOW	0.234	HIGH	0.273					
WEIGHT	NUM	3	MEAN	0.213	S. D.	0.037	LOW	0.176	HIGH	0.250					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0003	0002	0000	0001	0000
MEAN	0.108	0.517	0.065	4.985	0.687	0.035	0.226	0.242	4.75	0.393	0.000	1.130	0.302	1.678	0.897
S. D.	0.060	0.127	0.035	1.830	0.307	0.007	0.125	0.010	0.96	0.143	0.000	0.000	0.228	0.350	0.612
LOW	0.050	0.370	0.040	2.900	0.480	0.030	0.125	0.230	3.96	0.250	0.000	0.000	0.160	1.430	0.490
HIGH	0.170	0.590	0.090	6.325	1.040	0.040	0.366	0.250	5.82	0.535	0.000	1.130	0.565	1.925	1.600

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- L8 — MUSCLE

LENGTH	NUM	8	MEAN	0.636	S. D.	0.054	LOW	0.570	HIGH	0.730					
WEIGHT	NUM	8	MEAN	3.103	S. D.	0.774	LOW	2.140	HIGH	4.360					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM. PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0007	0008	0008	0007	0008	0008	0008	0008	0008	0008	0007
N DET.	0000	0000	0002	0000	0000	0005	0001	0000	0000	0001	0007	0006	0000	0004	0000
MEAN	0.146	0.670	0.083	6.624	0.384	0.060	0.165	0.339	4.76	0.229	0.060	0.280	0.144	0.771	0.646
S. D.	0.093	0.487	0.025	3.653	0.188	0.026	0.045	0.157	0.54	0.090	0.000	0.311	0.066	0.271	0.441
LOW	0.020	0.190	0.060	3.300	0.175	0.030	0.110	0.040	3.93	0.070	0.000	0.060	0.080	0.500	0.350
HIGH	0.280	1.630	0.120	13.250	0.630	0.080	0.250	0.540	5.71	0.370	0.060	0.500	0.290	1.060	1.600

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- L8 — LIVER

LENGTH	NUM	1	MEAN	0.636	S. D.	0.000	LOW	0.636	HIGH	0.636					
WEIGHT	NUM	1	MEAN	3.103	S. D.	0.000	LOW	3.103	HIGH	3.103					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0001	0000	0000	0000
MEAN	0.230	0.560	0.180	0.000	0.000	0.040	0.190	0.000	0.00	0.690	0.310	0.000	0.590	0.530	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.230	0.560	0.180	0.000	0.000	0.040	0.190	0.000	0.00	0.690	0.310	0.000	0.590	0.530	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DRUM, RED — SCIAENOPS OCELLATA — 045030 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.092	0.323	0.048	2.892	0.679	0.038	0.138	0.290	3.48	0.165	0.237	0.120	0.119	0.720	0.552
S. D.	0.052	0.086	0.021	1.791	0.380	0.020	0.106	0.109	0.49	0.046	0.314	0.118	0.067	0.207	0.263
LOW	0.030	0.190	0.020	0.500	0.320	0.020	0.060	0.060	2.24	0.100	0.060	0.060	0.030	0.340	0.280
HIGH	0.200	0.465	0.105	6.093	1.600	0.080	0.440	0.430	4.01	0.280	0.870	0.330	0.260	1.060	1.040

EEL, CONGER — CONGER OCEANICUS — 047002 — AREA- NORTH ATLANTIC — SITE- D2 — MUSCLE

LENGTH	NUM	1	MEAN	0.730	S. D.	0.000	LOW	0.730	HIGH	0.730				
WEIGHT	NUM	1	MEAN	0.840	S. D.	0.000	LOW	0.840	HIGH	0.840				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.035	0.255	0.055	8.833	0.625	0.030	0.190	0.235	6.41	0.165	0.000	0.000	0.225	0.000	0.365
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.035	0.255	0.055	8.833	0.625	0.030	0.190	0.235	6.41	0.165	0.000	0.000	0.225	0.000	0.365

EEL, AMERICAN — ANGUILLA ROSTRATA — 051001 — AREA- NORTH ATLANTIC — SITE- R5 — MUSCLE

LENGTH	NUM	15	MEAN	0.520	S. D.	0.060	LOW	0.458	HIGH	0.646				
WEIGHT	NUM	19	MEAN	0.276	S. D.	0.111	LOW	0.145	HIGH	0.541				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0018
N DET.	0000	0001	0004	0000	0000	0004	0001	0000	0000	0003	0017	0014	0000	0005	0000
MEAN	0.189	0.413	0.068	1.595	0.473	0.062	0.196	0.249	15.19	0.212	0.153	0.404	0.384	0.527	0.563
S. D.	0.096	0.341	0.038	0.913	0.448	0.114	0.145	0.087	4.93	0.092	0.188	0.236	0.186	0.316	0.196
LOW	0.020	0.120	0.010	0.150	0.060	0.010	0.060	0.105	4.50	0.060	0.030	0.150	0.160	0.250	0.300
HIGH	0.365	1.603	0.140	3.620	2.130	0.480	0.630	0.460	25.00	0.430	0.370	0.800	0.960	1.265	1.130

EEL, AMERICAN — ANGUILLA ROSTRATA — 051001 — AREA- NORTH ATLANTIC — SITE- R8 — MUSCLE

LENGTH	NUM	10	MEAN	0.590	S. D.	0.073	LOW	0.501	HIGH	0.740				
WEIGHT	NUM	10	MEAN	0.517	S. D.	0.272	LOW	0.272	HIGH	1.170				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0010	0009	0000	0004	0000
MEAN	0.255	0.413	0.076	1.626	0.308	0.032	0.222	0.186	14.60	0.210	0.000	0.630	0.264	0.458	0.603
S. D.	0.194	0.239	0.036	1.131	0.157	0.007	0.126	0.087	2.26	0.066	0.000	0.000	0.110	0.226	0.241
LOW	0.040	0.190	0.040	0.450	0.060	0.020	0.090	0.060	10.97	0.080	0.000	0.000	0.165	0.060	0.380
HIGH	0.670	0.780	0.160	3.880	0.530	0.040	0.500	0.295	18.13	0.325	0.000	0.630	0.530	0.720	1.130

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- I5 — MUSCLE

LENGTH	NUM	1	MEAN	0.463	S. D.	0.000	LOW	0.463	HIGH	0.463				
WEIGHT	NUM	1	MEAN	0.471	S. D.	0.000	LOW	0.471	HIGH	0.471				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.345	0.060	2.440	0.300	0.045	0.155	0.290	8.75	0.225	0.000	0.000	0.205	0.470	0.565
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.345	0.060	2.440	0.300	0.045	0.155	0.290	8.75	0.225	0.000	0.000	0.205	0.470	0.565

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	0.675	S. D.	0.000	LOW	0.675	HIGH	0.675				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.500	0.060	2.700	0.510	0.040	0.120	0.870	9.44	0.180	0.000	0.000	0.060	1.100	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.500	0.060	2.700	0.510	0.040	0.120	0.870	9.44	0.180	0.000	0.000	0.060	1.100	0.000

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- I7 — LIVER

LENGTH	NUM	1	MEAN	0.675	S. D.	0.000	LOW	0.675	HIGH	0.675				
WEIGHT	NUM	1	MEAN	0.587	S. D.	0.000	LOW	0.587	HIGH	0.587				

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.000	0.440	0.650	0.000	0.000	0.080	0.290	3.920	24.61	0.270	0.000	0.000	0.850	0.000	0.300
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.440	0.650	0.000	0.000	0.080	0.290	3.920	24.61	0.270	0.000	0.000	0.850	0.000	0.300

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- I9 — MUSCLE

LENGTH	NUM	11	MEAN	0.727	S. D.	0.155	LOW	0.347	HIGH	0.870					
WEIGHT	NUM	8	MEAN	1.873	S. D.	0.964	LOW	0.186	HIGH	2.921					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0010	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0010	0000	0001	0000
MEAN	0.109	0.257	0.067	2.971	0.522	0.032	0.204	0.297	8.61	0.215	0.060	0.130	0.125	0.666	0.563
S. D.	0.052	0.132	0.027	1.088	0.310	0.011	0.180	0.127	3.30	0.089	0.000	0.000	0.066	0.163	0.122
LOW	0.052	0.130	0.030	0.710	0.100	0.010	0.040	0.040	4.50	0.110	0.000	0.000	0.070	0.410	0.360
HIGH	0.200	0.560	0.120	5.170	1.130	0.050	0.650	0.475	14.40	0.395	0.060	0.130	0.305	0.940	0.750

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- I9 — LIVER

LENGTH	NUM	1	MEAN	0.793	S. D.	0.000	LOW	0.793	HIGH	0.793					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.380	1.630	5.050	1.750	0.080	0.380	4.500	20.63	0.250	0.250	0.440	0.600	0.560	1.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	1.630	5.050	1.750	0.080	0.380	4.500	20.63	0.250	0.250	0.440	0.600	0.560	1.750

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	1	MEAN	0.585	S. D.	0.000	LOW	0.585	HIGH	0.585					
WEIGHT	NUM	1	MEAN	0.944	S. D.	0.000	LOW	0.944	HIGH	0.944					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.380	0.080	2.725	0.700	0.030	0.060	0.630	12.50	0.230	0.000	0.000	0.110	0.780	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	0.080	2.725	0.700	0.030	0.060	0.630	12.50	0.230	0.000	0.000	0.110	0.780	0.630

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- J9 — MUSCLE

LENGTH	NUM	1	MEAN	0.540	S. D.	0.000	LOW	0.540	HIGH	0.540					
WEIGHT	NUM	1	MEAN	0.830	S. D.	0.000	LOW	0.830	HIGH	0.830					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.040	0.480	0.090	6.750	0.490	0.000	0.130	0.220	11.88	0.180	0.000	0.000	0.140	0.750	1.090
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.480	0.090	6.750	0.490	0.000	0.130	0.220	11.88	0.180	0.000	0.000	0.140	0.750	1.090

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	11	MEAN	0.547	S. D.	0.101	LOW	0.378	HIGH	0.720					
WEIGHT	NUM	11	MEAN	1.015	S. D.	0.426	LOW	0.336	HIGH	1.861					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0011	0000	0009	0000
MEAN	0.139	0.368	0.097	1.915	0.515	0.033	0.155	0.282	10.04	0.230	0.310	0.000	0.115	0.375	0.529
S. D.	0.045	0.268	0.056	0.585	0.160	0.010	0.062	0.109	2.29	0.056	0.000	0.000	0.037	0.177	0.179
LOW	0.070	0.190	0.055	0.970	0.260	0.020	0.060	0.125	6.75	0.145	0.000	0.000	0.060	0.250	0.345
HIGH	0.220	1.130	0.250	2.830	0.780	0.050	0.250	0.500	15.38	0.370	0.310	0.000	0.190	0.500	1.000

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	5	MEAN	0.552	S. D.	0.038	LOW	0.514	HIGH	0.605					
WEIGHT	NUM	5	MEAN	1.067	S. D.	0.259	LOW	0.694	HIGH	1.328					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.131	0.476	0.052	3.563	0.834	0.039	0.115	0.383	12.00	0.212	0.055	0.175	0.105	0.687	0.411
S. D.	0.081	0.140	0.016	1.193	0.266	0.019	0.031	0.065	1.74	0.036	0.023	0.021	0.005	0.178	0.132
LOW	0.060	0.285	0.035	2.483	0.606	0.020	0.080	0.315	10.78	0.170	0.030	0.160	0.100	0.485	0.220
HIGH	0.225	0.655	0.070	5.183	1.120	0.070	0.160	0.490	15.00	0.240	0.075	0.190	0.110	0.940	0.565

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	3	MEAN	0.685	S. D.	0.035	LOW	0.660	HIGH	0.725					
WEIGHT	NUM	3	MEAN	1.143	S. D.	0.210	LOW	0.967	HIGH	1.376					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	0.030	0.252	0.037	3.139	0.997	0.035	0.228	0.197	14.23	0.240	0.110	0.000	0.067	0.528	0.615
S. D.	0.000	0.107	0.008	1.234	0.111	0.009	0.123	0.115	5.42	0.045	0.071	0.000	0.042	0.151	0.118
LOW	0.000	0.190	0.030	2.000	0.905	0.025	0.155	0.130	9.25	0.195	0.060	0.000	0.020	0.390	0.530
HIGH	0.030	0.375	0.045	4.450	1.120	0.040	0.370	0.330	20.00	0.285	0.160	0.000	0.100	0.690	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

POUT, OCEAN — MACROZOARCES AMERICANUS — 056018 — AREA- NORTH ATLANTIC — SITE- P1 — LIVER

LENGTH	NUM	1	MEAN	0.685	S. D.	0.000	LOW	0.685	HIGH	0.685					
WEIGHT	NUM	1	MEAN	1.143	S. D.	0.000	LOW	1.143	HIGH	1.143					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.560	0.710	4.675	1.700	0.030	0.120	0.870	13.75	0.290	0.000	0.000	0.690	0.500	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.560	0.710	4.675	1.700	0.030	0.120	0.870	13.75	0.290	0.000	0.000	0.690	0.500	0.690

FLOUNDER, GULF — PARALICHTHYS ALBIGUTTA — 058024 — AREA- GULF — SITE- D5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	18	MEAN	0.858	S. D.	0.379	LOW	0.446	HIGH	1.638					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0020	0020	0018	0019	0020	0020	0019	0019	0020	0020	0020	0019	0020	0020
N DET.	0005	0000	0003	0000	0000	0004	0001	0000	0000	0000	0016	0017	0000	0001	0000
MEAN	0.101	0.468	0.063	2.910	0.723	0.027	0.185	0.186	4.00	0.193	0.229	0.170	0.233	0.786	0.480
S. D.	0.091	0.309	0.022	1.591	0.323	0.014	0.129	0.061	1.08	0.092	0.111	0.125	0.064	0.275	0.112
LOW	0.020	0.150	0.010	0.755	0.380	0.010	0.075	0.085	2.21	0.030	0.100	0.070	0.125	0.380	0.310
HIGH	0.370	1.250	0.090	7.000	1.720	0.060	0.560	0.330	7.25	0.395	0.370	0.310	0.370	1.400	0.690

FLOUNDER, GULF — PARALICHTHYS ALBIGUTTA — 058024 — AREA- GULF — SITE- D5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	1.194	S. D.	0.000	LOW	1.194	HIGH	1.194					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.090	0.100	0.180	2.150	0.850	0.070	1.650	12.500	98.90	0.500	0.000	0.000	1.460	1.100	0.350
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.090	0.100	0.180	2.150	0.850	0.070	1.650	12.500	98.90	0.500	0.000	0.000	1.460	1.100	0.350

FLOUNDER, GULF — PARALICHTHYS ALBIGUTTA — 058024 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.378	S. D.	0.078	LOW	0.280	HIGH	0.570					
WEIGHT	NUM	20	MEAN	0.775	S. D.	0.529	LOW	0.246	HIGH	2.350					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0018	0017	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0001	0001	0000	0000	0004	0000	0000	0000	0000	0017	0016	0000	0002	0000
MEAN	0.222	0.423	0.062	3.412	0.902	0.029	0.203	0.214	3.82	0.203	0.260	0.228	0.145	0.723	0.505
S. D.	0.104	0.281	0.029	1.445	0.290	0.010	0.187	0.123	1.10	0.086	0.121	0.266	0.050	0.206	0.173
LOW	0.020	0.190	0.020	0.500	0.280	0.010	0.050	0.060	1.40	0.040	0.130	0.060	0.070	0.400	0.050
HIGH	0.480	1.310	0.140	6.000	1.400	0.045	0.890	0.580	6.06	0.410	0.370	0.620	0.230	1.250	1.000

FLOUNDER, GULF — PARALICHTHYS ALBIGUTTA — 058024 — AREA- GULF — SITE- H2 — MUSCLE

LENGTH	NUM	1	MEAN	0.356	S. D.	0.000	LOW	0.356	HIGH	0.356					
WEIGHT	NUM	1	MEAN	0.605	S. D.	0.000	LOW	0.605	HIGH	0.605					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0001	0001	0001	0000	0000	0000
MEAN	0.285	0.250	0.000	5.190	0.540	0.040	0.175	0.105	3.43	0.000	0.000	0.000	0.680	2.380	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.285	0.250	0.000	5.190	0.540	0.040	0.175	0.105	3.43	0.000	0.000	0.000	0.680	2.380	0.400

FLOUNDER, SUMMER (FLUKE) — PARALICHTHYS DENTATUS — 058026 — AREA- SOUTH ATLANTIC — SITE- B5 — MUSCLE

LENGTH	NUM	10	MEAN	0.408	S. D.	0.080	LOW	0.318	HIGH	0.568					
WEIGHT	NUM	10	MEAN	0.819	S. D.	0.611	LOW	0.255	HIGH	2.041					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0002	0004	0000	0000	0005	0001	0000	0000	0004	0007	0007	0000	0004	0000
MEAN	0.208	0.452	0.058	10.332	0.801	0.034	0.159	0.248	4.34	0.200	0.253	0.327	0.156	0.783	0.460
S. D.	0.089	0.316	0.025	3.868	0.222	0.013	0.061	0.181	1.05	0.080	0.225	0.264	0.080	0.303	0.088
LOW	0.075	0.130	0.030	5.333	0.565	0.010	0.055	0.110	2.67	0.090	0.030	0.150	0.080	0.410	0.300
HIGH	0.380	1.125	0.100	16.800	1.330	0.040	0.275	0.750	6.07	0.320	0.480	0.630	0.305	1.250	0.595

FLOUNDER, SUMMER (FLUKE) — PARALICHTHYS DENTATUS — 058026 — AREA- SOUTH ATLANTIC — SITE- B5 — LIVER

LENGTH	NUM	1	MEAN	0.370	S. D.	0.000	LOW	0.370	HIGH	0.370					
WEIGHT	NUM	1	MEAN	0.521	S. D.	0.000	LOW	0.521	HIGH	0.521					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.110	0.500	0.390	1.550	0.000	0.060	0.130	32.500	44.38	0.610	0.250	0.130	0.760	0.630	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.110	0.500	0.390	1.550	0.000	0.060	0.130	32.500	44.38	0.610	0.250	0.130	0.760	0.630	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

FLOUNDER, SUMMER (FLUKE) PARALICHTHYS DENTATUS 058026 AREA- SOUTH ATLANTIC SITE- C2 MUSCLE

LENGTH	NUM	20	MEAN	0.368	S. D.	0.069	LOW	0.302	HIGH	0.456					
WEIGHT	NUM	20	MEAN	0.759	S. D.	0.407	LOW	0.369	HIGH	1.362					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0019	0019	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0006	0000	0003	0000	0000	0002	0001	0001	0000	0002	0014	0015	0000	0004	0000
MEAN	0.119	0.493	0.075	4.370	0.649	0.034	0.177	0.290	4.77	0.212	0.162	0.261	0.314	0.827	0.513
S. D.	0.054	0.276	0.042	2.633	0.248	0.025	0.074	0.347	0.98	0.147	0.106	0.156	0.194	0.454	0.153
LOW	0.030	0.190	0.020	0.480	0.275	0.010	0.060	0.060	2.78	0.040	0.080	0.100	0.070	0.380	0.030
HIGH	0.225	1.193	0.180	10.100	1.070	0.095	0.325	1.620	6.35	0.610	0.360	0.500	0.750	2.100	0.710

FLOUNDER, SUMMER (FLUKE) PARALICHTHYS DENTATUS 058026 AREA- SOUTH ATLANTIC SITE- C2 LIVER

LENGTH	NUM	1	MEAN	0.430	S. D.	0.000	LOW	0.430	HIGH	0.430					
WEIGHT	NUM	1	MEAN	1.106	S. D.	0.000	LOW	1.106	HIGH	1.106					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.000	0.340	4.500	1.120	0.030	0.690	3.500	139.06	0.210	0.000	0.000	0.940	0.810	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.000	0.340	4.500	1.120	0.030	0.690	3.500	139.06	0.210	0.000	0.000	0.940	0.810	0.380

FLOUNDER, SUMMER (FLUKE) PARALICHTHYS DENTATUS 058026 AREA- SOUTH ATLANTIC SITE- J4 MUSCLE

LENGTH	NUM	7	MEAN	0.346	S. D.	0.064	LOW	0.281	HIGH	0.450					
WEIGHT	NUM	6	MEAN	0.774	S. D.	0.456	LOW	0.445	HIGH	1.361					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0001	0005	0000	0000	0006	0001	0001	0000	0001	0009	0009	0000	0005	0000
MEAN	0.156	0.542	0.100	5.355	0.715	0.068	0.227	0.222	5.09	0.262	0.390	0.457	0.255	0.798	0.466
S. D.	0.080	0.466	0.062	4.391	0.258	0.056	0.177	0.106	1.31	0.131	0.312	0.341	0.138	0.590	0.133
LOW	0.030	0.185	0.040	0.700	0.180	0.020	0.135	0.135	3.12	0.040	0.100	0.100	0.110	0.360	0.315
HIGH	0.330	1.750	0.190	14.060	1.020	0.140	0.750	0.530	7.51	0.430	0.720	0.780	0.610	2.050	0.750

FLOUNDER, SOUTHERN PARALICHTHYS LETHOSTIGMA 058027 AREA- SOUTH ATLANTIC SITE- F3 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0001	0000	0002	0000	0000	0005	0000	0000	0000	0002	0010	0009	0000	0005	0000
MEAN	0.092	0.370	0.060	5.694	0.920	0.034	0.198	0.205	3.95	0.210	0.300	0.400	0.260	0.804	0.573
S. D.	0.036	0.218	0.029	1.702	0.590	0.015	0.130	0.087	0.73	0.084	0.365	0.251	0.086	0.515	0.261
LOW	0.050	0.100	0.030	3.310	0.390	0.010	0.050	0.070	2.94	0.080	0.060	0.040	0.110	0.440	0.200
HIGH	0.170	0.880	0.135	8.500	2.610	0.060	0.530	0.345	5.39	0.320	0.720	0.620	0.410	1.830	1.115

FLOUNDER, SOUTHERN PARALICHTHYS LETHOSTIGMA 058027 AREA- SOUTH ATLANTIC SITE- F3 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.120	0.090	3.122	0.620	0.040	0.160	26.430	62.50	0.030	0.370	0.620	0.710	0.870	0.620
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.120	0.090	3.122	0.620	0.040	0.160	26.430	62.50	0.030	0.370	0.620	0.710	0.870	0.620

FLOUNDER, SOUTHERN PARALICHTHYS LETHOSTIGMA 058027 AREA- SOUTH ATLANTIC SITE- G7 MUSCLE

LENGTH	NUM	10	MEAN	0.404	S. D.	0.012	LOW	0.375	HIGH	0.413					
WEIGHT	NUM	10	MEAN	0.731	S. D.	0.074	LOW	0.593	HIGH	0.870					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0001	0000
MEAN	0.095	0.357	0.078	3.228	0.908	0.042	0.165	0.253	3.73	0.226	0.190	0.470	0.129	0.599	0.534
S. D.	0.067	0.136	0.039	1.784	0.234	0.015	0.076	0.108	0.99	0.078	0.085	0.552	0.030	0.171	0.205
LOW	0.020	0.130	0.045	0.960	0.390	0.020	0.080	0.120	2.59	0.130	0.130	0.080	0.085	0.280	0.345
HIGH	0.180	0.565	0.180	6.150	1.140	0.075	0.310	0.415	5.34	0.360	0.250	0.860	0.180	0.880	0.985

FLOUNDER, SOUTHERN PARALICHTHYS LETHOSTIGMA 058027 AREA- GULF SITE- B8 MUSCLE

LENGTH	NUM	4	MEAN	0.392	S. D.	0.110	LOW	0.236	HIGH	0.500					
WEIGHT	NUM	3	MEAN	0.983	S. D.	0.065	LOW	0.908	HIGH	1.021					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.067	0.674	0.086	2.839	0.764	0.125	0.199	0.218	5.15	0.234	0.160	0.330	0.727	0.941	0.544
S. D.	0.064	0.221	0.029	0.857	0.159	0.177	0.156	0.020	0.57	0.036	0.000	0.000	0.584	0.241	0.236
LOW	0.020	0.440	0.055	1.805	0.660	0.020	0.060	0.200	4.38	0.200	0.000	0.000	0.190	0.735	0.310
HIGH	0.140	0.940	0.120	3.650	1.000	0.390	0.396	0.245	5.75	0.270	0.160	0.330	1.305	1.280	0.800

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

FLOUNDER, SOUTHERN — PARALICHTHYS LETHOSTIGMA — 058027 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	15	MEAN	0.415	S. D.	0.077	LOW	0.318	HIGH	0.520					
WEIGHT	NUM	14	MEAN	1.130	S. D.	0.646	LOW	0.426	HIGH	2.043					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0014	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0014	0014	0000	0011	0000
MEAN	0.105	0.451	0.065	4.156	1.075	0.026	0.204	0.226	3.45	0.208	0.380	0.250	0.207	0.610	0.502
S. D.	0.096	0.116	0.034	2.336	0.396	0.011	0.103	0.092	0.49	0.077	0.000	0.000	0.068	0.107	0.194
LOW	0.040	0.315	0.040	1.166	0.610	0.010	0.095	0.050	2.97	0.080	0.000	0.000	0.110	0.500	0.030
HIGH	0.430	0.630	0.180	10.615	2.090	0.050	0.390	0.410	4.94	0.310	0.380	0.250	0.400	0.750	0.840

FLOUNDER, SOUTHERN — PARALICHTHYS LETHOSTIGMA — 058027 — AREA- GULF — SITE- G5 — LIVER

LENGTH	NUM	1	MEAN	0.335	S. D.	0.000	LOW	0.335	HIGH	0.335					
WEIGHT	NUM	1	MEAN	0.525	S. D.	0.000	LOW	0.525	HIGH	0.525					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.540	0.160	0.000	0.000	0.020	0.540	15.220	92.39	0.210	0.000	0.000	0.890	0.760	0.870
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.540	0.160	0.000	0.000	0.020	0.540	15.220	92.39	0.210	0.000	0.000	0.890	0.760	0.870

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	2	MEAN	0.262	S. D.	0.011	LOW	0.254	HIGH	0.269					
WEIGHT	NUM	2	MEAN	0.147	S. D.	0.015	LOW	0.136	HIGH	0.157					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.055	0.190	0.050	2.235	0.425	0.025	0.150	0.440	2.03	0.185	0.000	0.000	0.365	0.440	0.660
S. D.	0.049	0.000	0.042	0.431	0.177	0.007	0.000	0.184	0.66	0.106	0.000	0.000	0.106	0.000	0.042
LOW	0.020	0.190	0.020	1.930	0.300	0.020	0.000	0.310	1.56	0.110	0.000	0.000	0.290	0.000	0.630
HIGH	0.090	0.190	0.080	2.540	0.550	0.030	0.150	0.570	2.50	0.260	0.000	0.000	0.440	0.440	0.690

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	2	MEAN	0.237	S. D.	0.039	LOW	0.209	HIGH	0.264					
WEIGHT	NUM	2	MEAN	0.112	S. D.	0.035	LOW	0.087	HIGH	0.137					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.053	0.435	0.060	6.113	0.603	0.038	0.060	0.258	3.70	0.225	0.000	0.190	0.223	0.738	0.440
S. D.	0.018	0.007	0.000	0.654	0.039	0.004	0.000	0.032	0.86	0.078	0.000	0.000	0.081	0.329	0.000
LOW	0.040	0.430	0.060	5.650	0.575	0.035	0.060	0.235	3.09	0.170	0.000	0.000	0.165	0.505	0.440
HIGH	0.065	0.440	0.060	6.575	0.630	0.040	0.060	0.280	4.31	0.280	0.000	0.190	0.280	0.970	0.440

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- N5 — MUSCLE

LENGTH	NUM	5	MEAN	0.246	S. D.	0.018	LOW	0.228	HIGH	0.273					
WEIGHT	NUM	5	MEAN	0.104	S. D.	0.020	LOW	0.079	HIGH	0.129					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0002	0000
MEAN	0.143	0.448	0.078	6.657	0.503	0.035	0.261	0.220	3.45	0.216	0.000	0.000	0.213	0.597	0.526
S. D.	0.103	0.194	0.034	2.137	0.133	0.006	0.210	0.080	0.41	0.045	0.000	0.000	0.040	0.311	0.142
LOW	0.055	0.230	0.046	3.160	0.315	0.025	0.130	0.080	3.16	0.170	0.000	0.000	0.150	0.250	0.410
HIGH	0.260	0.750	0.135	8.600	0.650	0.040	0.630	0.270	4.06	0.285	0.000	0.000	0.250	0.850	0.766

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- N6 — MUSCLE

LENGTH	NUM	6	MEAN	0.225	S. D.	0.018	LOW	0.205	HIGH	0.244					
WEIGHT	NUM	6	MEAN	0.080	S. D.	0.017	LOW	0.062	HIGH	0.102					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0006	0000	0002	0000
MEAN	0.109	0.476	0.103	4.485	0.523	0.044	0.185	0.322	3.48	0.221	0.000	0.000	0.251	0.518	0.575
S. D.	0.083	0.217	0.062	2.488	0.288	0.012	0.044	0.113	0.66	0.061	0.000	0.000	0.034	0.177	0.207
LOW	0.040	0.250	0.050	1.070	0.120	0.030	0.130	0.235	2.25	0.130	0.000	0.000	0.190	0.380	0.280
HIGH	0.250	0.880	0.220	8.375	0.830	0.060	0.250	0.525	4.08	0.310	0.000	0.000	0.290	0.750	0.810

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- N7 — MUSCLE

LENGTH	NUM	3	MEAN	0.273	S. D.	0.049	LOW	0.243	HIGH	0.330					
WEIGHT	NUM	3	MEAN	0.179	S. D.	0.103	LOW	0.119	HIGH	0.298					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.145	0.303	0.075	5.447	0.471	0.038	0.195	0.327	3.69	0.170	0.000	0.000	0.210	0.713	0.583
S. D.	0.177	0.080	0.035	2.217	0.136	0.003	0.190	0.194	0.57	0.040	0.000	0.000	0.053	0.359	0.318
LOW	0.020	0.220	0.050	3.050	0.385	0.035	0.050	0.200	3.28	0.140	0.000	0.000	0.155	0.310	0.220
HIGH	0.270	0.380	0.115	7.425	0.627	0.040	0.410	0.550	4.34	0.215	0.000	0.000	0.260	1.000	0.810

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- N8 — MUSCLE

LENGTH	NUM	4	MEAN	0.235	S. D.	0.035	LOW	0.211	HIGH	0.286					
WEIGHT	NUM	4	MEAN	0.114	S. D.	0.057	LOW	0.071	HIGH	0.196					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.118	0.346	0.058	6.289	0.784	0.033	0.150	0.305	4.25	0.229	0.000	0.000	0.194	0.314	0.415
S. D.	0.131	0.132	0.010	2.485	0.428	0.013	0.092	0.124	2.00	0.075	0.000	0.000	0.073	0.237	0.090
LOW	0.020	0.160	0.045	3.375	0.350	0.020	0.070	0.180	2.44	0.140	0.000	0.000	0.110	0.060	0.300
HIGH	0.310	0.440	0.070	9.175	1.370	0.050	0.250	0.470	6.98	0.320	0.000	0.000	0.285	0.630	0.500

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- O1 — MUSCLE

LENGTH	NUM	18	MEAN	0.291	S. D.	0.053	LOW	0.228	HIGH	0.420					
WEIGHT	NUM	18	MEAN	0.219	S. D.	0.147	LOW	0.090	HIGH	0.579					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0016	0018	0018	0018	0018	0018	0018	0018	0018	0018	0018	0018	0018	0017
N DET.	0002	0000	0000	0000	0000	0004	0002	0000	0000	0000	0016	0017	0000	0003	0000
MEAN	0.108	0.335	0.079	9.323	0.518	0.035	0.256	0.315	3.92	0.231	0.250	0.250	0.200	0.574	0.493
S. D.	0.082	0.160	0.046	6.593	0.249	0.011	0.214	0.177	2.23	0.158	0.184	0.000	0.107	0.224	0.169
LOW	0.040	0.060	0.020	0.470	0.080	0.020	0.030	0.060	0.94	0.060	0.120	0.000	0.070	0.190	0.190
HIGH	0.350	0.630	0.180	27.000	1.015	0.060	0.810	0.750	10.31	0.750	0.380	0.250	0.500	0.940	0.810

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- O2 — MUSCLE

LENGTH	NUM	19	MEAN	0.263	S. D.	0.040	LOW	0.187	HIGH	0.395					
WEIGHT	NUM	19	MEAN	0.158	S. D.	0.092	LOW	0.079	HIGH	0.512					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0018	0019	0018	0018	0019	0018	0019	0019	0019	0018	0018	0019	0019	0018
N DET.	0003	0000	0000	0000	0000	0001	0000	0000	0000	0000	0018	0016	0000	0015	0000
MEAN	0.103	0.366	0.081	3.901	0.401	0.039	0.301	0.251	3.80	0.208	0.000	0.295	0.209	0.491	0.440
S. D.	0.052	0.222	0.034	1.850	0.223	0.015	0.255	0.105	1.20	0.058	0.000	0.021	0.067	0.268	0.112
LOW	0.040	0.130	0.040	1.340	0.060	0.010	0.060	0.080	1.63	0.090	0.000	0.280	0.080	0.120	0.190
HIGH	0.230	1.000	0.180	7.525	0.870	0.070	0.940	0.495	7.75	0.330	0.000	0.310	0.395	0.750	0.690

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- O3 — MUSCLE

LENGTH	NUM	4	MEAN	0.309	S. D.	0.070	LOW	0.265	HIGH	0.413					
WEIGHT	NUM	4	MEAN	0.259	S. D.	0.211	LOW	0.140	HIGH	0.575					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.055	0.290	0.064	3.923	0.471	0.041	0.168	0.365	3.96	0.240	0.000	0.000	0.216	0.730	0.698
S. D.	0.049	0.177	0.015	1.326	0.231	0.023	0.080	0.102	1.61	0.110	0.000	0.000	0.077	0.279	0.168
LOW	0.020	0.130	0.050	2.875	0.140	0.010	0.050	0.280	1.88	0.130	0.000	0.000	0.110	0.380	0.500
HIGH	0.090	0.530	0.085	5.740	0.650	0.065	0.230	0.510	5.25	0.380	0.000	0.000	0.285	0.970	0.910

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	6	MEAN	0.275	S. D.	0.014	LOW	0.255	HIGH	0.293					
WEIGHT	NUM	6	MEAN	0.128	S. D.	0.022	LOW	0.109	HIGH	0.166					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0002	0000	0000	0000
MEAN	0.093	0.416	0.053	5.915	0.446	0.032	0.152	0.229	3.17	0.239	0.000	0.335	0.219	0.475	0.502
S. D.	0.103	0.172	0.021	1.824	0.183	0.014	0.100	0.077	0.94	0.107	0.000	0.182	0.051	0.239	0.180
LOW	0.020	0.250	0.030	4.381	0.210	0.010	0.060	0.125	2.31	0.150	0.000	0.090	0.140	0.060	0.250
HIGH	0.270	0.655	0.090	9.025	0.670	0.045	0.315	0.300	4.69	0.440	0.000	0.500	0.290	0.690	0.755

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- S1 — MUSCLE

LENGTH	NUM	1	MEAN	0.177	S. D.	0.000	LOW	0.177	HIGH	0.177					
WEIGHT	NUM	1	MEAN	0.046	S. D.	0.000	LOW	0.046	HIGH	0.046					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.110	0.560	0.090	1.780	1.100	0.070	0.190	0.460	6.63	0.380	0.190	0.310	0.390	0.000	0.970
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.110	0.560	0.090	1.780	1.100	0.070	0.190	0.460	6.63	0.380	0.190	0.310	0.390	0.000	0.970

FLOUNDER, FOURSPOT — PARALICHTHYS OBLONGUS — 058028 — AREA- NORTH ATLANTIC — SITE- S4 — MUSCLE

LENGTH	NUM	1	MEAN	0.237	S. D.	0.000	LOW	0.237	HIGH	0.237					
WEIGHT	NUM	1	MEAN	0.098	S. D.	0.000	LOW	0.098	HIGH	0.098					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.080	0.365	0.040	7.200	0.550	0.040	0.225	0.155	3.98	0.140	0.000	0.000	0.450	0.600	0.405
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.080	0.365	0.040	7.200	0.550	0.040	0.225	0.155	3.98	0.140	0.000	0.000	0.450	0.600	0.405

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- I8 MUSCLE

LENGTH	NUM	2	MEAN	0.202	S. D.	0.040	LOW	0.173	HIGH	0.230					
WEIGHT	NUM	2	MEAN	0.179	S. D.	0.099	LOW	0.109	HIGH	0.249					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.020	0.345	0.070	3.088	0.905	0.035	0.155	0.450	6.22	0.290	0.000	0.250	0.230	0.705	0.675
S. D.	0.000	0.219	0.014	0.088	0.502	0.007	0.134	0.226	0.40	0.071	0.000	0.000	0.141	0.559	0.332
LOW	0.000	0.190	0.060	3.025	0.550	0.030	0.060	0.290	5.94	0.240	0.000	0.000	0.130	0.310	0.440
HIGH	0.020	0.500	0.080	3.150	1.260	0.040	0.250	0.610	6.50	0.340	0.000	0.250	0.330	1.100	0.910

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- N2 MUSCLE

LENGTH	NUM	4	MEAN	0.229	S. D.	0.064	LOW	0.150	HIGH	0.300					
WEIGHT	NUM	4	MEAN	0.227	S. D.	0.113	LOW	0.087	HIGH	0.363					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.140	0.558	0.080	5.810	0.679	0.033	0.137	0.271	6.45	0.350	0.000	0.000	0.290	0.718	0.414
S. D.	0.124	0.313	0.014	4.100	0.093	0.006	0.080	0.067	0.23	0.276	0.000	0.000	0.094	0.162	0.112
LOW	0.020	0.190	0.070	3.125	0.600	0.030	0.060	0.200	6.25	0.160	0.000	0.000	0.200	0.500	0.310
HIGH	0.290	0.940	0.100	11.900	0.805	0.040	0.220	0.355	6.69	0.760	0.000	0.000	0.390	0.850	0.560

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	1	MEAN	0.267	S. D.	0.000	LOW	0.267	HIGH	0.267					
WEIGHT	NUM	1	MEAN	0.225	S. D.	0.000	LOW	0.225	HIGH	0.225					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.165	0.500	0.125	2.246	0.460	0.090	0.075	0.310	4.12	0.385	0.000	0.750	0.405	0.380	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.165	0.500	0.125	2.246	0.460	0.090	0.075	0.310	4.12	0.385	0.000	0.750	0.405	0.380	0.690

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- N5 MUSCLE

LENGTH	NUM	7	MEAN	0.221	S. D.	0.053	LOW	0.150	HIGH	0.278					
WEIGHT	NUM	7	MEAN	0.163	S. D.	0.068	LOW	0.088	HIGH	0.250					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0005	0007	0007	0007	0007	0007	0007	0007	0006
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0007	0000	0002	0000
MEAN	0.090	0.568	0.058	3.149	0.574	0.038	0.170	0.326	4.50	0.190	0.130	0.000	0.251	0.512	0.484
S. D.	0.046	0.340	0.017	1.289	0.113	0.014	0.163	0.205	1.93	0.078	0.000	0.000	0.156	0.274	0.147
LOW	0.030	0.190	0.030	1.000	0.410	0.020	0.040	0.110	2.00	0.080	0.000	0.000	0.110	0.300	0.310
HIGH	0.160	1.250	0.075	4.525	0.740	0.060	0.440	0.750	7.13	0.295	0.130	0.000	0.580	0.940	0.705

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- N7 MUSCLE

LENGTH	NUM	1	MEAN	0.265	S. D.	0.000	LOW	0.265	HIGH	0.265					
WEIGHT	NUM	1	MEAN	0.257	S. D.	0.000	LOW	0.257	HIGH	0.257					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.340	1.130	0.110	3.480	0.900	0.010	0.060	0.330	7.63	0.280	0.000	0.000	0.190	0.750	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.340	1.130	0.110	3.480	0.900	0.010	0.060	0.330	7.63	0.280	0.000	0.000	0.190	0.750	0.380

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- O1 MUSCLE

LENGTH	NUM	2	MEAN	0.307	S. D.	0.023	LOW	0.291	HIGH	0.323					
WEIGHT	NUM	2	MEAN	0.326	S. D.	0.073	LOW	0.274	HIGH	0.377					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.113	0.393	0.063	6.205	0.608	0.043	0.143	0.333	6.89	0.243	0.000	0.000	0.290	0.740	0.473
S. D.	0.103	0.067	0.004	0.078	0.223	0.004	0.067	0.004	1.13	0.025	0.000	0.000	0.028	0.156	0.046
LOW	0.040	0.345	0.060	6.150	0.450	0.040	0.095	0.330	6.09	0.225	0.000	0.000	0.270	0.630	0.440
HIGH	0.185	0.440	0.065	6.260	0.765	0.045	0.190	0.335	7.69	0.260	0.000	0.000	0.310	0.850	0.505

FLOUNDER, WINDOWPANE (S. DAB) SCOPHTHALMUS AQUOSUS 058030 AREA- NORTH ATLANTIC SITE- P2 MUSCLE

LENGTH	NUM	1	MEAN	0.329	S. D.	0.000	LOW	0.329	HIGH	0.329					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0001	0001	0000	0000	0001	0001	0000	0000	0001	0000	0001	0000	0001	0000
MEAN	0.040	0.000	0.000	14.360	0.500	0.000	0.000	0.180	5.79	0.000	0.075	0.000	0.180	0.000	0.250
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.000	0.000	14.360	0.500	0.000	0.000	0.180	5.79	0.000	0.075	0.000	0.180	0.000	0.250

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- CALIFORNIA — SITE- F4 — MUSCLE

LENGTH	NUM	10	MEAN	0.396	S. D.	0.040	LOW	0.340	HIGH	0.450					
WEIGHT	NUM	10	MEAN	0.687	S. D.	0.263	LOW	0.420	HIGH	1.120					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0006	0003	0000	0001	0000
MEAN	0.175	0.669	0.105	2.367	0.503	0.076	0.128	0.516	3.71	0.374	0.188	0.293	0.153	0.966	0.820
S. D.	0.259	0.301	0.031	1.529	0.258	0.033	0.071	0.199	0.82	0.126	0.255	0.174	0.058	0.437	0.359
LOW	0.020	0.240	0.070	0.850	0.190	0.030	0.050	0.130	2.13	0.210	0.060	0.090	0.030	0.250	0.380
HIGH	0.880	1.100	0.170	4.975	0.930	0.140	0.240	0.820	4.91	0.590	0.570	0.620	0.250	1.630	1.370

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- CALIFORNIA — SITE- F4 — LIVER

LENGTH	NUM	1	MEAN	0.389	S. D.	0.000	LOW	0.389	HIGH	0.389					
WEIGHT	NUM	1	MEAN	0.612	S. D.	0.000	LOW	0.612	HIGH	0.612					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.000	0.300	1.430	0.000	0.000	0.000	0.250	13.570	57.14	0.250	0.180	0.000	1.320	0.000	0.550
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.300	1.430	0.000	0.000	0.000	0.250	13.570	57.14	0.250	0.180	0.000	1.320	0.000	0.550

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- CALIFORNIA — SITE- F8 — MUSCLE

LENGTH	NUM	10	MEAN	0.382	S. D.	0.034	LOW	0.320	HIGH	0.450					
WEIGHT	NUM	10	MEAN	0.742	S. D.	0.263	LOW	0.480	HIGH	1.280					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0009	0009	0010	0009	0009
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.062	0.523	0.079	2.627	0.613	0.039	0.154	0.256	3.54	0.223	0.060	0.188	0.105	0.576	0.606
S. D.	0.029	0.386	0.030	0.552	0.152	0.006	0.098	0.144	0.47	0.073	0.000	0.113	0.023	0.224	0.265
LOW	0.025	0.160	0.040	1.933	0.370	0.030	0.040	0.070	2.81	0.140	0.060	0.060	0.080	0.130	0.220
HIGH	0.110	1.440	0.140	3.505	0.875	0.050	0.320	0.595	4.25	0.390	0.060	0.310	0.160	0.845	1.190

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- CALIFORNIA — SITE- F8 — LIVER

LENGTH	NUM	1	MEAN	0.377	S. D.	0.000	LOW	0.377	HIGH	0.377					
WEIGHT	NUM	1	MEAN	0.690	S. D.	0.000	LOW	0.690	HIGH	0.690					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.130	1.360	5.100	1.600	0.030	0.130	1.250	29.38	0.190	0.160	0.000	0.640	0.440	0.780
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.130	1.360	5.100	1.600	0.030	0.130	1.250	29.38	0.190	0.160	0.000	0.640	0.440	0.780

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- H7 — MUSCLE

LENGTH	NUM	11	MEAN	0.383	S. D.	0.032	LOW	0.360	HIGH	0.445					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0010	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0006	0000	0004	0000	0000	0008	0000	0000	0000	0001	0009	0009	0000	0001	0000
MEAN	0.347	0.433	0.056	7.277	0.663	0.037	0.165	0.213	4.62	0.335	0.608	0.135	0.163	0.829	0.339
S. D.	0.701	0.244	0.046	2.383	0.183	0.006	0.098	0.094	0.94	0.143	0.725	0.021	0.032	0.641	0.109
LOW	0.010	0.200	0.030	3.000	0.400	0.030	0.060	0.110	3.92	0.110	0.095	0.120	0.110	0.310	0.200
HIGH	1.600	1.000	0.160	10.650	0.925	0.040	0.390	0.360	6.43	0.570	1.120	0.150	0.210	2.460	0.500

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- H7 — LIVER

LENGTH	NUM	2	MEAN	0.400	S. D.	0.042	LOW	0.370	HIGH	0.430					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0002	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.000	0.470	0.360	5.995	1.650	0.000	0.223	4.515	35.27	0.350	0.120	0.200	0.655	0.190	0.155
S. D.	0.000	0.240	0.042	1.068	0.240	0.000	0.011	4.872	4.93	0.099	0.000	0.000	0.021	0.000	0.035
LOW	0.000	0.300	0.330	5.240	1.480	0.000	0.215	1.070	31.78	0.280	0.000	0.000	0.640	0.000	0.130
HIGH	0.000	0.640	0.390	6.750	1.820	0.000	0.230	7.960	38.75	0.420	0.120	0.200	0.670	0.190	0.180

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- H8 — MUSCLE

LENGTH	NUM	10	MEAN	0.380	S. D.	0.000	LOW	0.380	HIGH	0.380					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0002	0000	0000	0002	0002	0000	0000	0002	0004	0007	0001	0002	0000
MEAN	0.036	0.537	0.061	5.906	0.539	0.038	0.160	0.223	4.34	0.227	0.138	0.663	0.158	0.656	0.611
S. D.	0.023	0.237	0.035	4.754	0.157	0.014	0.056	0.089	0.75	0.118	0.120	0.525	0.031	0.447	0.175
LOW	0.010	0.280	0.030	0.450	0.355	0.020	0.090	0.070	3.40	0.135	0.035	0.060	0.110	0.090	0.350
HIGH	0.080	0.960	0.110	17.100	0.830	0.060	0.250	0.330	5.41	0.440	0.300	1.020	0.200	1.260	0.850

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- H8 — LIVER

LENGTH	NUM	1	MEAN	0.380	S. D.	0.000	LOW	0.380	HIGH	0.380					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0000	0001	0000	0001	0000
MEAN	0.030	0.750	0.430	6.500	1.340	0.000	1.105	5.710	100.00	0.000	0.230	0.000	0.640	0.000	0.350
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.030	0.750	0.430	6.500	1.340	0.000	1.105	5.710	100.00	0.000	0.230	0.000	0.640	0.000	0.350

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	4	MEAN	0.403	S. D.	0.043	LOW	0.360	HIGH	0.460					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.071	0.344	0.053	6.141	0.648	0.093	0.090	0.171	3.64	0.208	0.156	0.110	0.118	0.773	0.535
S. D.	0.021	0.069	0.015	3.207	0.100	0.105	0.056	0.045	0.89	0.017	0.078	0.071	0.030	0.319	0.161
LOW	0.050	0.280	0.030	2.782	0.545	0.030	0.040	0.120	2.81	0.185	0.060	0.060	0.090	0.295	0.390
HIGH	0.100	0.440	0.060	9.170	0.745	0.250	0.150	0.230	4.77	0.220	0.250	0.160	0.160	0.950	0.720

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- M2 — LIVER

LENGTH	NUM	1	MEAN	0.410	S. D.	0.000	LOW	0.410	HIGH	0.410					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.370	0.490	9.600	1.580	0.020	0.000	3.750	64.37	0.160	0.720	0.260	0.710	1.250	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.370	0.490	9.600	1.580	0.020	0.000	3.750	64.37	0.160	0.720	0.260	0.710	1.250	0.560

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	10	MEAN	0.391	S. D.	0.031	LOW	0.370	HIGH	0.435					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0002	0000	0000	0006	0001	0000	0000	0001	0009	0010	0000	0003	0000
MEAN	0.180	0.431	0.086	14.887	0.916	0.044	0.287	0.208	3.95	0.365	0.440	0.000	0.103	0.785	0.519
S. D.	0.095	0.207	0.043	11.057	0.351	0.007	0.129	0.081	0.78	0.134	0.000	0.000	0.029	0.554	0.184
LOW	0.065	0.100	0.040	2.140	0.585	0.040	0.135	0.090	3.08	0.175	0.000	0.000	0.070	0.295	0.250
HIGH	0.355	0.836	0.150	33.400	1.785	0.055	0.460	0.390	5.71	0.555	0.440	0.000	0.160	1.700	0.950

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- M8 — LIVER

LENGTH	NUM	1	MEAN	0.385	S. D.	0.000	LOW	0.385	HIGH	0.385					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.055	0.420	0.635	10.706	2.250	0.030	0.397	4.390	29.64	0.330	0.325	0.160	0.840	1.083	0.210
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.055	0.420	0.635	10.706	2.250	0.030	0.397	4.390	29.64	0.330	0.325	0.160	0.840	1.083	0.210

SOLE, PETRALE — EOPSETTA JORDANI — 059004 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	2	MEAN	0.383	S. D.	0.046	LOW	0.350	HIGH	0.415					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001	0002	0002
N DET.	0001	0000	0001	0000	0000	0001	0001	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.045	0.668	0.035	4.945	0.670	0.060	0.206	0.188	4.47	0.175	0.155	0.280	0.126	1.023	0.783
S. D.	0.000	0.300	0.000	0.983	0.071	0.000	0.000	0.088	1.77	0.007	0.000	0.000	0.000	0.279	0.047
LOW	0.000	0.456	0.000	4.250	0.620	0.000	0.000	0.126	3.21	0.170	0.000	0.000	0.000	0.825	0.750
HIGH	0.045	0.880	0.035	5.640	0.720	0.060	0.206	0.250	5.72	0.180	0.155	0.280	0.126	1.220	0.816

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- E8 — MUSCLE

LENGTH	NUM	16	MEAN	0.503	S. D.	0.046	LOW	0.430	HIGH	0.570					
WEIGHT	NUM	16	MEAN	1.055	S. D.	0.457	LOW	0.553	HIGH	2.412					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0016	0016	0015	0015	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0003	0000	0000	0000	0000	0004	0004	0000	0000	0000	0013	0015	0000	0001	0001
MEAN	0.156	0.352	0.056	38.530	1.595	0.033	0.129	0.148	2.93	0.215	0.077	0.500	0.121	0.547	0.417
S. D.	0.104	0.135	0.013	20.449	0.609	0.008	0.070	0.050	0.54	0.037	0.029	0.000	0.037	0.125	0.143
LOW	0.020	0.130	0.030	6.050	0.700	0.020	0.050	0.060	2.34	0.160	0.060	0.000	0.050	0.380	0.220
HIGH	0.330	0.690	0.080	65.250	2.890	0.040	0.250	0.260	3.87	0.265	0.110	0.500	0.180	0.810	0.820

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- I3 — MUSCLE

LENGTH	NUM	15	MEAN	0.485	S. D.	0.050	LOW	0.390	HIGH	0.545					
WEIGHT	NUM	15	MEAN	0.876	S. D.	0.276	LOW	0.449	HIGH	1.300					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015
N DET.	0003	0000	0000	0000	0000	0005	0000	0000	0000	0000	0012	0013	0000	0000	0000
MEAN	0.111	0.407	0.060	22.539	1.031	0.029	0.111	0.119	2.85	0.210	0.067	0.125	0.120	0.522	0.325
S. D.	0.141	0.134	0.017	8.797	0.325	0.011	0.047	0.041	0.35	0.049	0.040	0.092	0.028	0.143	0.132
LOW	0.030	0.170	0.040	9.070	0.480	0.010	0.050	0.060	2.18	0.140	0.030	0.060	0.060	0.310	0.060
HIGH	0.530	0.620	0.105	42.125	1.700	0.050	0.190	0.195	3.50	0.290	0.110	0.190	0.165	0.815	0.560

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- J1 — MUSCLE

LENGTH	NUM	5	MEAN	0.525	S. D.	0.040	LOW	0.465	HIGH	0.570					
WEIGHT	NUM	5	MEAN	1.141	S. D.	0.153	LOW	0.952	HIGH	1.334					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0002	0000	0000	0000	0000	0001	0000	0000	0000	0000	0005	0003	0000	0000	0000
MEAN	0.065	0.352	0.046	19.238	1.100	0.029	0.103	0.131	2.87	0.250	0.000	0.190	0.105	0.523	0.354
S. D.	0.033	0.088	0.005	9.039	0.619	0.010	0.055	0.052	0.20	0.048	0.000	0.000	0.033	0.143	0.079
LOW	0.030	0.250	0.040	11.545	0.436	0.015	0.060	0.060	2.59	0.185	0.000	0.190	0.080	0.370	0.250
HIGH	0.095	0.470	0.050	29.950	1.645	0.040	0.190	0.190	3.06	0.320	0.000	0.190	0.150	0.750	0.450

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- J3 — MUSCLE

LENGTH	NUM	15	MEAN	0.499	S. D.	0.055	LOW	0.405	HIGH	0.580					
WEIGHT	NUM	15	MEAN	0.957	S. D.	0.357	LOW	0.425	HIGH	1.589					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0014	0015	0015
N DET.	0002	0000	0000	0000	0000	0008	0002	0000	0000	0000	0015	0014	0000	0001	0002
MEAN	0.092	0.384	0.054	30.462	1.384	0.029	0.115	0.152	2.85	0.212	0.000	0.280	0.123	0.553	0.395
S. D.	0.060	0.164	0.014	12.390	0.550	0.014	0.051	0.067	0.62	0.036	0.000	0.000	0.038	0.140	0.100
LOW	0.020	0.190	0.030	12.275	0.660	0.010	0.060	0.060	2.12	0.130	0.000	0.000	0.050	0.310	0.220
HIGH	0.200	0.750	0.080	52.000	2.605	0.050	0.230	0.310	4.63	0.250	0.000	0.280	0.200	0.810	0.540

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	4	MEAN	0.484	S. D.	0.034	LOW	0.440	HIGH	0.512					
WEIGHT	NUM	4	MEAN	0.792	S. D.	0.157	LOW	0.605	HIGH	0.983					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0003	0000	0000	0000
MEAN	0.088	0.431	0.058	16.360	1.359	0.033	0.178	0.125	2.95	0.219	0.000	0.190	0.129	0.508	0.489
S. D.	0.044	0.145	0.017	8.565	0.359	0.010	0.078	0.055	0.35	0.043	0.000	0.000	0.029	0.185	0.159
LOW	0.040	0.250	0.040	4.800	0.830	0.020	0.095	0.060	2.56	0.170	0.000	0.000	0.090	0.310	0.345
HIGH	0.125	0.560	0.080	24.916	1.630	0.040	0.250	0.180	3.31	0.260	0.000	0.190	0.160	0.750	0.690

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	1	MEAN	0.330	S. D.	0.000	LOW	0.330	HIGH	0.330					
WEIGHT	NUM	1	MEAN	0.201	S. D.	0.000	LOW	0.201	HIGH	0.201					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.050	0.630	0.065	9.666	1.083	0.040	0.070	0.225	4.25	0.260	0.000	0.000	0.300	0.535	0.375
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.630	0.065	9.666	1.083	0.040	0.070	0.225	4.25	0.260	0.000	0.000	0.300	0.535	0.375

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- K2 — MUSCLE

LENGTH	NUM	10	MEAN	0.437	S. D.	0.066	LOW	0.334	HIGH	0.515					
WEIGHT	NUM	10	MEAN	0.664	S. D.	0.321	LOW	0.244	HIGH	1.078					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0004	0001	0000	0000	0000	0009	0007	0000	0000	0000
MEAN	0.093	0.416	0.051	24.732	1.428	0.044	0.114	0.153	2.91	0.216	0.160	0.250	0.129	0.556	0.379
S. D.	0.066	0.160	0.008	21.579	0.708	0.024	0.063	0.055	0.62	0.048	0.000	0.079	0.044	0.126	0.105
LOW	0.040	0.140	0.040	9.293	0.615	0.020	0.060	0.060	2.01	0.140	0.000	0.190	0.080	0.310	0.220
HIGH	0.190	0.630	0.060	76.675	2.610	0.090	0.250	0.250	4.06	0.290	0.160	0.340	0.235	0.750	0.500

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- K3 — MUSCLE

LENGTH	NUM	3	MEAN	0.445	S. D.	0.062	LOW	0.375	HIGH	0.493					
WEIGHT	NUM	3	MEAN	0.725	S. D.	0.228	LOW	0.461	HIGH	0.862					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.163	0.377	0.053	44.529	1.535	0.038	0.150	0.170	3.58	0.250	0.000	0.000	0.217	0.648	0.378
S. D.	0.214	0.065	0.006	18.629	0.215	0.004	0.035	0.036	0.83	0.040	0.000	0.000	0.076	0.128	0.160
LOW	0.040	0.310	0.050	27.837	1.375	0.035	0.130	0.140	2.63	0.210	0.000	0.000	0.130	0.530	0.220
HIGH	0.410	0.440	0.060	64.625	1.780	0.040	0.190	0.210	4.06	0.290	0.000	0.000	0.270	0.785	0.540

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

FLOUNDER, WITCH — GLYPTOCEPHALUS CYNOGLOSSUS — 059005 — AREA- NORTH ATLANTIC — SITE- K4 — MUSCLE

LENGTH	NUM	2	MEAN	0.433	S. D.	0.095	LOW	0.366	HIGH	0.500					
WEIGHT	NUM	2	MEAN	0.679	S. D.	0.525	LOW	0.308	HIGH	1.050					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.090	0.375	0.070	22.480	1.615	0.030	0.095	0.150	3.01	0.220	0.000	0.000	0.160	0.535	0.440
S. D.	0.000	0.177	0.000	9.221	0.233	0.000	0.049	0.000	0.28	0.014	0.000	0.000	0.057	0.134	0.141
LOW	0.000	0.250	0.000	15.960	1.450	0.030	0.060	0.150	2.81	0.210	0.000	0.000	0.120	0.440	0.340
HIGH	0.090	0.500	0.070	29.000	1.780	0.030	0.130	0.150	3.20	0.230	0.000	0.000	0.200	0.630	0.540

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- CALIFORNIA — SITE- B2 — MUSCLE

LENGTH	NUM	10	MEAN	0.340	S. D.	0.010	LOW	0.329	HIGH	0.360					
WEIGHT	NUM	10	MEAN	0.269	S. D.	0.027	LOW	0.229	HIGH	0.315					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0002	0001	0000	0007	0000	0000	0000	0002	0008	0007	0000	0003	0000
MEAN	0.194	0.268	0.080	11.445	1.913	0.022	0.201	0.140	3.93	0.327	0.700	0.310	0.136	0.845	0.603
S. D.	0.049	0.114	0.034	7.961	0.345	0.010	0.115	0.053	2.32	0.136	0.594	0.060	0.069	0.422	0.396
LOW	0.100	0.100	0.040	4.302	1.550	0.010	0.085	0.070	1.87	0.170	0.280	0.250	0.030	0.480	0.280
HIGH	0.255	0.480	0.140	30.000	2.550	0.030	0.383	0.215	9.82	0.575	1.120	0.370	0.265	1.680	1.600

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- CALIFORNIA — SITE- B5 — MUSCLE

LENGTH	NUM	10	MEAN	0.345	S. D.	0.000	LOW	0.345	HIGH	0.345					
WEIGHT	NUM	10	MEAN	0.817	S. D.	0.000	LOW	0.817	HIGH	0.817					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0010	0008	0000	0000	0000
MEAN	0.298	0.618	0.085	6.869	2.137	0.031	0.103	0.228	3.92	0.177	0.000	0.235	0.137	0.593	0.500
S. D.	0.121	0.544	0.029	4.052	1.264	0.016	0.045	0.058	0.52	0.050	0.000	0.021	0.022	0.134	0.146
LOW	0.150	0.130	0.050	2.500	0.900	0.010	0.060	0.180	3.25	0.100	0.000	0.220	0.110	0.400	0.380
HIGH	0.490	1.810	0.150	15.400	5.450	0.060	0.190	0.360	5.00	0.240	0.000	0.250	0.170	0.750	0.780

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM	10	MEAN	0.326	S. D.	0.007	LOW	0.315	HIGH	0.330					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0004	0000	0000	0006	0001	0000	0000	0002	0009	0008	0000	0001	0000
MEAN	0.064	0.484	0.099	12.065	2.599	0.031	0.268	0.095	3.16	0.581	0.150	0.500	0.166	0.535	0.486
S. D.	0.048	0.318	0.074	5.595	2.482	0.010	0.111	0.030	0.97	0.257	0.000	0.000	0.067	0.248	0.173
LOW	0.020	0.190	0.030	7.380	1.425	0.020	0.125	0.055	2.14	0.210	0.000	0.500	0.070	0.310	0.310
HIGH	0.180	1.050	0.240	23.590	9.615	0.040	0.400	0.160	4.69	0.930	0.150	0.500	0.270	1.000	0.750

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- H8 — MUSCLE

LENGTH	NUM	1	MEAN	0.285	S. D.	0.000	LOW	0.285	HIGH	0.285					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.065	0.332	0.110	38.300	0.870	0.040	0.160	0.105	6.25	0.240	0.000	0.100	0.200	0.780	0.650
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.065	0.332	0.110	38.300	0.870	0.040	0.160	0.105	6.25	0.240	0.000	0.100	0.200	0.780	0.650

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	0.325	S. D.	0.000	LOW	0.325	HIGH	0.325					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0000	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0001	0001	0000	0000	0000	0000
MEAN	0.070	0.220	0.000	0.000	0.000	0.000	0.120	0.070	3.00	0.000	0.000	0.150	0.000	0.310	0.200
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.070	0.220	0.000	0.000	0.000	0.000	0.120	0.070	3.00	0.000	0.000	0.150	0.000	0.310	0.200

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- M2 — MUSCLE

LENGTH	NUM	5	MEAN	0.285	S. D.	0.000	LOW	0.285	HIGH	0.285					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0004
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0002	0003	0003	0000	0001	0000
MEAN	0.109	0.504	0.078	11.371	0.803	0.043	0.493	0.178	3.28	0.248	0.200	0.350	0.200	0.918	0.795
S. D.	0.150	0.298	0.043	9.499	0.343	0.006	0.295	0.056	0.82	0.046	0.071	0.212	0.061	0.794	0.394
LOW	0.030	0.200	0.050	3.900	0.485	0.040	0.287	0.110	2.11	0.195	0.150	0.200	0.125	0.130	0.570
HIGH	0.375	0.925	0.140	25.200	1.290	0.050	1.000	0.250	4.29	0.280	0.250	0.500	0.290	2.000	1.385

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	6	MEAN	0.332	S. D.	0.025	LOW	0.305	HIGH	0.360					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0005
N DET.	0000	0001	0000	0000	0000	0003	0001	0000	0000	0003	0006	0006	0000	0000	0000
MEAN	0.073	0.329	0.052	8.763	1.935	0.035	0.267	0.114	4.24	0.362	0.000	0.000	0.211	0.700	0.564
S. D.	0.027	0.223	0.019	3.723	0.523	0.008	0.140	0.054	0.97	0.177	0.000	0.000	0.066	0.490	0.289
LOW	0.050	0.186	0.030	3.950	1.486	0.026	0.110	0.070	3.19	0.186	0.000	0.000	0.120	0.250	0.220
HIGH	0.120	0.703	0.080	15.000	2.920	0.040	0.415	0.206	5.38	0.540	0.000	0.000	0.290	1.630	1.000

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	4	MEAN	0.275	S. D.	0.012	LOW	0.265	HIGH	0.285					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0005	0000	0000	0004	0000	0002	0000	0002	0005	0005	0000	0002	0000
MEAN	0.128	0.488	0.048	6.804	1.343	0.107	0.227	0.133	3.40	0.458	0.240	0.255	0.150	1.189	0.634
S. D.	0.060	0.430	0.011	2.524	0.298	0.070	0.094	0.065	1.71	0.337	0.156	0.078	0.105	0.846	0.209
LOW	0.050	0.100	0.040	2.740	0.930	0.040	0.150	0.040	1.79	0.170	0.130	0.200	0.040	0.325	0.300
HIGH	0.220	1.350	0.055	9.840	1.700	0.180	0.400	0.200	7.00	1.040	0.350	0.310	0.320	2.500	0.885

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	10	MEAN	0.298	S. D.	0.026	LOW	0.265	HIGH	0.350					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0004	0000	0000	0004	0000	0000	0000	0000	0007	0007	0000	0003	0000
MEAN	0.039	0.459	0.051	6.419	0.956	0.048	0.196	0.116	3.85	0.272	0.430	0.345	0.194	1.005	0.607
S. D.	0.021	0.229	0.013	1.252	0.488	0.013	0.185	0.041	1.18	0.149	0.295	0.407	0.059	0.380	0.269
LOW	0.010	0.175	0.040	3.500	0.586	0.030	0.083	0.055	2.55	0.110	0.130	0.100	0.070	0.360	0.300
HIGH	0.060	0.880	0.070	7.820	2.230	0.065	0.700	0.165	5.99	0.565	0.720	0.815	0.290	1.350	1.000

SOLE, REX — GLYPTOCEPHALUS ZACHIRUS — 059006 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM	1	MEAN	0.285	S. D.	0.000	LOW	0.285	HIGH	0.285					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.115	0.405	0.100	22.200	2.305	0.040	0.250	0.170	2.83	0.530	0.000	0.000	0.085	0.440	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.115	0.405	0.100	22.200	2.305	0.040	0.250	0.170	2.83	0.530	0.000	0.000	0.085	0.440	0.500

PLAICE, AMERICAN (DAB) — HIPPOGLOSSOIDES PLATESSOIDES — 059008 — AREA- NORTH ATLANTIC — SITE- E8 — MUSCLE

LENGTH	NUM	8	MEAN	0.422	S. D.	0.107	LOW	0.295	HIGH	0.620					
WEIGHT	NUM	8	MEAN	0.766	S. D.	0.548	LOW	0.224	HIGH	1.592					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0003	0000	0000	0000	0000	0002	0002	0000	0000	0000	0005	0005	0000	0000	0001
MEAN	0.084	0.484	0.058	17.284	0.409	0.030	0.077	0.231	3.48	0.185	0.150	0.217	0.169	0.491	0.379
S. D.	0.040	0.200	0.011	16.283	0.242	0.014	0.014	0.060	0.49	0.039	0.035	0.085	0.074	0.118	0.140
LOW	0.020	0.310	0.045	4.950	0.150	0.010	0.060	0.180	2.56	0.120	0.130	0.120	0.100	0.340	0.220
HIGH	0.120	0.880	0.080	47.733	0.890	0.050	0.095	0.360	4.17	0.240	0.190	0.280	0.310	0.630	0.640

PLAICE, AMERICAN (DAB) — HIPPOGLOSSOIDES PLATESSOIDES — 059008 — AREA- NORTH ATLANTIC — SITE- I2 — WHOLE

LENGTH	NUM	1	MEAN	0.160	S. D.	0.000	LOW	0.160	HIGH	0.160					
WEIGHT	NUM	1	MEAN	0.027	S. D.	0.000	LOW	0.027	HIGH	0.027					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	1.345	0.115	5.062	0.390	0.090	0.560	0.470	10.94	0.505	0.220	0.750	2.470	1.825	1.700
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.345	0.115	5.062	0.390	0.090	0.560	0.470	10.94	0.505	0.220	0.750	2.470	1.825	1.700

PLAICE, AMERICAN (DAB) — HIPPOGLOSSOIDES PLATESSOIDES — 059008 — AREA- NORTH ATLANTIC — SITE- I2 — MUSCLE

LENGTH	NUM	7	MEAN	0.398	S. D.	0.051	LOW	0.343	HIGH	0.485					
WEIGHT	NUM	7	MEAN	0.602	S. D.	0.295	LOW	0.330	HIGH	1.114					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000	0007	0006	0000	0000	0000
MEAN	0.071	0.349	0.056	19.425	0.583	0.034	0.205	0.208	4.06	0.176	0.000	0.250	0.154	0.404	0.416
S. D.	0.031	0.114	0.013	11.532	0.288	0.009	0.272	0.110	0.85	0.037	0.000	0.000	0.032	0.225	0.069
LOW	0.025	0.190	0.030	8.100	0.250	0.020	0.060	0.060	3.31	0.150	0.000	0.000	0.110	0.060	0.310
HIGH	0.110	0.500	0.070	34.800	1.090	0.040	0.690	0.425	5.84	0.260	0.000	0.250	0.190	0.750	0.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- I3 MUSCLE

LENGTH	NUM	9	MEAN	0.382	S. D.	0.108	LOW	0.238	HIGH	0.630					
WEIGHT	NUM	9	MEAN	0.583	S. D.	0.609	LOW	0.097	HIGH	2.142					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0001	0000	0000	0000	0000	0004	0002	0000	0000	0000	0007	0007	0000	0001	0000
MEAN	0.123	0.447	0.053	11.369	0.586	0.033	0.149	0.208	3.73	0.234	0.085	0.315	0.204	0.611	0.393
S. D.	0.143	0.190	0.013	7.755	0.208	0.004	0.107	0.112	1.02	0.043	0.035	0.092	0.097	0.171	0.166
LOW	0.020	0.250	0.040	4.475	0.320	0.030	0.080	0.060	2.24	0.190	0.060	0.250	0.090	0.440	0.220
HIGH	0.430	0.810	0.080	29.930	0.920	0.040	0.376	0.440	5.31	0.320	0.110	0.380	0.386	0.940	0.690

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- J1 MUSCLE

LENGTH	NUM	5	MEAN	0.410	S. D.	0.096	LOW	0.330	HIGH	0.570					
WEIGHT	NUM	5	MEAN	0.854	S. D.	0.924	LOW	0.342	HIGH	2.497					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0000	0002	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.033	0.294	0.049	6.901	0.511	0.038	0.122	0.238	3.84	0.217	0.000	0.340	0.191	0.546	0.366
S. D.	0.013	0.148	0.005	2.188	0.175	0.004	0.043	0.064	0.49	0.036	0.000	0.000	0.077	0.091	0.084
LOW	0.020	0.090	0.040	3.965	0.200	0.033	0.075	0.180	3.25	0.190	0.000	0.000	0.100	0.410	0.250
HIGH	0.050	0.440	0.055	9.030	0.610	0.040	0.185	0.340	4.56	0.280	0.000	0.340	0.293	0.630	0.456

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- J5 MUSCLE

LENGTH	NUM	3	MEAN	0.453	S. D.	0.076	LOW	0.370	HIGH	0.520					
WEIGHT	NUM	3	MEAN	1.028	S. D.	0.555	LOW	0.484	HIGH	1.593					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0001	0000
MEAN	0.090	0.253	0.050	6.043	0.360	0.035	0.213	0.250	3.98	0.202	0.160	0.000	0.147	0.750	0.527
S. D.	0.057	0.033	0.020	3.080	0.289	0.005	0.153	0.085	1.31	0.114	0.000	0.000	0.038	0.269	0.146
LOW	0.050	0.220	0.030	3.120	0.030	0.030	0.080	0.170	2.50	0.080	0.000	0.000	0.120	0.560	0.360
HIGH	0.130	0.285	0.070	9.260	0.570	0.040	0.380	0.340	5.00	0.305	0.160	0.000	0.190	0.940	0.630

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- J7 MUSCLE

LENGTH	NUM	4	MEAN	0.488	S. D.	0.119	LOW	0.355	HIGH	0.600					
WEIGHT	NUM	4	MEAN	1.383	S. D.	0.911	LOW	0.454	HIGH	2.309					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004	0004	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0003	0000	0000	0000
MEAN	0.170	0.498	0.070	6.050	0.614	0.043	0.159	0.196	4.09	0.188	0.000	0.630	0.106	0.648	0.548
S. D.	0.110	0.106	0.020	3.595	0.159	0.012	0.061	0.042	1.10	0.039	0.000	0.000	0.056	0.228	0.260
LOW	0.060	0.380	0.055	2.256	0.430	0.030	0.125	0.150	3.12	0.150	0.000	0.000	0.045	0.310	0.360
HIGH	0.280	0.610	0.100	10.825	0.790	0.050	0.250	0.250	5.50	0.230	0.000	0.630	0.180	0.810	0.845

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- J8 MUSCLE

LENGTH	NUM	5	MEAN	0.368	S. D.	0.112	LOW	0.261	HIGH	0.550					
WEIGHT	NUM	5	MEAN	0.746	S. D.	0.769	LOW	0.266	HIGH	2.107					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0005	0005	0000	0000	0000
MEAN	0.080	0.263	0.092	5.385	0.516	0.028	0.102	0.228	3.69	0.210	0.000	0.000	0.144	0.688	0.444
S. D.	0.000	0.062	0.061	1.898	0.325	0.017	0.038	0.105	0.65	0.075	0.000	0.000	0.033	0.098	0.104
LOW	0.000	0.180	0.060	2.500	0.160	0.010	0.060	0.140	2.63	0.110	0.000	0.000	0.100	0.560	0.310
HIGH	0.080	0.310	0.200	7.050	1.000	0.050	0.130	0.380	4.38	0.310	0.000	0.000	0.190	0.810	0.560

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- J9 MUSCLE

LENGTH	NUM	7	MEAN	0.381	S. D.	0.083	LOW	0.260	HIGH	0.500					
WEIGHT	NUM	7	MEAN	0.664	S. D.	0.458	LOW	0.152	HIGH	1.509					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0005	0007	0007	0005	0007	0007	0007	0007	0007
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0000	0000
MEAN	0.056	0.302	0.062	6.721	0.437	0.029	0.111	0.303	4.12	0.260	0.375	0.315	0.179	0.586	0.441
S. D.	0.020	0.083	0.022	2.414	0.131	0.004	0.040	0.273	1.05	0.162	0.262	0.092	0.088	0.175	0.092
LOW	0.040	0.200	0.040	2.800	0.300	0.020	0.060	0.130	3.31	0.140	0.190	0.250	0.115	0.405	0.305
HIGH	0.080	0.440	0.100	10.020	0.645	0.035	0.156	0.810	5.88	0.540	0.560	0.380	0.370	0.810	0.560

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- K2 MUSCLE

LENGTH	NUM	8	MEAN	0.442	S. D.	0.094	LOW	0.309	HIGH	0.570					
WEIGHT	NUM	9	MEAN	1.032	S. D.	0.660	LOW	0.248	HIGH	2.043					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0003	0000	0001	0000	0000	0002	0000	0000	0000	0000	0008	0008	0000	0000	0000
MEAN	0.053	0.390	0.051	14.332	0.686	0.037	0.190	0.168	3.54	0.191	0.130	0.190	0.171	0.542	0.441
S. D.	0.020	0.149	0.015	8.024	0.326	0.011	0.215	0.038	0.43	0.041	0.000	0.000	0.085	0.176	0.130
LOW	0.040	0.190	0.036	3.425	0.233	0.020	0.060	0.123	3.06	0.130	0.000	0.000	0.100	0.270	0.280
HIGH	0.090	0.690	0.080	24.400	1.220	0.050	0.690	0.230	4.25	0.260	0.130	0.190	0.360	0.810	0.690

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- K4 MUSCLE

LENGTH	NUM	9	MEAN	0.576	S. D.	0.099	LOW	0.347	HIGH	0.700					
WEIGHT	NUM	9	MEAN	2.379	S. D.	0.918	LOW	0.393	HIGH	3.614					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0001	0000	0000	0000	0000	0002	0000	0000	0000	0000	0009	0007	0000	0000	0000
MEAN	0.091	0.416	0.054	12.261	0.457	0.030	0.082	0.181	3.90	0.181	0.000	0.380	0.120	0.436	0.308
S. D.	0.090	0.104	0.013	11.675	0.290	0.016	0.043	0.042	1.11	0.028	0.000	0.000	0.034	0.111	0.083
LOW	0.020	0.250	0.030	3.500	0.175	0.010	0.060	0.130	2.81	0.140	0.000	0.380	0.090	0.310	0.190
HIGH	0.300	0.560	0.070	31.175	1.120	0.060	0.190	0.270	6.50	0.230	0.000	0.380	0.190	0.640	0.450

PLAICE, AMERICAN (DAB) HIPPOGLOSSOIDES PLATESSOIDES 059008 AREA- NORTH ATLANTIC SITE- P2 MUSCLE

LENGTH	NUM	2	MEAN	0.346	S. D.	0.058	LOW	0.305	HIGH	0.387					
WEIGHT	NUM	2	MEAN	0.760	S. D.	0.474	LOW	0.424	HIGH	1.095					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.090	0.410	0.068	4.500	0.433	0.050	0.190	0.170	3.85	0.210	0.000	0.330	0.213	0.533	0.580
S. D.	0.071	0.042	0.004	1.202	0.110	0.014	0.000	0.000	0.40	0.000	0.000	0.000	0.138	0.046	0.156
LOW	0.040	0.380	0.065	3.650	0.355	0.040	0.000	0.000	3.56	0.210	0.000	0.000	0.115	0.500	0.470
HIGH	0.140	0.440	0.070	5.350	0.510	0.060	0.190	0.170	4.13	0.210	0.000	0.330	0.310	0.565	0.690

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- G9 MUSCLE

LENGTH	NUM	10	MEAN	1.020	S. D.	0.186	LOW	0.650	HIGH	1.190					
WEIGHT	NUM	10	MEAN	16.150	S. D.	6.895	LOW	3.629	HIGH	22.680					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0008	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0006	0000	0000	0008	0001	0001	0000	0001	0009	0009	0001	0004	0000
MEAN	0.179	0.324	0.035	3.157	0.902	0.035	0.188	0.152	3.26	0.273	0.050	0.100	0.095	0.963	0.539
S. D.	0.123	0.101	0.010	1.049	0.374	0.007	0.084	0.072	0.59	0.169	0.000	0.000	0.064	0.397	0.194
LOW	0.010	0.200	0.020	1.790	0.425	0.030	0.070	0.040	2.40	0.070	0.000	0.000	0.040	0.600	0.250
HIGH	0.380	0.525	0.040	4.830	1.630	0.040	0.320	0.270	4.28	0.610	0.050	0.100	0.250	1.630	0.850

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- G9 LIVER

LENGTH	NUM	3	MEAN	1.101	S. D.	0.035	LOW	1.072	HIGH	1.140					
WEIGHT	NUM	3	MEAN	18.871	S. D.	3.474	LOW	15.876	HIGH	22.680					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0002	0000	0000	0000	0000	0002	0003	0000	0001	0000
MEAN	0.040	0.447	1.000	16.975	1.525	0.020	0.257	4.137	27.60	0.177	0.130	0.000	0.570	0.615	0.490
S. D.	0.000	0.237	0.618	5.480	0.629	0.000	0.070	0.803	6.11	0.083	0.000	0.000	0.157	0.460	0.442
LOW	0.000	0.250	0.580	13.100	1.080	0.000	0.190	3.210	22.50	0.110	0.000	0.000	0.390	0.290	0.220
HIGH	0.040	0.710	1.710	20.850	1.970	0.020	0.330	4.630	34.38	0.270	0.130	0.000	0.680	0.940	1.000

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- H8 MUSCLE

LENGTH	NUM	6	MEAN	1.043	S. D.	0.135	LOW	0.880	HIGH	1.210					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0005	0000	0000	0000
MEAN	0.306	0.532	0.093	1.358	0.943	0.065	0.244	0.287	3.03	0.243	0.133	0.620	0.089	0.969	0.601
S. D.	0.157	0.252	0.049	0.378	0.373	0.032	0.197	0.071	0.35	0.076	0.102	0.000	0.042	0.316	0.081
LOW	0.075	0.250	0.060	0.850	0.513	0.020	0.110	0.210	2.37	0.170	0.060	0.000	0.045	0.560	0.500
HIGH	0.570	1.000	0.180	1.820	1.360	0.110	0.630	0.370	3.37	0.365	0.250	0.620	0.150	1.380	0.720

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- I7 MUSCLE

LENGTH	NUM	2	MEAN	1.095	S. D.	0.064	LOW	1.050	HIGH	1.140					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000
MEAN	0.233	0.190	0.110	3.208	1.595	0.085	0.083	0.243	5.00	0.290	0.000	0.140	0.103	1.140	0.593
S. D.	0.244	0.000	0.085	1.389	1.245	0.035	0.018	0.152	1.41	0.141	0.000	0.113	0.011	0.240	0.131
LOW	0.060	0.190	0.050	2.225	0.715	0.060	0.070	0.135	4.00	0.190	0.000	0.060	0.095	0.970	0.500
HIGH	0.405	0.190	0.170	4.190	2.475	0.110	0.095	0.350	6.00	0.390	0.000	0.220	0.110	1.310	0.685

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- I7 LIVER

LENGTH	NUM	1	MEAN	1.050	S. D.	0.000	LOW	1.050	HIGH	1.050					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.240	0.810	6.130	1.950	3.150	0.050	0.340	4.940	22.44	0.220	0.630	0.310	1.030	0.750	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.240	0.810	6.130	1.950	3.150	0.050	0.340	4.940	22.44	0.220	0.630	0.310	1.030	0.750	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- M5 MUSCLE

LENGTH	NUM	3	MEAN	0.913	S. D.	0.023	LOW	0.900	HIGH	0.940					
WEIGHT	NUM	3	MEAN	12.096	S. D.	0.262	LOW	11.794	HIGH	12.247					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.857	0.418	0.112	2.124	1.123	0.040	0.140	0.195	3.57	0.255	0.310	0.200	0.098	1.210	0.720
S. D.	0.388	0.143	0.072	1.136	1.098	0.000	0.070	0.078	0.97	0.094	0.000	0.000	0.067	0.182	0.452
LOW	0.435	0.275	0.070	1.100	0.440	0.000	0.060	0.105	2.60	0.180	0.000	0.000	0.050	1.000	0.340
HIGH	1.200	0.560	0.195	3.346	2.390	0.040	0.186	0.245	4.54	0.360	0.310	0.200	0.175	1.315	1.220

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- M5 LIVER

LENGTH	NUM	2	MEAN	0.920	S. D.	0.028	LOW	0.900	HIGH	0.940					
WEIGHT	NUM	2	MEAN	12.021	S. D.	0.320	LOW	11.794	HIGH	12.247					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.890	0.310	0.940	3.188	1.120	0.030	0.045	2.380	14.26	0.190	0.090	0.185	0.775	0.735	0.750
S. D.	0.127	0.000	0.608	1.361	0.212	0.014	0.021	0.000	1.59	0.085	0.000	0.177	0.304	0.106	0.000
LOW	0.800	0.310	0.510	2.225	0.970	0.020	0.030	0.000	13.13	0.130	0.000	0.060	0.560	0.660	0.000
HIGH	0.980	0.310	1.370	4.150	1.270	0.040	0.060	2.380	15.38	0.250	0.090	0.310	0.990	0.810	0.750

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- M6 MUSCLE

LENGTH	NUM	2	MEAN	0.840	S. D.	0.071	LOW	0.790	HIGH	0.890					
WEIGHT	NUM	2	MEAN	8.845	S. D.	1.604	LOW	7.711	HIGH	9.979					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.478	0.458	0.048	1.678	0.990	0.053	0.341	0.190	2.31	0.240	0.620	0.280	0.085	0.818	0.723
S. D.	0.004	0.102	0.011	1.078	0.240	0.018	0.182	0.014	0.21	0.170	0.000	0.000	0.007	0.308	0.435
LOW	0.475	0.386	0.040	0.915	0.820	0.040	0.212	0.180	2.16	0.120	0.000	0.000	0.080	0.600	0.415
HIGH	0.480	0.530	0.055	2.440	1.160	0.065	0.470	0.200	2.46	0.360	0.620	0.280	0.090	1.036	1.030

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- M6 LIVER

LENGTH	NUM	2	MEAN	0.840	S. D.	0.071	LOW	0.790	HIGH	0.890					
WEIGHT	NUM	2	MEAN	8.849	S. D.	1.599	LOW	7.718	HIGH	9.979					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.240	0.405	1.705	1.850	2.280	0.035	0.120	3.500	16.88	0.235	0.155	0.190	0.545	0.895	0.630
S. D.	0.042	0.134	0.799	0.000	0.000	0.007	0.085	3.889	7.95	0.035	0.092	0.000	0.120	0.332	0.000
LOW	0.210	0.310	1.140	0.000	0.000	0.030	0.060	0.750	11.25	0.210	0.090	0.000	0.460	0.660	0.000
HIGH	0.270	0.500	2.270	1.850	2.280	0.040	0.180	6.250	22.50	0.260	0.220	0.190	0.630	1.130	0.630

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- M9 MUSCLE

LENGTH	NUM	1	MEAN	0.918	S. D.	0.000	LOW	0.918	HIGH	0.918					
WEIGHT	NUM	1	MEAN	9.526	S. D.	0.000	LOW	9.526	HIGH	9.526					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.975	0.180	0.130	2.515	2.070	0.050	0.140	0.245	6.00	0.160	0.000	0.380	0.115	0.560	1.060
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.975	0.180	0.130	2.515	2.070	0.050	0.140	0.245	6.00	0.160	0.000	0.380	0.115	0.560	1.060

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- R2 MUSCLE

LENGTH	NUM	2	MEAN	0.599	S. D.	0.027	LOW	0.580	HIGH	0.618					
WEIGHT	NUM	2	MEAN	2.268	S. D.	0.000	LOW	2.268	HIGH	2.268					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.125	0.428	0.085	3.282	0.848	0.050	0.251	0.348	5.81	0.335	0.000	0.380	0.128	0.803	0.735
S. D.	0.049	0.202	0.035	0.359	0.067	0.000	0.064	0.046	0.84	0.205	0.000	0.000	0.004	0.053	0.403
LOW	0.090	0.285	0.060	3.028	0.800	0.000	0.205	0.315	5.21	0.190	0.000	0.000	0.125	0.765	0.450
HIGH	0.160	0.570	0.110	3.536	0.895	0.050	0.296	0.380	6.40	0.480	0.000	0.380	0.130	0.840	1.020

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- PACIFIC NORTHWEST SITE- R5 MUSCLE

LENGTH	NUM	1	MEAN	0.759	S. D.	0.000	LOW	0.759	HIGH	0.759					
WEIGHT	NUM	1	MEAN	6.350	S. D.	0.000	LOW	6.350	HIGH	6.350					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0001	0001	0000	0000	0001	0001	0000	0000	0001	0001	0001	0000	0001	0000
MEAN	0.320	0.000	0.000	2.500	0.970	0.000	0.000	0.250	5.36	0.000	0.000	0.000	0.110	0.000	0.950
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.320	0.000	0.000	2.500	0.970	0.000	0.000	0.250	5.36	0.000	0.000	0.000	0.110	0.000	0.950

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- ALASKA SITE- N6 MUSCLE

LENGTH	NUM	10	MEAN	0.900	S. D.	0.122	LOW	0.735	HIGH	1.090					
WEIGHT	NUM	10	MEAN	8.947	S. D.	3.784	LOW	4.309	HIGH	15.876					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0007	0000	0000	0000
MEAN	0.062	0.455	0.059	2.585	0.456	0.042	0.231	0.368	4.48	0.217	0.299	0.290	0.119	0.663	0.551
S. D.	0.037	0.277	0.019	1.778	0.212	0.018	0.099	0.474	0.63	0.046	0.273	0.293	0.046	0.164	0.171
LOW	0.030	0.130	0.025	1.300	0.110	0.020	0.130	0.115	3.37	0.165	0.060	0.060	0.070	0.440	0.370
HIGH	0.110	1.130	0.090	7.433	0.720	0.080	0.440	1.690	5.56	0.310	0.740	0.620	0.200	0.880	0.880

HALIBUT, PAC. HIPPOGLOSSUS STENOLEPIS 059011 AREA- ALASKA SITE- N6 LIVER

LENGTH	NUM	8	MEAN	0.940	S. D.	0.098	LOW	0.780	HIGH	1.090					
WEIGHT	NUM	8	MEAN	10.107	S. D.	3.275	LOW	5.443	HIGH	15.876					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0006	0008	0008	0008	0008	0007	0008	0008	0008	0008	0008
N DET.	0006	0000	0000	0000	0000	0003	0000	0000	0000	0000	0003	0007	0000	0000	0000
MEAN	0.025	0.609	2.036	4.621	1.652	0.032	0.285	4.038	27.97	0.153	0.238	0.310	0.680	0.553	0.391
S. D.	0.007	0.337	1.494	4.383	0.498	0.015	0.201	3.123	10.40	0.053	0.034	0.000	0.215	0.212	0.182
LOW	0.020	0.310	0.310	0.100	0.990	0.010	0.120	0.990	17.25	0.100	0.190	0.000	0.420	0.310	0.190
HIGH	0.030	1.310	4.800	13.300	2.250	0.050	0.630	10.500	46.88	0.260	0.280	0.310	1.060	0.860	0.750

SOLE, ROCK LEPIDOPSETTA BILINEATA 059014 AREA- PACIFIC NORTHWEST SITE- I7 MUSCLE

LENGTH	NUM	10	MEAN	0.390	S. D.	0.000	LOW	0.390	HIGH	0.390					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0001	0000	0001	0000	0000	0000	0005	0006	0001	0001	0000
MEAN	0.112	0.420	0.067	5.501	1.126	0.042	0.158	0.202	3.20	0.214	0.237	0.239	0.143	0.918	0.530
S. D.	0.061	0.132	0.029	1.736	0.529	0.020	0.058	0.074	0.92	0.050	0.202	0.153	0.041	0.459	0.129
LOW	0.020	0.250	0.010	2.250	0.530	0.020	0.060	0.130	0.81	0.135	0.095	0.075	0.095	0.280	0.310
HIGH	0.210	0.625	0.110	8.110	1.835	0.076	0.250	0.310	4.31	0.300	0.590	0.440	0.210	1.750	0.750

FLOUNDER, YELLOWTAIL LIMANDA FERRUGINEA 059016 AREA- NORTH ATLANTIC SITE- J6 MUSCLE

LENGTH	NUM	1	MEAN	0.510	S. D.	0.000	LOW	0.510	HIGH	0.510					
WEIGHT	NUM	1	MEAN	1.475	S. D.	0.000	LOW	1.475	HIGH	1.475					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	0.440	0.040	8.150	0.780	0.000	0.090	0.130	6.50	0.130	0.000	0.440	0.040	0.440	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.440	0.040	8.150	0.780	0.000	0.090	0.130	6.50	0.130	0.000	0.440	0.040	0.440	0.220

FLOUNDER, YELLOWTAIL LIMANDA FERRUGINEA 059016 AREA- NORTH ATLANTIC SITE- J8 MUSCLE

LENGTH	NUM	8	MEAN	0.331	S. D.	0.061	LOW	0.250	HIGH	0.437					
WEIGHT	NUM	8	MEAN	0.447	S. D.	0.233	LOW	0.188	HIGH	0.828					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.020	0.519	0.053	3.525	0.571	0.041	0.251	0.206	5.56	0.193	0.155	0.130	0.154	0.599	0.441
S. D.	0.000	0.173	0.016	1.305	0.218	0.015	0.219	0.068	0.55	0.059	0.049	0.000	0.050	0.189	0.209
LOW	0.020	0.370	0.030	2.090	0.245	0.020	0.125	0.090	4.74	0.130	0.120	0.000	0.060	0.220	0.190
HIGH	0.020	0.810	0.075	5.792	0.980	0.060	0.690	0.310	6.56	0.315	0.190	0.130	0.205	0.785	0.810

FLOUNDER, YELLOWTAIL LIMANDA FERRUGINEA 059016 AREA- NORTH ATLANTIC SITE- J9 MUSCLE

LENGTH	NUM	10	MEAN	0.353	S. D.	0.037	LOW	0.293	HIGH	0.420					
WEIGHT	NUM	10	MEAN	0.432	S. D.	0.143	LOW	0.228	HIGH	0.709					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0007	0000	0000	0000
MEAN	0.099	0.449	0.062	5.152	0.456	0.040	0.176	0.399	5.16	0.218	0.100	0.190	0.183	0.713	0.506
S. D.	0.095	0.171	0.023	2.378	0.226	0.015	0.106	0.615	2.15	0.056	0.028	0.131	0.053	0.122	0.120
LOW	0.020	0.130	0.040	2.212	0.130	0.020	0.060	0.060	1.44	0.150	0.080	0.040	0.070	0.500	0.300
HIGH	0.299	0.690	0.105	10.050	0.906	0.060	0.375	2.125	9.44	0.320	0.120	0.280	0.270	0.880	0.690

FLOUNDER, YELLOWTAIL LIMANDA FERRUGINEA 059016 AREA- NORTH ATLANTIC SITE- K4 MUSCLE

LENGTH	NUM	3	MEAN	0.327	S. D.	0.125	LOW	0.236	HIGH	0.470					
WEIGHT	NUM	3	MEAN	0.442	S. D.	0.519	LOW	0.110	HIGH	1.040					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0002	0000
MEAN	0.045	0.377	0.070	8.327	0.527	0.033	0.240	0.408	5.01	0.263	0.000	0.290	0.135	0.630	0.523
S. D.	0.000	0.003	0.022	7.465	0.253	0.008	0.096	0.409	0.29	0.034	0.000	0.000	0.035	0.000	0.085
LOW	0.000	0.375	0.045	2.625	0.245	0.025	0.130	0.150	4.81	0.225	0.000	0.000	0.095	0.000	0.440
HIGH	0.045	0.380	0.085	16.776	0.735	0.040	0.310	0.880	5.34	0.290	0.000	0.290	0.160	0.630	0.610

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	12	MEAN	0.310	S. D.	0.022	LOW	0.280	HIGH	0.357					
WEIGHT	NUM	12	MEAN	0.239	S. D.	0.057	LOW	0.157	HIGH	0.336					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0012	0012	0012	0012	0012	0011	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0008	0000	0000	0000
MEAN	0.093	0.386	0.046	9.273	0.783	0.030	0.157	0.270	5.48	0.227	0.186	0.115	0.163	0.620	0.507
S. D.	0.058	0.174	0.015	4.718	0.380	0.016	0.107	0.092	1.39	0.054	0.107	0.110	0.040	0.149	0.222
LOW	0.020	0.130	0.020	3.766	0.200	0.010	0.060	0.095	2.81	0.130	0.060	0.060	0.110	0.310	0.280
HIGH	0.225	0.625	0.075	19.950	1.600	0.075	0.440	0.500	8.47	0.300	0.310	0.280	0.240	0.765	1.100

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- 01 — MUSCLE

LENGTH	NUM	30	MEAN	0.331	S. D.	0.036	LOW	0.264	HIGH	0.373					
WEIGHT	NUM	29	MEAN	0.349	S. D.	0.135	LOW	0.160	HIGH	0.518					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0030	0029	0030	0030	0029	0030	0030	0030	0029	0030	0030	0030	0030	0030	0029
N DET.	0001	0000	0000	0000	0000	0008	0000	0000	0000	0000	0026	0023	0000	0000	0000
MEAN	0.108	0.462	0.073	7.276	0.650	0.034	0.170	0.613	5.23	0.230	0.300	0.349	0.189	0.642	0.519
S. D.	0.078	0.253	0.040	4.142	0.182	0.015	0.095	0.558	0.98	0.097	0.216	0.237	0.046	0.208	0.216
LOW	0.020	0.130	0.020	1.500	0.320	0.010	0.045	0.120	3.40	0.080	0.155	0.190	0.060	0.310	0.020
HIGH	0.310	1.190	0.200	18.230	0.940	0.080	0.435	2.060	8.38	0.560	0.620	0.750	0.290	1.130	1.060

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- 01 — LIVER

LENGTH	NUM	1	MEAN	0.373	S. D.	0.000	LOW	0.373	HIGH	0.373					
WEIGHT	NUM	1	MEAN	0.518	S. D.	0.000	LOW	0.518	HIGH	0.518					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0001	0000
MEAN	0.000	0.990	0.500	0.000	0.000	0.000	0.155	3.390	51.43	0.530	0.000	0.200	2.860	0.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.990	0.500	0.000	0.000	0.000	0.155	3.390	51.43	0.530	0.000	0.200	2.860	0.000	0.380

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- 03 — MUSCLE

LENGTH	NUM	19	MEAN	0.350	S. D.	0.042	LOW	0.280	HIGH	0.442					
WEIGHT	NUM	19	MEAN	0.361	S. D.	0.145	LOW	0.053	HIGH	0.635					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0003	0000	0000	0000	0000	0004	0000	0000	0000	0000	0017	0015	0000	0001	0000
MEAN	0.039	0.382	0.068	7.678	0.814	0.044	0.154	0.245	4.71	0.231	0.207	0.134	0.162	0.747	0.510
S. D.	0.027	0.185	0.036	4.069	0.523	0.041	0.109	0.072	0.99	0.073	0.042	0.083	0.045	0.226	0.167
LOW	0.010	0.130	0.030	2.825	0.330	0.020	0.060	0.135	3.05	0.110	0.160	0.060	0.060	0.310	0.160
HIGH	0.105	1.060	0.150	20.275	2.700	0.190	0.560	0.390	6.44	0.445	0.240	0.250	0.290	1.250	0.780

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- 03 — LIVER

LENGTH	NUM	1	MEAN	0.340	S. D.	0.000	LOW	0.340	HIGH	0.340					
WEIGHT	NUM	1	MEAN	0.370	S. D.	0.000	LOW	0.370	HIGH	0.370					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	1.000	0.290	2.900	2.070	0.000	0.360	1.820	22.86	0.360	0.380	0.350	0.960	1.050	0.450
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.000	0.290	2.900	2.070	0.000	0.360	1.820	22.86	0.360	0.380	0.350	0.960	1.050	0.450

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	3	MEAN	0.392	S. D.	0.060	LOW	0.340	HIGH	0.458					
WEIGHT	NUM	3	MEAN	0.664	S. D.	0.404	LOW	0.345	HIGH	1.118					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.020	0.290	0.082	3.454	0.527	0.028	0.298	0.365	5.61	0.210	0.285	0.440	0.140	0.728	0.595
S. D.	0.000	0.092	0.053	0.461	0.191	0.003	0.067	0.498	1.64	0.026	0.134	0.000	0.062	0.124	0.135
LOW	0.000	0.190	0.020	2.925	0.350	0.025	0.250	0.060	4.50	0.180	0.190	0.000	0.070	0.595	0.500
HIGH	0.020	0.370	0.115	3.775	0.730	0.030	0.345	0.940	7.50	0.230	0.380	0.440	0.190	0.840	0.750

FLOUNDER, YELLOWTAIL — LIMANDA FERRUGINEA — 059016 — AREA- NORTH ATLANTIC — SITE- S7 — MUSCLE

LENGTH	NUM	2	MEAN	0.280	S. D.	0.002	LOW	0.278	HIGH	0.281					
WEIGHT	NUM	2	MEAN	0.187	S. D.	0.006	LOW	0.182	HIGH	0.191					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.043	0.260	0.098	11.330	1.015	0.010	0.156	0.275	6.34	0.288	0.120	0.440	0.303	0.940	0.603
S. D.	0.018	0.000	0.060	5.558	0.177	0.000	0.062	0.141	1.90	0.202	0.000	0.000	0.103	0.000	0.074
LOW	0.030	0.260	0.055	7.400	0.890	0.000	0.112	0.175	4.99	0.145	0.000	0.000	0.230	0.000	0.550
HIGH	0.055	0.260	0.140	15.260	1.140	0.010	0.200	0.375	7.68	0.430	0.120	0.440	0.375	0.940	0.695

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- CALIFORNIA — SITE- B2 — MUSCLE

LENGTH	NUM	10	MEAN	0.420	S. D.	0.033	LOW	0.378	HIGH	0.480					
WEIGHT	NUM	10	MEAN	0.740	S. D.	0.174	LOW	0.520	HIGH	1.068					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0002	0000	0000	0003	0001	0000	0000	0000	0010	0009	0000	0002	0000
MEAN	0.120	0.390	0.081	4.381	1.033	0.027	0.158	0.200	3.58	0.291	0.000	0.600	0.154	0.515	0.363
S. D.	0.069	0.219	0.043	2.449	0.284	0.016	0.085	0.073	0.67	0.130	0.000	0.000	0.096	0.278	0.101
LOW	0.030	0.050	0.040	1.550	0.610	0.010	0.053	0.075	2.50	0.135	0.000	0.000	0.030	0.060	0.190
HIGH	0.230	0.750	0.180	9.250	1.530	0.040	0.305	0.300	4.48	0.565	0.000	0.600	0.360	0.940	0.525

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- CALIFORNIA — SITE- B9 — MUSCLE

LENGTH	NUM	10	MEAN	0.393	S. D.	0.031	LOW	0.351	HIGH	0.444					
WEIGHT	NUM	10	MEAN	0.530	S. D.	0.129	LOW	0.334	HIGH	0.725					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0008	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010
N DET.	0000	0001	0000	0000	0000	0006	0001	0001	0000	0000	0009	0007	0000	0003	0000
MEAN	0.116	0.569	0.076	9.256	1.277	0.048	0.225	0.205	4.06	0.254	0.190	0.297	0.166	0.931	0.470
S. D.	0.043	0.326	0.049	4.027	0.430	0.022	0.086	0.043	1.71	0.092	0.000	0.145	0.096	0.407	0.136
LOW	0.060	0.200	0.030	3.800	0.780	0.020	0.100	0.110	2.59	0.070	0.000	0.150	0.070	0.480	0.250
HIGH	0.200	1.130	0.180	14.563	1.875	0.070	0.320	0.250	8.00	0.360	0.190	0.440	0.340	1.630	0.750

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- CALIFORNIA — SITE- B9 — LIVER

LENGTH	NUM	1	MEAN	0.390	S. D.	0.000	LOW	0.390	HIGH	0.390					
WEIGHT	NUM	1	MEAN	0.507	S. D.	0.000	LOW	0.507	HIGH	0.507					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.210	0.480	2.000	6.560	2.610	0.040	0.375	2.500	22.86	0.890	0.130	0.430	1.000	0.000	0.450
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.210	0.480	2.000	6.560	2.610	0.040	0.375	2.500	22.86	0.890	0.130	0.430	1.000	0.000	0.450

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- CALIFORNIA — SITE- F4 — MUSCLE

LENGTH	NUM	10	MEAN	0.354	S. D.	0.010	LOW	0.331	HIGH	0.365					
WEIGHT	NUM	10	MEAN	0.467	S. D.	0.039	LOW	0.403	HIGH	0.524					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0003	0000	0004	0000	0000	0006	0001	0000	0000	0000	0009	0009	0001	0000	0000
MEAN	0.026	0.551	0.069	5.689	0.668	0.031	0.186	0.130	4.35	0.330	0.350	0.350	0.172	0.695	0.518
S. D.	0.014	0.304	0.042	2.984	0.213	0.020	0.167	0.037	1.28	0.234	0.000	0.000	0.118	0.520	0.319
LOW	0.010	0.210	0.030	2.025	0.290	0.010	0.020	0.080	2.80	0.110	0.000	0.000	0.030	0.200	0.200
HIGH	0.050	1.250	0.150	9.325	0.975	0.055	0.530	0.180	6.77	0.670	0.350	0.350	0.390	1.630	1.100

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM	9	MEAN	0.437	S. D.	0.008	LOW	0.415	HIGH	0.440					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0008	0009	0009	0009	0009	0009	0008	0008	0009	0009	0008
N DET.	0000	0001	0002	0000	0000	0003	0001	0000	0000	0001	0006	0004	0000	0003	0000
MEAN	0.111	0.485	0.069	6.805	0.976	0.034	0.223	0.158	3.94	0.292	0.255	0.383	0.159	1.180	0.531
S. D.	0.052	0.186	0.058	0.956	0.169	0.013	0.182	0.090	1.64	0.187	0.134	0.249	0.107	0.421	0.159
LOW	0.060	0.250	0.010	5.556	0.805	0.010	0.080	0.040	1.91	0.040	0.160	0.200	0.085	0.756	0.350
HIGH	0.230	0.755	0.180	8.000	1.250	0.046	0.510	0.325	7.86	0.550	0.350	0.750	0.430	1.930	0.750

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- G9 — LIVER

LENGTH	NUM	2	MEAN	0.415	S. D.	0.000	LOW	0.415	HIGH	0.415					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.270	0.595	2.333	4.200	3.070	0.055	0.183	3.083	19.71	0.350	0.145	2.630	0.690	0.565	0.570
S. D.	0.042	0.071	0.272	0.000	0.000	0.000	0.018	0.392	7.48	0.014	0.120	0.000	0.339	0.000	0.170
LOW	0.240	0.545	2.140	0.000	0.000	0.000	0.170	2.805	14.42	0.340	0.060	0.000	0.450	0.000	0.450
HIGH	0.300	0.645	2.525	4.200	3.070	0.055	0.195	3.360	25.00	0.360	0.230	2.630	0.930	0.565	0.690

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- H8 — MUSCLE

LENGTH	NUM	2	MEAN	0.380	S. D.	0.000	LOW	0.380	HIGH	0.380					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0001	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.035	0.841	0.285	8.953	0.665	0.040	0.353	0.453	3.86	0.368	0.000	0.000	0.106	1.205	0.535
S. D.	0.021	0.324	0.304	0.000	0.035	0.000	0.117	0.364	0.91	0.031	0.000	0.000	0.000	0.417	0.049
LOW	0.020	0.612	0.070	0.000	0.640	0.000	0.270	0.195	3.21	0.346	0.000	0.000	0.000	0.910	0.500
HIGH	0.050	1.070	0.500	8.953	0.690	0.040	0.435	0.710	4.50	0.390	0.000	0.000	0.106	1.500	0.570

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- M1 — MUSCLE

LENGTH	NUM	1	MEAN	0.445	S. D.	0.000	LOW	0.445	HIGH	0.445					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0001	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	0.750	0.000	10.600	1.420	0.000	0.750	0.040	1.79	0.360	0.000	1.130	0.180	0.940	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.750	0.000	10.600	1.420	0.000	0.750	0.040	1.79	0.360	0.000	1.130	0.180	0.940	0.000

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	9	MEAN	0.419	S. D.	0.019	LOW	0.395	HIGH	0.435					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0002	0000	0000	0004	0002	0001	0000	0001	0009	0006	0001	0004	0000
MEAN	0.170	0.582	0.067	9.508	2.011	0.035	0.191	0.210	3.72	0.240	0.180	0.376	0.128	0.881	0.523
S. D.	0.085	0.288	0.036	5.360	1.033	0.020	0.091	0.132	1.45	0.164	0.240	0.236	0.040	0.284	0.206
LOW	0.083	0.150	0.020	2.240	1.020	0.010	0.040	0.080	2.14	0.070	0.010	0.070	0.055	0.380	0.150
HIGH	0.395	1.050	0.140	17.850	4.000	0.070	0.333	0.560	6.36	0.460	0.350	0.630	0.180	1.290	0.800

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	2	MEAN	0.385	S. D.	0.000	LOW	0.385	HIGH	0.385					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.125	0.140	0.050	5.835	0.790	0.040	0.253	0.145	1.81	0.475	0.880	1.410	0.100	1.250	0.655
S. D.	0.035	0.014	0.000	0.000	0.000	0.000	0.060	0.007	0.00	0.290	0.000	0.000	0.014	0.000	0.219
LOW	0.100	0.130	0.000	0.000	0.000	0.000	0.210	0.140	0.00	0.270	0.000	0.000	0.090	0.000	0.500
HIGH	0.150	0.150	0.050	5.835	0.790	0.040	0.295	0.150	1.81	0.680	0.880	1.410	0.110	1.250	0.810

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	10	MEAN	0.382	S. D.	0.005	LOW	0.380	HIGH	0.395					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0001	0002	0000	0000	0006	0001	0000	0000	0005	0007	0009	0000	0003	0000
MEAN	0.085	0.519	0.111	7.750	0.611	0.070	0.191	0.168	4.49	0.261	0.217	0.700	0.246	0.822	0.654
S. D.	0.058	0.293	0.106	3.769	0.227	0.054	0.087	0.057	1.15	0.093	0.126	0.000	0.084	0.840	0.247
LOW	0.040	0.220	0.040	3.565	0.260	0.040	0.080	0.090	2.96	0.110	0.100	0.000	0.105	0.220	0.375
HIGH	0.210	1.110	0.360	14.375	0.920	0.150	0.305	0.250	6.33	0.330	0.350	0.700	0.355	2.350	1.100

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- N1 — LIVER

LENGTH	NUM	1	MEAN	0.395	S. D.	0.000	LOW	0.395	HIGH	0.395					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.116	0.377	0.413	6.300	2.996	0.055	0.778	2.430	19.47	0.520	0.175	1.150	2.180	0.513	0.706
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.116	0.377	0.413	6.300	2.996	0.055	0.778	2.430	19.47	0.520	0.175	1.150	2.180	0.513	0.706

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM	4	MEAN	0.346	S. D.	0.027	LOW	0.305	HIGH	0.360					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0002	0000	0000	0000
MEAN	0.149	0.338	0.055	5.650	0.851	0.050	0.294	0.276	3.26	0.218	0.240	0.170	0.151	0.679	0.635
S. D.	0.077	0.158	0.031	2.482	0.094	0.029	0.228	0.195	0.41	0.043	0.180	0.071	0.023	0.276	0.223
LOW	0.075	0.200	0.030	2.412	0.740	0.020	0.050	0.125	3.00	0.170	0.090	0.120	0.130	0.400	0.400
HIGH	0.220	0.565	0.100	7.707	0.945	0.090	0.500	0.560	3.87	0.250	0.440	0.220	0.180	1.060	0.905

SOLE, DOVER — MICROSTOMUS PACIFICUS — 059021 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM	1	MEAN	0.375	S. D.	0.000	LOW	0.375	HIGH	0.375					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.070	0.220	0.055	11.745	0.545	0.055	0.205	0.190	4.55	0.200	0.000	0.000	0.205	0.000	0.625
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.070	0.220	0.055	11.745	0.545	0.055	0.205	0.190	4.55	0.200	0.000	0.000	0.205	0.000	0.625

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- CALIFORNIA — SITE- B2 — MUSCLE

LENGTH	NUM	10	MEAN	0.364	S. D.	0.022	LOW	0.336	HIGH	0.396					
WEIGHT	NUM	10	MEAN	0.467	S. D.	0.104	LOW	0.359	HIGH	0.652					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0009	0009	0010	0010	0008
N DET.	0000	0002	0004	0000	0000	0006	0001	0000	0000	0002	0008	0006	0000	0006	0000
MEAN	0.113	0.593	0.075	6.274	0.990	0.045	0.176	0.200	5.00	0.247	0.280	0.280	0.212	0.909	0.532
S. D.	0.106	0.675	0.032	1.631	0.372	0.017	0.104	0.072	1.34	0.103	0.000	0.171	0.063	0.059	0.121
LOW	0.020	0.200	0.030	4.450	0.555	0.030	0.040	0.040	3.18	0.130	0.000	0.100	0.120	0.820	0.336
HIGH	0.360	2.250	0.110	9.800	1.730	0.070	0.360	0.285	7.50	0.390	0.280	0.440	0.290	0.940	0.675

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- CALIFORNIA — SITE- B8 — MUSCLE

LENGTH	NUM	10	MEAN	0.382	S. D.	0.007	LOW	0.375	HIGH	0.394					
WEIGHT	NUM	10	MEAN	0.521	S. D.	0.030	LOW	0.482	HIGH	0.578					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0004	0000	0000	0004	0000	0001	0000	0001	0008	0009	0000	0003	0000
MEAN	0.137	0.422	0.069	5.910	0.853	0.033	0.175	0.183	4.16	0.288	0.610	0.200	0.113	0.626	0.605
S. D.	0.041	0.209	0.034	3.734	0.158	0.021	0.086	0.066	0.94	0.165	0.368	0.000	0.031	0.298	0.170
LOW	0.085	0.100	0.035	2.540	0.663	0.010	0.070	0.030	2.78	0.120	0.350	0.000	0.070	0.310	0.415
HIGH	0.200	0.740	0.110	13.000	1.180	0.070	0.390	0.245	6.15	0.640	0.870	0.200	0.165	1.120	0.920

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- CALIFORNIA — SITE- F4 — MUSCLE

LENGTH	NUM	10	MEAN	0.415	S. D.	0.039	LOW	0.350	HIGH	0.460					
WEIGHT	NUM	10	MEAN	0.538	S. D.	0.059	LOW	0.450	HIGH	0.620					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.098	0.588	0.053	4.795	0.679	0.037	0.226	0.302	5.12	0.193	0.171	0.272	0.179	0.683	1.157
S. D.	0.052	0.215	0.013	1.686	0.186	0.013	0.232	0.083	1.58	0.069	0.136	0.120	0.070	0.229	0.359
LOW	0.030	0.280	0.030	1.475	0.280	0.010	0.010	0.095	2.90	0.060	0.060	0.130	0.130	0.440	0.735
HIGH	0.170	0.940	0.075	6.625	0.906	0.060	0.675	0.380	7.63	0.295	0.370	0.380	0.340	1.060	1.750

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- CALIFORNIA — SITE- F4 — LIVER

LENGTH	NUM	1	MEAN	0.361	S. D.	0.000	LOW	0.361	HIGH	0.361					
WEIGHT	NUM	1	MEAN	0.390	S. D.	0.000	LOW	0.390	HIGH	0.390					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.630	1.220	4.800	2.280	0.070	0.190	0.680	30.00	0.400	0.250	0.090	0.990	0.560	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.630	1.220	4.800	2.280	0.070	0.190	0.680	30.00	0.400	0.250	0.090	0.990	0.560	0.750

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- CALIFORNIA — SITE- F8 — MUSCLE

LENGTH	NUM	3	MEAN	0.293	S. D.	0.023	LOW	0.280	HIGH	0.320					
WEIGHT	NUM	3	MEAN	0.193	S. D.	0.025	LOW	0.170	HIGH	0.220					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.063	0.482	0.085	4.796	0.592	0.047	0.298	0.300	4.77	0.257	0.620	0.133	0.322	0.675	1.333
S. D.	0.049	0.094	0.013	2.927	0.244	0.008	0.053	0.097	0.21	0.104	0.000	0.103	0.093	0.082	0.128
LOW	0.030	0.380	0.075	1.437	0.335	0.040	0.240	0.190	4.53	0.180	0.000	0.060	0.235	0.625	1.185
HIGH	0.120	0.565	0.100	6.800	0.820	0.055	0.345	0.375	4.94	0.375	0.620	0.205	0.420	0.770	1.410

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- H7 — MUSCLE

LENGTH	NUM	10	MEAN	0.361	S. D.	0.003	LOW	0.360	HIGH	0.370					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0002	0000	0000	0005	0000	0000	0000	0001	0005	0007	0000	0002	0000
MEAN	0.081	0.494	0.103	16.413	0.993	0.051	0.246	0.228	3.91	0.320	0.211	0.327	0.210	0.683	0.560
S. D.	0.139	0.217	0.071	15.672	0.325	0.020	0.144	0.093	0.91	0.239	0.142	0.045	0.042	0.366	0.115
LOW	0.020	0.200	0.030	3.555	0.545	0.030	0.103	0.110	2.38	0.110	0.030	0.280	0.160	0.300	0.400
HIGH	0.450	0.915	0.260	51.225	1.590	0.070	0.500	0.370	4.77	0.815	0.370	0.370	0.300	1.430	0.720

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- H7 — LIVER

LENGTH	NUM	1	MEAN	0.370	S. D.	0.000	LOW	0.370	HIGH	0.370					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.020	0.785	0.500	0.000	1.970	0.030	0.435	6.390	51.07	0.610	0.230	0.400	2.360	0.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.785	0.500	0.000	1.970	0.030	0.435	6.390	51.07	0.610	0.230	0.400	2.360	0.000	0.380

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	0.300	S. D.	0.000	LOW	0.300	HIGH	0.300					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.073	0.566	0.000	5.060	0.730	0.000	0.153	0.266	4.44	0.180	0.000	0.000	0.253	0.700	0.965
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.073	0.566	0.000	5.060	0.730	0.000	0.153	0.266	4.44	0.180	0.000	0.000	0.253	0.700	0.965

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- M2 — MUSCLE

LENGTH	NUM	9	MEAN	0.327	S. D.	0.018	LOW	0.315	HIGH	0.375					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0001	0000	0000	0002	0001	0000	0000	0001	0006	0008	0000	0002	0000
MEAN	0.068	0.603	0.098	13.466	0.911	0.044	0.179	0.254	4.84	0.319	0.073	0.500	0.303	1.274	0.773
S. D.	0.025	0.239	0.109	7.255	0.336	0.011	0.067	0.130	1.01	0.200	0.051	0.000	0.093	0.693	0.289
LOW	0.030	0.250	0.010	6.283	0.515	0.030	0.090	0.103	3.73	0.140	0.030	0.000	0.140	0.570	0.350
HIGH	0.105	1.000	0.360	24.825	1.705	0.060	0.306	0.430	6.22	0.750	0.130	0.500	0.430	2.440	1.250

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- M2 — LIVER

LENGTH	NUM	1	MEAN	0.375	S. D.	0.000	LOW	0.375	HIGH	0.375					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.060	1.210	0.645	7.655	2.275	0.070	0.422	7.085	29.82	0.710	0.210	0.540	2.090	1.650	0.425
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.060	1.210	0.645	7.655	2.275	0.070	0.422	7.085	29.82	0.710	0.210	0.540	2.090	1.650	0.425

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	1	MEAN	0.310	S. D.	0.000	LOW	0.310	HIGH	0.310					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.105	0.400	0.065	4.466	0.436	0.050	0.400	0.215	3.32	0.260	0.050	0.210	0.200	0.940	0.550
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.105	0.400	0.065	4.466	0.436	0.050	0.400	0.215	3.32	0.260	0.050	0.210	0.200	0.940	0.550

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	3	MEAN	0.330	S. D.	0.000	LOW	0.330	HIGH	0.330					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0002	0000	0000	0002	0001	0001	0000	0000	0002	0003	0000	0001	0000
MEAN	0.083	0.577	0.065	5.039	0.793	0.020	0.179	0.140	4.24	0.267	0.870	0.000	0.113	0.838	0.595
S. D.	0.004	0.186	0.000	2.467	0.133	0.000	0.144	0.000	1.66	0.090	0.000	0.000	0.075	0.144	0.160
LOW	0.080	0.380	0.000	3.100	0.640	0.000	0.077	0.140	2.82	0.180	0.000	0.000	0.070	0.736	0.430
HIGH	0.086	0.750	0.065	7.816	0.870	0.020	0.280	0.140	6.06	0.360	0.870	0.000	0.200	0.940	0.750

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	10	MEAN	0.380	S. D.	0.011	LOW	0.360	HIGH	0.385					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0005	0000	0000	0006	0002	0000	0000	0001	0008	0009	0000	0000	0000
MEAN	0.045	0.513	0.032	11.016	0.637	0.030	0.196	0.200	5.01	0.279	0.400	0.120	0.243	0.653	0.752
S. D.	0.028	0.304	0.016	5.924	0.284	0.018	0.129	0.044	0.78	0.188	0.453	0.000	0.072	0.548	0.458
LOW	0.018	0.200	0.010	4.500	0.195	0.010	0.060	0.130	3.79	0.040	0.080	0.000	0.125	0.020	0.190
HIGH	0.110	1.250	0.050	24.750	1.050	0.050	0.400	0.290	6.19	0.575	0.720	0.120	0.340	1.630	1.630

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- N1 — LIVER

LENGTH	NUM	2	MEAN	0.360	S. D.	0.000	LOW	0.360	HIGH	0.360					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0000
MEAN	0.055	0.897	0.818	7.875	2.400	0.173	0.118	5.258	26.15	0.345	0.000	0.583	1.700	0.273	1.000
S. D.	0.007	0.292	0.025	1.591	0.127	0.046	0.045	1.199	2.69	0.000	0.000	0.258	0.445	0.173	0.707
LOW	0.050	0.690	0.800	6.750	2.310	0.140	0.086	4.410	24.24	0.000	0.000	0.400	1.385	0.150	0.500
HIGH	0.060	1.103	0.835	9.000	2.490	0.205	0.150	6.105	28.05	0.345	0.000	0.765	2.015	0.395	1.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SOLE, ENGLISH — PAROPHRYS VETULUS — 059022 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM 6	MEAN 0.323	S. D. 0.004	LOW 0.315	HIGH 0.325		
WEIGHT	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0003	0005	0000	0001	0000
MEAN	0.100	0.412	0.085	15.742	0.793	0.048	0.281	0.226	3.85	0.282	0.660	0.380	0.345	1.200	0.569
S. D.	0.048	0.156	0.040	12.042	0.211	0.031	0.106	0.031	0.79	0.072	0.511	0.000	0.195	0.808	0.098
LOW	0.055	0.285	0.036	5.225	0.430	0.030	0.182	0.180	2.84	0.220	0.110	0.000	0.130	0.550	0.500
HIGH	0.190	0.685	0.140	37.010	1.085	0.110	0.440	0.263	5.00	0.390	1.120	0.380	0.610	2.580	0.750

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- E8 — MUSCLE

LENGTH	NUM 5	MEAN 0.392	S. D. 0.069	LOW 0.298	HIGH 0.480		
WEIGHT	NUM 5	MEAN 0.933	S. D. 0.468	LOW 0.343	HIGH 1.475		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.100	0.382	0.054	11.288	0.381	0.034	0.133	0.216	3.87	0.208	0.130	0.000	0.142	0.533	0.462
S. D.	0.078	0.174	0.008	9.039	0.201	0.005	0.058	0.064	0.53	0.031	0.000	0.000	0.025	0.132	0.045
LOW	0.020	0.250	0.040	4.350	0.200	0.030	0.060	0.150	3.13	0.170	0.000	0.000	0.115	0.310	0.390
HIGH	0.175	0.660	0.060	23.016	0.625	0.040	0.190	0.315	4.46	0.240	0.130	0.000	0.175	0.630	0.500

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM 10	MEAN 0.293	S. D. 0.000	LOW 0.293	HIGH 0.293		
WEIGHT	NUM 10	MEAN 0.349	S. D. 0.000	LOW 0.349	HIGH 0.349		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0007	0005	0000	0000	0000
MEAN	0.060	0.404	0.086	5.751	0.602	0.023	0.195	0.232	4.44	0.177	0.147	0.216	0.151	0.647	0.436
S. D.	0.054	0.201	0.081	1.942	0.321	0.010	0.100	0.112	1.63	0.065	0.075	0.219	0.056	0.131	0.256
LOW	0.020	0.120	0.020	3.345	0.250	0.010	0.050	0.060	1.63	0.060	0.060	0.060	0.060	0.500	0.160
HIGH	0.190	0.690	0.305	8.750	1.120	0.040	0.380	0.440	7.81	0.295	0.190	0.560	0.225	0.840	0.880

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- I7 — LIVER

LENGTH	NUM 1	MEAN 0.293	S. D. 0.000	LOW 0.293	HIGH 0.293		
WEIGHT	NUM 1	MEAN 0.349	S. D. 0.000	LOW 0.349	HIGH 0.349		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.750	0.230	8.150	2.000	0.020	0.060	2.060	17.50	0.290	0.410	1.410	1.000	0.750	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.750	0.230	8.150	2.000	0.020	0.060	2.060	17.50	0.290	0.410	1.410	1.000	0.750	0.220

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- I9 — MUSCLE

LENGTH	NUM 1	MEAN 0.384	S. D. 0.000	LOW 0.384	HIGH 0.384		
WEIGHT	NUM 1	MEAN 0.667	S. D. 0.000	LOW 0.667	HIGH 0.667		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.070	0.690	0.065	6.000	0.655	0.030	0.160	0.185	4.78	0.240	0.000	0.060	0.145	0.875	0.595
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.070	0.690	0.065	6.000	0.655	0.030	0.160	0.185	4.78	0.240	0.000	0.060	0.145	0.875	0.595

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J2 — MUSCLE

LENGTH	NUM 2	MEAN 0.380	S. D. 0.035	LOW 0.355	HIGH 0.405		
WEIGHT	NUM 2	MEAN 0.781	S. D. 0.207	LOW 0.634	HIGH 0.927		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.085	0.520	0.073	3.619	0.453	0.025	0.238	0.138	4.92	0.183	0.190	0.000	0.113	0.505	0.440
S. D.	0.000	0.184	0.004	2.212	0.131	0.007	0.152	0.067	1.65	0.004	0.000	0.000	0.011	0.177	0.085
LOW	0.000	0.390	0.070	2.055	0.360	0.020	0.130	0.090	3.75	0.180	0.000	0.000	0.105	0.380	0.380
HIGH	0.085	0.650	0.075	5.183	0.545	0.030	0.345	0.185	6.09	0.185	0.190	0.000	0.120	0.630	0.500

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J3 — MUSCLE

LENGTH	NUM 10	MEAN 0.356	S. D. 0.073	LOW 0.258	HIGH 0.440		
WEIGHT	NUM 10	MEAN 0.940	S. D. 0.446	LOW 0.290	HIGH 1.528		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0003	0000	0000	0000	0000	0006	0006	0000	0001	0000
MEAN	0.072	0.417	0.086	12.080	0.752	0.041	0.173	0.186	4.53	0.255	0.145	0.265	0.197	0.872	0.495
S. D.	0.043	0.148	0.091	8.408	0.258	0.011	0.132	0.069	0.75	0.132	0.110	0.095	0.060	0.488	0.267
LOW	0.030	0.190	0.030	1.700	0.420	0.030	0.060	0.050	3.44	0.140	0.050	0.150	0.096	0.440	0.010
HIGH	0.140	0.702	0.340	27.525	1.190	0.060	0.520	0.260	5.35	0.535	0.280	0.380	0.310	2.060	0.930

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM 1	MEAN 0.470	S. D. 0.000	LOW 0.470	HIGH 0.470		
WEIGHT	NUM 1	MEAN 1.220	S. D. 0.000	LOW 1.220	HIGH 1.220		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.040	0.310	0.060	2.300	0.250	0.040	0.130	0.180	3.38	0.150	0.000	0.000	0.090	0.560	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.310	0.060	2.300	0.250	0.040	0.130	0.180	3.38	0.150	0.000	0.000	0.090	0.560	0.630

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J6 — MUSCLE

LENGTH	NUM 6	MEAN 0.505	S. D. 0.037	LOW 0.460	HIGH 0.550		
WEIGHT	NUM 6	MEAN 1.790	S. D. 0.380	LOW 1.400	HIGH 2.268		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0001	0000	0000	0002	0000	0000	0000	0000	0006	0006	0000	0003	0000
MEAN	0.147	0.295	0.080	4.026	0.396	0.030	0.274	0.286	4.74	0.369	0.000	0.000	0.167	0.513	0.543
S. D.	0.224	0.107	0.034	3.988	0.199	0.012	0.273	0.150	1.84	0.154	0.000	0.000	0.071	0.294	0.191
LOW	0.020	0.130	0.040	0.510	0.050	0.020	0.073	0.125	1.69	0.160	0.000	0.000	0.090	0.310	0.365
HIGH	0.540	0.440	0.130	11.175	0.660	0.040	0.810	0.510	7.32	0.550	0.000	0.000	0.250	0.850	0.910

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J6 — LIVER

LENGTH	NUM 1	MEAN 0.550	S. D. 0.000	LOW 0.550	HIGH 0.550		
WEIGHT	NUM 1	MEAN 2.268	S. D. 0.000	LOW 2.268	HIGH 2.268		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.280	1.120	0.300	3.150	0.000	0.020	0.110	13.120	31.25	0.290	0.190	0.750	0.640	0.630	0.190
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.280	1.120	0.300	3.150	0.000	0.020	0.110	13.120	31.25	0.290	0.190	0.750	0.640	0.630	0.190

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM 10	MEAN 0.456	S. D. 0.071	LOW 0.360	HIGH 0.550		
WEIGHT	NUM 10	MEAN 1.592	S. D. 0.696	LOW 0.694	HIGH 2.536		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0009	0009	0000	0001	0000
MEAN	0.113	0.491	0.084	4.805	0.513	0.033	0.374	0.185	4.80	0.192	0.190	0.190	0.104	0.628	0.501
S. D.	0.069	0.276	0.029	2.282	0.167	0.012	0.360	0.093	0.98	0.058	0.000	0.000	0.042	0.297	0.124
LOW	0.040	0.240	0.060	1.340	0.300	0.020	0.060	0.090	2.56	0.040	0.000	0.000	0.060	0.190	0.280
HIGH	0.220	1.130	0.140	8.500	0.800	0.060	0.940	0.400	6.06	0.250	0.190	0.190	0.190	1.250	0.645

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J8 — MUSCLE

LENGTH	NUM 11	MEAN 0.443	S. D. 0.079	LOW 0.351	HIGH 0.570		
WEIGHT	NUM 11	MEAN 1.412	S. D. 0.731	LOW 0.645	HIGH 2.750		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0009	0011	0000	0003	0000
MEAN	0.051	0.396	0.065	4.552	0.471	0.029	0.222	0.258	5.21	0.227	0.137	0.250	0.154	0.604	0.577
S. D.	0.024	0.176	0.028	2.395	0.215	0.008	0.175	0.118	2.46	0.081	0.050	0.000	0.037	0.228	0.212
LOW	0.020	0.185	0.030	1.000	0.080	0.015	0.120	0.060	3.28	0.130	0.090	0.000	0.100	0.250	0.330
HIGH	0.090	0.750	0.120	8.440	0.880	0.040	0.760	0.450	12.50	0.410	0.190	0.250	0.220	0.875	1.130

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- J9 — MUSCLE

LENGTH	NUM 15	MEAN 0.467	S. D. 0.051	LOW 0.381	HIGH 0.560		
WEIGHT	NUM 15	MEAN 1.347	S. D. 0.452	LOW 0.567	HIGH 2.296		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015
N DET.	0009	0000	0000	0000	0000	0001	0001	0000	0000	0000	0013	0011	0000	0001	0000
MEAN	0.045	0.343	0.080	3.844	0.472	0.033	0.199	0.284	5.32	0.215	0.140	0.430	0.188	0.718	0.599
S. D.	0.029	0.128	0.050	1.462	0.214	0.018	0.111	0.126	2.02	0.053	0.113	0.180	0.162	0.180	0.207
LOW	0.020	0.100	0.036	1.366	0.070	0.010	0.090	0.180	3.38	0.150	0.060	0.250	0.060	0.490	0.310
HIGH	0.100	0.590	0.190	6.300	0.800	0.070	0.500	0.690	11.88	0.330	0.220	0.630	0.750	1.030	0.925

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM 1	MEAN 0.261	S. D. 0.000	LOW 0.261	HIGH 0.261		
WEIGHT	NUM 1	MEAN 0.229	S. D. 0.000	LOW 0.229	HIGH 0.229		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.150	0.220	0.045	5.912	0.530	0.025	0.190	0.220	5.50	0.155	0.000	0.220	0.130	0.560	0.525
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.150	0.220	0.045	5.912	0.530	0.025	0.190	0.220	5.50	0.155	0.000	0.220	0.130	0.560	0.525

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	12	MEAN	0.277	S. D.	0.026	LOW	0.235	HIGH	0.312					
WEIGHT	NUM	12	MEAN	0.289	S. D.	0.082	LOW	0.173	HIGH	0.422					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0011	0012	0012	0011	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0012	0011	0000	0003	0000
MEAN	0.097	0.348	0.068	4.233	0.484	0.043	0.200	0.254	5.32	0.207	0.000	0.310	0.160	0.652	0.649
S. D.	0.101	0.161	0.021	3.004	0.194	0.011	0.188	0.173	1.52	0.121	0.000	0.000	0.059	0.203	0.287
LOW	0.020	0.190	0.030	0.510	0.130	0.030	0.040	0.060	2.19	0.010	0.000	0.000	0.090	0.380	0.380
HIGH	0.390	0.690	0.120	11.630	0.775	0.060	0.710	0.750	7.59	0.480	0.000	0.310	0.310	1.000	1.220

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- N5 — MUSCLE

LENGTH	NUM	7	MEAN	0.315	S. D.	0.115	LOW	0.200	HIGH	0.490					
WEIGHT	NUM	7	MEAN	0.602	S. D.	0.659	LOW	0.099	HIGH	1.755					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.047	0.482	0.066	5.075	0.846	0.029	0.663	0.264	5.97	0.187	0.310	0.285	0.200	0.694	0.449
S. D.	0.046	0.205	0.011	2.033	0.647	0.007	1.336	0.079	1.30	0.045	0.000	0.134	0.091	0.130	0.118
LOW	0.020	0.250	0.060	1.200	0.350	0.020	0.120	0.210	4.06	0.120	0.000	0.190	0.130	0.560	0.220
HIGH	0.100	0.750	0.090	7.450	2.200	0.040	3.690	0.440	7.44	0.260	0.310	0.380	0.380	0.870	0.550

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- N8 — MUSCLE

LENGTH	NUM	1	MEAN	0.470	S. D.	0.000	LOW	0.470	HIGH	0.470					
WEIGHT	NUM	1	MEAN	1.445	S. D.	0.000	LOW	1.445	HIGH	1.445					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.000	0.190	0.040	0.000	0.000	0.020	0.190	0.330	6.19	0.340	0.000	0.000	0.100	0.000	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.040	0.000	0.000	0.020	0.190	0.330	6.19	0.340	0.000	0.000	0.100	0.000	0.630

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- O1 — MUSCLE

LENGTH	NUM	4	MEAN	0.294	S. D.	0.035	LOW	0.256	HIGH	0.340					
WEIGHT	NUM	4	MEAN	0.368	S. D.	0.148	LOW	0.197	HIGH	0.559					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0002	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.070	0.410	0.075	5.563	0.513	0.037	0.143	0.270	5.76	0.210	0.000	0.000	0.140	0.610	0.570
S. D.	0.042	0.240	0.006	4.449	0.264	0.006	0.062	0.054	1.79	0.070	0.000	0.000	0.028	0.214	0.235
LOW	0.040	0.190	0.070	1.250	0.250	0.030	0.060	0.200	3.60	0.130	0.000	0.000	0.100	0.310	0.310
HIGH	0.100	0.750	0.080	10.700	0.740	0.040	0.190	0.330	7.50	0.290	0.000	0.000	0.160	0.810	0.880

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- O2 — MUSCLE

LENGTH	NUM	21	MEAN	0.341	S. D.	0.066	LOW	0.244	HIGH	0.500					
WEIGHT	NUM	21	MEAN	0.503	S. D.	0.349	LOW	0.190	HIGH	1.756					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
N DET.	0006	0000	0000	0000	0000	0000	0002	0000	0000	0000	0020	0018	0000	0006	0000
MEAN	0.076	0.396	0.067	3.971	0.648	0.033	0.119	0.285	4.77	0.210	0.160	0.130	0.156	0.634	0.555
S. D.	0.073	0.207	0.026	2.630	0.224	0.011	0.060	0.157	1.15	0.070	0.000	0.061	0.074	0.132	0.224
LOW	0.020	0.130	0.040	0.950	0.210	0.010	0.040	0.100	1.63	0.100	0.000	0.060	0.070	0.380	0.160
HIGH	0.260	1.000	0.130	9.450	1.120	0.060	0.250	0.630	6.88	0.390	0.160	0.170	0.440	0.810	1.130

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- O3 — MUSCLE

LENGTH	NUM	2	MEAN	0.421	S. D.	0.134	LOW	0.326	HIGH	0.515					
WEIGHT	NUM	2	MEAN	1.012	S. D.	0.653	LOW	0.550	HIGH	1.474					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.052	0.220	0.028	7.409	0.803	0.025	0.060	0.205	3.92	0.153	0.000	0.000	0.093	0.418	0.518
S. D.	0.045	0.042	0.011	2.487	0.081	0.000	0.000	0.233	4.57	0.117	0.000	0.000	0.103	0.322	0.110
LOW	0.020	0.190	0.020	5.650	0.745	0.000	0.060	0.040	0.69	0.070	0.000	0.000	0.020	0.190	0.440
HIGH	0.083	0.250	0.035	9.167	0.860	0.025	0.060	0.370	7.15	0.235	0.000	0.000	0.165	0.645	0.595

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	1	MEAN	0.420	S. D.	0.000	LOW	0.420	HIGH	0.420					
WEIGHT	NUM	1	MEAN	1.040	S. D.	0.000	LOW	1.040	HIGH	1.040					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.020	0.380	0.100	3.166	0.570	0.030	0.500	0.310	4.97	0.290	0.000	0.310	0.105	0.810	0.440
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.380	0.100	3.166	0.570	0.030	0.500	0.310	4.97	0.290	0.000	0.310	0.105	0.810	0.440

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

FLOUNDER, WINTER — PSEUDOPLEURONECTES AMERICANUS — 059030 — AREA- NORTH ATLANTIC — SITE- P2 — MUSCLE

LENGTH	NUM 2	MEAN 0.355	S. D. 0.049	LOW 0.320	HIGH 0.390		
WEIGHT	NUM 2	MEAN 1.625	S. D. 0.969	LOW 0.940	HIGH 2.310		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.000	0.315	0.048	1.815	0.653	0.035	0.125	0.590	2.67	0.168	0.000	0.340	0.173	0.875	0.970
S. D.	0.000	0.262	0.025	0.092	0.088	0.007	0.092	0.410	1.30	0.124	0.000	0.000	0.011	0.092	0.792
LOW	0.000	0.130	0.030	1.750	0.590	0.030	0.060	0.300	1.75	0.080	0.000	0.000	0.165	0.810	0.410
HIGH	0.000	0.500	0.065	1.880	0.715	0.040	0.190	0.880	3.59	0.255	0.000	0.340	0.180	0.940	1.530

BALLYHOO — HEMIRAMPHUS BRASILIENSIS — 062014 — AREA- SOUTH ATLANTIC — SITE- M1 — WHOLE

LENGTH	NUM 38	MEAN 0.220	S. D. 0.033	LOW 0.191	HIGH 0.288		
WEIGHT	NUM 38	MEAN 0.074	S. D. 0.018	LOW 0.059	HIGH 0.122		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0038	0038	0038	0038	0037	0038	0038	0037	0036	0038	0038	0037	0037	0038	0037
N DET.	0032	0000	0000	0000	0000	0000	0001	0000	0000	0000	0005	0000	0000	0009	0000
MEAN	0.045	1.613	0.204	4.093	0.729	0.166	0.498	0.630	25.48	0.731	0.379	0.683	0.852	2.192	2.026
S. D.	0.048	0.524	0.084	2.549	0.237	0.060	0.155	0.196	10.23	0.409	0.165	0.428	0.306	0.703	1.004
LOW	0.010	0.750	0.060	0.320	0.130	0.070	0.270	0.325	2.50	0.150	0.060	0.080	0.500	1.100	0.950
HIGH	0.140	2.916	0.430	10.450	1.260	0.320	0.945	1.250	55.36	1.710	0.880	2.190	1.890	4.320	4.750

BALLYHOO — HEMIRAMPHUS BRASILIENSIS — 062014 — AREA- SOUTH ATLANTIC — SITE- M4 — WHOLE

LENGTH	NUM 20	MEAN 0.288	S. D. 0.004	LOW 0.278	HIGH 0.294		
WEIGHT	NUM 20	MEAN 0.116	S. D. 0.006	LOW 0.101	HIGH 0.126		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0020	0020	0019	0020	0020	0020	0020	0019	0020	0019	0020
N DET.	0020	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0005	0000
MEAN	0.000	1.305	0.184	3.272	0.793	0.118	0.371	0.524	25.33	0.367	0.287	0.589	0.624	1.758	1.634
S. D.	0.000	0.360	0.034	2.107	0.363	0.031	0.142	0.154	8.93	0.135	0.076	0.253	0.184	0.578	0.590
LOW	0.000	0.500	0.110	0.600	0.130	0.030	0.070	0.100	2.31	0.060	0.190	0.130	0.080	0.470	0.590
HIGH	0.000	1.880	0.230	8.300	1.460	0.180	0.750	0.720	41.88	0.510	0.410	1.250	0.870	2.640	3.130

GOATFISH — MULLOIDICHTYS SAMOENSIS — 066009 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		
WEIGHT	NUM 3	MEAN 1.224	S. D. 0.029	LOW 1.191	HIGH 1.247		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0001	0001	0003	0000	0001	0000
MEAN	0.035	0.299	0.052	5.692	0.397	0.025	0.133	0.136	3.26	0.209	0.230	0.000	0.099	0.805	0.408
S. D.	0.007	0.096	0.013	1.760	0.045	0.000	0.085	0.034	0.14	0.105	0.255	0.000	0.025	0.177	0.083
LOW	0.030	0.237	0.040	3.740	0.350	0.025	0.075	0.110	3.15	0.135	0.050	0.000	0.070	0.680	0.340
HIGH	0.040	0.410	0.065	7.160	0.440	0.025	0.230	0.175	3.42	0.283	0.410	0.000	0.116	0.930	0.500

GOATFISH — MULLOIDICHTYS SAMOENSIS — 066009 — AREA- HAWAII — SITE- H1 — MUSCLE

LENGTH	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		
WEIGHT	NUM 10	MEAN 1.283	S. D. 0.339	LOW 0.992	HIGH 1.814		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0010	0000	0003	0000
MEAN	0.110	0.373	0.093	7.662	0.435	0.030	0.195	0.283	5.43	0.228	0.120	0.000	0.239	0.653	0.578
S. D.	0.073	0.198	0.045	4.829	0.226	0.011	0.160	0.193	2.03	0.068	0.000	0.000	0.267	0.196	0.148
LOW	0.040	0.060	0.050	1.780	0.050	0.010	0.040	0.080	2.50	0.120	0.000	0.000	0.060	0.300	0.405
HIGH	0.245	0.630	0.210	15.975	0.700	0.050	0.560	0.725	8.90	0.310	0.120	0.000	0.880	0.830	0.810

GOATFISH — MULLOIDICHTYS SAMOENSIS — 066009 — AREA- HAWAII — SITE- H4 — MUSCLE

LENGTH	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		
WEIGHT	NUM 7	MEAN 1.043	S. D. 0.116	LOW 0.851	HIGH 1.219		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0005	0006	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007
N DET.	0003	0000	0001	0000	0000	0000	0001	0000	0000	0000	0004	0003	0000	0002	0000
MEAN	0.036	0.470	0.066	3.581	0.715	0.031	0.163	0.240	3.87	0.199	0.323	0.215	0.084	0.676	0.551
S. D.	0.032	0.252	0.025	1.767	0.396	0.010	0.122	0.127	0.76	0.054	0.154	0.089	0.022	0.197	0.140
LOW	0.020	0.290	0.040	0.975	0.275	0.010	0.060	0.080	2.86	0.120	0.220	0.100	0.070	0.400	0.405
HIGH	0.085	0.950	0.110	5.462	1.340	0.040	0.380	0.405	4.95	0.260	0.500	0.310	0.130	0.905	0.780

GOATFISH — MULLOIDICHTYS SAMOENSIS — 066009 — AREA- HAWAII — SITE- H5 — MUSCLE

LENGTH	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		
WEIGHT	NUM 20	MEAN 0.998	S. D. 0.314	LOW 0.510	HIGH 1.588		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0018
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0019	0019	0000	0003	0000
MEAN	0.052	0.443	0.073	6.608	0.472	0.035	0.202	0.302	4.88	0.192	0.190	0.120	0.101	0.630	0.550
S. D.	0.030	0.219	0.015	4.494	0.164	0.011	0.099	0.098	1.30	0.077	0.000	0.000	0.039	0.172	0.185
LOW	0.020	0.190	0.050	1.270	0.060	0.010	0.060	0.040	2.19	0.090	0.000	0.000	0.040	0.300	0.220
HIGH	0.120	1.060	0.100	16.500	0.720	0.060	0.440	0.480	8.19	0.430	0.190	0.120	0.190	1.000	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- J3 — MUSCLE

LENGTH	NUM	3	MEAN	0.228	S. D.	0.021	LOW	0.204	HIGH	0.241					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	0.040	0.602	0.093	3.709	0.300	0.050	0.220	0.297	5.56	0.340	0.130	0.040	0.185	0.773	0.590
S. D.	0.028	0.194	0.038	0.552	0.200	0.010	0.192	0.085	0.27	0.075	0.000	0.000	0.033	0.322	0.148
LOW	0.020	0.395	0.050	3.087	0.070	0.040	0.085	0.200	5.38	0.285	0.130	0.000	0.155	0.545	0.420
HIGH	0.060	0.780	0.120	4.140	0.430	0.060	0.440	0.360	5.87	0.425	0.130	0.040	0.220	1.000	0.690

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- J3 — LIVER

LENGTH	NUM	1	MEAN	0.222	S. D.	0.000	LOW	0.222	HIGH	0.222					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.190	0.040	2.750	2.600	0.040	0.190	4.560	9.12	0.170	0.190	0.250	0.340	0.060	0.370
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.040	2.750	2.600	0.040	0.190	4.560	9.12	0.170	0.190	0.250	0.340	0.060	0.370

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	1	MEAN	0.970	S. D.	0.000	LOW	0.970	HIGH	0.970					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.220	0.310	0.030	10.050	0.970	0.020	0.190	0.250	5.81	0.220	0.000	0.000	0.070	0.380	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.220	0.310	0.030	10.050	0.970	0.020	0.190	0.250	5.81	0.220	0.000	0.000	0.070	0.380	0.310

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- J4 — LIVER

LENGTH	NUM	1	MEAN	0.970	S. D.	0.000	LOW	0.970	HIGH	0.970					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.050	0.315	0.080	4.197	1.100	0.030	0.190	2.895	11.62	0.160	0.190	0.280	0.165	0.310	0.345
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.315	0.080	4.197	1.100	0.030	0.190	2.895	11.62	0.160	0.190	0.280	0.165	0.310	0.345

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM	3	MEAN	0.843	S. D.	0.025	LOW	0.820	HIGH	0.870					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.178	0.370	0.062	19.967	0.933	0.028	0.167	0.160	3.74	0.128	0.000	0.000	0.092	0.402	0.360
S. D.	0.093	0.234	0.020	14.101	0.208	0.003	0.129	0.030	0.88	0.013	0.000	0.000	0.026	0.054	0.129
LOW	0.120	0.220	0.040	4.450	0.750	0.025	0.060	0.140	3.00	0.115	0.000	0.000	0.070	0.340	0.260
HIGH	0.285	0.640	0.080	32.000	1.160	0.030	0.310	0.195	4.72	0.140	0.000	0.000	0.120	0.440	0.505

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- J5 — LIVER

LENGTH	NUM	4	MEAN	0.838	S. D.	0.024	LOW	0.820	HIGH	0.870					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.037	0.618	0.404	4.863	1.535	0.057	0.095	7.567	20.57	0.175	0.440	0.440	0.318	0.426	0.363
S. D.	0.025	0.317	0.457	1.138	0.283	0.025	0.035	4.726	8.33	0.100	0.000	0.000	0.126	0.192	0.118
LOW	0.010	0.310	0.075	3.450	1.230	0.030	0.060	2.380	12.56	0.100	0.000	0.000	0.160	0.250	0.190
HIGH	0.060	1.000	1.070	6.200	1.840	0.080	0.130	11.630	31.25	0.320	0.440	0.440	0.460	0.690	0.440

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- K4 — MUSCLE

LENGTH	NUM	6	MEAN	0.698	S. D.	0.209	LOW	0.280	HIGH	0.820					
WEIGHT	NUM	4	MEAN	1.379	S. D.	0.817	LOW	0.340	HIGH	2.162					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000	0006	0006	0000	0000	0001
MEAN	0.156	0.490	0.061	14.406	1.110	0.034	0.113	0.269	4.84	0.184	0.000	0.000	0.151	0.578	0.344
S. D.	0.109	0.190	0.014	9.580	0.543	0.009	0.111	0.078	0.38	0.073	0.000	0.000	0.077	0.189	0.180
LOW	0.050	0.190	0.040	2.025	0.390	0.020	0.050	0.160	4.38	0.100	0.000	0.000	0.100	0.310	0.060
HIGH	0.340	0.750	0.085	27.165	1.700	0.040	0.310	0.360	5.25	0.285	0.000	0.000	0.305	0.810	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- K4 LIVER

LENGTH	NUM	3	MEAN	0.763	S. D.	0.051	LOW	0.720	HIGH	0.820				
WEIGHT	NUM	2	MEAN	2.020	S. D.	0.201	LOW	1.878	HIGH	2.162				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0003	0000	0000	0000	0000	0002	0001	0000	0000	0000	0002	0002	0000	0001	0001
MEAN	0.000	0.397	0.093	5.230	1.180	0.020	0.050	6.267	13.93	0.123	0.120	0.310	0.233	0.220	0.155
S. D.	0.000	0.096	0.015	2.174	0.459	0.000	0.014	3.244	5.25	0.083	0.000	0.000	0.068	0.042	0.134
LOW	0.000	0.310	0.080	2.800	0.800	0.000	0.040	4.130	8.94	0.030	0.000	0.000	0.180	0.190	0.060
HIGH	0.000	0.500	0.110	6.990	1.690	0.020	0.060	10.000	19.40	0.190	0.120	0.310	0.310	0.250	0.250

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- N2 MUSCLE

LENGTH	NUM	1	MEAN	0.700	S. D.	0.000	LOW	0.700	HIGH	0.700				
WEIGHT	NUM	1	MEAN	5.105	S. D.	0.000	LOW	5.105	HIGH	5.105				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.430	0.380	0.080	3.310	0.890	0.040	0.140	0.290	5.31	0.060	0.000	0.000	0.090	0.280	0.810
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.430	0.380	0.080	3.310	0.890	0.040	0.140	0.290	5.31	0.060	0.000	0.000	0.090	0.280	0.810

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	2	MEAN	0.516	S. D.	0.023	LOW	0.500	HIGH	0.532				
WEIGHT	NUM	2	MEAN	2.140	S. D.	0.461	LOW	1.814	HIGH	2.466				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.163	0.268	0.035	13.616	1.110	0.048	0.125	0.185	6.25	0.105	0.410	0.060	0.090	0.530	0.315
S. D.	0.060	0.110	0.007	0.000	0.000	0.039	0.092	0.007	4.60	0.021	0.000	0.000	0.042	0.311	0.049
LOW	0.120	0.190	0.030	0.000	0.000	0.020	0.060	0.180	3.00	0.090	0.000	0.000	0.060	0.310	0.280
HIGH	0.205	0.345	0.040	13.616	1.110	0.075	0.190	0.190	9.50	0.120	0.410	0.060	0.120	0.750	0.350

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- N4 MUSCLE

LENGTH	NUM	3	MEAN	0.780	S. D.	0.092	LOW	0.700	HIGH	0.880				
WEIGHT	NUM	3	MEAN	7.415	S. D.	3.023	LOW	5.448	HIGH	10.896				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.457	0.327	0.060	8.299	0.932	0.030	0.090	0.225	5.58	0.185	0.160	0.000	0.125	0.378	0.407
S. D.	0.341	0.131	0.000	3.842	0.214	0.000	0.036	0.035	1.15	0.015	0.000	0.000	0.009	0.106	0.113
LOW	0.130	0.205	0.060	4.730	0.690	0.000	0.060	0.190	4.25	0.170	0.000	0.000	0.115	0.310	0.325
HIGH	0.810	0.465	0.060	12.366	1.095	0.030	0.130	0.260	6.25	0.200	0.160	0.000	0.130	0.500	0.535

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- N5 MUSCLE

LENGTH	NUM	3	MEAN	0.673	S. D.	0.101	LOW	0.580	HIGH	0.780				
WEIGHT	NUM	3	MEAN	4.575	S. D.	1.944	LOW	3.280	HIGH	6.810				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.223	0.230	0.075	3.841	0.622	0.048	0.113	0.298	4.25	0.280	0.130	0.000	0.138	0.387	0.558
S. D.	0.172	0.046	0.031	3.485	0.438	0.004	0.045	0.096	1.52	0.125	0.000	0.000	0.020	0.068	0.305
LOW	0.070	0.190	0.050	0.110	0.120	0.045	0.070	0.210	2.50	0.160	0.000	0.000	0.120	0.310	0.375
HIGH	0.410	0.280	0.110	7.012	0.925	0.050	0.160	0.400	5.17	0.410	0.130	0.000	0.160	0.440	0.910

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- N8 MUSCLE

LENGTH	NUM	6	MEAN	0.373	S. D.	0.117	LOW	0.300	HIGH	0.610				
WEIGHT	NUM	6	MEAN	1.097	S. D.	1.330	LOW	0.432	HIGH	3.805				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0004	0000	0003	0000
MEAN	0.133	0.329	0.078	4.832	0.536	0.038	0.214	0.268	4.71	0.265	0.000	0.265	0.165	0.647	0.543
S. D.	0.138	0.197	0.025	2.882	0.225	0.012	0.143	0.107	0.99	0.087	0.000	0.064	0.048	0.156	0.226
LOW	0.020	0.130	0.050	0.480	0.110	0.020	0.095	0.170	3.13	0.180	0.000	0.220	0.090	0.500	0.410
HIGH	0.380	0.655	0.120	7.800	0.770	0.055	0.440	0.395	5.75	0.410	0.000	0.310	0.230	0.810	1.000

GOOSEFISH LOPHIUS AMERICANUS 068001 AREA- NORTH ATLANTIC SITE- O1 H&G

LENGTH	NUM	1	MEAN	0.640	S. D.	0.000	LOW	0.640	HIGH	0.640				
WEIGHT	NUM	1	MEAN	0.974	S. D.	0.000	LOW	0.974	HIGH	0.974				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.200	0.305	0.000	14.550	0.440	0.040	0.780	0.640	4.29	0.320	0.000	0.000	0.070	0.000	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.200	0.305	0.000	14.550	0.440	0.040	0.780	0.640	4.29	0.320	0.000	0.000	0.070	0.000	0.400

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- 01 — MUSCLE

LENGTH	NUM	15	MEAN	0.532	S. D.	0.155	LOW	0.275	HIGH	0.820					
WEIGHT	NUM	15	MEAN	3.352	S. D.	2.941	LOW	0.274	HIGH	10.900					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0014	0015	0015	0015	0015	0014	0015	0015	0015	0015	0015	0015	0015	0014
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0013	0012	0000	0002	0000
MEAN	0.177	0.310	0.071	9.443	0.718	0.034	0.150	0.267	5.55	0.191	0.410	0.470	0.151	0.530	0.482
S. D.	0.114	0.130	0.034	5.010	0.300	0.008	0.074	0.125	2.16	0.088	0.311	0.266	0.045	0.209	0.167
LOW	0.040	0.130	0.040	0.980	0.060	0.015	0.060	0.060	1.44	0.060	0.190	0.220	0.090	0.190	0.040
HIGH	0.450	0.625	0.160	17.500	1.130	0.045	0.345	0.590	9.73	0.350	0.630	0.750	0.265	0.830	0.750

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- 01 — LIVER

LENGTH	NUM	1	MEAN	0.640	S. D.	0.000	LOW	0.640	HIGH	0.640					
WEIGHT	NUM	1	MEAN	0.974	S. D.	0.000	LOW	0.974	HIGH	0.974					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.020	0.470	0.190	0.000	0.000	0.050	0.060	24.800	12.00	0.280	0.160	0.000	0.530	0.670	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.470	0.190	0.000	0.000	0.050	0.060	24.800	12.00	0.280	0.160	0.000	0.530	0.670	0.000

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- 02 — MUSCLE

LENGTH	NUM	1	MEAN	0.520	S. D.	0.000	LOW	0.520	HIGH	0.520					
WEIGHT	NUM	1	MEAN	2.595	S. D.	0.000	LOW	2.595	HIGH	2.595					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.180	0.250	0.060	13.550	0.630	0.030	0.880	0.260	4.13	0.190	0.000	0.000	0.130	0.250	0.530
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.180	0.250	0.060	13.550	0.630	0.030	0.880	0.260	4.13	0.190	0.000	0.000	0.130	0.250	0.530

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- 03 — MUSCLE

LENGTH	NUM	4	MEAN	0.443	S. D.	0.110	LOW	0.318	HIGH	0.570					
WEIGHT	NUM	2	MEAN	0.828	S. D.	0.216	LOW	0.675	HIGH	0.980					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0003	0000	0001	0000
MEAN	0.106	0.213	0.045	7.588	0.474	0.025	0.258	0.330	4.76	0.213	0.000	0.130	0.096	0.470	0.518
S. D.	0.076	0.029	0.010	5.045	0.116	0.013	0.172	0.219	2.70	0.051	0.000	0.000	0.064	0.197	0.155
LOW	0.020	0.190	0.040	2.900	0.350	0.010	0.060	0.110	0.81	0.170	0.000	0.000	0.010	0.250	0.440
HIGH	0.200	0.250	0.060	14.750	0.575	0.040	0.370	0.620	6.75	0.270	0.000	0.130	0.150	0.630	0.750

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- 06 — MUSCLE

LENGTH	NUM	8	MEAN	0.628	S. D.	0.103	LOW	0.500	HIGH	0.800					
WEIGHT	NUM	8	MEAN	3.907	S. D.	1.602	LOW	1.885	HIGH	6.520					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0006	0001	0000	0000
MEAN	0.189	0.333	0.047	10.548	0.842	0.030	0.202	0.195	4.32	0.198	0.140	0.085	0.134	0.530	0.498
S. D.	0.091	0.132	0.013	1.671	0.189	0.011	0.077	0.086	1.76	0.071	0.071	0.064	0.052	0.130	0.085
LOW	0.120	0.190	0.020	8.000	0.546	0.015	0.100	0.050	0.06	0.100	0.090	0.040	0.070	0.310	0.380
HIGH	0.400	0.565	0.060	13.495	1.120	0.040	0.290	0.340	5.34	0.310	0.190	0.130	0.205	0.690	0.660

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	1	MEAN	0.740	S. D.	0.000	LOW	0.740	HIGH	0.740					
WEIGHT	NUM	1	MEAN	5.480	S. D.	0.000	LOW	5.480	HIGH	5.480					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.165	0.190	0.030	15.200	0.910	0.025	0.080	0.420	3.62	0.145	0.000	0.000	0.130	0.500	0.535
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.165	0.190	0.030	15.200	0.910	0.025	0.080	0.420	3.62	0.145	0.000	0.000	0.130	0.500	0.535

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	4	MEAN	0.805	S. D.	0.082	LOW	0.700	HIGH	0.900					
WEIGHT	NUM	4	MEAN	10.783	S. D.	4.392	LOW	7.264	HIGH	16.344					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0003	0004	0004	0004	0004	0003	0004	0003	0003	0004	0004	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.606	0.477	0.078	10.916	0.838	0.078	0.088	0.584	6.02	0.168	0.220	2.160	0.135	0.405	0.410
S. D.	0.324	0.127	0.025	4.844	0.251	0.074	0.026	0.218	1.18	0.060	0.000	0.000	0.023	0.113	0.136
LOW	0.245	0.340	0.055	6.487	0.540	0.025	0.060	0.390	4.96	0.120	0.000	0.000	0.110	0.310	0.295
HIGH	1.020	0.590	0.110	16.476	1.150	0.130	0.110	0.880	7.30	0.235	0.220	2.160	0.155	0.530	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

GOOSEFISH — LOPHIUS AMERICANUS — 068001 — AREA- NORTH ATLANTIC — SITE- S1 — MUSCLE

LENGTH	NUM 20	MEAN 0.301	S. D. 0.085	LOW 0.223	HIGH 0.610		
WEIGHT	NUM 20	MEAN 0.565	S. D. 0.633	LOW 0.167	HIGH 3.130		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0019
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0018	0020	0000	0007	0000
MEAN	0.090	0.338	0.074	4.160	0.478	0.042	0.161	0.308	4.94	0.236	0.170	0.000	0.176	0.593	0.591
S. D.	0.056	0.155	0.024	3.147	0.215	0.013	0.083	0.160	1.44	0.088	0.014	0.000	0.045	0.182	0.166
LOW	0.020	0.130	0.025	1.470	0.070	0.030	0.060	0.130	2.00	0.090	0.160	0.000	0.080	0.380	0.375
HIGH	0.190	0.750	0.125	12.500	1.010	0.080	0.380	0.810	8.56	0.490	0.180	0.000	0.245	0.940	1.000

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- CALIFORNIA — SITE- F4 — MUSCLE

LENGTH	NUM 10	MEAN 0.573	S. D. 0.037	LOW 0.515	HIGH 0.630		
WEIGHT	NUM 10	MEAN 2.114	S. D. 0.525	LOW 1.410	HIGH 2.950		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0010	0000	0007	0000
MEAN	0.135	0.335	0.083	1.163	0.395	0.033	0.146	0.327	3.42	0.230	0.180	0.000	0.107	0.483	0.506
S. D.	0.073	0.082	0.041	0.919	0.201	0.006	0.056	0.103	0.34	0.053	0.000	0.000	0.030	0.131	0.120
LOW	0.020	0.190	0.040	0.295	0.130	0.020	0.060	0.130	2.78	0.160	0.000	0.000	0.050	0.380	0.440
HIGH	0.280	0.440	0.175	3.000	0.770	0.040	0.260	0.480	3.81	0.320	0.180	0.000	0.155	0.630	0.810

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- CALIFORNIA — SITE- F4 — LIVER

LENGTH	NUM 1	MEAN 0.573	S. D. 0.000	LOW 0.573	HIGH 0.573		
WEIGHT	NUM 1	MEAN 2.114	S. D. 0.000	LOW 2.114	HIGH 2.114		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.080	0.220	2.460	0.895	1.285	0.055	0.370	27.690	23.91	0.290	0.530	0.000	0.505	0.500	0.410
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.080	0.220	2.460	0.895	1.285	0.055	0.370	27.690	23.91	0.290	0.530	0.000	0.505	0.500	0.410

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- CALIFORNIA — SITE- F8 — MUSCLE

LENGTH	NUM 10	MEAN 0.677	S. D. 0.022	LOW 0.629	HIGH 0.707		
WEIGHT	NUM 10	MEAN 3.130	S. D. 0.415	LOW 2.300	HIGH 3.800		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010
N DET.	0000	0001	0003	0000	0000	0004	0001	0000	0000	0002	0008	0010	0001	0003	0000
MEAN	0.201	0.442	0.067	2.738	0.639	0.047	0.180	0.270	4.75	0.253	0.105	0.000	0.091	0.935	0.523
S. D.	0.071	0.193	0.037	2.037	0.188	0.012	0.111	0.107	0.82	0.242	0.021	0.000	0.041	0.525	0.129
LOW	0.090	0.160	0.030	0.700	0.355	0.040	0.080	0.140	3.65	0.070	0.090	0.000	0.020	0.200	0.300
HIGH	0.320	0.755	0.140	6.860	0.930	0.070	0.390	0.475	5.64	0.780	0.120	0.000	0.160	1.550	0.750

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- CALIFORNIA — SITE- F8 — LIVER

LENGTH	NUM 1	MEAN 0.677	S. D. 0.000	LOW 0.677	HIGH 0.677		
WEIGHT	NUM 1	MEAN 3.130	S. D. 0.000	LOW 3.130	HIGH 3.130		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.020	0.060	0.790	0.400	1.580	0.010	0.000	10.690	45.62	0.140	0.870	0.000	0.510	0.870	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.060	0.790	0.400	1.580	0.010	0.000	10.690	45.62	0.140	0.870	0.000	0.510	0.870	0.750

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM 1	MEAN 0.840	S. D. 0.000	LOW 0.840	HIGH 0.840		
WEIGHT	NUM 1	MEAN 7.258	S. D. 0.000	LOW 7.258	HIGH 7.258		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0001	0001	0000	0000	0001	0001	0000	0000	0001	0001	0001	0000	0001	0000
MEAN	0.140	0.000	0.000	0.660	0.430	0.000	0.000	0.430	5.36	0.000	0.000	0.000	0.110	0.000	0.700
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.140	0.000	0.000	0.660	0.430	0.000	0.000	0.430	5.36	0.000	0.000	0.000	0.110	0.000	0.700

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- H7 — MUSCLE

LENGTH	NUM 10	MEAN 0.516	S. D. 0.078	LOW 0.425	HIGH 0.630		
WEIGHT	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0001	0000	0000	0003	0000	0000	0000	0002	0007	0006	0000	0002	0000
MEAN	0.050	0.377	0.056	2.862	0.710	0.060	0.153	0.200	5.13	0.251	0.218	0.173	0.128	0.794	0.563
S. D.	0.032	0.145	0.038	1.746	0.184	0.071	0.056	0.052	0.98	0.137	0.260	0.142	0.036	0.337	0.113
LOW	0.020	0.050	0.020	0.825	0.525	0.020	0.060	0.090	4.02	0.120	0.030	0.060	0.055	0.400	0.400
HIGH	0.130	0.586	0.140	5.280	1.100	0.220	0.250	0.263	6.54	0.555	0.515	0.380	0.170	1.500	0.725

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- H7 — LIVER

LENGTH	NUM	2	MEAN	0.578	S. D.	0.074	LOW	0.525	HIGH	0.630					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.000	0.195	0.178	3.770	0.335	0.028	0.073	5.190	17.69	0.165	0.280	0.000	0.488	0.548	0.655
S. D.	0.000	0.092	0.173	3.069	0.247	0.004	0.018	2.913	5.13	0.092	0.042	0.000	0.060	0.152	0.219
LOW	0.000	0.130	0.055	1.600	0.160	0.025	0.060	3.130	14.06	0.100	0.250	0.000	0.445	0.440	0.500
HIGH	0.000	0.260	0.300	5.940	0.510	0.030	0.085	7.250	21.32	0.230	0.310	0.000	0.530	0.655	0.810

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- H9 — MUSCLE

LENGTH	NUM	1	MEAN	0.750	S. D.	0.000	LOW	0.750	HIGH	0.750					
WEIGHT	NUM	1	MEAN	6.350	S. D.	0.000	LOW	6.350	HIGH	6.350					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.265	0.463	0.010	2.565	0.740	0.010	0.133	0.226	5.80	0.090	0.000	0.280	0.106	0.735	0.655
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.265	0.463	0.010	2.565	0.740	0.010	0.133	0.226	5.80	0.090	0.000	0.280	0.106	0.735	0.655

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	12	MEAN	0.962	S. D.	0.098	LOW	0.820	HIGH	1.110					
WEIGHT	NUM	2	MEAN	12.479	S. D.	2.880	LOW	10.442	HIGH	14.515					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0011	0012	0011	0011	0012	0011	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0001	0000	0001	0000	0000	0007	0008	0000	0000	0000
MEAN	0.648	0.370	0.061	1.924	0.630	0.065	0.156	0.286	4.88	0.215	0.168	0.230	0.132	0.598	0.508
S. D.	0.351	0.092	0.025	0.774	0.109	0.069	0.101	0.146	0.85	0.088	0.107	0.096	0.053	0.278	0.181
LOW	0.260	0.220	0.020	0.847	0.410	0.030	0.060	0.120	3.81	0.080	0.060	0.090	0.065	0.160	0.220
HIGH	1.345	0.500	0.095	3.156	0.780	0.260	0.365	0.560	6.09	0.420	0.310	0.300	0.270	0.985	0.780

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- I7 — LIVER

LENGTH	NUM	2	MEAN	1.055	S. D.	0.078	LOW	1.000	HIGH	1.110					
WEIGHT	NUM	1	MEAN	14.515	S. D.	0.000	LOW	14.515	HIGH	14.515					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	1.470	0.780	0.425	3.825	1.145	0.040	0.125	5.865	18.68	0.530	0.330	0.220	0.440	1.010	0.000
S. D.	0.608	0.495	0.262	0.955	0.247	0.000	0.021	3.528	6.97	0.368	0.028	0.184	0.085	0.184	0.000
LOW	1.040	0.430	0.240	3.150	0.970	0.040	0.110	3.370	13.75	0.270	0.310	0.090	0.380	0.880	0.000
HIGH	1.900	1.130	0.610	4.500	1.320	0.040	0.140	8.360	23.60	0.790	0.350	0.350	0.500	1.140	0.000

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- M2 — MUSCLE

LENGTH	NUM	3	MEAN	0.705	S. D.	0.194	LOW	0.485	HIGH	0.850					
WEIGHT	NUM	3	MEAN	5.065	S. D.	3.970	LOW	1.134	HIGH	9.072					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0002	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.190	0.358	0.060	2.333	0.623	0.045	0.098	0.208	4.03	0.170	0.350	0.600	0.145	1.300	0.460
S. D.	0.100	0.014	0.000	1.816	0.158	0.035	0.003	0.068	2.20	0.070	0.000	0.000	0.035	0.999	0.165
LOW	0.090	0.350	0.000	1.250	0.450	0.020	0.095	0.140	1.54	0.120	0.000	0.000	0.110	0.450	0.300
HIGH	0.290	0.375	0.060	4.430	0.760	0.070	0.100	0.275	5.71	0.250	0.350	0.600	0.180	2.400	0.630

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	6	MEAN	0.684	S. D.	0.181	LOW	0.460	HIGH	0.910					
WEIGHT	NUM	2	MEAN	2.665	S. D.	1.684	LOW	1.474	HIGH	3.856					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0003	0000	0000	0003	0000	0000	0000	0001	0005	0005	0000	0000	0000
MEAN	0.163	0.498	0.040	2.456	0.542	0.033	0.202	0.260	4.42	0.174	0.010	0.280	0.141	1.049	0.683
S. D.	0.144	0.178	0.026	2.016	0.237	0.006	0.079	0.054	1.52	0.082	0.000	0.000	0.049	0.538	0.139
LOW	0.040	0.260	0.010	0.530	0.305	0.030	0.100	0.165	2.89	0.070	0.000	0.000	0.070	0.325	0.550
HIGH	0.410	0.800	0.060	5.900	0.955	0.040	0.280	0.326	6.48	0.260	0.010	0.280	0.210	1.930	0.905

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	4	MEAN	0.790	S. D.	0.116	LOW	0.640	HIGH	0.920					
WEIGHT	NUM	4	MEAN	6.237	S. D.	3.017	LOW	2.722	HIGH	9.979					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0002	0000	0000	0002	0000	0000	0000	0000	0004	0004	0000	0002	0000
MEAN	0.314	0.408	0.048	1.870	0.793	0.040	0.121	0.230	5.12	0.240	0.000	0.000	0.171	1.045	0.384
S. D.	0.209	0.211	0.011	2.093	0.300	0.000	0.112	0.035	1.55	0.081	0.000	0.000	0.129	1.039	0.051
LOW	0.100	0.135	0.040	0.150	0.530	0.040	0.040	0.190	2.86	0.180	0.000	0.000	0.070	0.310	0.330
HIGH	0.515	0.605	0.055	4.200	1.120	0.040	0.280	0.250	6.20	0.360	0.000	0.000	0.360	1.780	0.430

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	12	MEAN	0.810	S. D.	0.058	LOW	0.710	HIGH	0.920					
WEIGHT	NUM	11	MEAN	5.015	S. D.	1.754	LOW	3.405	HIGH	8.626					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0011	0012	0012	0012	0012	0012	0012	0012	0012	0012	0010
N DET.	0000	0000	0000	0000	0000	0002	0000	0001	0000	0000	0007	0008	0000	0002	0000
MEAN	0.451	0.514	0.059	2.013	0.538	0.039	0.178	0.265	4.44	0.178	0.106	0.508	0.132	0.928	0.546
S. D.	0.159	0.270	0.019	1.152	0.313	0.015	0.193	0.163	1.39	0.057	0.071	0.277	0.062	0.258	0.188
LOW	0.200	0.220	0.035	0.800	0.050	0.010	0.040	0.120	2.63	0.080	0.060	0.310	0.055	0.625	0.205
HIGH	0.755	1.130	0.090	4.000	1.116	0.060	0.750	0.715	7.40	0.270	0.220	0.910	0.250	1.345	0.840

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- N1 — LIVER

LENGTH	NUM	7	MEAN	0.829	S. D.	0.052	LOW	0.760	HIGH	0.920					
WEIGHT	NUM	6	MEAN	5.221	S. D.	1.747	LOW	3.659	HIGH	8.626					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0005	0002	0006	0007	0007	0007	0006	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.493	0.883	0.569	0.861	1.198	0.048	0.456	13.923	32.89	0.222	0.438	0.282	0.664	0.687	0.459
S. D.	0.242	0.485	0.327	0.553	0.527	0.028	0.481	11.174	13.54	0.057	0.188	0.137	0.199	0.161	0.175
LOW	0.200	0.310	0.200	0.205	0.825	0.010	0.010	2.380	16.88	0.120	0.150	0.070	0.380	0.530	0.220
HIGH	0.780	1.750	1.070	1.600	1.570	0.090	1.400	30.200	59.37	0.280	0.690	0.440	0.930	0.900	0.750

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM	4	MEAN	0.670	S. D.	0.247	LOW	0.350	HIGH	0.940					
WEIGHT	NUM	2	MEAN	6.464	S. D.	5.613	LOW	2.495	HIGH	10.433					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0003	0000	0000	0000	0000	0004	0003	0000	0001	0000
MEAN	0.290	0.358	0.059	4.368	0.773	0.010	0.158	0.345	4.62	0.208	0.000	0.280	0.260	0.723	0.376
S. D.	0.221	0.129	0.018	3.659	0.607	0.000	0.064	0.130	0.44	0.091	0.000	0.000	0.179	0.214	0.089
LOW	0.085	0.250	0.040	1.030	0.265	0.000	0.095	0.253	4.25	0.080	0.000	0.000	0.090	0.600	0.250
HIGH	0.560	0.545	0.082	8.960	1.655	0.010	0.240	0.530	5.23	0.290	0.000	0.280	0.500	0.970	0.450

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM	3	MEAN	0.653	S. D.	0.050	LOW	0.600	HIGH	0.700					
WEIGHT	NUM	3	MEAN	3.054	S. D.	0.754	LOW	2.359	HIGH	3.856					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.202	0.303	0.073	2.547	0.472	0.050	0.183	0.300	4.51	0.170	0.445	0.450	0.162	0.650	0.620
S. D.	0.028	0.215	0.032	0.761	0.309	0.052	0.021	0.026	0.70	0.053	0.233	0.240	0.080	0.304	0.166
LOW	0.175	0.120	0.050	1.685	0.125	0.020	0.160	0.270	4.02	0.130	0.280	0.280	0.070	0.450	0.500
HIGH	0.230	0.540	0.110	3.125	0.720	0.110	0.200	0.320	5.31	0.230	0.610	0.620	0.220	1.000	0.810

LINGCOD — OPHIODON ELONGATUS — 071005 — AREA- PACIFIC NORTHWEST — SITE- R8 — MUSCLE

LENGTH	NUM	2	MEAN	0.735	S. D.	0.021	LOW	0.720	HIGH	0.750					
WEIGHT	NUM	2	MEAN	3.629	S. D.	0.641	LOW	3.175	HIGH	4.082					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.130	0.282	0.065	2.600	0.513	0.070	0.205	0.295	4.01	0.145	0.000	0.000	0.093	0.915	0.403
S. D.	0.014	0.016	0.035	2.192	0.046	0.000	0.007	0.120	0.33	0.007	0.000	0.000	0.032	0.820	0.138
LOW	0.120	0.270	0.040	1.050	0.480	0.000	0.200	0.210	3.78	0.140	0.000	0.000	0.070	0.335	0.305
HIGH	0.140	0.293	0.090	4.150	0.545	0.070	0.210	0.380	4.24	0.150	0.000	0.000	0.115	1.495	0.500

GRUNT, WHITE — HAEMULON PLUMIERI — 073014 — AREA- SOUTH ATLANTIC — SITE- M4 — MUSCLE

LENGTH	NUM	12	MEAN	0.238	S. D.	0.019	LOW	0.208	HIGH	0.272					
WEIGHT	NUM	12	MEAN	0.272	S. D.	0.069	LOW	0.169	HIGH	0.419					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0011	0012	0011	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0012	0009	0000	0004	0000
MEAN	0.256	0.555	0.081	4.879	0.431	0.046	0.240	0.298	3.52	0.255	0.000	0.250	0.122	0.854	0.595
S. D.	0.094	0.269	0.027	2.304	0.215	0.013	0.163	0.084	0.45	0.048	0.000	0.000	0.037	0.258	0.236
LOW	0.150	0.285	0.045	1.310	0.120	0.030	0.060	0.215	2.81	0.185	0.000	0.250	0.080	0.380	0.340
HIGH	0.430	1.160	0.140	8.150	0.750	0.075	0.580	0.490	4.22	0.345	0.000	0.250	0.210	1.[illegible]	[illegible].280

GRUNT, WHITE — HAEMULON PLUMIERI — 073014 — AREA- GULF — SITE- R6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	0.228	0.515	0.079	4.890	0.485	0.063	0.159	0.258	4.91	0.273	0.185	0.165	0.151	0.748	0.733
S. D.	0.081	0.190	0.027	1.178	0.254	0.010	0.080	0.069	0.43	0.123	0.177	0.163	0.076	0.483	0.444
LOW	0.100	0.200	0.050	3.300	0.210	0.050	0.095	0.165	4.40	0.180	0.060	0.050	0.090	0.060	0.335
HIGH	0.300	0.690	0.120	6.350	0.882	0.070	0.295	0.330	5.51	0.475	0.310	0.280	0.280	1.150	1.400

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

GRUNT, BLUESTRIPED (YELLOW) HAEMULON SCIURUS 073015 AREA- SOUTH ATLANTIC SITE- M4 MUSCLE

LENGTH	NUM	10	MEAN	0.240	S. D.	0.020	LOW	0.199	HIGH	0.268					
WEIGHT	NUM	10	MEAN	0.280	S. D.	0.060	LOW	0.169	HIGH	0.373					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0008	0009	0000	0010	0000
MEAN	0.354	0.542	0.088	2.637	0.551	0.039	0.198	0.267	3.97	0.256	0.160	0.315	0.120	0.000	0.543
S. D.	0.134	0.214	0.028	1.159	0.237	0.015	0.081	0.090	0.67	0.024	0.042	0.000	0.017	0.000	0.096
LOW	0.120	0.345	0.065	1.246	0.230	0.020	0.130	0.110	3.03	0.225	0.130	0.000	0.090	0.000	0.410
HIGH	0.565	1.005	0.160	5.550	0.980	0.070	0.375	0.475	5.22	0.290	0.190	0.315	0.135	0.000	0.720

GRUNT, BLUESTRIPED (YELLOW) HAEMULON SCIURUS 073015 AREA- GULF SITE- R6 MUSCLE

LENGTH	NUM	1	MEAN	0.232	S. D.	0.000	LOW	0.232	HIGH	0.232					
WEIGHT	NUM	1	MEAN	0.258	S. D.	0.000	LOW	0.258	HIGH	0.258					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0004	0000	0000	0000
MEAN	1.023	0.464	0.050	5.868	0.408	0.039	0.136	0.244	3.04	0.229	0.197	0.510	0.118	0.689	0.569
S. D.	0.376	0.138	0.014	2.369	0.187	0.014	0.051	0.113	0.98	0.052	0.040	0.099	0.038	0.146	0.184
LOW	0.280	0.285	0.030	2.883	0.190	0.020	0.083	0.030	2.25	0.190	0.160	0.440	0.080	0.515	0.390
HIGH	1.330	0.690	0.065	9.450	0.706	0.060	0.190	0.350	4.86	0.330	0.240	0.580	0.185	0.880	0.880

PIGFISH ORTHOPRISTIS CHRYSOPTERA 073017 AREA- NORTH ATLANTIC SITE- M8 MUSCLE

LENGTH	NUM	3	MEAN	0.262	S. D.	0.078	LOW	0.193	HIGH	0.346					
WEIGHT	NUM	3	MEAN	0.465	S. D.	0.375	LOW	0.181	HIGH	0.890					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0001	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.165	0.992	0.055	2.920	0.790	0.040	0.260	0.257	4.07	0.220	0.370	0.440	0.198	0.855	0.535
S. D.	0.049	0.521	0.021	0.601	0.338	0.000	0.213	0.085	0.93	0.118	0.000	0.000	0.062	0.290	0.131
LOW	0.130	0.536	0.040	2.300	0.525	0.040	0.080	0.160	3.00	0.090	0.000	0.000	0.130	0.650	0.425
HIGH	0.200	1.560	0.070	3.500	1.170	0.040	0.495	0.320	4.64	0.320	0.370	0.440	0.250	1.060	0.680

PIGFISH ORTHOPRISTIS CHRYSOPTERA 073017 AREA- NORTH ATLANTIC SITE- R8 MUSCLE

LENGTH	NUM	9	MEAN	0.250	S. D.	0.000	LOW	0.250	HIGH	0.250					
WEIGHT	NUM	9	MEAN	0.176	S. D.	0.000	LOW	0.176	HIGH	0.176					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0000	0000	0001	0000	0000	0003	0001	0000	0000	0001	0003	0005	0000	0002	0000
MEAN	0.068	0.506	0.086	2.233	0.724	0.092	0.185	0.438	7.15	0.428	0.140	0.238	0.812	0.834	0.777
S. D.	0.033	0.236	0.031	0.917	0.189	0.101	0.061	0.176	2.67	0.152	0.111	0.176	0.487	0.627	0.208
LOW	0.030	0.110	0.040	0.813	0.380	0.030	0.080	0.110	3.57	0.240	0.050	0.125	0.360	0.360	0.620
HIGH	0.130	0.750	0.110	3.530	1.030	0.290	0.293	0.750	11.60	0.715	0.350	0.500	1.855	2.075	1.250

PIGFISH ORTHOPRISTIS CHRYSOPTERA 073017 AREA- SOUTH ATLANTIC SITE- C2 MUSCLE

LENGTH	NUM	10	MEAN	0.232	S. D.	0.000	LOW	0.232	HIGH	0.232					
WEIGHT	NUM	10	MEAN	0.227	S. D.	0.000	LOW	0.227	HIGH	0.227					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0009	0000	0003	0000
MEAN	0.114	0.355	0.072	1.702	0.619	0.039	0.203	0.456	3.82	0.174	0.000	0.480	0.159	0.600	0.554
S. D.	0.046	0.095	0.020	0.770	0.221	0.005	0.191	0.181	0.91	0.061	0.000	0.000	0.049	0.233	0.200
LOW	0.040	0.220	0.050	0.690	0.250	0.030	0.040	0.225	2.38	0.050	0.000	0.000	0.100	0.310	0.360
HIGH	0.210	0.500	0.110	2.975	0.955	0.045	0.630	0.750	5.19	0.240	0.000	0.480	0.230	0.940	1.000

PIGFISH ORTHOPRISTIS CHRYSOPTERA 073017 AREA- SOUTH ATLANTIC SITE- J4 MUSCLE

LENGTH	NUM	12	MEAN	0.207	S. D.	0.008	LOW	0.191	HIGH	0.214					
WEIGHT	NUM	12	MEAN	0.149	S. D.	0.010	LOW	0.125	HIGH	0.164					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0011	0012	0012	0011	0012	0012	0012	0012	0012	0012	0012	0011	0012	0010
N DET.	0000	0000	0000	0001	0000	0001	0000	0000	0000	0000	0005	0006	0000	0002	0000
MEAN	0.117	0.587	0.087	2.549	0.420	0.053	0.297	0.291	5.32	0.358	0.270	0.445	0.140	0.820	0.595
S. D.	0.046	0.252	0.022	1.612	0.178	0.019	0.080	0.141	1.83	0.140	0.275	0.420	0.052	0.358	0.185
LOW	0.010	0.250	0.060	1.212	0.240	0.020	0.115	0.060	1.50	0.160	0.090	0.060	0.050	0.250	0.300
HIGH	0.170	1.005	0.110	6.550	0.760	0.090	0.410	0.520	7.68	0.640	0.870	1.205	0.230	1.405	1.000

HERRING, BLUEBACK ALOSA AESTIVALIS 078001 AREA- NORTH ATLANTIC SITE- N2 WHOLE

LENGTH	NUM	1	MEAN	0.235	S. D.	0.000	LOW	0.235	HIGH	0.235					
WEIGHT	NUM	1	MEAN	0.184	S. D.	0.000	LOW	0.184	HIGH	0.184					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	0.500	0.050	2.565	0.620	0.030	0.060	0.880	6.44	0.290	0.000	0.190	0.530	1.000	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.500	0.050	2.565	0.620	0.030	0.060	0.880	6.44	0.290	0.000	0.190	0.530	1.000	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- — MUSCLE

LENGTH	NUM 1	MEAN 0.268	S. D. 0.000	LOW 0.268	HIGH 0.268		
WEIGHT	NUM 1	MEAN 0.284	S. D. 0.000	LOW 0.284	HIGH 0.284		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.065	0.490	0.075	2.950	0.510	0.000	0.166	0.730	5.00	0.340	0.000	0.000	0.500	0.000	0.325
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.065	0.490	0.075	2.950	0.510	0.000	0.166	0.730	5.00	0.340	0.000	0.000	0.500	0.000	0.325

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- F9 — MUSCLE

LENGTH	NUM 1	MEAN 0.266	S. D. 0.000	LOW 0.266	HIGH 0.266		
WEIGHT	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.750	0.130	5.850	0.670	0.030	0.000	0.750	5.50	0.260	0.000	0.000	0.740	0.940	0.590
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.750	0.130	5.850	0.670	0.030	0.000	0.750	5.50	0.260	0.000	0.000	0.740	0.940	0.590

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM 26	MEAN 0.213	S. D. 0.011	LOW 0.190	HIGH 0.233		
WEIGHT	NUM 26	MEAN 0.111	S. D. 0.014	LOW 0.087	HIGH 0.139		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0026	0026	0026	0026	0024	0026	0026	0026	0026	0026	0026	0026	0026	0026	0025
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0020	0019	0000	0000	0000
MEAN	0.044	0.577	0.068	3.365	0.417	0.045	0.203	0.691	6.26	0.235	0.108	0.200	0.339	0.757	0.718
S. D.	0.030	0.216	0.022	1.241	0.160	0.017	0.099	0.272	1.63	0.050	0.064	0.083	0.119	0.197	0.178
LOW	0.020	0.250	0.040	1.050	0.130	0.010	0.090	0.125	3.62	0.135	0.060	0.090	0.140	0.405	0.440
HIGH	0.125	1.190	0.130	5.300	0.800	0.080	0.500	1.310	10.69	0.380	0.190	0.310	0.610	1.190	1.250

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM 3	MEAN 0.224	S. D. 0.021	LOW 0.212	HIGH 0.249		
WEIGHT	NUM 3	MEAN 0.144	S. D. 0.042	LOW 0.108	HIGH 0.191		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.028	0.552	0.075	3.614	0.427	0.047	0.138	0.752	6.35	0.215	0.000	0.410	0.522	0.645	0.618
S. D.	0.011	0.224	0.018	0.859	0.090	0.012	0.041	0.285	1.48	0.031	0.000	0.000	0.169	0.219	0.118
LOW	0.020	0.405	0.055	2.655	0.340	0.040	0.110	0.425	4.93	0.180	0.000	0.000	0.385	0.440	0.500
HIGH	0.035	0.810	0.090	4.312	0.520	0.060	0.185	0.950	7.88	0.240	0.000	0.410	0.710	0.875	0.735

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- J8 — MUSCLE

LENGTH	NUM 1	MEAN 0.213	S. D. 0.000	LOW 0.213	HIGH 0.213		
WEIGHT	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.370	0.060	3.000	0.780	0.070	0.120	0.700	8.69	0.260	0.000	0.000	0.150	1.190	0.840
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.370	0.060	3.000	0.780	0.070	0.120	0.700	8.69	0.260	0.000	0.000	0.150	1.190	0.840

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- J9 — MUSCLE

LENGTH	NUM 1	MEAN 0.264	S. D. 0.000	LOW 0.264	HIGH 0.264		
WEIGHT	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.080	0.720	0.065	4.725	0.635	0.035	0.175	0.305	5.88	0.200	0.060	0.000	0.460	1.095	0.745
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.080	0.720	0.065	4.725	0.635	0.035	0.175	0.305	5.88	0.200	0.060	0.000	0.460	1.095	0.745

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- K1 — MUSCLE

LENGTH	NUM 1	MEAN 0.266	S. D. 0.000	LOW 0.266	HIGH 0.266		
WEIGHT	NUM 1	MEAN 0.219	S. D. 0.000	LOW 0.219	HIGH 0.219		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.340	0.520	0.060	4.966	0.385	0.040	0.220	0.775	5.34	0.165	0.000	0.000	0.315	0.785	0.645
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.340	0.520	0.060	4.966	0.385	0.040	0.220	0.775	5.34	0.165	0.000	0.000	0.315	0.785	0.645

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- K2 — MUSCLE

LENGTH	NUM	1	MEAN	0.244	S. D.	0.000	LOW	0.244	HIGH	0.244					
WEIGHT	NUM	1	MEAN	0.217	S. D.	0.000	LOW	0.217	HIGH	0.217					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.050	0.530	0.000	12.395	0.670	0.000	0.370	0.980	5.53	0.390	0.000	0.000	0.250	1.950	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.530	0.000	12.395	0.670	0.000	0.370	0.980	5.53	0.390	0.000	0.000	0.250	1.950	0.400

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- K3 — MUSCLE

LENGTH	NUM	4	MEAN	0.218	S. D.	0.031	LOW	0.172	HIGH	0.239					
WEIGHT	NUM	4	MEAN	0.135	S. D.	0.050	LOW	0.063	HIGH	0.180					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0003	0004	0004	0004	0004	0003	0004	0004	0003	0004	0004
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0003	0000	0001	0000
MEAN	0.035	0.479	0.336	3.325	0.645	0.035	0.145	1.083	6.73	0.237	0.000	0.250	0.438	0.593	0.619
S. D.	0.021	0.047	0.319	1.049	0.122	0.010	0.075	0.398	0.51	0.006	0.000	0.000	0.063	0.199	0.146
LOW	0.020	0.440	0.045	2.300	0.505	0.030	0.070	0.620	6.31	0.230	0.000	0.000	0.390	0.370	0.485
HIGH	0.050	0.535	0.660	4.650	0.730	0.050	0.250	1.590	7.41	0.240	0.000	0.250	0.510	0.750	0.750

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- N2 — WHOLE

LENGTH	NUM	4	MEAN	0.156	S. D.	0.058	LOW	0.116	HIGH	0.242					
WEIGHT	NUM	4	MEAN	0.061	S. D.	0.073	LOW	0.020	HIGH	0.171					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.115	0.940	0.110	3.721	0.716	0.093	0.265	0.811	15.47	0.331	0.312	0.470	1.783	1.568	1.698
S. D.	0.000	0.398	0.045	0.911	0.213	0.026	0.130	0.068	7.05	0.101	0.080	0.079	0.991	0.662	0.966
LOW	0.000	0.470	0.050	2.800	0.500	0.055	0.095	0.750	5.92	0.195	0.220	0.410	0.430	0.670	0.670
HIGH	0.115	1.400	0.160	4.600	1.000	0.115	0.405	0.880	21.10	0.430	0.370	0.560	2.700	2.190	3.000

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	1	MEAN	0.249	S. D.	0.000	LOW	0.249	HIGH	0.249					
WEIGHT	NUM	1	MEAN	0.263	S. D.	0.000	LOW	0.263	HIGH	0.263					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.050	0.200	0.000	2.900	0.290	0.000	0.200	0.750	4.28	0.360	0.140	0.000	0.320	0.000	0.350
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.200	0.000	2.900	0.290	0.000	0.200	0.750	4.28	0.360	0.140	0.000	0.320	0.000	0.350

ALEWIFE — ALOSA PSEUDOHARENGUS — 078005 — AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	3	MEAN	0.272	S. D.	0.013	LOW	0.260	HIGH	0.286					
WEIGHT	NUM	1	MEAN	0.235	S. D.	0.000	LOW	0.235	HIGH	0.235					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.058	0.632	0.077	3.962	0.367	0.039	0.189	0.869	6.07	0.255	0.190	0.470	0.272	0.888	0.554
S. D.	0.031	0.395	0.021	0.631	0.085	0.010	0.105	0.289	0.50	0.063	0.000	0.226	0.070	0.228	0.224
LOW	0.036	0.370	0.060	3.237	0.280	0.030	0.126	0.630	5.50	0.190	0.000	0.310	0.200	0.630	0.310
HIGH	0.080	1.086	0.100	4.390	0.450	0.050	0.310	1.190	6.37	0.316	0.190	0.630	0.340	1.063	0.750

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- NORTH ATLANTIC — SITE- K1 — MUSCLE

LENGTH	NUM	1	MEAN	0.450	S. D.	0.000	LOW	0.450	HIGH	0.450					
WEIGHT	NUM	1	MEAN	1.475	S. D.	0.000	LOW	1.475	HIGH	1.475					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.130	0.485	0.060	5.233	0.925	0.035	0.060	0.660	3.69	0.195	0.000	0.000	0.295	0.780	0.720
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.130	0.485	0.060	5.233	0.925	0.035	0.060	0.660	3.69	0.195	0.000	0.000	0.295	0.780	0.720

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- NORTH ATLANTIC — SITE- M5 — MUSCLE

LENGTH	NUM	25	MEAN	0.467	S. D.	0.033	LOW	0.405	HIGH	0.510					
WEIGHT	NUM	25	MEAN	1.807	S. D.	0.416	LOW	1.100	HIGH	2.430					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0026	0026	0026	0026	0026	0026	0025	0026	0025	0026	0026	0026	0026	0026	0026
N DET.	0020	0000	0000	0000	0000	0001	0000	0000	0000	0000	0024	0025	0000	0026	0000
MEAN	0.087	0.337	0.059	4.002	0.405	0.025	0.212	0.621	3.31	0.220	0.145	0.130	0.261	0.000	0.568
S. D.	0.088	0.134	0.012	1.539	0.186	0.008	0.129	0.303	0.38	0.054	0.021	0.000	0.089	0.000	0.161
LOW	0.020	0.130	0.040	1.825	0.050	0.010	0.060	0.140	2.69	0.080	0.130	0.000	0.130	0.000	0.380
HIGH	0.220	0.630	0.080	8.950	0.830	0.040	0.515	1.130	4.13	0.310	0.160	0.130	0.510	0.000	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	1	MEAN	0.450	S. D.	0.000	LOW	0.450	HIGH	0.450					
WEIGHT	NUM	1	MEAN	1.589	S. D.	0.000	LOW	1.589	HIGH	1.589					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.560	0.050	2.975	0.060	0.040	0.180	0.915	3.72	0.230	0.000	0.000	0.210	0.750	0.390
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.560	0.050	2.975	0.060	0.040	0.180	0.915	3.72	0.230	0.000	0.000	0.210	0.750	0.390

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM	2	MEAN	0.438	S. D.	0.025	LOW	0.420	HIGH	0.455					
WEIGHT	NUM	2	MEAN	1.192	S. D.	0.081	LOW	1.135	HIGH	1.249					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0001	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.010	0.443	0.040	3.885	0.533	0.040	0.085	0.575	3.28	0.234	0.000	0.000	0.390	1.380	0.863
S. D.	0.000	0.160	0.000	1.591	0.011	0.000	0.064	0.325	0.40	0.023	0.000	0.000	0.092	0.000	0.336
LOW	0.000	0.330	0.000	2.760	0.525	0.000	0.040	0.345	3.00	0.217	0.000	0.000	0.325	0.000	0.625
HIGH	0.010	0.556	0.040	5.010	0.540	0.040	0.130	0.805	3.56	0.250	0.000	0.000	0.455	1.380	1.100

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	2	MEAN	0.278	S. D.	0.095	LOW	0.210	HIGH	0.345					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.075	0.375	0.050	3.797	0.623	0.040	0.153	0.805	3.95	0.210	0.090	0.060	0.280	0.563	0.563
S. D.	0.000	0.085	0.000	0.467	0.025	0.007	0.046	0.057	0.07	0.042	0.000	0.000	0.148	0.088	0.046
LOW	0.075	0.315	0.050	3.466	0.605	0.035	0.120	0.765	3.90	0.180	0.000	0.000	0.175	0.500	0.530
HIGH	0.075	0.435	0.050	4.127	0.640	0.045	0.185	0.845	4.00	0.240	0.090	0.060	0.385	0.625	0.595

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- PACIFIC NORTHWEST — SITE- N8 — MUSCLE

LENGTH	NUM	15	MEAN	0.414	S. D.	0.028	LOW	0.350	HIGH	0.470					
WEIGHT	NUM	10	MEAN	0.893	S. D.	0.166	LOW	0.638	HIGH	1.136					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0015
N DET.	0007	0000	0000	0000	0000	0000	0002	0000	0000	0000	0013	0014	0000	0000	0000
MEAN	0.057	0.549	0.072	2.809	0.630	0.037	0.196	0.626	4.23	0.229	0.088	0.265	0.409	0.901	0.584
S. D.	0.037	0.174	0.021	1.679	0.216	0.008	0.132	0.164	0.56	0.050	0.049	0.064	0.080	0.258	0.093
LOW	0.020	0.375	0.050	0.765	0.360	0.020	0.060	0.250	3.19	0.110	0.060	0.220	0.295	0.625	0.380
HIGH	0.110	0.940	0.120	7.250	1.210	0.050	0.470	0.880	5.13	0.290	0.145	0.310	0.585	1.440	0.720

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM	1	MEAN	0.376	S. D.	0.000	LOW	0.376	HIGH	0.376					
WEIGHT	NUM	1	MEAN	0.794	S. D.	0.000	LOW	0.794	HIGH	0.794					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.050	0.446	0.145	3.800	0.440	0.040	0.105	0.820	5.75	0.215	0.000	0.000	0.465	0.000	0.640
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.446	0.145	3.800	0.440	0.040	0.105	0.820	5.75	0.215	0.000	0.000	0.465	0.000	0.640

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM	3	MEAN	0.370	S. D.	0.000	LOW	0.370	HIGH	0.370					
WEIGHT	NUM	10	MEAN	1.334	S. D.	0.000	LOW	1.334	HIGH	1.334					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0003	0000	0000	0003	0000	0000	0000	0001	0007	0004	0000	0005	0001
MEAN	0.028	0.535	0.064	3.515	0.459	0.029	0.133	0.664	3.47	0.286	0.097	0.220	0.263	0.788	0.538
S. D.	0.014	0.358	0.028	2.297	0.146	0.012	0.090	0.214	1.24	0.228	0.035	0.112	0.121	0.279	0.106
LOW	0.010	0.010	0.030	1.415	0.320	0.010	0.020	0.360	1.70	0.080	0.060	0.090	0.090	0.350	0.415
HIGH	0.040	1.310	0.110	7.900	0.685	0.045	0.305	1.000	6.05	0.790	0.130	0.400	0.465	1.060	0.750

SHAD, AMERICAN — ALOSA SAPIDISSIMA — 078006 — AREA- PACIFIC NORTHWEST — SITE- R8 — MUSCLE

LENGTH	NUM	1	MEAN	0.422	S. D.	0.000	LOW	0.422	HIGH	0.422					
WEIGHT	NUM	1	MEAN	1.476	S. D.	0.000	LOW	1.476	HIGH	1.476					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.110	0.678	0.050	3.710	0.725	0.020	0.324	0.433	4.80	0.180	0.000	0.000	0.230	0.450	0.726
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.110	0.678	0.050	3.710	0.725	0.020	0.324	0.433	4.80	0.180	0.000	0.000	0.230	0.450	0.726

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- B7 — WHOLE

LENGTH	NUM	6	MEAN	0.228	S. D.	0.008	LOW	0.214	HIGH	0.237					
WEIGHT	NUM	6	MEAN	0.265	S. D.	0.030	LOW	0.213	HIGH	0.287					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000	0000
MEAN	0.138	3.147	0.259	6.218	0.804	0.222	1.197	0.839	35.14	1.436	0.408	2.589	12.810	2.184	1.663
S. D.	0.169	0.719	0.118	1.574	0.111	0.070	0.296	0.203	30.87	0.448	0.142	1.187	3.058	0.914	0.951
LOW	0.010	1.850	0.180	4.670	0.680	0.146	0.756	0.550	18.14	0.966	0.240	1.340	9.576	0.740	1.030
HIGH	0.330	4.023	0.480	8.380	1.010	0.310	1.605	1.075	97.50	2.115	0.585	4.380	17.535	3.500	3.500

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- B7 — GUTTED

LENGTH	NUM	9	MEAN	0.231	S. D.	0.005	LOW	0.225	HIGH	0.242					
WEIGHT	NUM	9	MEAN	0.269	S. D.	0.010	LOW	0.252	HIGH	0.283					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0009	0009	0007	0007	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000
MEAN	0.020	2.424	0.259	7.124	0.662	0.203	1.402	0.766	24.39	1.738	0.388	2.051	5.725	2.570	1.769
S. D.	0.018	0.793	0.116	4.394	0.251	0.069	0.676	0.288	5.88	0.637	0.136	0.946	1.246	0.435	0.737
LOW	0.010	0.750	0.120	3.350	0.330	0.100	0.360	0.360	18.37	0.710	0.245	1.000	3.810	1.880	0.880
HIGH	0.030	3.686	0.460	16.400	0.940	0.310	2.453	1.210	33.93	2.515	0.665	3.640	7.880	3.210	3.130

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	3	MEAN	0.145	S. D.	0.000	LOW	0.145	HIGH	0.145					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.000	0.710	0.067	3.317	0.373	0.018	0.243	0.800	5.68	0.293	0.000	0.375	0.398	0.722	0.720
S. D.	0.000	0.505	0.025	1.007	0.172	0.014	0.119	0.684	3.40	0.170	0.000	0.000	0.377	0.344	0.177
LOW	0.000	0.250	0.040	2.250	0.250	0.010	0.160	0.300	2.69	0.190	0.000	0.000	0.110	0.395	0.560
HIGH	0.000	1.250	0.090	4.250	0.570	0.035	0.380	1.580	9.38	0.490	0.000	0.375	0.825	1.080	0.910

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- D5 — WHOLE

LENGTH	NUM	22	MEAN	0.221	S. D.	0.011	LOW	0.204	HIGH	0.255					
WEIGHT	NUM	22	MEAN	0.231	S. D.	0.038	LOW	0.181	HIGH	0.349					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0022	0022	0022	0022	0022	0022	0022	0022	0021	0022	0022	0022	0022	0022	0021
N DET.	0006	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0003	0000
MEAN	0.053	2.144	0.166	4.047	0.902	0.143	0.568	0.765	20.64	0.788	0.455	2.629	8.372	2.015	1.799
S. D.	0.053	0.765	0.089	1.843	0.261	0.045	0.216	0.270	7.62	0.501	0.222	1.408	3.721	0.559	0.543
LOW	0.010	0.775	0.090	2.000	0.520	0.030	0.270	0.190	11.87	0.400	0.220	1.000	2.790	0.960	0.900
HIGH	0.235	3.440	0.430	9.160	1.475	0.230	1.310	1.400	41.87	2.640	0.970	7.060	17.140	3.350	3.190

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- D5 — MUSCLE

LENGTH	NUM	20	MEAN	0.197	S. D.	0.017	LOW	0.179	HIGH	0.245					
WEIGHT	NUM	20	MEAN	0.188	S. D.	0.042	LOW	0.139	HIGH	0.238					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020
N DET.	0016	0000	0000	0000	0000	0000	0000	0000	0000	0000	0017	0003	0000	0003	0000
MEAN	0.058	0.511	0.086	2.364	0.559	0.045	0.258	1.024	5.30	0.258	0.250	0.446	0.743	0.713	0.868
S. D.	0.057	0.160	0.038	1.464	0.217	0.014	0.253	0.313	1.60	0.134	0.000	0.271	0.176	0.274	0.311
LOW	0.020	0.310	0.040	0.690	0.090	0.020	0.060	0.465	2.75	0.090	0.250	0.190	0.460	0.245	0.505
HIGH	0.140	0.880	0.210	5.050	0.900	0.080	1.000	1.750	9.19	0.750	0.250	1.130	1.000	1.130	1.560

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.282	S. D.	0.020	LOW	0.252	HIGH	0.322					
WEIGHT	NUM	20	MEAN	0.293	S. D.	0.040	LOW	0.243	HIGH	0.370					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0019	0020	0020	0020	0020	0020	0020	0019	0020	0020	0019
N DET.	0010	0000	0002	0000	0000	0005	0000	0000	0000	0000	0012	0005	0000	0003	0000
MEAN	0.057	0.737	0.094	5.459	0.720	0.109	0.236	0.704	7.59	0.348	0.285	0.498	0.617	0.899	0.748
S. D.	0.034	0.302	0.048	2.072	0.287	0.262	0.116	0.264	2.06	0.211	0.215	0.285	0.246	0.274	0.492
LOW	0.020	0.380	0.030	2.650	0.100	0.010	0.080	0.390	5.00	0.130	0.130	0.190	0.290	0.360	0.380
HIGH	0.110	1.430	0.210	9.000	1.250	1.055	0.560	1.340	13.57	1.000	0.720	1.130	1.110	1.440	2.500

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	4	MEAN	0.206	S. D.	0.006	LOW	0.197	HIGH	0.210					
WEIGHT	NUM	4	MEAN	0.269	S. D.	0.012	LOW	0.255	HIGH	0.284					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0000	0000	0000	0000
MEAN	0.020	0.751	0.095	2.748	0.858	0.050	0.304	0.565	7.67	0.248	0.000	0.445	0.620	0.885	0.646
S. D.	0.000	0.342	0.037	1.029	0.493	0.008	0.197	0.149	1.06	0.040	0.000	0.218	0.123	0.230	0.206
LOW	0.000	0.500	0.075	1.500	0.330	0.040	0.180	0.400	6.19	0.190	0.000	0.220	0.445	0.720	0.500
HIGH	0.020	1.250	0.150	4.000	1.515	0.060	0.595	0.740	8.56	0.280	0.000	0.690	0.720	1.220	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

MENHADEN, GULF — BREVOORTIA PATRONUS — 078008 — AREA- GULF — SITE- H1 — MUSCLE

LENGTH	NUM	3	MEAN	0.147	S. D.	0.002	LOW	0.145	HIGH	0.149					
WEIGHT	NUM	3	MEAN	0.063	S. D.	0.001	LOW	0.062	HIGH	0.064					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0001	0000	0000	0000
MEAN	0.000	0.897	0.077	3.817	0.488	0.037	0.253	0.690	8.23	0.240	0.000	0.375	0.590	1.023	0.670
S. D.	0.000	0.189	0.021	0.592	0.024	0.012	0.125	0.120	1.15	0.095	0.000	0.262	0.149	0.382	0.131
LOW	0.000	0.690	0.060	3.450	0.470	0.030	0.130	0.570	6.94	0.180	0.000	0.190	0.480	0.690	0.550
HIGH	0.000	1.060	0.100	4.500	0.515	0.050	0.380	0.810	9.13	0.350	0.000	0.560	0.760	1.440	0.810

MENHADEN, YELLOWFIN — BREVOORTIA SMITHI — 078009 — AREA- GULF — SITE- L5 — WHOLE

LENGTH	NUM	13	MEAN	0.195	S. D.	0.012	LOW	0.173	HIGH	0.213					
WEIGHT	NUM	13	MEAN	0.155	S. D.	0.031	LOW	0.101	HIGH	0.196					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0012	0012	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0001	0000
MEAN	0.093	1.519	0.165	7.808	1.143	0.140	0.439	0.757	17.02	0.582	0.396	1.474	1.135	2.133	1.969
S. D.	0.161	0.463	0.109	4.216	0.742	0.053	0.132	0.176	2.84	0.353	0.123	0.935	0.256	0.493	0.526
LOW	0.010	0.720	0.040	3.400	0.640	0.010	0.195	0.435	13.50	0.150	0.250	0.060	0.730	1.000	0.970
HIGH	0.420	2.210	0.495	15.250	3.250	0.215	0.625	1.060	22.50	1.290	0.690	3.950	1.750	3.200	3.000

MENHADEN, ATL. — BREVOORTIA TYRANNUS — 078010 — AREA- NORTH ATLANTIC — SITE- R2 — WHOLE

LENGTH	NUM	32	MEAN	0.198	S. D.	0.010	LOW	0.150	HIGH	0.211					
WEIGHT	NUM	32	MEAN	0.121	S. D.	0.017	LOW	0.053	HIGH	0.148					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0032	0032	0032	0030	0030	0032	0032	0032	0031	0032	0032	0032	0032	0032	0032
N DET.	0024	0000	0000	0001	0000	0000	0000	0001	0000	0000	0002	0002	0000	0003	0000
MEAN	0.074	1.802	0.224	2.930	1.119	0.175	0.742	1.386	18.50	0.968	0.348	1.052	7.258	2.126	1.850
S. D.	0.095	0.664	0.233	1.233	0.624	0.077	0.322	0.489	5.47	0.557	0.192	0.576	3.514	1.011	0.808
LOW	0.010	0.380	0.040	1.025	0.350	0.030	0.130	0.350	7.70	0.110	0.100	0.100	0.010	0.130	0.500
HIGH	0.270	3.165	1.390	6.455	3.760	0.390	1.350	2.345	34.64	2.250	0.940	2.310	16.665	4.810	3.800

MENHADEN, ATL. — BREVOORTIA TYRANNUS — 078010 — AREA- NORTH ATLANTIC — SITE- R2 — MUSCLE

LENGTH	NUM	10	MEAN	0.224	S. D.	0.010	LOW	0.213	HIGH	0.246					
WEIGHT	NUM	10	MEAN	0.168	S. D.	0.027	LOW	0.141	HIGH	0.222					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0006	0000	0009	0000
MEAN	0.020	0.535	0.071	2.049	0.767	0.045	0.271	1.097	6.77	0.357	0.217	0.245	0.784	0.340	0.599
S. D.	0.000	0.165	0.017	1.293	0.222	0.010	0.139	0.470	0.95	0.202	0.029	0.082	0.294	0.000	0.103
LOW	0.020	0.250	0.030	0.500	0.450	0.030	0.090	0.310	5.94	0.160	0.200	0.140	0.260	0.000	0.470
HIGH	0.020	0.690	0.090	5.000	1.150	0.060	0.500	1.810	9.13	0.860	0.250	0.310	1.400	0.340	0.750

MENHADEN, ATL. — BREVOORTIA TYRANNUS — 078010 — AREA- NORTH ATLANTIC — SITE- R3 — WHOLE

LENGTH	NUM	23	MEAN	0.212	S. D.	0.017	LOW	0.197	HIGH	0.280					
WEIGHT	NUM	23	MEAN	0.154	S. D.	0.049	LOW	0.116	HIGH	0.356					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0023	0023	0023	0022	0022	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023
N DET.	0016	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0005	0000
MEAN	0.099	1.820	0.211	3.144	1.074	0.172	0.732	1.468	18.38	0.962	0.340	1.234	6.013	1.943	1.507
S. D.	0.113	0.463	0.117	2.341	0.332	0.076	0.325	0.492	4.81	0.571	0.191	0.643	2.438	0.825	0.559
LOW	0.010	0.810	0.060	0.700	0.563	0.070	0.240	0.710	7.75	0.070	0.100	0.500	1.115	0.180	0.880
HIGH	0.310	2.485	0.430	10.620	2.000	0.340	1.755	2.460	32.50	2.660	0.810	3.250	10.500	3.930	3.000

MENHADEN, ATL. — BREVOORTIA TYRANNUS — 078010 — AREA- SOUTH ATLANTIC — SITE- C2 — WHOLE

LENGTH	NUM	46	MEAN	0.208	S. D.	0.058	LOW	0.163	HIGH	0.332					
WEIGHT	NUM	46	MEAN	0.186	S. D.	0.176	LOW	0.070	HIGH	0.624					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0045	0045	0046	0046	0046	0046	0046	0045	0046	0046	0045	0046	0046	0046	0045
N DET.	0033	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.164	1.664	0.181	5.348	1.006	0.173	0.645	1.100	19.21	0.760	0.445	1.749	3.685	2.181	1.748
S. D.	0.187	0.817	0.090	2.328	0.341	0.070	0.314	0.683	15.60	0.479	0.172	1.086	2.039	0.841	0.558
LOW	0.030	0.440	0.085	1.725	0.400	0.090	0.150	0.380	9.50	0.295	0.220	0.625	1.435	0.500	0.570
HIGH	0.670	3.930	0.530	10.840	2.290	0.390	1.580	3.710	111.41	2.150	0.845	5.285	10.750	4.280	3.750

HERRING, ATL. — CLUPEA HARENGUS HARENGUS — 078011 — AREA- NORTH ATLANTIC — SITE- I5 — WHOLE

LENGTH	NUM	2	MEAN	0.234	S. D.	0.028	LOW	0.214	HIGH	0.253					
WEIGHT	NUM	2	MEAN	0.124	S. D.	0.052	LOW	0.087	HIGH	0.161					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	1.360	0.150	3.238	0.760	0.085	0.285	1.155	16.26	0.425	0.205	0.283	1.143	1.533	1.793
S. D.	0.000	0.594	0.014	0.230	0.127	0.007	0.049	0.219	4.44	0.007	0.064	0.272	0.230	0.223	0.520
LOW	0.000	0.940	0.140	3.075	0.670	0.080	0.250	1.000	13.12	0.420	0.160	0.090	0.980	1.375	1.425
HIGH	0.000	1.780	0.160	3.400	0.850	0.090	0.320	1.310	19.40	0.430	0.250	0.475	1.305	1.690	2.160

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- J4 MUSCLE

LENGTH	NUM	10	MEAN	0.247	S. D.	0.012	LOW	0.231	HIGH	0.265					
WEIGHT	NUM	10	MEAN	0.163	S. D.	0.028	LOW	0.133	HIGH	0.234					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0009	0000	0000	0000	0001	0000	0001	0000	0000	0000	0008	0007	0000	0005	0000
MEAN	0.030	0.553	0.111	2.296	0.546	0.037	0.161	0.621	6.76	0.294	0.285	0.303	0.208	0.822	0.588
S. D.	0.000	0.260	0.084	0.937	0.300	0.008	0.034	0.292	1.86	0.082	0.134	0.068	0.041	0.262	0.109
LOW	0.000	0.310	0.060	0.910	0.180	0.030	0.130	0.225	4.31	0.195	0.190	0.250	0.140	0.470	0.380
HIGH	0.030	1.185	0.340	3.500	1.000	0.050	0.220	1.055	10.25	0.430	0.380	0.380	0.260	1.100	0.700

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- J5 H&G

LENGTH	NUM	1	MEAN	0.236	S. D.	0.000	LOW	0.236	HIGH	0.236					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.100	0.905	0.095	2.400	0.850	0.080	0.345	2.345	15.03	0.365	0.265	0.620	0.745	1.295	1.190
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.100	0.905	0.095	2.400	0.850	0.080	0.345	2.345	15.03	0.365	0.265	0.620	0.745	1.295	1.190

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- J7 WHOLE

LENGTH	NUM	12	MEAN	0.232	S. D.	0.019	LOW	0.214	HIGH	0.277					
WEIGHT	NUM	12	MEAN	0.118	S. D.	0.037	LOW	0.088	HIGH	0.214					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0011	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.050	1.141	0.114	2.596	0.911	0.103	0.505	1.071	16.89	0.399	0.182	0.305	0.951	1.628	1.669
S. D.	0.000	0.346	0.033	1.093	0.187	0.032	0.375	0.476	4.54	0.092	0.096	0.154	0.326	0.369	0.450
LOW	0.000	0.560	0.050	1.430	0.605	0.055	0.190	0.190	10.62	0.240	0.060	0.090	0.390	1.130	0.740
HIGH	0.050	1.665	0.170	4.683	1.130	0.150	1.500	1.810	24.56	0.515	0.375	0.595	1.385	2.315	2.215

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- J8 WHOLE

LENGTH	NUM	3	MEAN	0.228	S. D.	0.009	LOW	0.219	HIGH	0.237					
WEIGHT	NUM	3	MEAN	0.090	S. D.	0.011	LOW	0.079	HIGH	0.101					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.080	1.333	0.147	2.198	0.778	0.085	0.362	1.230	15.97	0.382	0.175	0.387	1.003	1.873	1.540
S. D.	0.014	0.267	0.058	0.351	0.152	0.025	0.068	0.251	4.56	0.063	0.015	0.068	0.221	0.180	0.297
LOW	0.070	1.030	0.080	1.950	0.605	0.060	0.315	0.970	10.78	0.320	0.160	0.310	0.760	1.690	1.310
HIGH	0.090	1.530	0.180	2.600	0.890	0.110	0.440	1.470	19.37	0.445	0.190	0.440	1.190	2.050	1.875

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- K1 WHOLE

LENGTH	NUM	17	MEAN	0.236	S. D.	0.047	LOW	0.145	HIGH	0.300					
WEIGHT	NUM	17	MEAN	0.189	S. D.	0.112	LOW	0.040	HIGH	0.394					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017
N DET.	0016	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.020	0.919	0.106	2.011	1.069	0.089	0.269	1.232	16.47	0.373	0.211	0.314	1.126	1.291	1.410
S. D.	0.000	0.178	0.020	0.738	0.275	0.019	0.120	0.588	3.99	0.056	0.081	0.202	0.303	0.339	0.235
LOW	0.000	0.625	0.060	0.775	0.430	0.050	0.125	0.150	11.88	0.290	0.090	0.120	0.650	0.500	1.000
HIGH	0.020	1.250	0.150	3.212	1.600	0.110	0.630	2.880	29.60	0.490	0.330	0.750	1.540	1.880	1.810

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- K1 HEADED

LENGTH	NUM	6	MEAN	0.274	S. D.	0.043	LOW	0.203	HIGH	0.310					
WEIGHT	NUM	6	MEAN	0.229	S. D.	0.101	LOW	0.075	HIGH	0.326					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.040	0.816	0.097	2.891	0.783	0.061	0.203	1.303	12.21	0.309	0.168	0.346	0.831	1.030	1.308
S. D.	0.000	0.159	0.009	1.974	0.232	0.017	0.056	0.469	2.45	0.107	0.059	0.108	0.278	0.323	0.273
LOW	0.000	0.630	0.085	1.300	0.485	0.030	0.120	0.855	8.19	0.140	0.120	0.190	0.480	0.620	0.880
HIGH	0.040	1.035	0.110	6.500	1.100	0.080	0.250	2.160	15.63	0.430	0.250	0.440	1.280	1.500	1.685

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- K2 MUSCLE

LENGTH	NUM	2	MEAN	0.274	S. D.	0.011	LOW	0.266	HIGH	0.282					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	0.890	0.113	3.371	0.813	0.063	0.183	1.028	16.24	0.325	0.125	0.345	0.945	0.845	1.205
S. D.	0.000	0.156	0.004	3.683	0.166	0.004	0.004	0.400	3.56	0.049	0.000	0.134	0.233	0.219	0.247
LOW	0.000	0.780	0.110	0.766	0.695	0.060	0.180	0.745	13.72	0.290	0.000	0.250	0.780	0.690	1.030
HIGH	0.000	1.000	0.115	5.975	0.930	0.065	0.185	1.310	18.75	0.360	0.125	0.440	1.110	1.000	1.380

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- 02 WHOLE

LENGTH	NUM	29	MEAN	0.256	S. D.	0.034	LOW	0.200	HIGH	0.320				
WEIGHT	NUM	29	MEAN	0.181	S. D.	0.130	LOW	0.063	HIGH	0.781				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0029	0029	0029	0029	0028	0029	0029	0029	0029	0029	0029	0029	0029	0029	0029
N DET.	0014	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.065	1.170	0.139	2.560	0.764	0.103	0.424	1.055	17.42	0.397	0.246	0.518	0.949	1.572	1.672
S. D.	0.056	0.276	0.092	1.097	0.274	0.024	0.242	0.227	3.62	0.068	0.129	0.272	0.276	0.386	0.490
LOW	0.020	0.560	0.070	0.950	0.280	0.060	0.170	0.470	10.62	0.275	0.060	0.095	0.070	0.640	0.690
HIGH	0.180	1.810	0.480	4.900	1.415	0.180	1.060	1.570	26.25	0.540	0.620	1.220	1.340	2.660	3.135

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- 03 HEG

LENGTH	NUM	1	MEAN	0.219	S. D.	0.000	LOW	0.219	HIGH	0.219				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.130	1.680	0.260	4.000	0.450	0.070	0.130	1.130	13.75	0.410	0.000	0.060	0.760	1.440	0.840
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.130	1.680	0.260	4.000	0.450	0.070	0.130	1.130	13.75	0.410	0.000	0.060	0.760	1.440	0.840

HERRING, ATL. CLUPEA HARENGUS HARENGUS 078011 AREA- NORTH ATLANTIC SITE- S1 MUSCLE

LENGTH	NUM	12	MEAN	0.252	S. D.	0.029	LOW	0.223	HIGH	0.323				
WEIGHT	NUM	12	MEAN	0.174	S. D.	0.049	LOW	0.132	HIGH	0.281				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0010	0000	0009	0000
MEAN	0.035	0.518	0.087	1.753	0.421	0.040	0.214	0.918	6.42	0.254	0.115	0.265	0.279	0.627	0.620
S. D.	0.010	0.350	0.025	0.717	0.203	0.008	0.102	0.388	1.83	0.058	0.064	0.064	0.064	0.323	0.228
LOW	0.020	0.190	0.060	0.470	0.090	0.030	0.110	0.430	2.78	0.135	0.060	0.220	0.180	0.440	0.400
HIGH	0.040	1.440	0.140	2.750	0.675	0.055	0.500	1.940	8.91	0.340	0.180	0.310	0.395	1.000	1.130

HERRING, PAC. CLUPEA HARENGUS PALLASI 078012 AREA- PACIFIC NORTHWEST SITE- H8 MUSCLE

LENGTH	NUM	4	MEAN	0.245	S. D.	0.000	LOW	0.245	HIGH	0.245				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.098	0.596	0.123	4.259	0.604	0.075	0.269	1.031	7.60	0.305	0.000	0.000	0.565	1.345	0.975
S. D.	0.044	0.246	0.061	1.481	0.238	0.049	0.075	0.082	0.55	0.088	0.000	0.000	0.143	0.331	0.266
LOW	0.040	0.286	0.070	2.730	0.275	0.040	0.195	0.910	6.87	0.235	0.000	0.000	0.410	1.050	0.675
HIGH	0.135	0.825	0.190	6.280	0.835	0.110	0.340	1.090	8.12	0.433	0.000	0.000	0.750	1.750	1.315

HERRING, PAC. CLUPEA HARENGUS PALLASI 078012 AREA- PACIFIC NORTHWEST SITE- H9 MUSCLE

LENGTH	NUM	10	MEAN	0.228	S. D.	0.010	LOW	0.210	HIGH	0.240				
WEIGHT	NUM	9	MEAN	0.132	S. D.	0.013	LOW	0.110	HIGH	0.150				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0001	0000	0000	0004	0000	0000	0000	0000	0006	0010	0000	0002	0000
MEAN	0.055	0.437	0.061	4.265	0.566	0.049	0.171	0.686	4.40	0.232	0.355	0.000	0.364	1.209	0.703
S. D.	0.028	0.155	0.036	1.775	0.196	0.014	0.091	0.268	1.29	0.140	0.597	0.000	0.097	0.263	0.244
LOW	0.020	0.170	0.030	1.650	0.350	0.035	0.045	0.350	2.68	0.090	0.050	0.000	0.145	0.940	0.410
HIGH	0.120	0.630	0.140	6.870	0.930	0.070	0.300	1.200	7.14	0.610	1.250	0.000	0.500	1.630	1.125

HERRING, PAC. CLUPEA HARENGUS PALLASI 078012 AREA- ALASKA SITE- L4 WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020
N DET.	0019	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0002	0000	0000	0000
MEAN	0.260	1.082	0.128	2.439	0.761	0.087	0.291	1.212	14.13	0.319	0.193	0.441	1.189	1.449	2.463
S. D.	0.000	0.444	0.046	1.296	0.325	0.027	0.141	0.678	3.16	0.108	0.083	0.205	0.345	0.381	0.681
LOW	0.000	0.380	0.040	0.150	0.190	0.040	0.060	0.390	5.00	0.060	0.060	0.190	0.660	0.440	1.200
HIGH	0.260	1.880	0.250	5.200	1.380	0.150	0.690	2.810	19.84	0.460	0.380	1.080	2.060	2.060	3.810

HERRING, PAC. CLUPEA HARENGUS PALLASI 078012 AREA- ALASKA SITE- O4 WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0010	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.000	1.014	0.099	2.665	0.935	0.104	0.251	0.652	14.62	0.334	0.230	0.461	1.417	1.306	2.994
S. D.	0.000	0.290	0.016	1.458	0.223	0.053	0.087	0.302	1.77	0.096	0.093	0.232	0.533	0.359	0.722
LOW	0.000	0.750	0.080	1.125	0.660	0.060	0.130	0.280	10.46	0.210	0.145	0.090	0.340	0.625	1.950
HIGH	0.000	1.560	0.130	6.125	1.250	0.240	0.370	1.035	17.63	0.560	0.420	0.770	2.270	1.750	4.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

HERRING, ROUND — ETRUMEUS TERES — 078015 — AREA- NORTH ATLANTIC — SITE- N2 — H&G, TAILLESS

LENGTH	NUM	7	MEAN	0.137	S. D.	0.000	LOW	0.137	HIGH	0.137					
WEIGHT	NUM	7	MEAN	0.028	S. D.	0.001	LOW	0.026	HIGH	0.029					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0001	0000
MEAN	0.025	0.913	0.132	1.689	0.919	0.086	0.325	1.587	15.18	0.345	0.178	0.441	0.934	1.357	1.314
S. D.	0.007	0.203	0.029	0.906	0.272	0.010	0.249	0.374	1.46	0.109	0.066	0.133	0.236	0.323	0.413
LOW	0.020	0.660	0.090	0.745	0.630	0.070	0.190	0.815	13.75	0.240	0.130	0.285	0.630	0.750	0.925
HIGH	0.030	1.250	0.180	2.783	1.385	0.100	0.875	1.940	18.03	0.495	0.250	0.630	1.385	1.690	1.940

HERRING, ROUND — ETRUMEUS TERES — 078015 — AREA- NORTH ATLANTIC — SITE- N7 — H&G, TAILLESS

LENGTH	NUM	10	MEAN	0.145	S. D.	0.002	LOW	0.140	HIGH	0.145					
WEIGHT	NUM	10	MEAN	0.043	S. D.	0.002	LOW	0.040	HIGH	0.046					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0008	0000
MEAN	0.065	0.747	0.158	1.970	0.854	0.083	0.319	1.508	13.39	0.389	0.286	0.536	0.907	1.440	0.945
S. D.	0.053	0.165	0.047	0.870	0.394	0.023	0.171	0.413	2.63	0.089	0.192	0.108	0.314	0.000	0.453
LOW	0.020	0.500	0.110	0.890	0.130	0.050	0.185	0.800	8.25	0.240	0.130	0.410	0.470	1.440	0.140
HIGH	0.140	0.940	0.270	4.000	1.380	0.130	0.620	2.340	16.92	0.510	0.700	0.700	1.630	1.440	1.970

HERRING, ROUND — ETRUMEUS TERES — 078015 — AREA- NORTH ATLANTIC — SITE- N8 — H&G, TAILLESS

LENGTH	NUM	17	MEAN	0.151	S. D.	0.000	LOW	0.151	HIGH	0.151					
WEIGHT	NUM	27	MEAN	0.043	S. D.	0.012	LOW	0.029	HIGH	0.057					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0027	0027	0027	0027	0027	0027	0027	0027	0027	0027	0027	0027	0027	0027	0027
N DET.	0021	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0005	0000	0022	0000
MEAN	0.033	0.796	0.163	3.830	1.215	0.075	0.301	1.766	14.38	0.406	0.236	0.379	0.786	0.958	0.962
S. D.	0.024	0.306	0.036	2.162	0.480	0.017	0.166	0.730	2.30	0.095	0.259	0.144	0.216	0.405	0.286
LOW	0.020	0.310	0.095	0.710	0.260	0.050	0.130	0.130	8.13	0.190	0.090	0.170	0.520	0.380	0.470
HIGH	0.080	1.810	0.270	10.650	2.130	0.110	0.880	3.080	18.25	0.630	1.250	0.840	1.285	1.440	1.700

HERRING, ROUND — ETRUMEUS TERES — 078015 — AREA- NORTH ATLANTIC — SITE- R6 — H&G, TAILLESS

LENGTH	NUM	6	MEAN	0.120	S. D.	0.000	LOW	0.120	HIGH	0.120					
WEIGHT	NUM	6	MEAN	0.019	S. D.	0.001	LOW	0.018	HIGH	0.022					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0002	0000
MEAN	0.000	0.892	0.258	2.935	0.745	0.082	0.343	1.640	15.69	0.377	0.213	0.570	0.885	1.220	1.881
S. D.	0.000	0.613	0.110	1.861	0.504	0.012	0.227	0.475	4.91	0.084	0.045	0.215	0.236	0.259	1.032
LOW	0.000	0.250	0.180	1.010	0.060	0.060	0.100	0.770	8.19	0.260	0.160	0.440	0.630	0.940	0.900
HIGH	0.000	2.060	0.460	6.200	1.150	0.090	0.750	2.190	22.94	0.450	0.250	1.000	1.300	1.440	3.750

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	28	MEAN	0.303	S. D.	0.050	LOW	0.240	HIGH	0.445					
WEIGHT	NUM	28	MEAN	0.382	S. D.	0.150	LOW	0.248	HIGH	0.916					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0028	0027	0028	0028	0027	0028	0027	0027	0027	0028	0028	0028	0027	0028	0027
N DET.	0000	0000	0000	0000	0000	0006	0000	0000	0000	0001	0021	0023	0000	0002	0000
MEAN	0.210	0.508	0.094	3.047	0.731	0.039	0.164	0.927	5.62	0.252	0.267	0.350	0.165	0.812	0.568
S. D.	0.104	0.289	0.061	1.454	0.204	0.010	0.116	0.321	1.23	0.121	0.159	0.255	0.056	0.480	0.113
LOW	0.040	0.175	0.040	0.300	0.410	0.020	0.040	0.260	3.78	0.070	0.060	0.200	0.085	0.060	0.400
HIGH	0.455	1.213	0.300	6.720	1.120	0.060	0.525	1.900	8.57	0.640	0.500	0.800	0.285	2.380	0.775

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	2	MEAN	0.272	S. D.	0.037	LOW	0.246	HIGH	0.298					
WEIGHT	NUM	2	MEAN	0.308	S. D.	0.004	LOW	0.305	HIGH	0.310					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0002	0000	0001	0000
MEAN	0.100	0.633	0.915	2.070	2.470	0.050	0.285	1.320	21.30	0.360	0.365	0.000	0.690	0.630	0.320
S. D.	0.085	0.251	0.389	0.099	0.198	0.000	0.262	1.358	0.83	0.000	0.021	0.000	0.071	0.000	0.028
LOW	0.040	0.455	0.640	2.000	2.330	0.000	0.100	0.360	20.71	0.360	0.350	0.000	0.640	0.000	0.300
HIGH	0.160	0.810	1.190	2.140	2.610	0.050	0.470	2.280	21.88	0.360	0.380	0.000	0.740	0.630	0.340

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- E8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0009	0000	0001	0000
MEAN	0.136	0.492	0.066	3.651	1.303	0.029	0.377	0.924	6.38	0.212	0.000	0.280	0.138	0.648	0.481
S. D.	0.058	0.263	0.016	1.257	0.273	0.009	0.300	0.288	0.94	0.038	0.000	0.000	0.024	0.150	0.075
LOW	0.070	0.220	0.040	1.750	1.030	0.010	0.130	0.395	4.81	0.130	0.000	0.000	0.110	0.440	0.380
HIGH	0.225	1.060	0.090	6.250	1.930	0.040	1.000	1.310	7.69	0.270	0.000	0.280	0.180	0.940	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- H2 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0002	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.265	0.685	0.000	3.425	0.630	0.000	0.270	1.113	3.98	0.140	0.000	0.000	0.125	1.660	0.958
S. D.	0.049	0.276	0.000	0.742	0.064	0.000	0.049	0.131	0.41	0.099	0.000	0.000	0.078	1.018	0.506
LOW	0.230	0.490	0.000	2.900	0.585	0.000	0.235	1.020	3.69	0.070	0.000	0.000	0.070	0.940	0.600
HIGH	0.300	0.880	0.000	3.950	0.675	0.000	0.305	1.205	4.27	0.210	0.000	0.000	0.180	2.380	1.315

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- L8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0002	0001	0000	0001
MEAN	0.501	0.637	0.055	1.986	0.827	0.039	0.176	0.561	4.74	0.154	0.280	0.182	0.111	0.998	0.500
S. D.	0.203	0.380	0.018	1.478	0.260	0.011	0.148	0.136	2.20	0.047	0.090	0.116	0.034	0.355	0.216
LOW	0.070	0.190	0.020	1.300	0.505	0.030	0.060	0.410	2.20	0.110	0.190	0.060	0.060	0.535	0.100
HIGH	0.700	1.250	0.070	5.325	1.330	0.060	0.480	0.810	9.19	0.220	0.370	0.310	0.160	1.690	0.715

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- L8 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.980	0.310	2.870	1.012	2.650	0.040	0.120	3.310	25.00	0.220	0.000	0.630	0.690	0.310	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.980	0.310	2.870	1.012	2.650	0.040	0.120	3.310	25.00	0.220	0.000	0.630	0.690	0.310	0.630

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- R5 — MUSCLE

LENGTH	NUM	2	MEAN	0.246	S. D.	0.002	LOW	0.244	HIGH	0.247					
WEIGHT	NUM	2	MEAN	0.326	S. D.	0.021	LOW	0.311	HIGH	0.341					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.085	0.395	0.053	3.885	0.745	0.030	0.235	0.918	4.97	0.185	0.060	0.150	0.148	0.718	0.530
S. D.	0.007	0.233	0.018	3.345	0.007	0.000	0.120	0.173	0.48	0.007	0.000	0.000	0.018	0.315	0.042
LOW	0.080	0.230	0.040	1.520	0.740	0.030	0.150	0.795	4.63	0.180	0.000	0.000	0.135	0.495	0.500
HIGH	0.090	0.560	0.065	6.250	0.750	0.030	0.320	1.040	5.31	0.190	0.060	0.150	0.160	0.940	0.560

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- R6 — MUSCLE

LENGTH	NUM	7	MEAN	0.288	S. D.	0.008	LOW	0.275	HIGH	0.297					
WEIGHT	NUM	7	MEAN	0.455	S. D.	0.041	LOW	0.385	HIGH	0.510					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0007	0007	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0001	0003	0000	0001	0000
MEAN	0.139	0.329	0.066	2.800	0.857	0.043	0.115	0.716	4.84	0.193	0.127	0.215	0.131	0.769	0.540
S. D.	0.046	0.117	0.009	1.445	0.305	0.011	0.030	0.074	1.03	0.066	0.080	0.271	0.024	0.438	0.150
LOW	0.085	0.155	0.055	1.380	0.550	0.030	0.060	0.630	3.85	0.100	0.060	0.060	0.100	0.130	0.360
HIGH	0.210	0.470	0.080	4.765	1.460	0.060	0.137	0.810	6.47	0.280	0.250	0.620	0.170	1.200	0.750

RUNNER, BLUE — CARANX CRYSOS — 079004 — AREA- GULF — SITE- R6 — LIVER

LENGTH	NUM	1	MEAN	0.291	S. D.	0.000	LOW	0.291	HIGH	0.291					
WEIGHT	NUM	1	MEAN	0.473	S. D.	0.000	LOW	0.473	HIGH	0.473					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.140	0.310	1.870	0.500	0.000	0.040	0.120	3.250	18.50	0.600	0.000	0.000	0.690	0.630	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.140	0.310	1.870	0.500	0.000	0.040	0.120	3.250	18.50	0.600	0.000	0.000	0.690	0.630	0.630

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- 87 — MUSCLE

LENGTH	NUM	1	MEAN	0.800	S. D.	0.000	LOW	0.800	HIGH	0.800					
WEIGHT	NUM	1	MEAN	9.193	S. D.	0.000	LOW	9.193	HIGH	9.193					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.375	0.625	0.070	2.903	0.840	0.030	0.095	0.595	9.09	0.210	0.000	0.000	0.130	0.485	0.405
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.375	0.625	0.070	2.903	0.840	0.030	0.095	0.595	9.09	0.210	0.000	0.000	0.130	0.485	0.405

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- B7 — LIVER

LENGTH	NUM	1	MEAN	0.800	S. D.	0.000	LOW	0.800	HIGH	0.800					
WEIGHT	NUM	1	MEAN	9.193	S. D.	0.000	LOW	9.193	HIGH	9.193					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	2.050	1.190	0.950	0.750	7.150	0.030	0.060	5.310	35.63	0.620	0.440	0.000	1.840	0.690	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	2.050	1.190	0.950	0.750	7.150	0.030	0.060	5.310	35.63	0.620	0.440	0.000	1.840	0.690	0.500

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	7	MEAN	0.838	S. D.	0.142	LOW	0.737	HIGH	1.143					
WEIGHT	NUM	7	MEAN	10.222	S. D.	1.361	LOW	9.072	HIGH	12.247					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0006	0006	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0003	0000	0000	0005	0000	0000	0000	0001	0005	0005	0000	0000	0000
MEAN	1.501	0.606	0.068	2.877	0.898	0.210	0.224	0.823	5.08	0.143	0.265	0.435	0.198	1.168	0.531
S. D.	0.395	0.304	0.035	1.516	0.215	0.240	0.083	0.193	0.84	0.124	0.332	0.092	0.140	0.562	0.225
LOW	0.880	0.156	0.025	0.800	0.650	0.040	0.090	0.500	4.13	0.020	0.030	0.370	0.040	0.150	0.260
HIGH	2.110	1.000	0.110	5.300	1.195	0.380	0.353	1.030	6.31	0.360	0.500	0.500	0.430	1.930	1.000

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- B8 — LIVER

LENGTH	NUM	2	MEAN	0.957	S. D.	0.263	LOW	0.771	HIGH	1.143					
WEIGHT	NUM	2	MEAN	10.739	S. D.	1.331	LOW	9.798	HIGH	11.680					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	1.403	1.473	1.353	2.903	9.000	0.025	0.232	12.918	99.21	1.288	0.720	0.940	1.523	1.690	0.495
S. D.	1.375	0.308	0.449	0.000	0.000	0.007	0.030	7.810	72.71	1.234	0.000	0.000	0.562	0.000	0.007
LOW	0.430	1.255	1.035	0.000	0.000	0.020	0.210	7.395	47.79	0.415	0.000	0.000	1.125	0.000	0.490
HIGH	2.375	1.690	1.670	2.903	9.000	0.030	0.253	18.440	150.62	2.160	0.720	0.940	1.920	1.690	0.500

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.549	S. D.	0.224	LOW	0.274	HIGH	0.880					
WEIGHT	NUM	20	MEAN	2.688	S. D.	2.379	LOW	0.245	HIGH	6.635					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0019	0020	0019	0020	0020	0020	0020	0020	0019	0020	0019
N DET.	0000	0001	0003	0001	0000	0005	0001	0000	0000	0003	0018	0017	0000	0003	0000
MEAN	0.603	0.461	0.079	2.798	0.785	0.043	0.247	0.977	5.13	0.258	0.750	0.280	0.164	0.702	0.516
S. D.	0.315	0.202	0.026	1.353	0.305	0.040	0.197	0.402	1.51	0.180	0.707	0.118	0.079	0.222	0.178
LOW	0.190	0.190	0.040	0.650	0.240	0.010	0.040	0.455	2.88	0.090	0.250	0.150	0.105	0.380	0.300
HIGH	1.210	0.840	0.150	6.500	1.570	0.180	0.800	2.310	9.64	0.710	1.250	0.380	0.430	1.190	0.810

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	1	MEAN	0.643	S. D.	0.000	LOW	0.643	HIGH	0.643					
WEIGHT	NUM	1	MEAN	3.670	S. D.	0.000	LOW	3.670	HIGH	3.670					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.860	0.500	0.410	4.000	6.050	0.030	0.250	2.530	21.88	0.110	0.250	0.000	0.580	0.440	0.010
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.860	0.500	0.410	4.000	6.050	0.030	0.250	2.530	21.88	0.110	0.250	0.000	0.580	0.440	0.010

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	11	MEAN	0.368	S. D.	0.073	LOW	0.286	HIGH	0.562					
WEIGHT	NUM	11	MEAN	1.066	S. D.	0.415	LOW	0.579	HIGH	2.005					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0010	0010	0010	0011	0011	0011	0011	0011	0011	0011	0011	0010
N DET.	0000	0000	0002	0000	0000	0003	0002	0000	0000	0002	0007	0009	0000	0002	0000
MEAN	0.466	0.407	0.080	2.051	0.619	0.035	0.166	0.763	5.68	0.233	0.438	0.395	0.166	0.796	0.569
S. D.	0.200	0.242	0.035	1.790	0.344	0.017	0.068	0.220	1.55	0.081	0.310	0.332	0.052	0.615	0.215
LOW	0.295	0.100	0.040	0.540	0.040	0.020	0.056	0.460	3.44	0.090	0.160	0.160	0.100	0.060	0.300
HIGH	1.025	0.807	0.140	5.800	1.135	0.060	0.300	1.080	9.32	0.335	0.870	0.630	0.265	1.700	0.940

JACK, CREVALLE — CARANX HIPPOS — 079005 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0003	0001	0000	0000	0001	0004	0006	0000	0001	0000
MEAN	0.390	0.338	0.054	2.612	0.475	0.031	0.187	0.725	4.58	0.160	0.197	0.445	0.154	0.521	0.425
S. D.	0.031	0.108	0.023	1.224	0.142	0.017	0.094	0.217	1.00	0.086	0.147	0.335	0.036	0.273	0.071
LOW	0.320	0.200	0.035	0.370	0.360	0.010	0.045	0.350	2.72	0.040	0.060	0.050	0.120	0.190	0.300
HIGH	0.440	0.500	0.110	4.750	0.820	0.060	0.320	1.120	5.85	0.305	0.440	0.800	0.220	1.050	0.520

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SCAD, ROUND — DECAPTERUS PUNCTATUS — 079013 — AREA- SOUTH ATLANTIC — SITE- G1 — H&G, TAILLESS

LENGTH	NUM	3	MEAN	0.119	S. D.	0.000	LOW	0.119	HIGH	0.119					
WEIGHT	NUM	3	MEAN	0.020	S. D.	0.000	LOW	0.020	HIGH	0.020					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0001	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000
MEAN	0.010	1.232	0.108	9.705	0.805	0.083	0.465	0.940	15.30	0.530	0.220	0.880	0.752	2.003	1.717
S. D.	0.000	0.724	0.004	1.421	0.177	0.023	0.293	0.151	1.91	0.184	0.000	0.656	0.235	0.666	1.134
LOW	0.010	0.630	0.105	8.700	0.680	0.070	0.165	0.820	14.10	0.320	0.000	0.410	0.500	1.470	0.850
HIGH	0.010	2.035	0.110	10.710	0.930	0.110	0.750	1.110	17.50	0.660	0.220	1.630	0.965	2.750	3.000

YELLOWTAIL — SERIOLA DORSALIS — 079023 — AREA- CALIFORNIA — SITE- K3 — MUSCLE

LENGTH	NUM	24	MEAN	0.776	S. D.	0.085	LOW	0.627	HIGH	0.914					
WEIGHT	NUM	24	MEAN	5.395	S. D.	2.673	LOW	2.724	HIGH	10.783					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0024	0021	0023	0024	0024	0023	0023	0024	0023	0023	0024	0024	0023	0024	0022
N DET.	0000	0001	0000	0001	0000	0002	0000	0000	0000	0000	0021	0021	0000	0002	0000
MEAN	0.146	0.542	0.086	2.798	0.525	0.035	0.301	0.540	5.55	0.221	0.433	0.263	0.119	0.738	0.660
S. D.	0.074	0.272	0.039	1.194	0.206	0.033	0.263	0.321	1.43	0.110	0.325	0.183	0.055	0.230	0.358
LOW	0.020	0.150	0.040	0.646	0.170	0.010	0.030	0.040	3.81	0.070	0.080	0.120	0.010	0.250	0.200
HIGH	0.295	1.190	0.180	4.350	1.120	0.160	1.250	1.650	9.28	0.495	0.720	0.470	0.250	1.130	1.750

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	9	MEAN	0.266	S. D.	0.025	LOW	0.228	HIGH	0.300					
WEIGHT	NUM	9	MEAN	0.388	S. D.	0.126	LOW	0.250	HIGH	0.538					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0008	0008	0009	0009	0008	0008	0008	0008	0008	0008	0007	0008	0008	0008
N DET.	0001	0000	0002	0000	0000	0001	0000	0000	0000	0000	0005	0003	0000	0001	0000
MEAN	0.064	0.340	0.054	7.326	0.762	0.062	0.165	0.411	8.38	0.278	0.403	0.148	0.142	0.956	0.419
S. D.	0.033	0.116	0.011	4.396	0.600	0.066	0.120	0.134	3.12	0.197	0.274	0.111	0.054	0.333	0.167
LOW	0.020	0.100	0.040	2.760	0.335	0.030	0.060	0.190	4.71	0.110	0.240	0.060	0.055	0.340	0.150
HIGH	0.120	0.480	0.070	14.600	2.250	0.210	0.430	0.570	14.14	0.675	0.720	0.310	0.245	1.250	0.720

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- SOUTH ATLANTIC — SITE- J4 — LIVER

LENGTH	NUM	1	MEAN	0.259	S. D.	0.000	LOW	0.259	HIGH	0.259					
WEIGHT	NUM	1	MEAN	0.275	S. D.	0.000	LOW	0.275	HIGH	0.275					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.000	0.200	0.680	8.850	1.640	0.120	0.190	10.560	32.50	0.450	0.310	0.000	0.610	0.000	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.200	0.680	8.850	1.640	0.120	0.190	10.560	32.50	0.450	0.310	0.000	0.610	0.000	0.560

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.367	S. D.	0.028	LOW	0.317	HIGH	0.422					
WEIGHT	NUM	20	MEAN	0.634	S. D.	0.194	LOW	0.418	HIGH	1.168					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0018
N DET.	0002	0001	0003	0000	0000	0005	0001	0000	0000	0000	0015	0016	0000	0002	0000
MEAN	0.068	0.408	0.071	8.029	0.657	0.028	0.146	0.371	7.00	0.192	0.204	0.293	0.104	0.766	0.480
S. D.	0.033	0.179	0.023	4.535	0.187	0.009	0.124	0.142	1.08	0.080	0.120	0.015	0.030	0.264	0.162
LOW	0.020	0.220	0.040	1.900	0.410	0.010	0.050	0.040	5.53	0.075	0.060	0.280	0.070	0.380	0.030
HIGH	0.125	0.750	0.130	19.210	1.110	0.050	0.535	0.590	8.75	0.360	0.370	0.310	0.190	1.250	0.750

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	2	MEAN	0.361	S. D.	0.008	LOW	0.355	HIGH	0.366					
WEIGHT	NUM	2	MEAN	0.585	S. D.	0.030	LOW	0.563	HIGH	0.606					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.095	0.625	2.750	4.785	0.900	0.110	0.080	14.065	49.66	0.900	0.780	0.380	0.905	0.690	0.845
S. D.	0.007	0.530	1.598	3.203	0.806	0.042	0.000	2.213	29.65	0.679	0.750	0.000	0.035	0.354	0.219
LOW	0.090	0.250	1.620	2.520	0.330	0.080	0.000	12.500	28.69	0.420	0.250	0.000	0.880	0.440	0.690
HIGH	0.100	1.000	3.880	7.050	1.470	0.140	0.080	15.630	70.62	1.380	1.310	0.380	0.930	0.940	1.000

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0009	0008	0000	0000	0000
MEAN	0.230	0.551	0.098	9.805	0.447	0.020	0.387	0.269	8.62	0.152	0.130	0.220	0.090	0.701	0.547
S. D.	0.108	0.232	0.076	5.831	0.188	0.012	0.284	0.118	0.77	0.046	0.000	0.042	0.029	0.182	0.151
LOW	0.120	0.060	0.060	3.350	0.220	0.010	0.095	0.080	7.03	0.080	0.000	0.190	0.055	0.480	0.310
HIGH	0.420	0.810	0.310	21.475	0.850	0.040	0.750	0.490	9.31	0.250	0.130	0.250	0.150	0.940	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- GULF — SITE- R6 — MUSCLE

LENGTH	NUM	11	MEAN	0.300	S. D.	0.000	LOW	0.300	HIGH	0.300				
WEIGHT	NUM	11	MEAN	0.596	S. D.	0.000	LOW	0.596	HIGH	0.596				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0022	0021	0022	0022	0022	0022	0021	0021	0022	0021	0022	0022	0022	0022	0021
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0018	0014	0001	0001	0000
MEAN	0.117	0.337	0.071	4.609	0.661	0.031	0.121	0.338	6.41	0.176	0.181	0.320	0.077	0.528	0.589
S. D.	0.074	0.169	0.021	2.532	0.348	0.016	0.056	0.165	1.51	0.083	0.126	0.186	0.023	0.266	0.231
LOW	0.030	0.030	0.025	0.640	0.400	0.010	0.030	0.140	2.25	0.065	0.105	0.070	0.030	0.060	0.300
HIGH	0.305	0.690	0.110	11.800	1.780	0.070	0.220	0.765	9.56	0.380	0.370	0.630	0.130	1.000	1.220

POMPANO, FLORIDA — TRACHINOTUS CAROLINUS — 079028 — AREA- GULF — SITE- R6 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.160	0.500	5.750	2.020	0.770	0.070	0.080	29.370	44.37	0.460	0.500	0.440	0.650	0.630	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.160	0.500	5.750	2.020	0.770	0.070	0.080	29.370	44.37	0.460	0.500	0.440	0.650	0.630	0.750

PERMIT — TRACHINOTUS FALCATUS — 079029 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	7	MEAN	0.200	S. D.	0.006	LOW	0.194	HIGH	0.212				
WEIGHT	NUM	7	MEAN	0.203	S. D.	0.014	LOW	0.180	HIGH	0.219				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0003	0000	0000	0002	0000	0000	0000	0003	0007	0007	0001	0002	0000
MEAN	0.107	0.737	0.088	8.936	0.612	0.040	0.172	0.369	4.90	0.288	0.505	0.350	0.116	1.212	0.489
S. D.	0.043	0.443	0.046	2.159	0.217	0.017	0.076	0.078	0.57	0.151	0.516	0.212	0.037	0.540	0.184
LOW	0.060	0.220	0.040	5.500	0.250	0.010	0.056	0.290	4.19	0.140	0.140	0.200	0.070	0.775	0.120
HIGH	0.190	1.650	0.140	11.470	1.010	0.070	0.280	0.540	5.91	0.520	0.870	0.500	0.175	2.330	0.685

PALOMETA — TRACHINOTUS GOODEI — 079030 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	2	MEAN	0.232	S. D.	0.002	LOW	0.230	HIGH	0.233				
WEIGHT	NUM	2	MEAN	0.334	S. D.	0.020	LOW	0.320	HIGH	0.348				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0002	0002	0002	0000	0002	0000
MEAN	0.330	0.363	0.040	7.645	0.640	0.000	0.163	0.263	4.51	0.000	0.000	0.000	0.115	0.000	0.363
S. D.	0.368	0.018	0.000	1.690	0.226	0.000	0.004	0.173	0.82	0.000	0.000	0.000	0.064	0.000	0.018
LOW	0.070	0.350	0.000	6.450	0.480	0.000	0.160	0.140	3.93	0.000	0.000	0.000	0.070	0.000	0.350
HIGH	0.590	0.375	0.040	8.840	0.800	0.000	0.165	0.385	5.09	0.000	0.000	0.000	0.160	0.000	0.375

MACKEREL, JACK — TRACHURUS SYMMETRICUS — 079034 — AREA- CALIFORNIA — SITE- H3 — MUSCLE

LENGTH	NUM	10	MEAN	0.567	S. D.	0.014	LOW	0.550	HIGH	0.590				
WEIGHT	NUM	10	MEAN	2.200	S. D.	0.140	LOW	1.920	HIGH	2.380				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0003	0001	0000	0000	0000	0008	0006	0000	0000	0000
MEAN	0.332	0.451	0.075	1.942	0.817	0.040	0.122	0.467	4.44	0.175	0.060	0.238	0.135	0.542	0.480
S. D.	0.093	0.165	0.018	0.933	0.249	0.038	0.057	0.182	1.88	0.046	0.000	0.107	0.032	0.112	0.164
LOW	0.230	0.280	0.060	0.350	0.480	0.010	0.060	0.100	2.25	0.090	0.060	0.130	0.090	0.425	0.220
HIGH	0.510	0.810	0.110	3.725	1.285	0.115	0.220	0.680	8.63	0.220	0.060	0.380	0.185	0.750	0.690

MACKEREL, JACK — TRACHURUS SYMMETRICUS — 079034 — AREA- CALIFORNIA — SITE- H3 — LIVER

LENGTH	NUM	1	MEAN	0.567	S. D.	0.000	LOW	0.567	HIGH	0.567				
WEIGHT	NUM	1	MEAN	2.200	S. D.	0.000	LOW	2.200	HIGH	2.200				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.860	0.565	13.440	2.870	8.185	0.030	0.155	2.410	36.72	0.225	0.345	3.440	1.145	0.720	0.250
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.860	0.565	13.440	2.870	8.185	0.030	0.155	2.410	36.72	0.225	0.345	3.440	1.145	0.720	0.250

MACKEREL, JACK — TRACHURUS SYMMETRICUS — 079034 — AREA- CALIFORNIA — SITE- I8 — HEADED

LENGTH	NUM	4	MEAN	0.250	S. D.	0.000	LOW	0.250	HIGH	0.250				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0003
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.070	0.978	0.105	2.628	0.576	0.118	0.193	0.649	7.70	0.288	0.187	0.135	0.194	1.091	1.340
S. D.	0.000	0.659	0.064	1.928	0.206	0.028	0.114	0.256	3.57	0.152	0.085	0.052	0.093	0.484	0.136
LOW	0.000	0.190	0.010	1.025	0.335	0.090	0.040	0.310	2.38	0.070	0.090	0.090	0.060	0.380	1.190
HIGH	0.070	1.690	0.150	5.000	0.830	0.150	0.315	0.880	9.90	0.400	0.250	0.185	0.265	1.405	1.455

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

LOCATION LEVEL 5

JACK, AKULE — TRACHUROPS CRUMENOPTHALMUS — 079053 — AREA- HAWAII — SITE- D1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	39	MEAN	0.266	S. D.	0.043	LOW	0.187	HIGH	0.369					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0039	0038	0039	0038	0037	0038	0039	0038	0039	0038	0039	0039	0039	0039	0038
N DET.	0002	0001	0003	0000	0000	0010	0002	0000	0000	0002	0030	0028	0000	0005	0000
MEAN	0.149	0.484	0.077	3.760	0.883	0.037	0.186	1.280	12.07	0.239	0.158	0.305	0.181	0.632	0.497
S. D.	0.062	0.299	0.050	2.088	0.226	0.027	0.135	1.336	5.15	0.131	0.100	0.220	0.091	0.208	0.189
LOW	0.020	0.180	0.010	1.100	0.570	0.010	0.050	0.210	6.59	0.040	0.060	0.100	0.070	0.250	0.190
HIGH	0.270	1.505	0.290	12.100	1.660	0.140	0.690	8.995	31.79	0.470	0.280	0.870	0.670	1.065	1.250

JACK, (MACKEREL SCAD) — DECAPTERUS PINNULATUS — 079068 — AREA- HAWAII — SITE- D6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	21	MEAN	0.398	S. D.	0.033	LOW	0.347	HIGH	0.463					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0021	0020	0021	0021	0021	0020	0020	0021	0021	0021	0021	0021	0021	0019
N DET.	0004	0001	0000	0000	0000	0000	0000	0000	0000	0000	0020	0020	0000	0005	0000
MEAN	0.072	0.577	0.092	3.457	0.976	0.035	0.215	1.093	8.79	0.209	0.220	0.170	0.187	0.599	0.558
S. D.	0.045	0.344	0.022	1.563	0.387	0.009	0.150	0.488	2.26	0.064	0.000	0.000	0.058	0.246	0.154
LOW	0.020	0.130	0.060	0.970	0.190	0.020	0.040	0.260	3.50	0.120	0.000	0.000	0.115	0.130	0.380
HIGH	0.160	1.440	0.130	6.650	1.620	0.060	0.640	1.880	12.38	0.370	0.220	0.170	0.310	1.000	1.000

JACK, (MACKEREL SCAD) — DECAPTERUS PINNULATUS — 079068 — AREA- HAWAII — SITE- H4 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.178	S. D.	0.029	LOW	0.133	HIGH	0.212					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0009	0000	0001	0000	0000	0004	0000	0000	0000	0001	0007	0006	0000	0002	0000
MEAN	0.050	0.777	0.082	4.660	1.188	0.038	0.314	1.477	10.51	0.216	0.197	0.415	0.181	0.873	0.671
S. D.	0.000	0.546	0.040	2.530	0.405	0.026	0.192	0.378	2.79	0.176	0.080	0.190	0.062	0.279	0.255
LOW	0.000	0.365	0.040	1.790	0.650	0.010	0.080	1.006	7.63	0.040	0.120	0.160	0.040	0.400	0.325
HIGH	0.050	2.130	0.180	10.280	1.840	0.070	0.680	2.240	16.36	0.610	0.280	0.620	0.260	1.250	1.120

JACK, (MACKEREL SCAD) — DECAPTERUS PINNULATUS — 079068 — AREA- HAWAII — SITE- H5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	9	MEAN	0.314	S. D.	0.035	LOW	0.272	HIGH	0.369					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0009	0000	0003	0000
MEAN	0.027	0.478	0.078	5.026	1.193	0.028	0.161	1.028	7.60	0.170	0.000	0.000	0.162	0.637	0.506
S. D.	0.012	0.288	0.019	3.161	0.242	0.012	0.086	0.545	1.68	0.085	0.000	0.000	0.059	0.152	0.135
LOW	0.020	0.250	0.060	1.425	0.730	0.010	0.060	0.220	5.80	0.060	0.000	0.000	0.100	0.500	0.380
HIGH	0.040	1.000	0.120	10.100	1.450	0.040	0.310	2.000	11.00	0.340	0.000	0.000	0.300	0.880	0.810

JACK, CREVALLE (HAWAII) — CARANX MELAMPYGUS — 079069 — AREA- HAWAII — SITE- D6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	3.005	S. D.	0.000	LOW	3.005	HIGH	3.005					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.515	0.250	0.060	2.890	0.445	0.035	0.060	0.335	3.91	0.220	0.870	0.230	0.080	0.720	0.610
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.515	0.250	0.060	2.890	0.445	0.035	0.060	0.335	3.91	0.220	0.870	0.230	0.080	0.720	0.610

JACK, CREVALLE (HAWAII) — CARANX MELAMPYGUS — 079069 — AREA- HAWAII — SITE- D9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	39	MEAN	2.364	S. D.	0.637	LOW	1.701	HIGH	4.111					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0038	0037	0039	0039	0039	0039	0039	0039	0039	0039	0039	0039	0039	0038	0035
N DET.	0000	0000	0000	0000	0001	0002	0001	0000	0000	0000	0034	0029	0000	0008	0000
MEAN	0.332	0.354	0.067	2.513	0.381	0.035	0.195	0.383	4.00	0.229	0.128	0.232	0.102	0.746	0.637
S. D.	0.141	0.157	0.027	1.423	0.191	0.014	0.115	0.222	1.29	0.104	0.078	0.120	0.033	0.208	0.216
LOW	0.070	0.130	0.020	0.510	0.050	0.010	0.020	0.120	1.38	0.060	0.060	0.060	0.040	0.380	0.285
HIGH	0.580	0.880	0.150	6.500	0.820	0.100	0.465	1.060	7.38	0.540	0.250	0.440	0.180	1.190	1.220

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	1	MEAN	1.175	S. D.	0.000	LOW	1.175	HIGH	1.175					
WEIGHT	NUM	3	MEAN	14.906	S. D.	6.875	LOW	7.037	HIGH	19.749					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0003	0000
MEAN	0.730	0.345	0.052	1.392	0.835	0.025	0.218	0.333	4.91	0.217	0.000	0.000	0.072	0.000	0.608
S. D.	0.468	0.035	0.003	0.970	0.308	0.009	0.148	0.021	0.58	0.023	0.000	0.000	0.010	0.000	0.202
LOW	0.190	0.310	0.050	0.700	0.500	0.015	0.090	0.310	4.25	0.190	0.000	0.000	0.060	0.000	0.470
HIGH	1.000	0.380	0.055	2.500	1.105	0.030	0.380	0.350	5.34	0.230	0.000	0.000	0.080	0.000	0.840

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- HAWAII — SITE- A8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	15.739	S. D.	1.311	LOW	14.982	HIGH	17.252					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0001	0001	0000	0000	0002	0001	0000	0000	0001	0002	0003	0001	0002	0000
MEAN	0.357	0.700	0.125	2.663	1.232	0.030	0.210	0.180	6.94	0.480	0.080	0.000	0.140	0.710	0.292
S. D.	0.293	0.212	0.078	1.228	0.682	0.000	0.127	0.167	1.29	0.028	0.000	0.000	0.099	0.000	0.128
LOW	0.140	0.550	0.070	1.490	0.740	0.000	0.120	0.030	5.64	0.460	0.000	0.000	0.070	0.000	0.150
HIGH	0.690	0.850	0.180	3.940	2.010	0.030	0.300	0.360	8.21	0.500	0.080	0.000	0.210	0.710	0.400

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	9	MEAN	20.077	S. D.	5.945	LOW	9.988	HIGH	27.694					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0001	0001	0001	0000	0000	0007	0009	0000	0003	0000
MEAN	0.564	0.512	0.098	4.305	1.069	0.038	0.503	0.511	5.82	0.261	0.220	0.000	0.134	0.717	0.496
S. D.	0.421	0.270	0.051	2.068	0.298	0.015	0.493	0.516	1.00	0.116	0.042	0.000	0.084	0.373	0.095
LOW	0.180	0.110	0.040	1.766	0.730	0.020	0.060	0.080	3.89	0.125	0.190	0.000	0.055	0.380	0.350
HIGH	1.430	0.940	0.180	7.360	1.690	0.070	1.560	1.610	7.06	0.490	0.250	0.000	0.290	1.400	0.630

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- HAWAII — SITE- D5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	20.279	S. D.	6.426	LOW	16.344	HIGH	27.694					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0000	0001	0000
MEAN	0.190	0.213	2.133	3.800	3.740	0.047	0.260	25.357	238.33	0.287	0.407	1.090	0.657	0.910	0.607
S. D.	0.028	0.144	1.600	2.404	1.640	0.023	0.071	19.543	350.71	0.116	0.301	0.000	0.428	0.750	0.342
LOW	0.170	0.130	0.740	2.100	2.580	0.020	0.210	8.440	25.63	0.210	0.120	0.000	0.380	0.380	0.380
HIGH	0.210	0.380	3.880	5.500	4.900	0.060	0.310	46.750	643.12	0.420	0.720	1.090	1.150	1.440	1.000

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- HAWAII — SITE- D8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	9.988	S. D.	0.000	LOW	9.988	HIGH	9.988					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.240	0.463	0.110	4.125	0.915	0.040	0.300	0.195	4.14	0.110	0.000	0.000	0.125	0.940	0.515
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.240	0.463	0.110	4.125	0.915	0.040	0.300	0.195	4.14	0.110	0.000	0.000	0.125	0.940	0.515

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- HAWAII — SITE- H6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	13.620	S. D.	0.000	LOW	13.620	HIGH	13.620					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.110	0.420	0.500	5.150	1.400	0.000	0.390	0.245	4.64	0.250	0.000	0.000	0.090	1.275	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.110	0.420	0.500	5.150	1.400	0.000	0.390	0.245	4.64	0.250	0.000	0.000	0.090	1.275	0.400

WAHOO — ACANTHOCYBIUM SOLANDERI — 091001 — AREA- HAWAII — SITE- J5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	20.430	S. D.	0.000	LOW	20.430	HIGH	20.430					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.440	0.250	0.040	2.900	1.515	0.020	0.220	0.255	5.32	0.210	0.700	0.800	0.060	1.300	0.745
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.440	0.250	0.040	2.900	1.515	0.020	0.220	0.255	5.32	0.210	0.700	0.800	0.060	1.300	0.745

TUNNY, LITTLE — EUTHYNNUS ALLETTERATUS — 091006 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	50	MEAN	0.647	S. D.	0.043	LOW	0.560	HIGH	0.750					
WEIGHT	NUM	50	MEAN	3.342	S. D.	0.363	LOW	2.050	HIGH	3.953					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0050	0050	0050	0047	0048	0050	0046	0050	0050	0049	0050	0050	0050	0050	0046
N DET.	0000	0000	0000	0001	0000	0007	0003	0000	0000	0000	0045	0046	0000	0009	0000
MEAN	0.806	0.434	0.073	2.451	1.673	0.028	0.223	0.738	6.74	0.193	0.294	0.275	0.161	0.610	0.497
S. D.	0.338	0.219	0.027	1.546	0.891	0.014	0.160	0.386	2.12	0.099	0.355	0.133	0.053	0.222	0.156
LOW	0.310	0.130	0.010	0.460	0.175	0.010	0.020	0.060	2.37	0.060	0.060	0.190	0.040	0.190	0.095
HIGH	1.750	1.250	0.150	7.250	5.250	0.090	0.630	1.405	12.50	0.630	0.870	0.470	0.310	1.250	0.960

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TUNNY, LITTLE — EUTHYNNUS ALLETTERATUS — 091006 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	2	MEAN	0.621	S. D.	0.056	LOW	0.581	HIGH	0.660					
WEIGHT	NUM	2	MEAN	3.305	S. D.	0.087	LOW	3.243	HIGH	3.366					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.980	0.703	3.165	4.613	3.240	0.295	0.390	5.255	118.00	0.425	0.320	0.185	1.160	0.560	0.605
S. D.	0.566	0.067	1.789	0.548	0.622	0.290	0.368	0.643	60.81	0.092	0.141	0.092	0.226	0.000	0.290
LOW	0.580	0.655	1.900	4.225	2.800	0.090	0.130	4.800	75.00	0.360	0.220	0.120	1.000	0.000	0.400
HIGH	1.380	0.750	4.430	5.000	3.680	0.500	0.650	5.710	161.00	0.490	0.420	0.250	1.320	0.560	0.810

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- PACIFIC — SITE- — MUSCLE

LENGTH	NUM	20	MEAN	0.598	S. D.	0.036	LOW	0.517	HIGH	0.651					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0019	0019	0019	0020	0020	0020	0020	0020	0020	0020	0019
N DET.	0003	0000	0000	0000	0000	0001	0002	0000	0000	0000	0014	0016	0000	0001	0000
MEAN	0.088	0.708	0.143	2.161	1.242	0.068	0.206	0.996	13.17	0.286	0.173	0.395	0.166	1.034	0.624
S. D.	0.043	0.339	0.057	1.250	0.643	0.037	0.146	0.413	6.36	0.127	0.073	0.167	0.053	0.309	0.198
LOW	0.040	0.190	0.040	0.437	0.730	0.030	0.060	0.370	6.40	0.110	0.060	0.250	0.060	0.560	0.380
HIGH	0.170	1.620	0.250	5.000	3.650	0.180	0.560	1.880	27.50	0.690	0.250	0.630	0.280	1.500	1.370

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- PACIFIC — SITE- — LIVER

LENGTH	NUM	2	MEAN	0.621	S. D.	0.042	LOW	0.591	HIGH	0.651					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.090	0.785	8.375	1.175	9.250	0.060	0.440	5.815	47.19	0.260	0.390	0.380	1.030	1.190	0.345
S. D.	0.000	0.573	7.601	0.389	0.000	0.000	0.000	4.688	3.98	0.014	0.113	0.000	0.933	0.354	0.219
LOW	0.000	0.380	3.000	0.900	0.000	0.060	0.000	2.500	44.37	0.250	0.310	0.000	0.370	0.940	0.190
HIGH	0.090	1.190	13.750	1.450	9.250	0.060	0.440	9.130	50.00	0.270	0.470	0.380	1.690	1.440	0.500

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	10	MEAN	0.617	S. D.	0.021	LOW	0.595	HIGH	0.658					
WEIGHT	NUM	17	MEAN	4.565	S. D.	1.415	LOW	2.494	HIGH	6.713					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0018	0018	0018	0017	0018	0018	0018	0018	0017	0018	0018	0018	0018	0018
N DET.	0000	0002	0005	0000	0000	0005	0004	0000	0000	0003	0016	0015	0001	0004	0000
MEAN	0.200	0.523	0.073	3.498	1.310	0.043	0.177	0.875	4.77	0.205	0.420	0.443	0.117	0.628	0.459
S. D.	0.081	0.438	0.038	1.362	0.494	0.043	0.103	0.402	1.26	0.179	0.156	0.185	0.055	0.346	0.150
LOW	0.050	0.060	0.010	0.900	0.600	0.010	0.055	0.215	2.88	0.065	0.310	0.260	0.045	0.120	0.160
HIGH	0.385	1.700	0.175	6.060	2.060	0.160	0.370	1.753	7.14	0.790	0.530	0.630	0.290	1.440	0.750

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- HAWAII — SITE- D5 — LIVER

LENGTH	NUM	1	MEAN	0.623	S. D.	0.000	LOW	0.623	HIGH	0.623					
WEIGHT	NUM	3	MEAN	4.086	S. D.	1.347	LOW	3.119	HIGH	5.625					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0000	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.157	0.633	9.867	11.675	0.000	0.053	0.260	8.620	43.75	0.227	0.420	0.480	0.937	0.710	0.663
S. D.	0.015	0.230	6.217	13.188	0.000	0.051	0.157	5.997	26.55	0.091	0.113	0.000	0.100	0.035	0.232
LOW	0.140	0.380	2.850	2.350	0.000	0.010	0.150	1.810	25.06	0.160	0.340	0.000	0.840	0.690	0.450
HIGH	0.170	0.830	14.690	21.000	0.000	0.110	0.440	13.110	74.14	0.330	0.500	0.480	1.040	0.750	0.910

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- HAWAII — SITE- D6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	6	MEAN	3.048	S. D.	0.379	LOW	2.296	HIGH	3.374					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.229	0.602	0.091	4.215	1.110	0.019	0.178	0.495	3.90	0.143	0.380	0.500	0.084	0.544	0.401
S. D.	0.065	0.245	0.073	1.580	0.218	0.007	0.097	0.241	1.20	0.047	0.000	0.438	0.024	0.160	0.084
LOW	0.110	0.250	0.040	2.775	0.870	0.010	0.060	0.270	2.13	0.090	0.000	0.190	0.050	0.410	0.260
HIGH	0.300	0.895	0.255	6.525	1.500	0.030	0.310	0.965	5.65	0.200	0.380	0.810	0.120	0.810	535

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- HAWAII — SITE- D6 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	3.275	S. D.	0.141	LOW	3.175	HIGH	3.374					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0000	0000	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.120	0.720	2.475	0.000	0.000	0.140	0.170	5.570	48.89	0.175	0.130	0.000	0.690	0.700	0.480
S. D.	0.028	0.042	0.474	0.000	0.000	0.000	0.057	3.903	36.43	0.120	0.000	0.000	0.495	0.156	0.594
LOW	0.100	0.690	2.140	0.000	0.000	0.000	0.130	2.810	23.13	0.090	0.000	0.000	0.340	0.590	0.060
HIGH	0.140	0.750	2.810	0.000	0.000	0.140	0.210	8.330	74.65	0.260	0.130	0.000	1.040	0.810	0.900

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- HAWAII — SITE- D9 — MUSCLE

LENGTH	NUM	0	MEAN		0.000	S. D.		0.000	LOW		0.000	HIGH		0.000	
WEIGHT	NUM	15	MEAN		2.253	S. D.		0.323	LOW		1.843	HIGH		2.750	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0015	0015	0015	0015	0014	0015	0015	0015	0015	0015	0015	0015
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0012	0011	0000	0001	0000
MEAN	0.113	0.492	0.069	5.029	1.227	0.028	0.184	0.526	5.83	0.181	0.170	0.335	0.109	0.671	0.527
S. D.	0.087	0.229	0.019	1.780	0.326	0.026	0.099	0.316	1.83	0.072	0.035	0.071	0.043	0.210	0.172
LOW	0.020	0.250	0.040	2.825	0.750	0.010	0.060	0.130	2.31	0.100	0.130	0.280	0.045	0.190	0.250
HIGH	0.295	1.000	0.110	10.082	1.710	0.090	0.380	1.355	8.37	0.370	0.190	0.440	0.190	0.940	0.815

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- CALIFORNIA — SITE- R2 — MUSCLE

LENGTH	NUM	10	MEAN		0.583	S. D.		0.022	LOW		0.555	HIGH		0.634	
WEIGHT	NUM	0	MEAN		0.000	S. D.		0.000	LOW		0.000	HIGH		0.000	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0002	0000	0000	0005	0000	0000	0000	0001	0008	0008	0000	0004	0000
MEAN	0.120	0.461	0.088	5.169	1.483	0.038	0.232	1.172	10.97	0.337	0.465	0.255	0.204	0.891	0.429
S. D.	0.020	0.152	0.045	4.225	0.535	0.022	0.164	0.432	3.78	0.239	0.573	0.134	0.091	0.496	0.130
LOW	0.090	0.200	0.030	0.200	0.970	0.010	0.070	0.400	4.31	0.140	0.060	0.160	0.070	0.560	0.120
HIGH	0.150	0.720	0.145	11.200	2.685	0.070	0.600	1.830	14.64	0.930	0.870	0.350	0.360	1.790	0.550

TUNA, SKIPJACK — EUTHYNNUS PELAMIS — 091008 — AREA- CALIFORNIA — SITE- R2 — LIVER

LENGTH	NUM	1	MEAN		0.582	S. D.		0.000	LOW		0.582	HIGH		0.582	
WEIGHT	NUM	0	MEAN		0.000	S. D.		0.000	LOW		0.000	HIGH		0.000	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.440	2.010	0.600	0.000	0.000	0.220	0.810	13.75	0.130	0.200	0.000	0.670	0.060	0.060
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.440	2.010	0.600	0.000	0.000	0.220	0.810	13.75	0.130	0.200	0.000	0.670	0.060	0.060

BONITO, PAC. — SARDA CHILIENSIS — 091009 — AREA- CALIFORNIA — SITE- I8 — MUSCLE

LENGTH	NUM	20	MEAN		0.388	S. D.		0.053	LOW		0.340	HIGH		0.544	
WEIGHT	NUM	10	MEAN		0.454	S. D.		0.000	LOW		0.454	HIGH		0.454	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0004	0000	0002	0002	0000	0004	0000	0001	0000	0000	0013	0011	0000	0003	0000
MEAN	0.118	0.451	0.071	2.124	0.477	0.044	0.259	0.829	6.72	0.225	0.241	0.421	0.183	0.893	0.716
S. D.	0.071	0.178	0.031	1.151	0.171	0.028	0.217	0.402	1.63	0.127	0.290	0.436	0.149	0.292	0.292
LOW	0.035	0.196	0.010	0.650	0.150	0.020	0.060	0.120	2.06	0.110	0.060	0.060	0.060	0.530	0.410
HIGH	0.300	0.930	0.125	4.875	0.825	0.116	0.810	1.700	8.31	0.640	0.870	1.440	0.745	1.710	1.700

BONITO, PAC. — SARDA CHILIENSIS — 091009 — AREA- CALIFORNIA — SITE- I8 — LIVER

LENGTH	NUM	1	MEAN		0.346	S. D.		0.000	LOW		0.346	HIGH		0.346	
WEIGHT	NUM	1	MEAN		0.454	S. D.		0.000	LOW		0.454	HIGH		0.454	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.050	0.500	1.360	1.050	0.000	0.060	0.130	4.690	21.25	0.260	0.310	0.000	0.710	1.000	1.130
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.500	1.360	1.050	0.000	0.060	0.130	4.690	21.25	0.260	0.310	0.000	0.710	1.000	1.130

BONITO, PAC. — SARDA CHILIENSIS — 091009 — AREA- CALIFORNIA — SITE- K3 — MUSCLE

LENGTH	NUM	10	MEAN		0.448	S. D.		0.011	LOW		0.436	HIGH		0.470	
WEIGHT	NUM	20	MEAN		0.944	S. D.		0.275	LOW		0.681	HIGH		1.360	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0002	0000	0000	0003	0001	0000	0000	0000	0018	0019	0000	0002	0000
MEAN	0.120	0.587	0.125	2.695	0.563	0.034	0.247	0.887	6.35	0.228	0.995	0.260	0.154	0.806	0.542
S. D.	0.040	0.368	0.082	1.628	0.201	0.023	0.173	0.364	1.49	0.112	0.177	0.000	0.057	0.323	0.127
LOW	0.035	0.190	0.050	0.400	0.050	0.010	0.045	0.130	2.63	0.040	0.870	0.000	0.070	0.380	0.310
HIGH	0.225	1.560	0.410	7.700	0.910	0.110	0.750	1.410	9.06	0.460	1.120	0.260	0.310	1.500	0.740

BONITO, ATL. — SARDA SARDA — 091011 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	2	MEAN		0.533	S. D.		0.000	LOW		0.533	HIGH		0.533	
WEIGHT	NUM	2	MEAN		5.221	S. D.		0.000	LOW		5.221	HIGH		5.221	
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.530	0.546	0.223	2.560	1.316	0.040	0.644	1.956	10.01	0.631	0.000	0.000	0.359	0.435	0.375
S. D.	0.042	0.192	0.095	0.000	0.000	0.000	0.097	0.105	2.02	0.086	0.000	0.000	0.016	0.346	0.177
LOW	0.500	0.410	0.156	0.000	0.000	0.000	0.575	1.882	8.58	0.570	0.000	0.000	0.347	0.190	0.250
HIGH	0.560	0.682	0.290	2.560	1.316	0.040	0.712	2.030	11.43	0.692	0.000	0.000	0.370	0.680	0.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

BONITO, ATL. SARDA SARDA 091011 AREA- GULF SITE- L5 MUSCLE

LENGTH	NUM 0	MEAN 0.000	S. D. 0.000	LOW 0.000	HIGH 0.000		
WEIGHT	NUM 10	MEAN 5.380	S. D. 0.939	LOW 4.086	HIGH 7.491		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0013	0013	0000	0013	0000
MEAN	1.836	0.314	0.070	2.424	1.400	0.025	0.239	1.033	6.05	0.247	0.000	0.000	0.149	0.000	0.582
S. D.	0.734	0.113	0.017	2.026	0.448	0.012	0.167	0.587	1.88	0.075	0.000	0.000	0.052	0.000	0.151
LOW	0.910	0.130	0.040	0.575	0.390	0.010	0.060	0.040	2.25	0.110	0.000	0.000	0.060	0.000	0.380
HIGH	3.000	0.500	0.100	8.600	2.100	0.040	0.560	2.190	9.06	0.440	0.000	0.000	0.260	0.000	0.840

MACKEREL, CHUB SCOMBER JAPONICUS 091012 AREA- CALIFORNIA SITE- I8 MUSCLE

LENGTH	NUM 20	MEAN 0.250	S. D. 0.000	LOW 0.250	HIGH 0.250		
WEIGHT	NUM 20	MEAN 0.454	S. D. 0.000	LOW 0.454	HIGH 0.454		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0019	0020	0020
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0012	0001	0001	0000
MEAN	0.093	0.704	0.127	2.311	0.612	0.034	0.185	0.658	8.79	0.204	0.166	0.409	0.143	0.691	0.510
S. D.	0.039	0.382	0.161	1.088	0.304	0.020	0.138	0.465	3.10	0.099	0.091	0.257	0.036	0.192	0.180
LOW	0.030	0.250	0.040	0.290	0.170	0.010	0.060	0.060	4.94	0.070	0.060	0.060	0.060	0.440	0.280
HIGH	0.190	1.655	0.720	4.400	1.380	0.095	0.560	2.200	17.90	0.480	0.310	0.810	0.190	1.065	0.960

MACKEREL, CHUB SCOMBER JAPONICUS 091012 AREA- CALIFORNIA SITE- K3 MUSCLE

LENGTH	NUM 10	MEAN 0.300	S. D. 0.000	LOW 0.300	HIGH 0.300		
WEIGHT	NUM 10	MEAN 0.340	S. D. 0.000	LOW 0.340	HIGH 0.340		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0008
N DET.	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0008	0000	0000	0000
MEAN	0.077	0.557	0.072	1.993	0.591	0.035	0.152	0.904	6.69	0.159	0.160	0.500	0.132	0.727	0.531
S. D.	0.020	0.117	0.029	0.653	0.227	0.014	0.104	0.344	1.10	0.025	0.084	0.622	0.027	0.282	0.097
LOW	0.040	0.435	0.045	1.000	0.300	0.015	0.040	0.250	4.25	0.130	0.060	0.060	0.100	0.190	0.380
HIGH	0.095	0.780	0.130	3.000	1.010	0.060	0.345	1.240	8.09	0.210	0.250	0.940	0.190	1.190	0.630

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- K5 MUSCLE

LENGTH	NUM 8	MEAN 0.284	S. D. 0.012	LOW 0.270	HIGH 0.300		
WEIGHT	NUM 6	MEAN 0.232	S. D. 0.024	LOW 0.207	HIGH 0.267		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0005	0000	0000	0000	0000	0002	0001	0000	0000	0000	0007	0007	0000	0000	0000
MEAN	0.050	0.423	0.065	3.726	0.684	0.030	0.083	0.503	6.35	0.218	0.120	0.630	0.141	0.626	0.385
S. D.	0.052	0.130	0.019	1.967	0.290	0.006	0.034	0.274	1.06	0.035	0.000	0.000	0.023	0.259	0.099
LOW	0.020	0.250	0.040	1.750	0.180	0.020	0.050	0.120	5.20	0.180	0.000	0.000	0.090	0.370	0.220
HIGH	0.110	0.630	0.100	8.000	1.150	0.040	0.130	1.000	7.81	0.280	0.120	0.630	0.165	1.000	0.540

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM 1	MEAN 0.192	S. D. 0.000	LOW 0.192	HIGH 0.192		
WEIGHT	NUM 1	MEAN 0.059	S. D. 0.000	LOW 0.059	HIGH 0.059		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.050	0.500	0.090	4.415	0.900	0.030	0.130	1.060	7.38	0.320	0.000	0.000	0.160	0.880	0.440
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.500	0.090	4.415	0.900	0.030	0.130	1.060	7.38	0.320	0.000	0.000	0.160	0.880	0.440

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- N6 MUSCLE

LENGTH	NUM 5	MEAN 0.278	S. D. 0.035	LOW 0.254	HIGH 0.335		
WEIGHT	NUM 5	MEAN 0.210	S. D. 0.092	LOW 0.146	HIGH 0.364		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0005	0000
MEAN	0.020	0.544	0.110	1.107	0.384	0.063	0.242	0.600	5.99	0.348	0.000	0.160	0.129	0.000	0.538
S. D.	0.000	0.274	0.025	0.889	0.252	0.021	0.121	0.276	0.95	0.083	0.000	0.000	0.017	0.000	0.072
LOW	0.020	0.310	0.080	0.360	0.120	0.030	0.060	0.280	4.88	0.230	0.000	0.000	0.100	0.000	0.440
HIGH	0.020	0.940	0.140	2.580	0.690	0.080	0.370	0.860	7.40	0.420	0.000	0.160	0.140	0.000	0.630

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- O2 MUSCLE

LENGTH	NUM 11	MEAN 0.365	S. D. 0.015	LOW 0.348	HIGH 0.396		
WEIGHT	NUM 11	MEAN 0.440	S. D. 0.072	LOW 0.332	HIGH 0.587		

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0008	0000	0000	0000
MEAN	0.069	0.425	0.068	2.218	0.612	0.035	0.190	0.733	7.90	0.223	0.162	0.167	0.163	0.638	0.532
S. D.	0.047	0.171	0.033	0.788	0.213	0.016	0.134	0.407	1.26	0.051	0.147	0.097	0.040	0.172	0.169
LOW	0.020	0.190	0.025	1.125	0.290	0.015	0.060	0.225	5.28	0.150	0.060	0.060	0.105	0.310	0.205
HIGH	0.160	0.750	0.140	3.375	0.980	0.060	0.440	1.540	9.42	0.315	0.380	0.250	0.230	0.840	0.730

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- P1 MUSCLE

LENGTH	NUM	5	MEAN	0.336	S. D.	0.010	LOW	0.324	HIGH	0.349					
WEIGHT	NUM	5	MEAN	0.407	S. D.	0.043	LOW	0.339	HIGH	0.446					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.033	0.594	0.060	2.555	0.660	0.027	0.306	0.878	6.38	0.192	0.060	0.080	0.129	0.688	0.662
S. D.	0.012	0.425	0.017	0.782	0.085	0.010	0.158	0.390	0.86	0.080	0.000	0.057	0.045	0.053	0.088
LOW	0.020	0.190	0.040	1.325	0.570	0.020	0.110	0.190	5.28	0.095	0.000	0.040	0.070	0.620	0.530
HIGH	0.040	1.370	0.080	3.600	0.820	0.040	0.490	1.250	7.63	0.340	0.060	0.120	0.200	0.755	0.750

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- P2 MUSCLE

LENGTH	NUM	12	MEAN	0.349	S. D.	0.019	LOW	0.326	HIGH	0.392					
WEIGHT	NUM	10	MEAN	0.443	S. D.	0.154	LOW	0.324	HIGH	0.848					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0011	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0000	0008	0006	0000	0000	0000
MEAN	0.066	0.378	0.071	1.784	0.729	0.033	0.139	0.918	6.59	0.231	0.190	0.593	0.142	0.805	0.605
S. D.	0.036	0.110	0.037	0.817	0.251	0.014	0.070	0.239	1.64	0.034	0.085	0.622	0.038	0.247	0.145
LOW	0.030	0.190	0.035	0.575	0.180	0.020	0.060	0.420	3.93	0.190	0.130	0.060	0.090	0.470	0.380
HIGH	0.150	0.560	0.170	2.966	1.170	0.060	0.310	1.230	8.94	0.310	0.310	1.560	0.220	1.130	0.840

MACKEREL, ATL. SCOMBER SCOMBRUS 091013 AREA- NORTH ATLANTIC SITE- S1 MUSCLE

LENGTH	NUM	3	MEAN	0.214	S. D.	0.039	LOW	0.176	HIGH	0.253					
WEIGHT	NUM	20	MEAN	0.405	S. D.	0.138	LOW	0.042	HIGH	0.462					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0036	0033	0036	0035	0036	0036	0036	0036	0035	0036	0036	0036	0036	0036	0035
N DET.	0017	0000	0000	0000	0000	0000	0002	0000	0000	0000	0032	0034	0000	0023	0000
MEAN	0.046	0.407	0.082	2.351	0.598	0.032	0.240	0.682	5.53	0.188	0.120	0.220	0.141	0.775	0.574
S. D.	0.027	0.246	0.035	1.458	0.273	0.009	0.179	0.445	1.38	0.066	0.042	0.127	0.064	0.209	0.188
LOW	0.020	0.190	0.040	0.900	0.130	0.010	0.060	0.070	1.94	0.050	0.060	0.130	0.040	0.470	0.310
HIGH	0.120	1.310	0.220	6.650	1.520	0.055	0.830	1.690	8.56	0.395	0.160	0.310	0.450	1.130	1.000

MACKEREL, KING SCOMBEROMORUS CAVALLA 091014 AREA- SOUTH ATLANTIC SITE- C2 MUSCLE

LENGTH	NUM	20	MEAN	0.867	S. D.	0.144	LOW	0.601	HIGH	1.170					
WEIGHT	NUM	20	MEAN	4.368	S. D.	3.018	LOW	1.134	HIGH	13.393					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0019
N DET.	0000	0001	0004	0000	0000	0004	0001	0000	0000	0001	0016	0015	0001	0004	0000
MEAN	0.336	0.603	0.085	4.668	0.630	0.038	0.228	0.216	6.81	0.252	0.233	0.282	0.109	0.639	0.551
S. D.	0.238	0.334	0.041	4.012	0.300	0.012	0.082	0.119	2.20	0.122	0.159	0.156	0.041	0.282	0.160
LOW	0.075	0.130	0.030	0.620	0.090	0.025	0.130	0.040	4.59	0.030	0.060	0.110	0.040	0.190	0.250
HIGH	1.090	1.440	0.170	17.550	1.380	0.070	0.440	0.500	11.20	0.520	0.440	0.500	0.210	1.120	0.845

MACKEREL, KING SCOMBEROMORUS CAVALLA 091014 AREA- SOUTH ATLANTIC SITE- C2 LIVER

LENGTH	NUM	1	MEAN	0.963	S. D.	0.000	LOW	0.963	HIGH	0.963					
WEIGHT	NUM	1	MEAN	6.262	S. D.	0.000	LOW	6.262	HIGH	6.262					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	1.580	0.440	0.690	0.580	1.950	0.040	0.310	13.750	47.00	0.310	0.390	0.000	0.280	0.000	0.280
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.580	0.440	0.690	0.580	1.950	0.040	0.310	13.750	47.00	0.310	0.390	0.000	0.280	0.000	0.280

MACKEREL, KING SCOMBEROMORUS CAVALLA 091014 AREA- GULF SITE- B8 MUSCLE

LENGTH	NUM	13	MEAN	0.855	S. D.	0.228	LOW	0.260	HIGH	1.240					
WEIGHT	NUM	13	MEAN	6.022	S. D.	2.780	LOW	3.178	HIGH	12.485					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0012	0011	0000	0000	0000
MEAN	0.988	0.572	0.064	2.026	0.965	0.031	0.152	0.263	6.90	0.224	0.130	0.235	0.101	0.653	0.449
S. D.	0.431	0.182	0.016	0.723	0.255	0.008	0.093	0.139	1.88	0.046	0.000	0.064	0.016	0.123	0.128
LOW	0.350	0.375	0.040	1.025	0.635	0.020	0.060	0.120	4.38	0.160	0.000	0.190	0.070	0.440	0.220
HIGH	2.000	0.905	0.105	3.200	1.510	0.050	0.380	0.470	11.25	0.320	0.130	0.280	0.125	0.875	0.590

MACKEREL, KING SCOMBEROMORUS CAVALLA 091014 AREA- GULF SITE- B8 LIVER

LENGTH	NUM	3	MEAN	0.900	S. D.	0.067	LOW	0.849	HIGH	0.975					
WEIGHT	NUM	3	MEAN	6.158	S. D.	1.712	LOW	4.733	HIGH	8.058					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0002	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	3.030	0.690	1.460	1.805	5.913	0.040	0.103	7.837	40.57	0.260	0.273	0.280	1.280	0.667	0.773
S. D.	1.135	0.271	0.874	1.471	0.548	0.000	0.075	0.957	4.50	0.070	0.199	0.000	0.151	0.072	0.295
LOW	1.840	0.380	0.760	0.150	5.525	0.040	0.060	7.000	37.38	0.190	0.130	0.000	1.110	0.620	0.440
HIGH	4.100	0.880	2.440	2.965	6.300	0.040	0.190	8.880	43.75	0.330	0.500	0.280	1.400	0.750	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- B8 — MILT

LENGTH	NUM	1	MEAN	0.798	S. D.	0.000	LOW	0.798	HIGH	0.798					
WEIGHT	NUM	1	MEAN	4.086	S. D.	0.000	LOW	4.086	HIGH	4.086					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.220	0.300	0.080	2.900	0.810	0.010	0.190	5.560	17.50	0.410	0.000	0.000	0.190	0.000	0.940
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.220	0.300	0.080	2.900	0.810	0.010	0.190	5.560	17.50	0.410	0.000	0.000	0.190	0.000	0.940

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- B8 — ROE

LENGTH	NUM	9	MEAN	0.855	S. D.	0.271	LOW	0.260	HIGH	1.240					
WEIGHT	NUM	9	MEAN	6.350	S. D.	3.066	LOW	3.178	HIGH	12.485					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0008	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0007	0000	0008	0000
MEAN	0.199	0.288	0.063	2.561	3.136	0.025	0.154	1.381	65.94	0.267	0.000	0.095	0.524	0.060	0.576
S. D.	0.198	0.173	0.010	1.212	1.870	0.008	0.073	0.916	13.68	0.076	0.000	0.049	0.324	0.000	0.168
LOW	0.020	0.060	0.050	1.350	1.665	0.010	0.060	0.030	41.91	0.140	0.000	0.060	0.250	0.000	0.380
HIGH	0.630	0.630	0.085	4.750	7.500	0.035	0.250	2.560	81.25	0.390	0.000	0.130	1.250	0.060	0.840

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	40	MEAN	0.717	S. D.	0.073	LOW	0.530	HIGH	0.949					
WEIGHT	NUM	43	MEAN	2.173	S. D.	0.817	LOW	1.180	HIGH	5.485					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0043	0043	0043	0042	0042	0043	0042	0043	0043	0043	0043	0043	0043	0043	0041
N DET.	0000	0000	0002	0001	0000	0008	0002	0000	0000	0000	0037	0037	0000	0002	0000
MEAN	0.290	0.444	0.069	3.201	0.817	0.032	0.197	0.269	4.98	0.219	0.183	0.278	0.096	0.775	0.558
S. D.	0.153	0.200	0.023	1.502	0.266	0.007	0.174	0.108	1.29	0.080	0.136	0.118	0.034	0.296	0.162
LOW	0.040	0.170	0.020	0.900	0.250	0.020	0.060	0.070	0.94	0.070	0.060	0.190	0.020	0.190	0.190
HIGH	0.720	1.310	0.130	7.160	1.450	0.055	0.750	0.530	8.00	0.540	0.440	0.500	0.210	1.575	1.120

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	4	MEAN	0.709	S. D.	0.020	LOW	0.684	HIGH	0.732					
WEIGHT	NUM	4	MEAN	2.266	S. D.	0.564	LOW	1.721	HIGH	2.797					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0002	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.408	0.488	0.598	4.426	8.913	0.023	0.145	6.075	41.40	0.220	0.313	0.190	0.760	0.390	0.485
S. D.	0.344	0.296	0.432	1.457	2.740	0.006	0.132	3.520	26.06	0.145	0.162	0.000	0.356	0.155	0.314
LOW	0.210	0.130	0.090	2.550	6.975	0.020	0.020	1.440	7.50	0.030	0.220	0.190	0.260	0.190	0.060
HIGH	0.920	0.810	1.130	5.700	10.850	0.030	0.310	10.000	70.30	0.380	0.500	0.190	1.100	0.560	0.750

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- E7 — MUSCLE

LENGTH	NUM	2	MEAN	0.738	S. D.	0.046	LOW	0.705	HIGH	0.770					
WEIGHT	NUM	2	MEAN	3.516	S. D.	1.122	LOW	2.722	HIGH	4.309					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.405	0.170	0.060	1.863	1.158	0.010	0.245	0.360	5.80	0.303	0.000	0.100	0.050	1.615	0.538
S. D.	0.064	0.071	0.000	0.866	0.060	0.000	0.205	0.099	3.16	0.081	0.000	0.000	0.028	0.304	0.088
LOW	0.360	0.120	0.000	1.250	1.115	0.000	0.100	0.290	3.56	0.245	0.000	0.000	0.030	1.400	0.475
HIGH	0.450	0.220	0.060	2.475	1.200	0.010	0.390	0.430	8.03	0.360	0.000	0.100	0.070	1.830	0.600

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- H2 — MUSCLE

LENGTH	NUM	7	MEAN	0.845	S. D.	0.194	LOW	0.590	HIGH	1.165					
WEIGHT	NUM	7	MEAN	5.155	S. D.	3.764	LOW	1.703	HIGH	11.804					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0006	0007	0007	0006	0007	0007	0007	0007	0007
N DET.	0000	0000	0002	0000	0000	0002	0000	0000	0000	0001	0006	0005	0000	0002	0000
MEAN	0.626	0.527	0.064	1.780	0.712	0.034	0.225	0.283	5.28	0.233	0.190	0.345	0.114	0.682	0.449
S. D.	0.442	0.261	0.027	1.222	0.207	0.009	0.167	0.164	2.34	0.094	0.000	0.148	0.043	0.170	0.188
LOW	0.245	0.250	0.040	0.683	0.480	0.020	0.090	0.070	0.49	0.150	0.000	0.240	0.070	0.500	0.190
HIGH	1.310	0.940	0.110	4.240	1.110	0.040	0.450	0.500	7.29	0.390	0.190	0.450	0.190	0.940	0.775

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- H2 — LIVER

LENGTH	NUM	1	MEAN	0.933	S. D.	0.000	LOW	0.933	HIGH	0.933					
WEIGHT	NUM	1	MEAN	7.105	S. D.	0.000	LOW	7.105	HIGH	7.105					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	3.700	0.715	1.310	1.160	2.920	0.080	0.105	10.000	121.09	0.295	0.120	0.310	1.160	0.610	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	3.700	0.715	1.310	1.160	2.920	0.080	0.105	10.000	121.09	0.295	0.120	0.310	1.160	0.610	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- H2 — ROE

LENGTH	NUM	2	MEAN	0.921	S. D.	0.171	LOW	0.800	HIGH	1.042					
WEIGHT	NUM	2	MEAN	6.583	S. D.	3.531	LOW	4.086	HIGH	9.080					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.105	0.220	0.060	0.850	1.900	0.015	0.190	1.210	57.51	0.270	0.000	0.000	0.515	0.000	0.515
S. D.	0.021	0.042	0.014	0.212	0.354	0.007	0.000	0.297	9.72	0.057	0.000	0.000	0.191	0.000	0.064
LOW	0.090	0.190	0.050	0.700	1.650	0.010	0.000	1.000	50.63	0.230	0.000	0.000	0.380	0.000	0.470
HIGH	0.120	0.250	0.070	1.000	2.150	0.020	0.190	1.420	64.38	0.310	0.000	0.000	0.650	0.000	0.560

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	1	MEAN	1.270	S. D.	0.000	LOW	1.270	HIGH	1.270					
WEIGHT	NUM	1	MEAN	15.150	S. D.	0.000	LOW	15.150	HIGH	15.150					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.580	0.303	0.040	3.216	0.725	0.030	0.083	0.140	5.40	0.170	0.000	0.000	0.180	0.440	0.365
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.580	0.303	0.040	3.216	0.725	0.030	0.083	0.140	5.40	0.170	0.000	0.000	0.180	0.440	0.365

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- L5 — LIVER

LENGTH	NUM	1	MEAN	1.270	S. D.	0.000	LOW	1.270	HIGH	1.270					
WEIGHT	NUM	1	MEAN	15.150	S. D.	0.000	LOW	15.150	HIGH	15.150					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	4.000	0.690	0.870	2.775	1.440	0.030	0.130	13.880	55.00	0.700	0.090	0.000	1.140	0.630	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	4.000	0.690	0.870	2.775	1.440	0.030	0.130	13.880	55.00	0.700	0.090	0.000	1.140	0.630	0.380

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0002	0000	0000	0004	0001	0000	0000	0001	0006	0006	0000	0001	0000
MEAN	0.187	0.469	0.051	3.265	0.782	0.031	0.161	0.265	5.28	0.206	0.288	0.254	0.100	1.137	0.549
S. D.	0.053	0.308	0.017	2.030	0.251	0.010	0.099	0.073	1.22	0.083	0.299	0.190	0.057	0.485	0.201
LOW	0.115	0.185	0.030	1.200	0.500	0.020	0.040	0.180	3.45	0.100	0.060	0.060	0.055	0.565	0.300
HIGH	0.270	1.056	0.080	6.600	1.260	0.045	0.313	0.405	7.14	0.360	0.720	0.500	0.210	1.980	0.940

MACKEREL, KING — SCOMBEROMORUS CAVALLA — 091014 — AREA- GULF — SITE- R6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0009	0009	0011	0011	0011	0011	0010	0011	0011	0011	0011	0010
N DET.	0000	0001	0005	0001	0000	0007	0001	0000	0000	0001	0007	0008	0001	0004	0000
MEAN	0.156	0.418	0.054	3.377	0.903	0.030	0.219	0.252	4.83	0.186	0.390	0.385	0.085	0.853	0.592
S. D.	0.030	0.253	0.021	1.438	0.286	0.014	0.164	0.094	1.24	0.086	0.382	0.236	0.045	0.485	0.268
LOW	0.110	0.060	0.030	0.787	0.570	0.010	0.050	0.110	2.25	0.090	0.060	0.220	0.020	0.130	0.250
HIGH	0.205	0.750	0.090	4.530	1.480	0.040	0.550	0.410	6.78	0.360	0.750	0.655	0.155	1.630	1.200

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	20	MEAN	0.449	S. D.	0.016	LOW	0.426	HIGH	0.464					
WEIGHT	NUM	20	MEAN	0.557	S. D.	0.040	LOW	0.515	HIGH	0.596					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0003	0000	0004	0000	0000	0004	0000	0000	0000	0001	0017	0014	0000	0003	0000
MEAN	0.181	0.457	0.144	3.803	0.631	0.048	0.204	0.386	4.77	0.253	0.220	0.530	0.111	0.816	0.542
S. D.	0.086	0.199	0.189	1.923	0.182	0.034	0.131	0.142	0.70	0.179	0.130	0.337	0.029	0.429	0.175
LOW	0.065	0.200	0.040	0.980	0.300	0.010	0.060	0.040	3.75	0.040	0.090	0.250	0.040	0.310	0.200
HIGH	0.390	0.880	0.690	9.065	1.160	0.145	0.500	0.610	6.19	0.820	0.350	1.130	0.155	1.830	0.810

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	1	MEAN	0.464	S. D.	0.000	LOW	0.464	HIGH	0.464					
WEIGHT	NUM	1	MEAN	0.596	S. D.	0.000	LOW	0.596	HIGH	0.596					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.440	0.240	6.190	0.590	0.000	0.060	2.030	16.87	0.250	0.120	0.000	0.830	0.310	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.440	0.240	6.190	0.590	0.000	0.060	2.030	16.87	0.250	0.120	0.000	0.830	0.310	0.310

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- F6 — MUSCLE

LENGTH	NUM	2	MEAN	0.331	S. D.	0.023	LOW	0.314	HIGH	0.347					
WEIGHT	NUM	2	MEAN	0.347	S. D.	0.107	LOW	0.271	HIGH	0.423					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.070	0.333	0.080	2.850	0.410	0.000	0.058	0.293	5.76	0.385	0.000	0.000	0.258	1.130	0.515
S. D.	0.028	0.095	0.014	3.041	0.127	0.000	0.011	0.039	0.95	0.318	0.000	0.000	0.187	0.000	0.120
LOW	0.050	0.265	0.070	0.700	0.320	0.000	0.050	0.265	5.09	0.160	0.000	0.000	0.125	0.000	0.430
HIGH	0.090	0.400	0.090	5.000	0.500	0.000	0.065	0.320	6.43	0.610	0.000	0.000	0.390	1.130	0.600

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- F6 — LIVER

LENGTH	NUM	1	MEAN	0.326	S. D.	0.000	LOW	0.326	HIGH	0.326					
WEIGHT	NUM	1	MEAN	0.325	S. D.	0.000	LOW	0.325	HIGH	0.325					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.040	0.310	0.190	5.900	1.330	0.040	0.060	8.310	16.88	0.400	0.090	0.000	0.380	0.690	0.810
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.310	0.190	5.900	1.330	0.040	0.060	8.310	16.88	0.400	0.090	0.000	0.380	0.690	0.810

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- J1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0002	0003	0000	0000	0006	0001	0000	0000	0002	0007	0007	0001	0004	0000
MEAN	0.256	0.305	0.064	2.971	0.450	0.010	0.165	0.400	5.61	0.212	0.280	0.500	0.098	0.761	0.485
S. D.	0.065	0.157	0.029	1.746	0.219	0.000	0.059	0.132	1.09	0.142	0.000	0.000	0.034	0.475	0.133
LOW	0.130	0.155	0.040	0.200	0.170	0.010	0.100	0.300	4.50	0.040	0.000	0.000	0.055	0.270	0.300
HIGH	0.320	0.550	0.110	6.000	0.800	0.010	0.240	0.680	7.93	0.370	0.280	0.500	0.140	1.250	0.650

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0010	0011	0010	0010	0011	0010	0011	0011	0011	0011	0011	0011	0011	0010
N DET.	0000	0000	0003	0000	0000	0003	0000	0000	0000	0001	0005	0007	0000	0003	0000
MEAN	0.307	0.456	0.074	2.333	0.560	0.036	0.369	0.390	7.57	0.264	0.277	0.438	0.110	1.083	0.677
S. D.	0.181	0.250	0.033	1.072	0.133	0.009	0.223	0.078	3.57	0.073	0.299	0.360	0.041	0.756	0.238
LOW	0.140	0.190	0.010	0.610	0.435	0.020	0.100	0.265	3.93	0.175	0.120	0.060	0.040	0.250	0.300
HIGH	0.730	0.975	0.120	4.400	0.895	0.050	0.835	0.495	17.04	0.390	0.880	0.840	0.180	2.450	1.115

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- SOUTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	2	MEAN	0.365	S. D.	0.010	LOW	0.358	HIGH	0.372					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.128	0.608	0.040	5.818	0.680	0.000	0.193	0.518	8.51	0.215	0.110	0.000	0.108	1.313	0.608
S. D.	0.074	0.011	0.000	0.894	0.184	0.000	0.132	0.025	3.00	0.049	0.000	0.000	0.046	0.449	0.011
LOW	0.075	0.600	0.000	5.185	0.550	0.000	0.100	0.500	6.39	0.180	0.000	0.000	0.075	0.995	0.600
HIGH	0.180	0.615	0.040	6.450	0.810	0.000	0.286	0.535	10.63	0.250	0.110	0.000	0.140	1.630	0.615

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	3	MEAN	0.646	S. D.	0.054	LOW	0.584	HIGH	0.680					
WEIGHT	NUM	3	MEAN	2.258	S. D.	0.406	LOW	1.956	HIGH	2.720					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.381	0.598	0.030	1.658	0.969	0.030	0.145	0.240	5.47	0.170	0.040	0.630	0.082	1.142	0.463
S. D.	0.172	0.185	0.017	0.649	0.111	0.010	0.053	0.164	0.53	0.013	0.000	0.000	0.024	0.503	0.058
LOW	0.223	0.470	0.010	0.915	0.880	0.020	0.090	0.050	4.92	0.155	0.000	0.000	0.055	0.625	0.410
HIGH	0.565	0.810	0.040	2.110	1.093	0.040	0.196	0.343	5.97	0.180	0.040	0.630	0.100	1.630	0.525

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.561	S. D.	0.083	LOW	0.428	HIGH	0.710					
WEIGHT	NUM	20	MEAN	1.114	S. D.	0.500	LOW	0.452	HIGH	2.040					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0001	0001	0000	0000	0006	0002	0001	0000	0003	0015	0016	0001	0004	0000
MEAN	0.429	0.475	0.064	3.263	0.804	0.034	0.185	0.298	4.41	0.275	0.474	1.093	0.125	0.873	0.599
S. D.	0.266	0.224	0.031	2.018	0.194	0.008	0.076	0.125	0.95	0.132	0.486	0.873	0.041	0.347	0.179
LOW	0.105	0.060	0.020	0.955	0.525	0.025	0.046	0.050	2.37	0.150	0.060	0.190	0.075	0.370	0.350
HIGH	1.260	0.795	0.140	8.560	1.135	0.050	0.365	0.525	6.75	0.710	1.120	1.870	0.210	1.500	1.185

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	1	MEAN	0.586	S. D.	0.000	LOW	0.586	HIGH	0.586					
WEIGHT	NUM	1	MEAN	1.196	S. D.	0.000	LOW	1.196	HIGH	1.196					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.620	0.620	0.540	2.425	2.000	0.040	0.190	3.190	35.94	0.300	0.190	0.000	1.210	0.720	0.620
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.620	0.620	0.540	2.425	2.000	0.040	0.190	3.190	35.94	0.300	0.190	0.000	1.210	0.720	0.620

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	28	MEAN	0.357	S. D.	0.055	LOW	0.264	HIGH	0.537					
WEIGHT	NUM	28	MEAN	0.462	S. D.	0.131	LOW	0.182	HIGH	0.780					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0028	0028	0027	0025	0026	0028	0028	0028	0028	0028	0028	0028	0028	0028	0027
N DET.	0000	0002	0007	0000	0000	0008	0001	0001	0000	0003	0019	0023	0000	0003	0000
MEAN	0.274	0.499	0.052	5.778	0.792	0.047	0.205	0.547	4.22	0.245	0.262	0.352	0.095	0.981	0.530
S. D.	0.084	0.256	0.021	3.487	0.290	0.037	0.133	0.673	1.63	0.152	0.213	0.233	0.036	0.597	0.137
LOW	0.070	0.120	0.010	1.390	0.240	0.010	0.040	0.050	0.50	0.030	0.060	0.100	0.020	0.060	0.250
HIGH	0.420	1.000	0.090	14.000	1.520	0.190	0.600	3.210	7.94	0.750	0.620	0.630	0.170	2.550	0.775

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- GULF — SITE- L5 — LIVER

LENGTH	NUM	1	MEAN	0.393	S. D.	0.000	LOW	0.393	HIGH	0.393					
WEIGHT	NUM	1	MEAN	0.563	S. D.	0.000	LOW	0.563	HIGH	0.563					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.100	0.060	0.060	2.375	3.200	0.020	0.000	1.750	6.81	0.120	0.870	0.120	0.270	0.500	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.100	0.060	0.060	2.375	3.200	0.020	0.000	1.750	6.81	0.120	0.870	0.120	0.270	0.500	0.560

MACKEREL, SPANISH — SCOMBEROMORUS MACULATUS — 091016 — AREA- GULF — SITE- L9 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0015	0015	0015	0015	0015	0015	0014	0015	0015	0015	0015	0015	0015	0015
N DET.	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0008	0008	0000	0000	0000
MEAN	0.811	0.425	0.060	2.677	1.099	0.044	0.112	0.288	4.50	0.181	0.309	0.484	0.097	0.851	0.470
S. D.	0.333	0.234	0.038	1.402	0.713	0.020	0.068	0.110	1.14	0.066	0.289	0.692	0.027	0.356	0.237
LOW	0.380	0.120	0.020	0.400	0.510	0.010	0.050	0.030	3.06	0.090	0.060	0.090	0.060	0.440	0.120
HIGH	1.560	1.060	0.170	5.545	3.020	0.080	0.250	0.470	6.62	0.325	0.870	2.000	0.150	1.690	1.000

TUNA, ALBACORE — THUNNUS ALALUNGA — 091019 — AREA- CALIFORNIA — SITE- — MUSCLE

LENGTH	NUM	20	MEAN	0.634	S. D.	0.062	LOW	0.490	HIGH	0.690					
WEIGHT	NUM	10	MEAN	3.950	S. D.	1.173	LOW	2.270	HIGH	4.994					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0001	0000	0000	0004	0001	0000	0000	0000	0014	0016	0000	0003	0000
MEAN	0.156	0.472	0.073	4.022	1.375	0.041	0.326	0.373	3.96	0.178	0.160	0.343	0.116	0.757	0.485
S. D.	0.057	0.245	0.054	1.921	1.333	0.071	0.212	0.185	0.86	0.067	0.144	0.387	0.079	0.335	0.169
LOW	0.040	0.150	0.030	1.675	0.280	0.010	0.080	0.120	2.00	0.060	0.050	0.050	0.055	0.190	0.030
HIGH	0.250	0.880	0.280	10.240	6.730	0.300	0.730	0.855	5.67	0.360	0.440	0.910	0.430	1.283	0.780

TUNA, ALBACORE — THUNNUS ALALUNGA — 091019 — AREA- CALIFORNIA — SITE- — LIVER

LENGTH	NUM	2	MEAN	0.634	S. D.	0.035	LOW	0.609	HIGH	0.659					
WEIGHT	NUM	1	MEAN	3.950	S. D.	0.000	LOW	3.950	HIGH	3.950					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.130	0.880	5.590	4.850	21.550	0.155	0.630	8.475	43.53	0.205	0.455	0.000	0.930	1.190	0.690
S. D.	0.028	0.354	4.016	5.020	11.526	0.191	0.354	1.633	6.51	0.035	0.247	0.000	0.396	0.622	0.438
LOW	0.110	0.630	2.750	1.300	13.400	0.020	0.380	7.320	38.93	0.180	0.280	0.000	0.650	0.750	0.380
HIGH	0.150	1.130	8.430	8.400	29.700	0.290	0.880	9.630	48.13	0.230	0.630	0.000	1.210	1.630	1.000

TUNA, ALBACORE — THUNNUS ALALUNGA — 091019 — AREA- CALIFORNIA — SITE- 88 — MUSCLE

LENGTH	NUM	10	MEAN	0.609	S. D.	0.052	LOW	0.515	HIGH	0.670					
WEIGHT	NUM	10	MEAN	4.853	S. D.	1.158	LOW	2.724	HIGH	6.129					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0010	0008	0000	0000	0000
MEAN	0.147	0.329	0.101	2.091	0.896	0.018	0.248	0.224	3.50	0.131	0.000	0.220	0.118	0.631	0.402
S. D.	0.047	0.119	0.085	1.330	0.233	0.007	0.155	0.109	0.88	0.057	0.000	0.042	0.044	0.197	0.100
LOW	0.080	0.110	0.040	0.825	0.550	0.010	0.060	0.070	2.00	0.050	0.000	0.190	0.060	0.380	0.310
HIGH	0.250	0.500	0.330	4.166	1.375	0.030	0.500	0.400	4.38	0.240	0.000	0.250	0.210	0.940	0.560

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

TUNA, ALBACORE — THUNNUS ALALUNGA — 091019 — AREA- CALIFORNIA — SITE- B8 — LIVER

LENGTH	NUM	1	MEAN	0.609	S. D.	0.000	LOW	0.609	HIGH	0.609					
WEIGHT	NUM	1	MEAN	4.852	S. D.	0.000	LOW	4.852	HIGH	4.852					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.120	0.690	5.380	5.650	8.700	0.000	0.060	0.880	21.88	0.050	0.250	0.310	0.460	0.190	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	0.690	5.380	5.650	8.700	0.000	0.060	0.880	21.88	0.050	0.250	0.310	0.460	0.190	0.000

TUNA, ALBACORE — THUNNUS ALALUNGA — 091019 — AREA- PACIFIC NORTHWEST — SITE- F1 — MUSCLE

LENGTH	NUM	10	MEAN	0.626	S. D.	0.014	LOW	0.610	HIGH	0.650					
WEIGHT	NUM	10	MEAN	5.416	S. D.	0.384	LOW	4.762	HIGH	5.987					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010
N DET.	0000	0001	0003	0000	0000	0005	0000	0000	0000	0001	0005	0009	0000	0004	0000
MEAN	0.159	0.377	0.079	3.308	0.836	0.037	0.197	0.417	3.77	0.173	0.337	0.280	0.127	0.848	0.528
S. D.	0.036	0.158	0.051	1.040	0.268	0.020	0.171	0.178	1.20	0.102	0.273	0.000	0.120	0.457	0.197
LOW	0.110	0.175	0.010	1.255	0.285	0.020	0.037	0.160	2.64	0.040	0.025	0.000	0.040	0.336	0.330
HIGH	0.240	0.603	0.140	4.750	1.200	0.070	0.605	0.640	6.52	0.390	0.720	0.280	0.430	1.700	0.940

TUNA, ALBACORE — THUNNUS ALALUNGA — 091019 — AREA- PACIFIC NORTHWEST — SITE- F1 — LIVER

LENGTH	NUM	2	MEAN	0.626	S. D.	0.000	LOW	0.626	HIGH	0.626					
WEIGHT	NUM	2	MEAN	5.416	S. D.	0.128	LOW	5.325	HIGH	5.506					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.140	1.380	2.355	2.136	12.238	0.095	0.070	7.560	36.88	0.165	0.640	0.310	0.745	0.810	0.845
S. D.	0.014	0.000	0.375	0.000	4.331	0.021	0.085	2.828	18.56	0.049	0.679	0.269	0.445	0.354	0.219
LOW	0.130	0.000	2.090	0.000	9.175	0.080	0.010	5.560	23.75	0.130	0.160	0.120	0.430	0.560	0.690
HIGH	0.150	1.380	2.620	2.136	15.300	0.110	0.130	9.560	50.00	0.200	1.120	0.500	1.060	1.060	1.000

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D4 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	30.844	S. D.	0.000	LOW	30.844	HIGH	30.844					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.210	0.440	0.060	2.075	0.870	0.020	0.250	0.250	3.31	0.200	0.000	0.000	0.200	0.870	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.210	0.440	0.060	2.075	0.870	0.020	0.250	0.250	3.31	0.200	0.000	0.000	0.200	0.870	0.500

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	6	MEAN	1.527	S. D.	0.135	LOW	1.375	HIGH	1.755					
WEIGHT	NUM	8	MEAN	71.782	S. D.	21.585	LOW	46.720	HIGH	107.957					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0001	0002	0000	0000	0005	0000	0000	0000	0002	0006	0006	0001	0002	0000
MEAN	0.296	0.428	0.051	3.321	1.232	0.028	0.236	0.262	3.67	0.243	0.590	0.740	0.061	0.787	0.534
S. D.	0.108	0.136	0.014	2.658	0.647	0.003	0.159	0.082	1.34	0.144	0.750	0.622	0.017	0.296	0.168
LOW	0.145	0.225	0.035	1.455	0.585	0.025	0.100	0.190	2.45	0.060	0.060	0.300	0.040	0.400	0.310
HIGH	0.475	0.600	0.070	8.240	2.570	0.030	0.590	0.370	6.78	0.500	1.120	1.180	0.080	1.215	0.845

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D5 — LIVER

LENGTH	NUM	3	MEAN	1.603	S. D.	0.134	LOW	1.500	HIGH	1.755					
WEIGHT	NUM	3	MEAN	82.858	S. D.	22.117	LOW	66.226	HIGH	107.957					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0002	0000	0003	0000
MEAN	0.343	0.267	10.363	6.795	20.330	0.140	0.143	25.307	168.19	0.275	0.297	0.130	1.357	0.000	0.540
S. D.	0.215	0.067	7.696	2.847	17.621	0.182	0.101	24.947	115.67	0.021	0.099	0.000	0.257	0.000	0.095
LOW	0.160	0.190	5.310	3.550	3.990	0.020	0.050	9.420	95.31	0.260	0.230	0.000	1.060	0.000	0.440
HIGH	0.580	0.310	19.220	8.875	39.000	0.350	0.250	54.060	301.56	0.290	0.410	0.130	1.510	0.000	0.630

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	2.489	S. D.	0.253	LOW	2.041	HIGH	2.948					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0009	0010	0010
N DET.	0003	0000	0000	0000	0000	0002	0001	0000	0000	0000	0009	0009	0000	0000	0000
MEAN	0.054	0.457	0.062	4.037	1.524	0.028	0.162	0.564	4.34	0.182	0.190	0.560	0.105	0.664	0.559
S. D.	0.034	0.102	0.014	1.408	0.469	0.008	0.114	0.222	1.63	0.056	0.000	0.000	0.031	0.309	0.293
LOW	0.020	0.310	0.040	2.410	0.770	0.020	0.060	0.310	2.69	0.120	0.000	0.000	0.060	0.130	0.250
HIGH	0.105	0.660	0.080	7.475	2.550	0.040	0.380	1.050	8.12	0.270	0.190	0.560	0.145	1.190	1.190

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D6 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	3.292	S. D.	0.000	LOW	3.292	HIGH	3.292					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.875	6.125	14.973	25.260	0.055	0.060	4.560	27.65	0.180	0.715	0.310	1.090	0.470	0.465
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.875	6.125	14.973	25.260	0.055	0.060	4.560	27.65	0.180	0.715	0.310	1.090	0.470	0.465

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D8 — MUSCLE

LENGTH	NUM	1	MEAN	1.305	S. D.	0.000	LOW	1.305	HIGH	1.305					
WEIGHT	NUM	1	MEAN	43.546	S. D.	0.000	LOW	43.546	HIGH	43.546					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.145	0.640	0.040	3.820	1.065	0.000	0.213	0.265	4.39	0.215	0.000	0.000	0.230	0.805	0.470
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.145	0.640	0.040	3.820	1.065	0.000	0.213	0.265	4.39	0.215	0.000	0.000	0.230	0.805	0.470

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D9 — MUSCLE

LENGTH	NUM	1	MEAN	1.460	S. D.	0.000	LOW	1.460	HIGH	1.460					
WEIGHT	NUM	11	MEAN	7.706	S. D.	17.756	LOW	1.897	HIGH	61.236					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000	0008	0009	0000	0000	0000
MEAN	0.065	0.536	0.063	2.686	1.222	0.034	0.197	0.583	3.76	0.185	0.113	0.280	0.090	0.646	0.520
S. D.	0.059	0.202	0.033	1.683	0.336	0.020	0.171	0.451	1.66	0.096	0.119	0.042	0.021	0.307	0.110
LOW	0.020	0.250	0.030	1.312	0.765	0.010	0.060	0.175	2.56	0.080	0.030	0.250	0.060	0.185	0.340
HIGH	0.220	1.000	0.140	7.365	1.915	0.070	0.630	1.460	8.34	0.445	0.250	0.310	0.125	1.310	0.650

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- D9 — LIVER

LENGTH	NUM	1	MEAN	1.460	S. D.	0.000	LOW	1.460	HIGH	1.460					
WEIGHT	NUM	2	MEAN	31.864	S. D.	41.538	LOW	2.492	HIGH	61.236					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.120	0.475	3.375	3.505	10.990	0.025	0.280	16.155	177.41	0.285	0.485	0.695	1.095	1.335	0.725
S. D.	0.000	0.318	2.044	2.482	0.000	0.021	0.255	12.933	214.92	0.007	0.064	0.120	0.078	0.148	0.035
LOW	0.000	0.250	1.930	1.750	0.000	0.010	0.100	7.010	25.44	0.280	0.440	0.610	1.040	1.230	0.700
HIGH	0.120	0.700	4.820	5.260	10.990	0.040	0.460	25.300	329.38	0.290	0.530	0.780	1.150	1.440	0.750

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- H2 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	47.627	S. D.	0.000	LOW	47.627	HIGH	47.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.260	0.500	1.690	6.200	0.880	0.080	0.130	17.500	45.62	0.140	0.130	0.500	0.780	0.310	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.260	0.500	1.690	6.200	0.880	0.080	0.130	17.500	45.62	0.140	0.130	0.500	0.780	0.310	0.220

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- H5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	8	MEAN	10.397	S. D.	15.097	LOW	3.345	HIGH	47.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0007	0000	0000	0000
MEAN	0.115	0.586	0.068	4.069	1.468	0.026	0.128	0.459	3.74	0.220	0.220	0.070	0.090	0.735	0.599
S. D.	0.124	0.219	0.013	1.563	0.431	0.016	0.048	0.168	1.22	0.099	0.000	0.000	0.021	0.232	0.200
LOW	0.040	0.340	0.050	2.650	0.730	0.010	0.060	0.135	2.21	0.110	0.000	0.000	0.045	0.440	0.440
HIGH	0.415	0.940	0.085	6.383	2.125	0.060	0.190	0.680	6.09	0.435	0.220	0.070	0.110	1.190	1.000

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- H5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	3.600	S. D.	0.000	LOW	3.600	HIGH	3.600					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.250	5.500	3.100	14.800	0.020	0.130	4.750	24.30	0.210	0.370	0.000	0.810	0.630	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.250	5.500	3.100	14.800	0.020	0.130	4.750	24.30	0.210	0.370	0.000	0.810	0.630	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- J5 — MUSCLE

LENGTH	NUM	1	MEAN	1.350	S. D.	0.000	LOW	1.350	HIGH	1.350					
WEIGHT	NUM	1	MEAN	48.535	S. D.	0.000	LOW	48.535	HIGH	48.535					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.380	0.500	0.150	0.000	0.000	0.040	0.295	0.220	5.92	0.480	0.000	0.000	0.150	0.000	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.380	0.500	0.150	0.000	0.000	0.040	0.295	0.220	5.92	0.480	0.000	0.000	0.150	0.000	0.750

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- HAWAII — SITE- J5 — LIVER

LENGTH	NUM	1	MEAN	1.350	S. D.	0.000	LOW	1.350	HIGH	1.350					
WEIGHT	NUM	1	MEAN	48.535	S. D.	0.000	LOW	48.535	HIGH	48.535					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.250	0.500	2.930	5.200	19.050	0.060	0.150	6.870	23.75	0.220	0.340	0.000	1.060	1.190	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.250	0.500	2.930	5.200	19.050	0.060	0.150	6.870	23.75	0.220	0.340	0.000	1.060	1.190	0.000

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- CALIFORNIA — SITE- — MUSCLE

LENGTH	NUM	20	MEAN	0.915	S. D.	0.278	LOW	0.583	HIGH	1.257					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0018	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0013	0011	0000	0000	0000
MEAN	0.324	0.644	0.123	1.883	1.694	0.065	0.198	0.909	6.45	0.250	0.177	0.357	0.155	0.922	0.688
S. D.	0.252	0.255	0.081	0.865	1.230	0.033	0.190	0.417	1.35	0.060	0.091	0.155	0.067	0.348	0.168
LOW	0.040	0.250	0.055	0.725	0.720	0.030	0.060	0.240	3.93	0.130	0.060	0.090	0.060	0.405	0.425
HIGH	0.870	1.065	0.410	3.960	5.343	0.150	0.880	2.065	9.06	0.370	0.310	0.630	0.365	1.660	0.990

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- CALIFORNIA — SITE- — LIVER

LENGTH	NUM	14	MEAN	1.032	S. D.	0.252	LOW	0.583	HIGH	1.257					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0013	0010	0014	0014	0014	0014	0014	0014	0014	0014	0014	0013
N DET.	0000	0001	0000	0000	0000	0001	0002	0000	0000	0000	0001	0011	0000	0000	0000
MEAN	0.361	0.590	11.060	3.091	19.934	0.096	0.356	14.409	59.70	0.256	0.432	0.343	1.107	0.691	0.563
S. D.	0.256	0.226	7.500	2.415	8.648	0.084	0.377	9.993	31.57	0.120	0.155	0.137	0.471	0.390	0.275
LOW	0.040	0.310	1.610	1.075	0.510	0.010	0.060	4.700	13.13	0.070	0.160	0.250	0.310	0.060	0.120
HIGH	0.790	1.120	22.810	10.450	31.350	0.310	1.250	43.750	109.37	0.490	0.630	0.500	1.800	1.440	1.130

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- CALIFORNIA — SITE- R6 — MUSCLE

LENGTH	NUM	10	MEAN	0.824	S. D.	0.060	LOW	0.729	HIGH	0.926					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0002	0002	0001	0000	0005	0000	0000	0000	0000	0008	0006	0000	0003	0000
MEAN	0.133	0.468	0.083	2.903	0.664	0.031	0.199	0.608	6.80	0.208	0.200	0.398	0.168	0.794	0.555
S. D.	0.048	0.198	0.043	1.711	0.302	0.012	0.246	0.318	2.73	0.179	0.113	0.095	0.074	0.385	0.192
LOW	0.060	0.180	0.040	1.445	0.430	0.010	0.070	0.130	4.00	0.040	0.120	0.280	0.070	0.190	0.250
HIGH	0.185	0.750	0.145	6.840	1.375	0.040	0.880	1.070	13.19	0.625	0.280	0.500	0.320	1.250	0.810

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- CALIFORNIA — SITE- R6 — LIVER

LENGTH	NUM	3	MEAN	0.851	S. D.	0.031	LOW	0.815	HIGH	0.869					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.047	0.467	2.920	2.962	7.850	0.027	0.317	4.870	26.23	0.263	0.373	0.070	1.117	0.650	0.500
S. D.	0.038	0.031	0.234	1.372	4.116	0.006	0.196	2.105	9.18	0.064	0.261	0.000	0.321	0.140	0.354
LOW	0.020	0.440	2.650	1.400	5.350	0.020	0.110	2.560	15.63	0.190	0.150	0.000	0.870	0.550	0.250
HIGH	0.090	0.500	3.070	3.975	12.600	0.030	0.500	6.680	31.80	0.310	0.660	0.070	1.480	0.810	0.750

TUNA, YELLOWFIN — THUNNUS ALBACARES — 091020 — AREA- CALIFORNIA — SITE- W4 — MUSCLE

LENGTH	NUM	10	MEAN	0.545	S. D.	0.010	LOW	0.536	HIGH	0.562					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0004	0000	0000	0000
MEAN	0.078	0.988	0.166	1.963	1.381	0.105	0.226	1.252	7.27	0.379	0.130	0.398	0.194	1.333	0.684
S. D.	0.046	0.511	0.037	1.669	0.524	0.045	0.125	0.476	2.53	0.097	0.000	0.324	0.042	0.562	0.168
LOW	0.020	0.440	0.110	0.500	0.520	0.060	0.130	0.440	2.31	0.210	0.130	0.100	0.130	0.505	0.470
HIGH	0.170	2.250	0.225	6.350	2.190	0.190	0.470	2.350	12.59	0.570	0.130	1.000	0.260	2.220	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TUNA, BLACKFIN — THUNNUS ATLANTICUS — 091021 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	4.994	S. D.	0.000	LOW	4.994	HIGH	4.994					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.330	0.380	0.070	4.000	0.830	0.020	0.190	1.060	5.31	0.170	0.000	0.000	0.110	0.000	0.410
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.330	0.380	0.070	4.000	0.830	0.020	0.190	1.060	5.31	0.170	0.000	0.000	0.110	0.000	0.410

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- D5 — MUSCLE

LENGTH	NUM	1	MEAN	1.330	S. D.	0.000	LOW	1.330	HIGH	1.330					
WEIGHT	NUM	2	MEAN	56.926	S. D.	4.810	LOW	53.524	HIGH	60.327					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0002	0000	0000	0001	0002	0002	0000	0000	0000
MEAN	0.470	0.260	0.060	2.850	1.280	0.000	0.000	0.330	2.89	0.130	0.000	0.000	0.050	0.395	0.490
S. D.	0.113	0.156	0.000	0.000	0.000	0.000	0.000	0.042	0.63	0.000	0.000	0.000	0.028	0.417	0.453
LOW	0.390	0.150	0.000	0.000	0.000	0.000	0.000	0.300	2.44	0.000	0.000	0.000	0.030	0.100	0.170
HIGH	0.550	0.370	0.060	2.850	1.280	0.000	0.000	0.360	3.33	0.130	0.000	0.000	0.070	0.690	0.810

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- D6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	6	MEAN	2.970	S. D.	0.430	LOW	2.497	HIGH	3.746					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.061	0.430	0.209	3.524	1.359	0.021	0.201	0.554	3.68	0.176	0.295	0.310	0.101	0.724	0.568
S. D.	0.052	0.281	0.246	1.343	0.176	0.011	0.083	0.348	0.50	0.030	0.148	0.000	0.020	0.279	0.251
LOW	0.020	0.130	0.040	1.725	1.140	0.010	0.130	0.090	2.94	0.130	0.190	0.000	0.075	0.430	0.360
HIGH	0.160	0.930	0.630	4.942	1.650	0.040	0.285	1.170	4.37	0.210	0.400	0.310	0.130	1.190	1.000

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- D6 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	2.970	S. D.	0.000	LOW	2.970	HIGH	2.970					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.090	0.310	1.760	2.550	28.500	0.050	0.190	2.500	25.00	0.270	0.310	0.000	1.640	0.500	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.090	0.310	1.760	2.550	28.500	0.050	0.190	2.500	25.00	0.270	0.310	0.000	1.640	0.500	0.630

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- E7 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	61.943	S. D.	2.207	LOW	60.382	HIGH	63.503					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.410	0.470	0.043	2.935	3.174	0.023	0.205	0.320	3.95	0.170	0.000	0.440	0.125	0.595	0.405
S. D.	0.007	0.219	0.011	1.346	1.780	0.004	0.064	0.311	0.82	0.014	0.000	0.000	0.078	0.177	0.141
LOW	0.405	0.315	0.035	1.983	1.915	0.020	0.160	0.100	3.37	0.160	0.000	0.000	0.070	0.470	0.305
HIGH	0.415	0.625	0.050	3.887	4.433	0.025	0.250	0.540	4.53	0.180	0.000	0.440	0.180	0.720	0.505

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- E7 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	58.967	S. D.	6.415	LOW	54.431	HIGH	63.503					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.350	0.625	10.810	11.363	24.750	0.030	0.060	6.220	53.28	0.110	0.470	0.440	0.900	0.405	0.285
S. D.	0.028	0.445	0.453	1.609	0.000	0.000	0.000	0.834	15.25	0.014	0.226	0.000	0.028	0.134	0.035
LOW	0.330	0.310	10.490	10.225	0.000	0.000	0.060	5.630	42.50	0.100	0.310	0.000	0.880	0.310	0.260
HIGH	0.370	0.940	11.130	12.500	24.750	0.030	0.060	6.810	64.06	0.120	0.630	0.440	0.920	0.500	0.310

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- G5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	45.813	S. D.	0.000	LOW	45.813	HIGH	45.813					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.295	0.500	0.105	0.600	0.475	0.025	0.165	0.050	3.56	0.145	0.060	0.000	0.105	0.565	0.545
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.295	0.500	0.105	0.600	0.475	0.025	0.165	0.050	3.56	0.145	0.060	0.000	0.105	0.565	0.545

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- H2 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	12	MEAN	56.107	S. D.	8.926	LOW	30.390	HIGH	63.956					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0008	0011	0000	0000	0000
MEAN	0.351	0.478	0.062	2.783	1.270	0.021	0.222	0.287	3.54	0.142	0.468	0.440	0.076	0.608	0.404
S. D.	0.063	0.183	0.026	1.503	0.391	0.011	0.171	0.220	0.61	0.047	0.326	0.000	0.032	0.258	0.136
LOW	0.265	0.250	0.033	0.750	0.720	0.010	0.060	0.030	2.56	0.080	0.060	0.000	0.045	0.290	0.145
HIGH	0.510	0.940	0.120	6.875	2.305	0.040	0.565	0.870	4.68	0.230	0.810	0.440	0.170	1.130	0.720

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- H2 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	7	MEAN	58.923	S. D.	4.030	LOW	53.118	HIGH	63.956					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0004	0000	0000	0000
MEAN	0.421	0.599	10.634	6.042	27.844	0.061	0.144	12.549	39.73	0.192	0.594	0.333	1.020	0.691	0.500
S. D.	0.104	0.283	7.551	2.092	7.520	0.027	0.049	2.901	14.26	0.044	0.228	0.286	0.411	0.328	0.209
LOW	0.315	0.250	2.260	4.000	19.260	0.030	0.060	8.620	23.75	0.130	0.310	0.060	0.440	0.310	0.220
HIGH	0.630	0.940	25.310	9.887	39.750	0.110	0.190	18.280	60.00	0.250	1.000	0.630	1.640	1.120	0.750

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- H3 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	60.327	S. D.	0.000	LOW	60.327	HIGH	60.327					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.305	0.345	0.050	1.862	0.000	0.020	0.130	0.285	5.81	0.130	0.190	0.000	0.055	0.340	0.355
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.305	0.345	0.050	1.862	0.000	0.020	0.130	0.285	5.81	0.130	0.190	0.000	0.055	0.340	0.355

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- H3 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	57.854	S. D.	3.498	LOW	55.380	HIGH	60.327					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0002	0000	0000	0000
MEAN	0.278	0.815	4.523	8.986	28.075	0.043	0.165	5.908	66.40	0.188	0.450	0.000	1.023	0.470	0.298
S. D.	0.081	0.530	3.016	0.670	17.147	0.025	0.007	1.899	0.00	0.060	0.156	0.000	0.025	0.042	0.110
LOW	0.220	0.440	2.390	8.512	15.950	0.025	0.160	4.565	0.00	0.145	0.340	0.000	1.005	0.440	0.220
HIGH	0.335	1.190	6.655	9.460	40.200	0.060	0.170	7.250	66.40	0.230	0.560	0.000	1.040	0.500	0.375

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- H6 MUSCLE

LENGTH	NUM	2	MEAN	1.320	S. D.	0.028	LOW	1.300	HIGH	1.340					
WEIGHT	NUM	3	MEAN	56.245	S. D.	7.426	LOW	49.895	HIGH	64.410					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0001	0000	0000	0001	0000	0001	0000	0002	0003	0002	0000	0000	0000
MEAN	0.495	0.230	0.025	2.658	0.888	0.105	0.087	0.375	3.79	0.130	0.000	0.690	0.045	0.397	0.583
S. D.	0.213	0.184	0.021	0.837	0.216	0.106	0.060	0.021	0.27	0.000	0.000	0.000	0.022	0.307	0.057
LOW	0.350	0.100	0.010	2.066	0.735	0.030	0.045	0.360	3.55	0.000	0.000	0.000	0.030	0.190	0.520
HIGH	0.740	0.440	0.040	3.250	1.040	0.180	0.155	0.390	4.08	0.130	0.000	0.690	0.070	0.750	0.630

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- H6 LIVER

LENGTH	NUM	2	MEAN	1.320	S. D.	0.028	LOW	1.300	HIGH	1.340					
WEIGHT	NUM	2	MEAN	52.163	S. D.	3.207	LOW	49.895	HIGH	54.431					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.545	0.345	8.485	7.470	34.980	0.180	0.155	10.370	74.82	0.875	0.815	0.120	1.155	0.810	0.475
S. D.	0.332	0.134	9.214	0.000	0.000	0.000	0.000	8.570	25.00	0.530	0.615	0.000	0.389	0.000	0.035
LOW	0.310	0.250	1.970	0.000	0.000	0.000	0.000	4.310	57.14	0.500	0.380	0.000	0.880	0.000	0.450
HIGH	0.780	0.440	15.000	7.470	34.980	0.180	0.155	16.430	92.50	1.250	1.250	0.120	1.430	0.810	0.500

TUNA, BIGEYE THUNNUS OBESUS 091022 AREA- HAWAII SITE- J5 MUSCLE

LENGTH	NUM	7	MEAN	1.285	S. D.	0.138	LOW	1.145	HIGH	1.550					
WEIGHT	NUM	7	MEAN	49.571	S. D.	16.813	LOW	34.473	HIGH	83.461					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0006	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0006
N DET.	0000	0000	0003	0000	0000	0004	0000	0000	0000	0001	0006	0005	0000	0000	0000
MEAN	0.410	0.320	0.085	6.952	1.298	0.140	0.201	0.341	3.77	0.140	0.700	0.450	0.069	0.325	0.352
S. D.	0.072	0.142	0.030	4.526	0.421	0.200	0.124	0.112	0.87	0.116	0.000	0.071	0.036	0.095	0.101
LOW	0.355	0.120	0.050	1.900	0.935	0.010	0.030	0.230	2.49	0.030	0.000	0.400	0.030	0.190	0.220
HIGH	0.560	0.536	0.110	14.250	2.070	0.370	0.400	0.570	5.00	0.330	0.700	0.500	0.130	0.450	0.460

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- J5 — LIVER

LENGTH	NUM	2	MEAN	1.334	S. D.	0.023	LOW	1.317	HIGH	1.350					
WEIGHT	NUM	2	MEAN	53.751	S. D.	2.887	LOW	51.709	HIGH	55.792					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0002	0000	0000	0000
MEAN	0.250	0.475	11.170	69.000	13.100	0.095	0.243	11.690	30.43	0.440	0.265	0.000	3.065	0.595	0.575
S. D.	0.000	0.247	3.323	0.000	0.000	0.078	0.018	4.412	7.98	0.300	0.092	0.000	0.700	0.205	0.035
LOW	0.000	0.300	8.820	0.000	0.000	0.040	0.230	8.570	24.78	0.000	0.200	0.000	2.570	0.450	0.550
HIGH	0.250	0.650	13.520	69.000	13.100	0.150	0.255	14.810	36.07	0.440	0.330	0.000	3.560	0.740	0.600

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- K1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	6	MEAN	62.596	S. D.	3.430	LOW	58.967	HIGH	67.131					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.400	0.583	0.055	2.347	1.176	0.025	0.175	0.187	4.39	0.143	0.000	0.060	0.076	0.486	0.428
S. D.	0.074	0.162	0.028	0.984	0.195	0.013	0.073	0.067	0.86	0.036	0.000	0.000	0.023	0.224	0.205
LOW	0.310	0.310	0.010	1.375	0.935	0.010	0.060	0.090	3.35	0.100	0.000	0.000	0.040	0.250	0.220
HIGH	0.485	0.720	0.090	3.562	1.400	0.040	0.255	0.250	5.63	0.190	0.000	0.060	0.105	0.810	0.810

TUNA, BIGEYE — THUNNUS OBESUS — 091022 — AREA- HAWAII — SITE- K1 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	5	MEAN	61.688	S. D.	2.922	LOW	58.966	HIGH	66.677					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.412	0.328	6.209	8.727	28.979	0.071	0.164	11.216	41.87	0.197	0.368	0.393	1.029	0.678	0.458
S. D.	0.151	0.173	3.443	1.849	5.106	0.056	0.085	10.052	27.80	0.059	0.140	0.144	0.253	0.252	0.125
LOW	0.260	0.060	1.843	6.883	24.515	0.010	0.060	4.000	12.50	0.130	0.220	0.310	0.630	0.410	0.250
HIGH	0.580	0.500	9.250	11.330	34.050	0.125	0.250	27.810	87.50	0.290	0.560	0.560	1.310	1.060	0.560

TUNA, BLUEFIN — THUNNUS THYNNUS — 091023 — AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	1.200	S. D.	0.000	LOW	1.200	HIGH	1.200					
WEIGHT	NUM	1	MEAN	32.007	S. D.	0.000	LOW	32.007	HIGH	32.007					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.400	0.440	0.090	4.565	0.830	0.020	0.530	0.120	3.69	0.130	0.000	0.000	0.070	0.940	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.400	0.440	0.090	4.565	0.830	0.020	0.530	0.120	3.69	0.130	0.000	0.000	0.070	0.940	0.560

TUNA, BLUEFIN — THUNNUS THYNNUS — 091023 — AREA- CALIFORNIA — SITE- K6 — MUSCLE

LENGTH	NUM	10	MEAN	0.729	S. D.	0.024	LOW	0.680	HIGH	0.756					
WEIGHT	NUM	10	MEAN	8.618	S. D.	1.053	LOW	6.804	HIGH	9.979					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0001	0000	0000	0003	0000	0000	0000	0001	0007	0002	0000	0002	0000
MEAN	0.204	0.523	0.088	2.947	1.609	0.047	0.159	1.032	6.26	0.241	0.290	0.294	0.203	0.994	0.689
S. D.	0.087	0.242	0.034	1.816	1.279	0.029	0.102	0.578	0.97	0.128	0.175	0.219	0.074	0.491	0.253
LOW	0.040	0.230	0.040	0.950	0.600	0.020	0.040	0.460	4.59	0.100	0.120	0.060	0.120	0.400	0.400
HIGH	0.280	0.910	0.140	6.000	5.000	0.110	0.400	2.430	7.69	0.500	0.470	0.750	0.320	1.750	1.150

TUNA, BLUEFIN — THUNNUS THYNNUS — 091023 — AREA- CALIFORNIA — SITE- K6 — LIVER

LENGTH	NUM	1	MEAN	0.729	S. D.	0.000	LOW	0.729	HIGH	0.729					
WEIGHT	NUM	1	MEAN	8.618	S. D.	0.000	LOW	8.618	HIGH	8.618					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.130	0.000	2.750	2.925	2.775	0.210	0.195	8.035	21.43	0.180	0.200	0.000	1.785	0.000	0.600
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.130	0.000	2.750	2.925	2.775	0.210	0.195	8.035	21.43	0.180	0.200	0.000	1.785	0.000	0.600

MOJARRA, YELLOWFIN — GERRES CINEREUS — 094010 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	10	MEAN	0.277	S. D.	0.023	LOW	0.220	HIGH	0.308					
WEIGHT	NUM	10	MEAN	0.284	S. D.	0.024	LOW	0.249	HIGH	0.325					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0004	0000	0000	0002	0000	0001	0000	0001	0004	0005	0000	0001	0000
MEAN	0.072	0.615	0.071	2.693	0.491	0.043	0.262	0.221	5.48	0.292	0.407	0.430	0.192	0.786	0.523
S. D.	0.071	0.483	0.019	1.188	0.213	0.015	0.195	0.086	1.52	0.124	0.357	0.428	0.123	0.458	0.138
LOW	0.020	0.245	0.040	0.400	0.125	0.020	0.100	0.070	2.71	0.160	0.060	0.060	0.020	0.250	0.310
HIGH	0.210	1.950	0.095	4.700	0.785	0.075	0.750	0.340	8.21	0.515	0.870	1.130	0.460	1.700	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	10	MEAN	0.478	S. D.	0.000	LOW	0.478	HIGH	0.478					
WEIGHT	NUM	10	MEAN	0.962	S. D.	0.000	LOW	0.962	HIGH	0.962					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0019	0020	0018	0018	0020	0019	0019	0020	0020	0020	0020	0020	0020	0018
N DET.	0015	0000	0001	0000	0000	0003	0000	0000	0000	0000	0018	0016	0000	0003	0000
MEAN	0.098	0.567	0.080	1.909	0.272	0.028	0.212	0.514	5.85	0.178	0.250	0.344	0.275	0.686	0.427
S. D.	0.040	0.311	0.040	0.921	0.105	0.010	0.183	0.242	1.86	0.072	0.141	0.283	0.174	0.327	0.110
LOW	0.040	0.080	0.035	0.600	0.080	0.010	0.060	0.070	3.00	0.060	0.150	0.160	0.100	0.060	0.300
HIGH	0.130	1.150	0.160	3.750	0.505	0.050	0.800	1.130	10.75	0.320	0.350	0.765	0.710	1.250	0.630

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.030	0.150	0.210	4.400	0.000	0.000	0.100	161.000	41.40	0.320	0.650	0.200	2.140	1.050	1.900
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.030	0.150	0.210	4.400	0.000	0.000	0.100	161.000	41.40	0.320	0.650	0.200	2.140	1.050	1.900

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- G7 — MUSCLE

LENGTH	NUM	10	MEAN	0.306	S. D.	0.000	LOW	0.306	HIGH	0.306					
WEIGHT	NUM	10	MEAN	0.397	S. D.	0.000	LOW	0.397	HIGH	0.397					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0009	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0008	0000	0001	0000
MEAN	0.050	0.381	0.060	1.994	0.262	0.036	0.196	0.662	4.35	0.191	0.190	0.395	0.139	0.568	0.546
S. D.	0.000	0.232	0.019	0.918	0.151	0.013	0.205	0.496	1.09	0.082	0.000	0.120	0.035	0.128	0.201
LOW	0.000	0.190	0.030	0.840	0.120	0.025	0.020	0.270	2.94	0.060	0.000	0.310	0.090	0.380	0.310
HIGH	0.050	1.000	0.100	3.550	0.630	0.070	0.630	1.980	6.62	0.370	0.190	0.480	0.190	0.750	1.000

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- J1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0001	0004	0000	0000	0003	0000	0000	0000	0000	0005	0006	0000	0002	0000
MEAN	0.022	0.308	0.063	3.671	0.458	0.037	0.165	0.495	5.43	0.156	0.338	0.418	0.220	0.698	0.493
S. D.	0.008	0.120	0.046	1.558	0.404	0.018	0.101	0.165	1.57	0.081	0.270	0.194	0.100	0.222	0.171
LOW	0.010	0.190	0.020	0.850	0.180	0.010	0.040	0.200	3.45	0.070	0.060	0.160	0.105	0.400	0.200
HIGH	0.030	0.496	0.130	5.466	1.440	0.070	0.380	0.750	8.09	0.280	0.750	0.630	0.360	1.000	0.810

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- J1 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.190	0.560	3.380	3.300	1.090	0.050	22.500	40.00	0.140	1.560	0.370	0.640	0.370	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.190	0.560	3.380	3.300	1.090	0.050	22.500	40.00	0.140	1.560	0.370	0.640	0.370	0.750

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	3	MEAN	0.315	S. D.	0.028	LOW	0.290	HIGH	0.345					
WEIGHT	NUM	3	MEAN	0.323	S. D.	0.009	LOW	0.317	HIGH	0.333					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0001	0000	0000	0001	0000	0000	0000	0001	0004	0003	0000	0002	0000
MEAN	0.133	0.698	0.080	2.846	0.603	0.040	0.163	0.313	7.03	0.421	0.000	0.630	0.199	0.630	0.392
S. D.	0.127	0.364	0.053	0.921	0.090	0.010	0.046	0.080	2.64	0.235	0.000	0.000	0.105	0.255	0.044
LOW	0.050	0.335	0.040	1.732	0.470	0.030	0.110	0.210	4.79	0.223	0.000	0.000	0.070	0.450	0.350
HIGH	0.280	1.065	0.140	3.800	0.670	0.050	0.210	0.390	10.71	0.680	0.000	0.630	0.290	0.810	0.450

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0002	0000
MEAN	0.050	0.713	0.035	3.188	0.358	0.015	0.288	0.348	4.27	0.133	0.060	0.060	0.128	0.000	0.470
S. D.	0.000	0.477	0.000	0.322	0.117	0.000	0.053	0.138	0.68	0.011	0.000	0.000	0.018	0.000	0.042
LOW	0.000	0.375	0.000	2.960	0.275	0.000	0.250	0.250	3.79	0.125	0.000	0.000	0.115	0.000	0.440
HIGH	0.050	1.050	0.035	3.416	0.440	0.015	0.325	0.445	4.75	0.140	0.060	0.060	0.140	0.000	0.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.130	0.130	0.380	4.750	0.850	0.090	0.250	4.380	34.38	0.350	1.050	0.530	0.460	0.000	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.130	0.130	0.380	4.750	0.850	0.090	0.250	4.380	34.38	0.350	1.050	0.530	0.460	0.000	0.630

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	1	MEAN	0.250	S. D.	0.000	LOW	0.250	HIGH	0.250				
WEIGHT	NUM	1	MEAN	0.341	S. D.	0.000	LOW	0.341	HIGH	0.341				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0006	0000	0000	0003	0000	0000	0000	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.010	0.491	0.065	2.127	0.377	0.073	0.231	0.347	6.08	0.311	0.240	0.155	0.572	0.988	0.532
S. D.	0.000	0.242	0.017	0.747	0.118	0.042	0.102	0.138	1.77	0.116	0.206	0.110	0.241	0.470	0.212
LOW	0.000	0.020	0.040	1.163	0.250	0.040	0.060	0.170	2.80	0.110	0.060	0.060	0.260	0.300	0.050
HIGH	0.010	0.880	0.080	3.400	0.600	0.160	0.420	0.610	9.13	0.500	0.570	0.250	0.940	2.060	0.750

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- GULF — SITE- D5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0010	0000	0000	0000	0000	0002	0000	0000	0000	0000	0010	0009	0000	0000	0000
MEAN	0.000	0.401	0.067	2.629	0.498	0.028	0.174	0.486	5.48	0.197	0.000	0.480	0.448	0.699	0.467
S. D.	0.000	0.225	0.021	1.343	0.169	0.023	0.081	0.288	0.74	0.069	0.000	0.000	0.195	0.187	0.110
LOW	0.000	0.190	0.040	0.590	0.260	0.010	0.060	0.160	4.56	0.130	0.000	0.000	0.210	0.380	0.310
HIGH	0.000	0.810	0.110	5.000	0.700	0.080	0.310	0.890	6.69	0.340	0.000	0.480	0.780	0.940	0.640

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- GULF — SITE- E5 — MUSCLE

LENGTH	NUM	20	MEAN	0.376	S. D.	0.020	LOW	0.344	HIGH	0.420				
WEIGHT	NUM	20	MEAN	0.530	S. D.	0.101	LOW	0.394	HIGH	0.701				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0019
N DET.	0011	0001	0002	0000	0001	0005	0001	0000	0000	0003	0019	0015	0000	0002	0000
MEAN	0.043	0.522	0.105	3.288	0.378	0.043	0.173	0.390	5.07	0.208	0.440	0.323	0.266	0.836	0.652
S. D.	0.029	0.244	0.102	1.251	0.173	0.021	0.082	0.111	0.53	0.064	0.000	0.105	0.168	0.270	0.258
LOW	0.010	0.010	0.040	1.625	0.050	0.010	0.060	0.170	3.93	0.100	0.000	0.250	0.070	0.500	0.360
HIGH	0.100	1.030	0.480	5.900	0.690	0.110	0.340	0.610	5.93	0.340	0.440	0.500	0.870	1.600	1.450

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- GULF — SITE- E5 — LIVER

LENGTH	NUM	2	MEAN	0.382	S. D.	0.004	LOW	0.379	HIGH	0.385				
WEIGHT	NUM	2	MEAN	0.590	S. D.	0.008	LOW	0.584	HIGH	0.595				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.078	0.768	0.303	17.613	3.158	0.225	0.110	87.513	73.27	0.320	1.845	1.448	0.440	0.720	0.420
S. D.	0.060	0.110	0.046	15.609	0.668	0.120	0.071	4.402	6.83	0.198	0.000	0.095	0.240	0.396	0.071
LOW	0.035	0.690	0.270	6.575	2.685	0.140	0.060	84.400	68.44	0.180	0.000	1.380	0.270	0.440	0.370
HIGH	0.120	0.845	0.335	28.650	3.630	0.310	0.160	90.625	78.10	0.460	1.845	1.515	0.610	1.000	0.470

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- GULF — SITE- G3 — MUSCLE

LENGTH	NUM	2	MEAN	0.250	S. D.	0.000	LOW	0.250	HIGH	0.250				
WEIGHT	NUM	2	MEAN	0.341	S. D.	0.000	LOW	0.341	HIGH	0.341				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.000	0.350	0.060	3.205	0.373	0.085	0.160	0.305	5.04	0.273	0.000	0.090	0.193	0.970	0.490
S. D.	0.000	0.127	0.014	1.747	0.046	0.064	0.014	0.106	1.07	0.053	0.000	0.000	0.004	0.141	0.000
LOW	0.000	0.260	0.050	1.970	0.340	0.040	0.150	0.230	4.28	0.235	0.000	0.000	0.190	0.870	0.000
HIGH	0.000	0.440	0.070	4.440	0.405	0.130	0.170	0.380	5.80	0.310	0.000	0.090	0.195	1.070	0.490

MULLET, STRIPED — MUGIL CEPHALUS — 098002 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	3	MEAN	0.418	S. D.	0.127	LOW	0.273	HIGH	0.510				
WEIGHT	NUM	3	MEAN	1.092	S. D.	0.701	LOW	0.326	HIGH	1.702				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0002	0000
MEAN	0.020	0.448	0.095	1.133	0.605	0.033	0.170	0.537	4.02	0.282	0.000	0.310	0.202	0.940	0.470
S. D.	0.000	0.143	0.039	0.651	0.118	0.006	0.035	0.148	1.32	0.068	0.000	0.000	0.050	0.000	0.078
LOW	0.020	0.310	0.070	0.500	0.470	0.030	0.130	0.375	2.97	0.235	0.000	0.000	0.150	0.000	0.380
HIGH	0.020	0.595	0.140	1.800	0.690	0.040	0.190	0.665	5.50	0.360	0.000	0.310	0.250	0.940	0.515

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MULLET, STRIPED — MUGIL CEPHALUS — 098002 AREA- GULF — SITE- L2 MUSCLE

LENGTH	NUM	1	MEAN	0.372	S. D.	0.000	LOW	0.372	HIGH	0.372				
WEIGHT	NUM	1	MEAN	0.419	S. D.	0.000	LOW	0.419	HIGH	0.419				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	1.000	0.060	0.000	0.270	0.030	0.130	0.220	5.31	0.180	0.060	0.000	0.130	1.060	0.510
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.000	0.060	0.000	0.270	0.030	0.130	0.220	5.31	0.180	0.060	0.000	0.130	1.060	0.510

MULLET, STRIPED — MUGIL CEPHALUS — 098002 AREA- GULF — SITE- L5 MUSCLE

LENGTH	NUM	12	MEAN	0.319	S. D.	0.013	LOW	0.298	HIGH	0.348				
WEIGHT	NUM	12	MEAN	0.642	S. D.	0.071	LOW	0.554	HIGH	0.807				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0011	0011	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0010	0001	0005	0000	0001	0004	0000	0000	0000	0006	0008	0009	0000	0004	0000
MEAN	0.060	0.487	0.064	3.532	0.376	0.052	0.200	0.313	5.62	0.270	0.218	0.395	0.129	0.816	0.483
S. D.	0.000	0.229	0.025	1.877	0.109	0.039	0.117	0.119	1.05	0.102	0.153	0.257	0.066	0.431	0.172
LOW	0.060	0.200	0.035	0.750	0.200	0.020	0.030	0.170	3.87	0.180	0.090	0.120	0.040	0.250	0.320
HIGH	0.060	0.825	0.110	6.750	0.520	0.140	0.450	0.560	7.76	0.450	0.440	0.630	0.250	1.440	0.940

MULLET, STRIPED — MUGIL CEPHALUS — 098002 AREA- GULF — SITE- L9 MUSCLE

LENGTH	NUM	2	MEAN	0.328	S. D.	0.006	LOW	0.324	HIGH	0.332				
WEIGHT	NUM	2	MEAN	0.323	S. D.	0.001	LOW	0.322	HIGH	0.324				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0015	0014	0014
N DET.	0014	0001	0002	0000	0003	0002	0000	0000	0000	0001	0014	0014	0000	0001	0000
MEAN	0.040	0.464	0.058	2.899	0.246	0.027	0.203	0.343	4.73	0.163	0.030	0.190	0.172	0.535	0.547
S. D.	0.000	0.272	0.021	1.291	0.184	0.009	0.173	0.149	1.19	0.068	0.000	0.000	0.053	0.343	0.291
LOW	0.000	0.130	0.020	0.450	0.050	0.010	0.010	0.160	1.38	0.060	0.000	0.000	0.120	0.250	0.310
HIGH	0.040	1.130	0.090	4.500	0.630	0.040	0.630	0.750	6.79	0.350	0.030	0.190	0.320	1.630	1.250

MULLET, STRIPED — MUGIL CEPHALUS — 098002 AREA- HAWAII — SITE- D5 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	18	MEAN	0.469	S. D.	0.105	LOW	0.312	HIGH	0.709				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0018	0018	0018	0018	0018	0017	0018	0018	0018	0018	0018	0018	0018	0018
N DET.	0016	0000	0000	0000	0000	0001	0001	0000	0000	0000	0014	0014	0000	0001	0000
MEAN	0.090	0.368	0.056	2.449	0.372	0.036	0.187	0.462	4.59	0.191	0.325	0.348	0.232	0.586	0.562
S. D.	0.071	0.145	0.015	1.629	0.185	0.014	0.133	0.203	1.37	0.071	0.255	0.243	0.124	0.223	0.171
LOW	0.040	0.130	0.020	0.590	0.150	0.020	0.030	0.060	2.25	0.080	0.130	0.100	0.110	0.130	0.310
HIGH	0.140	0.690	0.080	7.450	0.915	0.070	0.440	0.880	7.56	0.390	0.700	0.620	0.580	1.000	0.940

MULLET, STRIPED — MUGIL CEPHALUS — 098002 AREA- HAWAII — SITE- D6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	9	MEAN	0.520	S. D.	0.150	LOW	0.432	HIGH	0.899				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0008	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0001	0000
MEAN	0.047	0.306	0.061	2.541	0.441	0.032	0.132	0.324	4.09	0.198	0.147	0.248	0.172	0.527	0.541
S. D.	0.046	0.163	0.017	1.127	0.217	0.014	0.043	0.120	0.74	0.041	0.086	0.208	0.052	0.264	0.161
LOW	0.020	0.060	0.035	1.500	0.140	0.010	0.045	0.140	2.90	0.135	0.060	0.060	0.070	0.190	0.220
HIGH	0.100	0.535	0.085	5.091	0.723	0.055	0.190	0.500	5.06	0.245	0.310	0.620	0.230	1.060	0.690

MULLET, STRIPED — MUGIL CEPHALUS — 098002 AREA- HAWAII — SITE- H1 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000				
WEIGHT	NUM	13	MEAN	0.607	S. D.	0.185	LOW	0.437	HIGH	0.951				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0012	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0012	0013
N DET.	0012	0000	0000	0000	0000	0000	0000	0000	0000	0000	0011	0011	0000	0006	0000
MEAN	0.020	0.422	0.073	1.598	0.327	0.032	0.185	0.279	4.58	0.229	0.205	0.220	0.234	0.558	0.497
S. D.	0.000	0.258	0.031	0.980	0.148	0.006	0.127	0.157	1.12	0.066	0.064	0.042	0.059	0.275	0.173
LOW	0.000	0.185	0.040	0.500	0.010	0.020	0.060	0.060	3.00	0.160	0.160	0.190	0.150	0.060	0.310
HIGH	0.020	1.000	0.160	3.800	0.515	0.040	0.500	0.570	6.19	0.380	0.250	0.250	0.330	0.850	0.910

MULLET, SILVER (WHITE) — MUGIL CUREMA — 098003 AREA- SOUTH ATLANTIC — SITE- J4 MUSCLE

LENGTH	NUM	2	MEAN	0.279	S. D.	0.009	LOW	0.272	HIGH	0.285				
WEIGHT	NUM	2	MEAN	0.313	S. D.	0.006	LOW	0.308	HIGH	0.317				
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.040	0.595	0.060	4.200	0.670	0.065	0.140	0.495	8.25	0.245	0.060	0.560	0.135	0.785	0.505
S. D.	0.028	0.219	0.000	3.606	0.438	0.035	0.071	0.191	3.35	0.021	0.000	0.000	0.021	0.219	0.177
LOW	0.020	0.440	0.060	1.650	0.360	0.040	0.090	0.360	5.88	0.230	0.000	0.000	0.120	0.630	0.380
HIGH	0.060	0.750	0.060	6.750	0.980	0.090	0.190	0.630	10.62	0.260	0.060	0.560	0.150	0.940	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

MULLET, SILVER (WHITE) MUGIL CUREMA 098003 AREA- SOUTH ATLANTIC SITE- M1 MUSCLE

LENGTH	NUM	1	MEAN	0.251	S. D.	0.000	LOW	0.251	HIGH	0.251					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0024	0024	0024	0023	0024	0024	0022	0024	0023	0024	0024	0024	0024	0024	0023
N DET.	0018	0000	0000	0000	0000	0002	0002	0000	0000	0000	0024	0014	0000	0000	0000
MEAN	0.035	0.486	0.065	2.600	0.326	0.025	0.271	0.428	7.32	0.184	0.000	0.269	0.154	0.717	0.542
S. D.	0.018	0.214	0.019	1.299	0.265	0.010	0.225	0.174	1.20	0.050	0.000	0.124	0.068	0.253	0.105
LOW	0.020	0.130	0.030	0.100	0.020	0.010	0.060	0.020	4.81	0.080	0.000	0.090	0.080	0.380	0.380
HIGH	0.060	0.940	0.110	6.710	1.130	0.050	0.880	0.760	10.17	0.260	0.000	0.470	0.375	1.630	0.780

MULLET, SILVER (WHITE) MUGIL CUREMA 098003 AREA- GULF SITE- R6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0010	0000	0000	0000	0000	0000	0001	0000	0000	0000	0009	0008	0000	0000	0000
MEAN	0.000	0.435	0.064	2.747	0.288	0.033	0.146	0.582	7.66	0.203	0.250	0.380	0.159	0.602	0.442
S. D.	0.000	0.216	0.012	1.120	0.091	0.010	0.093	0.194	1.33	0.055	0.000	0.141	0.023	0.219	0.069
LOW	0.000	0.190	0.050	1.300	0.100	0.015	0.040	0.350	4.09	0.135	0.000	0.280	0.135	0.310	0.310
HIGH	0.000	0.810	0.090	5.000	0.440	0.050	0.310	1.060	8.63	0.310	0.250	0.480	0.210	0.940	0.560

SHEEPSHEAD ARCHOSARGUS PROBATOCEPHALUS 114001 AREA- GULF SITE- B8 MUSCLE

LENGTH	NUM	5	MEAN	0.423	S. D.	0.067	LOW	0.343	HIGH	0.520					
WEIGHT	NUM	5	MEAN	1.637	S. D.	0.665	LOW	0.752	HIGH	2.495					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0006	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0005	0005	0000	0002	0000
MEAN	0.161	0.430	0.096	4.589	0.753	0.051	0.163	0.278	3.59	0.267	0.205	0.330	0.166	0.644	0.441
S. D.	0.173	0.301	0.051	1.915	0.310	0.056	0.061	0.112	0.69	0.160	0.205	0.382	0.113	0.180	0.200
LOW	0.040	0.040	0.050	2.650	0.360	0.010	0.080	0.105	2.20	0.120	0.060	0.060	0.010	0.500	0.050
HIGH	0.520	0.940	0.185	7.150	1.215	0.160	0.245	0.440	4.28	0.530	0.350	0.600	0.325	0.940	0.650

SHEEPSHEAD ARCHOSARGUS PROBATOCEPHALUS 114001 AREA- GULF SITE- D5 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0010	0010	0010	0010	0009	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0007	0000	0000	0000
MEAN	0.046	0.427	0.080	3.196	0.628	0.028	0.231	0.322	3.71	0.174	0.000	0.283	0.256	0.746	0.568
S. D.	0.026	0.134	0.035	1.915	0.122	0.010	0.234	0.135	0.78	0.048	0.000	0.095	0.180	0.181	0.074
LOW	0.020	0.250	0.060	0.990	0.500	0.010	0.060	0.240	2.05	0.100	0.000	0.190	0.120	0.500	0.380
HIGH	0.100	0.690	0.150	7.750	0.850	0.040	0.810	0.690	5.00	0.250	0.000	0.380	0.690	1.060	0.630

SHEEPSHEAD ARCHOSARGUS PROBATOCEPHALUS 114001 AREA- GULF SITE- E5 MUSCLE

LENGTH	NUM	10	MEAN	0.363	S. D.	0.052	LOW	0.290	HIGH	0.448					
WEIGHT	NUM	10	MEAN	0.902	S. D.	0.295	LOW	0.494	HIGH	1.417					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0009	0000	0002	0000
MEAN	0.143	0.505	0.097	3.543	0.708	0.033	0.291	0.321	3.71	0.212	0.000	0.000	0.167	0.732	0.574
S. D.	0.067	0.231	0.067	1.260	0.244	0.013	0.167	0.118	0.77	0.063	0.000	0.000	0.039	0.362	0.221
LOW	0.050	0.190	0.050	2.000	0.160	0.010	0.060	0.070	1.81	0.110	0.000	0.000	0.090	0.125	0.220
HIGH	0.230	0.880	0.280	5.750	1.040	0.060	0.690	0.480	4.44	0.290	0.000	0.000	0.220	1.250	1.060

SHEEPSHEAD ARCHOSARGUS PROBATOCEPHALUS 114001 AREA- GULF SITE- E5 LIVER

LENGTH	NUM	1	MEAN	0.352	S. D.	0.000	LOW	0.352	HIGH	0.352					
WEIGHT	NUM	1	MEAN	0.835	S. D.	0.000	LOW	0.835	HIGH	0.835					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.240	0.810	0.400	10.650	0.400	0.090	0.190	19.130	71.88	0.490	0.410	0.630	2.310	1.310	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.240	0.810	0.400	10.650	0.400	0.090	0.190	19.130	71.88	0.490	0.410	0.630	2.310	1.310	0.750

SHEEPSHEAD ARCHOSARGUS PROBATOCEPHALUS 114001 AREA- GULF SITE- F7 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0002	0000	0000	0002	0001	0000	0000	0000	0004	0008	0000	0001	0000
MEAN	0.167	0.475	0.056	2.872	0.343	0.042	0.208	0.223	3.75	0.246	0.238	0.413	0.126	1.018	0.648
S. D.	0.059	0.192	0.019	1.946	0.191	0.019	0.168	0.102	1.40	0.144	0.250	0.145	0.048	0.413	0.218
LOW	0.090	0.303	0.030	0.900	0.130	0.010	0.080	0.040	1.75	0.070	0.030	0.310	0.070	0.620	0.360
HIGH	0.240	0.940	0.090	7.000	0.800	0.070	0.510	0.375	6.80	0.570	0.720	0.515	0.217	2.000	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SHEEPSHEAD — ARCHOSARGUS PROBATOCEPHALUS — 114001 — AREA- GULF — SITE- F7 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.415	0.470	0.490	6.316	1.850	0.150	0.130	41.565	406.25	0.535	0.155	0.310	1.605	0.380	0.625
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.415	0.470	0.490	6.316	1.850	0.150	0.130	41.565	406.25	0.535	0.155	0.310	1.605	0.380	0.625

SHEEPSHEAD — ARCHOSARGUS PROBATOCEPHALUS — 114001 — AREA- GULF — SITE- G5 — MUSCLE

LENGTH	NUM	13	MEAN	0.397	S. D.	0.096	LOW	0.250	HIGH	0.580					
WEIGHT	NUM	13	MEAN	1.379	S. D.	1.026	LOW	0.340	HIGH	3.405					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0011	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0012
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0013	0011	0000	0013	0000
MEAN	0.115	0.493	0.063	3.124	0.697	0.034	0.283	0.325	3.63	0.262	0.000	0.205	0.194	0.000	0.605
S. D.	0.174	0.183	0.009	1.728	0.350	0.009	0.340	0.084	0.49	0.057	0.000	0.064	0.090	0.000	0.122
LOW	0.020	0.280	0.050	0.900	0.160	0.020	0.060	0.210	2.90	0.155	0.000	0.160	0.080	0.000	0.440
HIGH	0.625	0.875	0.080	6.475	1.540	0.050	1.285	0.460	4.84	0.360	0.000	0.250	0.390	0.000	0.840

SHEEPSHEAD — ARCHOSARGUS PROBATOCEPHALUS — 114001 — AREA- GULF — SITE- L5 — MUSCLE

LENGTH	NUM	10	MEAN	0.231	S. D.	0.051	LOW	0.188	HIGH	0.347					
WEIGHT	NUM	10	MEAN	0.598	S. D.	0.317	LOW	0.355	HIGH	1.351					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0003	0000	0000	0004	0000	0000	0000	0002	0007	0006	0000	0003	0000
MEAN	0.152	0.575	0.112	7.658	0.715	0.048	0.231	0.316	4.60	0.330	0.593	0.318	0.204	0.963	0.596
S. D.	0.041	0.309	0.057	2.983	0.271	0.026	0.217	0.067	1.52	0.254	0.622	0.123	0.150	0.556	0.205
LOW	0.085	0.190	0.040	3.500	0.300	0.010	0.070	0.210	2.21	0.090	0.190	0.230	0.040	0.100	0.350
HIGH	0.210	1.200	0.210	11.500	1.220	0.070	0.800	0.450	7.30	0.780	1.310	0.500	0.570	1.780	1.000

PINFISH, SPOTTAIL — DIPLODUS HOLBROOKI — 114013 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	6	MEAN	0.228	S. D.	0.024	LOW	0.210	HIGH	0.276					
WEIGHT	NUM	10	MEAN	0.352	S. D.	0.080	LOW	0.202	HIGH	0.454					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0009	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0002	0000	0003	0000
MEAN	0.205	0.644	0.087	5.300	0.712	0.054	0.173	0.445	5.25	0.242	0.563	0.259	0.192	0.680	0.618
S. D.	0.104	0.276	0.046	2.368	0.341	0.033	0.092	0.474	1.31	0.071	0.445	0.155	0.079	0.427	0.244
LOW	0.030	0.287	0.040	2.250	0.290	0.030	0.075	0.140	3.44	0.150	0.160	0.060	0.095	0.130	0.225
HIGH	0.340	1.150	0.210	8.200	1.400	0.140	0.365	1.693	7.58	0.395	1.120	0.500	0.380	1.125	0.950

PINFISH, SPOTTAIL — DIPLODUS HOLBROOKI — 114013 — AREA- SOUTH ATLANTIC — SITE- J4 — LIVER

LENGTH	NUM	1	MEAN	0.218	S. D.	0.000	LOW	0.218	HIGH	0.218					
WEIGHT	NUM	1	MEAN	0.336	S. D.	0.000	LOW	0.336	HIGH	0.336					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.120	0.750	1.620	3.050	0.000	0.060	0.210	3.370	48.75	0.310	0.440	0.440	0.970	0.900	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	0.750	1.620	3.050	0.000	0.060	0.210	3.370	48.75	0.310	0.440	0.440	0.970	0.900	0.560

PORGY, RED — PAGRUS SEDECIM — 114014 — AREA- SOUTH ATLANTIC — SITE- B5 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0007	0009	0000	0001	0000
MEAN	0.494	0.590	0.088	19.105	0.591	0.043	0.211	0.253	3.35	0.267	0.158	0.455	0.089	0.837	0.635
S. D.	0.096	0.218	0.028	13.135	0.153	0.026	0.114	0.085	0.68	0.077	0.085	0.000	0.029	0.386	0.137
LOW	0.340	0.316	0.040	6.370	0.405	0.020	0.040	0.140	2.81	0.130	0.060	0.000	0.040	0.480	0.440
HIGH	0.630	1.000	0.140	45.000	0.860	0.110	0.380	0.370	4.75	0.370	0.215	0.455	0.140	1.500	0.880

PORGY, RED — PAGRUS SEDECIM — 114014 — AREA- SOUTH ATLANTIC — SITE- B5 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.450	0.630	7.190	8.350	2.750	0.060	0.310	6.750	35.94	0.420	0.410	5.440	1.440	0.000	0.940
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.450	0.630	7.190	8.350	2.750	0.060	0.310	6.750	35.94	0.420	0.410	5.440	1.440	0.000	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

PORGY, RED — PAGRUS SEDECIM — 114014 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	10	MEAN	0.365	S. D.	0.000	LOW	0.365	HIGH	0.365					
WEIGHT	NUM	10	MEAN	1.022	S. D.	0.000	LOW	1.022	HIGH	1.022					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.612	0.598	0.065	15.119	0.626	0.047	0.230	0.321	3.96	0.249	0.196	0.063	0.120	0.975	0.684
S. D.	0.252	0.146	0.020	6.741	0.180	0.026	0.097	0.107	1.24	0.060	0.053	0.025	0.031	0.191	0.168
LOW	0.340	0.375	0.040	4.700	0.300	0.015	0.120	0.190	2.44	0.150	0.125	0.040	0.060	0.630	0.440
HIGH	1.166	0.880	0.115	30.500	0.850	0.110	0.375	0.495	7.12	0.350	0.250	0.090	0.170	1.310	0.970

PORGY, RED — PAGRUS SEDECIM — 114014 — AREA- SOUTH ATLANTIC — SITE- G2 — MUSCLE

LENGTH	NUM	2	MEAN	0.241	S. D.	0.053	LOW	0.203	HIGH	0.278					
WEIGHT	NUM	2	MEAN	0.312	S. D.	0.192	LOW	0.176	HIGH	0.448					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0001	0000	0000	0001	0002	0001	0000	0000	0000
MEAN	0.215	0.325	0.140	12.495	0.505	0.000	0.223	0.220	2.59	0.465	0.000	0.350	0.180	1.410	0.400
S. D.	0.134	0.035	0.000	2.906	0.134	0.000	0.000	0.014	0.13	0.000	0.000	0.000	0.099	1.358	0.141
LOW	0.120	0.300	0.000	10.440	0.410	0.000	0.000	0.210	2.50	0.000	0.000	0.000	0.110	0.450	0.300
HIGH	0.310	0.350	0.140	14.550	0.600	0.000	0.223	0.230	2.68	0.465	0.000	0.350	0.250	2.370	0.500

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- I8 — MUSCLE

LENGTH	NUM	1	MEAN	0.171	S. D.	0.000	LOW	0.171	HIGH	0.171					
WEIGHT	NUM	11	MEAN	0.023	S. D.	0.034	LOW	0.011	HIGH	0.127					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0010	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0004	0000
MEAN	0.020	1.118	0.146	1.679	0.912	0.124	0.366	0.879	11.01	0.564	0.356	0.536	0.891	1.733	1.551
S. D.	0.000	0.515	0.041	1.053	0.306	0.037	0.146	0.227	3.23	0.174	0.142	0.203	0.324	0.391	0.548
LOW	0.000	0.190	0.070	0.580	0.420	0.030	0.130	0.240	3.25	0.210	0.250	0.310	0.150	1.220	0.470
HIGH	0.020	2.300	0.240	3.790	1.230	0.180	0.700	1.100	15.00	0.850	0.720	1.000	1.235	2.310	2.470

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- J6 — MUSCLE

LENGTH	NUM	3	MEAN	0.200	S. D.	0.027	LOW	0.176	HIGH	0.230					
WEIGHT	NUM	3	MEAN	0.208	S. D.	0.068	LOW	0.156	HIGH	0.285					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0003	0002	0000	0002	0000
MEAN	0.113	0.560	0.137	1.244	0.303	0.033	0.145	0.343	2.25	0.320	0.000	0.220	0.193	0.630	0.485
S. D.	0.047	0.354	0.059	0.991	0.300	0.006	0.021	0.263	0.97	0.200	0.000	0.000	0.091	0.000	0.064
LOW	0.060	0.310	0.070	0.580	0.120	0.030	0.130	0.060	1.13	0.190	0.000	0.000	0.090	0.000	0.440
HIGH	0.150	0.810	0.180	2.383	0.650	0.040	0.160	0.580	2.81	0.550	0.000	0.220	0.260	0.630	0.530

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	6	MEAN	0.193	S. D.	0.005	LOW	0.188	HIGH	0.202					
WEIGHT	NUM	6	MEAN	0.168	S. D.	0.018	LOW	0.149	HIGH	0.191					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0003	0000
MEAN	0.086	0.594	0.084	3.076	0.513	0.043	0.161	0.430	3.38	0.257	0.130	0.250	0.239	0.948	0.694
S. D.	0.066	0.452	0.031	2.774	0.310	0.015	0.052	0.246	1.44	0.089	0.000	0.000	0.097	0.386	0.173
LOW	0.020	0.130	0.050	0.580	0.050	0.020	0.100	0.190	0.81	0.080	0.000	0.000	0.125	0.635	0.530
HIGH	0.150	1.250	0.140	7.500	0.850	0.060	0.220	0.815	5.25	0.320	0.130	0.250	0.390	1.380	1.000

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- J8 — MUSCLE

LENGTH	NUM	2	MEAN	0.188	S. D.	0.011	LOW	0.180	HIGH	0.196					
WEIGHT	NUM	2	MEAN	0.155	S. D.	0.021	LOW	0.140	HIGH	0.170					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	0.045	0.505	0.070	2.065	0.325	0.030	0.145	0.475	3.44	0.230	0.190	0.000	0.138	0.850	0.440
S. D.	0.035	0.177	0.000	2.029	0.332	0.014	0.021	0.021	0.53	0.014	0.000	0.000	0.025	0.000	0.085
LOW	0.020	0.380	0.070	0.630	0.090	0.020	0.130	0.460	3.06	0.220	0.000	0.000	0.120	0.000	0.380
HIGH	0.070	0.630	0.070	3.500	0.560	0.040	0.160	0.490	3.81	0.240	0.190	0.000	0.155	0.850	0.500

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- J9 — MUSCLE

LENGTH	NUM	2	MEAN	0.191	S. D.	0.010	LOW	0.184	HIGH	0.198					
WEIGHT	NUM	2	MEAN	0.162	S. D.	0.009	LOW	0.155	HIGH	0.168					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.070	0.500	0.070	1.800	0.495	0.030	0.095	0.435	3.78	0.190	0.000	0.000	0.170	0.850	0.410
S. D.	0.000	0.269	0.014	0.919	0.078	0.000	0.049	0.177	0.04	0.042	0.000	0.000	0.000	0.000	0.042
LOW	0.000	0.310	0.060	1.150	0.440	0.030	0.060	0.310	3.75	0.160	0.000	0.000	0.170	0.000	0.380
HIGH	0.070	0.690	0.080	2.450	0.550	0.030	0.130	0.560	3.81	0.220	0.000	0.000	0.170	0.850	0.440

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- M9 MUSCLE

LENGTH	NUM	1	MEAN	0.178	S. D.	0.000	LOW	0.178	HIGH	0.178					
WEIGHT	NUM	1	MEAN	0.136	S. D.	0.000	LOW	0.136	HIGH	0.136					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.040	0.905	0.085	2.113	0.595	0.045	0.275	0.450	3.44	0.305	0.130	0.000	0.315	0.000	0.425
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.905	0.085	2.113	0.595	0.045	0.275	0.450	3.44	0.305	0.130	0.000	0.315	0.000	0.425

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- N1 MUSCLE

LENGTH	NUM	1	MEAN	0.184	S. D.	0.000	LOW	0.184	HIGH	0.184					
WEIGHT	NUM	1	MEAN	0.164	S. D.	0.000	LOW	0.164	HIGH	0.164					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.000	0.440	0.070	1.550	0.710	0.030	0.190	0.500	3.81	0.210	0.000	0.000	0.300	0.000	0.440
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.440	0.070	1.550	0.710	0.030	0.190	0.500	3.81	0.210	0.000	0.000	0.300	0.000	0.440

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- N3 MUSCLE

LENGTH	NUM	7	MEAN	0.175	S. D.	0.017	LOW	0.150	HIGH	0.206					
WEIGHT	NUM	11	MEAN	0.124	S. D.	0.044	LOW	0.054	HIGH	0.194					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0010	0011	0011
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0002	0000
MEAN	0.058	0.418	0.063	2.911	0.732	0.043	0.151	0.629	3.93	0.255	0.210	0.437	0.255	0.733	0.716
S. D.	0.031	0.210	0.016	1.734	0.231	0.008	0.084	0.257	1.49	0.101	0.147	0.134	0.083	0.276	0.184
LOW	0.020	0.190	0.040	1.440	0.420	0.030	0.060	0.205	1.13	0.090	0.120	0.340	0.150	0.440	0.500
HIGH	0.110	0.845	0.085	7.520	1.050	0.060	0.310	1.000	6.50	0.430	0.380	0.590	0.395	1.310	1.130

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- N4 MUSCLE

LENGTH	NUM	2	MEAN	0.168	S. D.	0.008	LOW	0.162	HIGH	0.174					
WEIGHT	NUM	2	MEAN	0.116	S. D.	0.022	LOW	0.100	HIGH	0.131					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.055	0.315	0.050	2.425	0.550	0.040	0.130	0.245	3.75	0.125	0.000	0.000	0.155	0.000	0.395
S. D.	0.007	0.092	0.028	1.308	0.071	0.000	0.000	0.177	0.00	0.092	0.000	0.000	0.078	0.000	0.021
LOW	0.050	0.250	0.030	1.500	0.500	0.000	0.000	0.120	0.00	0.060	0.000	0.000	0.100	0.000	0.380
HIGH	0.060	0.380	0.070	3.350	0.600	0.040	0.130	0.370	3.75	0.190	0.000	0.000	0.210	0.000	0.410

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- N7 MUSCLE

LENGTH	NUM	1	MEAN	0.144	S. D.	0.000	LOW	0.144	HIGH	0.144					
WEIGHT	NUM	1	MEAN	0.077	S. D.	0.000	LOW	0.077	HIGH	0.077					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.025	0.410	0.080	0.720	0.795	0.040	0.125	0.310	3.31	0.260	0.000	0.000	0.200	0.000	0.545
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.025	0.410	0.080	0.720	0.795	0.040	0.125	0.310	3.31	0.260	0.000	0.000	0.200	0.000	0.545

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- O1 MUSCLE

LENGTH	NUM	6	MEAN	0.187	S. D.	0.029	LOW	0.132	HIGH	0.214					
WEIGHT	NUM	6	MEAN	0.161	S. D.	0.045	LOW	0.095	HIGH	0.226					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0004	0000	0001	0000
MEAN	0.043	0.554	0.089	2.594	0.347	0.049	0.170	0.458	4.37	0.239	0.000	0.285	0.200	0.612	0.742
S. D.	0.021	0.316	0.041	1.439	0.219	0.015	0.095	0.270	1.59	0.113	0.000	0.134	0.070	0.214	0.254
LOW	0.020	0.130	0.020	0.960	0.060	0.035	0.080	0.230	2.06	0.030	0.000	0.190	0.110	0.310	0.380
HIGH	0.060	1.005	0.145	4.576	0.600	0.075	0.345	0.810	6.78	0.370	0.000	0.380	0.300	0.810	1.000

SCUP STENOTOMUS CHRYSOPS 114016 AREA- NORTH ATLANTIC SITE- O2 MUSCLE

LENGTH	NUM	5	MEAN	0.192	S. D.	0.008	LOW	0.185	HIGH	0.202					
WEIGHT	NUM	5	MEAN	0.165	S. D.	0.020	LOW	0.148	HIGH	0.190					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0004	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0001	0000
MEAN	0.105	0.484	0.081	2.556	0.611	0.045	0.218	0.401	4.09	0.223	0.000	0.000	0.245	0.815	0.697
S. D.	0.084	0.159	0.025	1.570	0.172	0.011	0.141	0.173	1.27	0.084	0.000	0.000	0.177	0.166	0.266
LOW	0.020	0.360	0.060	0.490	0.430	0.030	0.060	0.190	3.00	0.130	0.000	0.000	0.140	0.630	0.440
HIGH	0.220	0.750	0.120	4.600	0.880	0.060	0.440	0.545	6.25	0.320	0.000	0.000	0.560	0.970	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- R2 — MUSCLE

LENGTH	NUM	5	MEAN	0.341	S. D.	0.029	LOW	0.305	HIGH	0.375					
WEIGHT	NUM	5	MEAN	0.848	S. D.	0.123	LOW	0.678	HIGH	0.983					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0003
N DET.	0000	0001	0002	0000	0000	0003	0000	0000	0000	0001	0005	0004	0000	0002	0000
MEAN	0.187	0.444	0.050	7.708	0.671	0.040	0.304	0.303	2.89	0.208	0.000	0.500	0.116	1.317	0.622
S. D.	0.085	0.098	0.017	3.222	0.250	0.014	0.231	0.070	0.34	0.086	0.000	0.000	0.044	0.273	0.552
LOW	0.050	0.340	0.040	2.800	0.370	0.030	0.100	0.215	2.37	0.140	0.000	0.000	0.070	1.130	0.215
HIGH	0.280	0.550	0.070	11.000	0.980	0.050	0.665	0.410	3.27	0.320	0.000	0.500	0.170	1.630	1.250

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- R3 — MUSCLE

LENGTH	NUM	5	MEAN	0.168	S. D.	0.032	LOW	0.151	HIGH	0.226					
WEIGHT	NUM	5	MEAN	0.133	S. D.	0.078	LOW	0.093	HIGH	0.273					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0003	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0001	0000	0004	0000
MEAN	0.025	0.445	0.076	2.144	0.476	0.045	0.238	0.396	3.67	0.275	0.180	0.330	0.227	0.630	0.640
S. D.	0.007	0.090	0.020	0.967	0.306	0.011	0.107	0.085	0.59	0.030	0.000	0.209	0.038	0.000	0.309
LOW	0.020	0.345	0.040	0.675	0.050	0.030	0.130	0.275	3.07	0.240	0.000	0.160	0.170	0.000	0.390
HIGH	0.030	0.565	0.090	2.976	0.865	0.060	0.380	0.470	4.56	0.300	0.180	0.630	0.265	0.630	1.160

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	2	MEAN	0.167	S. D.	0.004	LOW	0.164	HIGH	0.170					
WEIGHT	NUM	2	MEAN	0.086	S. D.	0.002	LOW	0.084	HIGH	0.087					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000
MEAN	0.000	0.628	0.088	3.538	0.448	0.050	0.185	0.418	4.44	0.265	0.000	0.285	0.403	1.235	0.595
S. D.	0.000	0.004	0.011	0.336	0.209	0.000	0.007	0.117	0.70	0.007	0.000	0.134	0.032	0.021	0.049
LOW	0.000	0.625	0.080	3.300	0.300	0.050	0.180	0.335	3.94	0.260	0.000	0.190	0.380	1.220	0.560
HIGH	0.000	0.630	0.095	3.775	0.596	0.050	0.190	0.500	4.93	0.270	0.000	0.380	0.425	1.250	0.630

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- SOUTH ATLANTIC — SITE- B5 — MUSCLE

LENGTH	NUM	2	MEAN	0.163	S. D.	0.000	LOW	0.163	HIGH	0.163					
WEIGHT	NUM	2	MEAN	0.096	S. D.	0.002	LOW	0.094	HIGH	0.097					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.060	0.465	0.140	14.855	1.005	0.000	0.290	0.430	3.57	0.320	0.000	0.000	0.215	0.450	0.475
S. D.	0.042	0.163	0.000	4.943	0.304	0.000	0.269	0.099	0.51	0.255	0.000	0.000	0.049	0.000	0.106
LOW	0.030	0.350	0.000	11.360	0.790	0.000	0.100	0.360	3.21	0.140	0.000	0.000	0.180	0.000	0.400
HIGH	0.090	0.580	0.140	18.350	1.220	0.000	0.480	0.500	3.93	0.500	0.000	0.000	0.250	0.450	0.550

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- SOUTH ATLANTIC — SITE- B6 — MUSCLE

LENGTH	NUM	2	MEAN	0.157	S. D.	0.017	LOW	0.145	HIGH	0.169					
WEIGHT	NUM	2	MEAN	0.083	S. D.	0.021	LOW	0.068	HIGH	0.097					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.285	0.495	0.055	4.304	0.752	0.048	0.228	0.435	3.57	0.188	0.158	0.540	0.238	1.063	0.975
S. D.	0.332	0.262	0.021	0.719	0.083	0.004	0.124	0.078	0.52	0.053	0.152	0.552	0.018	0.265	0.035
LOW	0.050	0.310	0.040	3.795	0.693	0.045	0.140	0.380	3.20	0.150	0.050	0.150	0.225	0.875	0.950
HIGH	0.520	0.680	0.070	4.812	0.810	0.050	0.315	0.490	3.94	0.225	0.265	0.930	0.250	1.250	1.000

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- SOUTH ATLANTIC — SITE- B8 — MUSCLE

LENGTH	NUM	2	MEAN	0.169	S. D.	0.011	LOW	0.161	HIGH	0.176					
WEIGHT	NUM	2	MEAN	0.100	S. D.	0.016	LOW	0.088	HIGH	0.111					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.090	0.924	0.110	13.208	0.798	0.000	0.278	0.523	3.87	0.303	0.000	0.000	0.270	1.468	0.600
S. D.	0.021	0.072	0.000	4.876	0.209	0.000	0.054	0.110	1.61	0.025	0.000	0.000	0.007	0.753	0.000
LOW	0.075	0.873	0.000	9.760	0.650	0.000	0.240	0.445	2.73	0.285	0.000	0.000	0.265	0.935	0.600
HIGH	0.105	0.975	0.110	16.655	0.945	0.000	0.316	0.600	5.00	0.320	0.000	0.000	0.275	2.000	0.600

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	2	MEAN	0.209	S. D.	0.021	LOW	0.194	HIGH	0.224					
WEIGHT	NUM	2	MEAN	0.214	S. D.	0.088	LOW	0.152	HIGH	0.276					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.175	0.590	0.048	6.383	0.698	0.070	0.150	0.170	3.96	0.290	0.870	0.200	0.148	1.298	0.855
S. D.	0.064	0.014	0.011	0.448	0.074	0.000	0.071	0.113	0.54	0.099	0.000	0.000	0.011	0.067	0.276
LOW	0.130	0.580	0.040	6.066	0.645	0.000	0.100	0.090	3.57	0.220	0.000	0.000	0.140	1.250	0.660
HIGH	0.220	0.600	0.055	6.700	0.750	0.070	0.200	0.250	4.34	0.360	0.870	0.200	0.155	1.345	1.050

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SCUP — STENOTOMUS CHRYSOPS — 114016 — AREA- SOUTH ATLANTIC — SITE- G1 — MUSCLE

LENGTH	NUM	1	MEAN	0.114	S. D.	0.000	LOW	0.114	HIGH	0.114					
WEIGHT	NUM	1	MEAN	0.032	S. D.	0.000	LOW	0.032	HIGH	0.032					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.040	0.430	0.075	14.620	1.455	0.090	0.260	0.410	5.38	0.410	0.060	0.000	0.315	0.500	0.695
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.430	0.075	14.620	1.455	0.090	0.260	0.410	5.38	0.410	0.060	0.000	0.315	0.500	0.695

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- CALIFORNIA — SITE- B5 — MUSCLE

LENGTH	NUM	10	MEAN	0.631	S. D.	0.048	LOW	0.569	HIGH	0.711					
WEIGHT	NUM	10	MEAN	2.211	S. D.	0.646	LOW	1.559	HIGH	3.402					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0008
N DET.	0000	0002	0003	0000	0001	0004	0002	0001	0000	0003	0007	0008	0000	0004	0000
MEAN	0.291	0.328	0.118	3.636	0.514	0.025	0.188	0.243	2.26	0.343	0.457	0.520	0.101	0.668	0.586
S. D.	0.115	0.230	0.111	1.761	0.223	0.014	0.151	0.142	0.89	0.185	0.405	0.368	0.073	0.226	0.435
LOW	0.090	0.060	0.030	1.350	0.250	0.010	0.070	0.085	0.71	0.170	0.060	0.260	0.030	0.400	0.300
HIGH	0.420	0.727	0.340	7.050	0.880	0.040	0.500	0.580	3.57	0.660	0.870	0.780	0.250	1.000	1.600

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- CALIFORNIA — SITE- B8 — MUSCLE

LENGTH	NUM	10	MEAN	0.579	S. D.	0.024	LOW	0.541	HIGH	0.610					
WEIGHT	NUM	10	MEAN	1.568	S. D.	0.181	LOW	1.247	HIGH	1.843					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0003	0000	0000	0005	0000	0000	0000	0001	0010	0010	0001	0003	0000
MEAN	0.078	0.460	0.088	2.943	0.370	0.050	0.147	0.246	3.36	0.286	0.000	0.000	0.127	0.636	0.524
S. D.	0.035	0.304	0.023	1.290	0.117	0.024	0.098	0.059	1.07	0.133	0.000	0.000	0.059	0.205	0.095
LOW	0.040	0.080	0.070	1.746	0.160	0.030	0.060	0.180	2.51	0.110	0.000	0.000	0.030	0.330	0.400
HIGH	0.130	1.085	0.125	5.100	0.505	0.082	0.330	0.370	6.30	0.440	0.000	0.000	0.220	0.940	0.675

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- CALIFORNIA — SITE- F8 — MUSCLE

LENGTH	NUM	10	MEAN	0.714	S. D.	0.035	LOW	0.657	HIGH	0.780					
WEIGHT	NUM	10	MEAN	3.297	S. D.	0.455	LOW	2.608	HIGH	4.082					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0006	0000	0000	0008	0000	0000	0000	0005	0009	0009	0001	0000	0000
MEAN	0.472	0.341	0.084	6.323	0.532	0.118	0.166	0.147	2.76	0.174	0.870	0.120	0.060	0.384	0.489
S. D.	0.121	0.219	0.052	3.446	0.329	0.011	0.145	0.053	1.11	0.103	0.000	0.000	0.027	0.254	0.417
LOW	0.230	0.100	0.040	3.150	0.150	0.110	0.040	0.085	1.80	0.070	0.000	0.000	0.035	0.120	0.180
HIGH	0.670	0.863	0.145	12.400	1.410	0.125	0.486	0.250	5.47	0.310	0.870	0.120	0.100	0.940	1.560

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- CALIFORNIA — SITE- F8 — LIVER

LENGTH	NUM	1	MEAN	0.750	S. D.	0.000	LOW	0.750	HIGH	0.750					
WEIGHT	NUM	1	MEAN	3.686	S. D.	0.000	LOW	3.686	HIGH	3.686					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.000	0.560	2.310	0.000	0.000	0.040	0.910	6.560	27.25	0.200	0.000	0.000	0.340	0.440	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.000	0.560	2.310	0.000	0.000	0.040	0.910	6.560	27.25	0.200	0.000	0.000	0.340	0.440	0.220

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- CALIFORNIA — SITE- K3 — MUSCLE

LENGTH	NUM	10	MEAN	0.642	S. D.	0.055	LOW	0.577	HIGH	0.750					
WEIGHT	NUM	10	MEAN	3.125	S. D.	0.993	LOW	2.080	HIGH	5.670					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0001	0002	0001	0000	0006	0000	0000	0000	0001	0008	0006	0000	0002	0000
MEAN	0.480	0.710	0.075	4.479	0.579	0.034	0.171	0.230	4.49	0.212	0.250	0.370	0.145	0.781	0.623
S. D.	0.131	0.670	0.037	1.973	0.140	0.021	0.083	0.098	2.37	0.147	0.042	0.289	0.081	0.388	0.356
LOW	0.240	0.175	0.020	1.790	0.340	0.020	0.050	0.125	1.81	0.030	0.220	0.200	0.030	0.250	0.330
HIGH	0.660	2.130	0.140	7.333	0.760	0.065	0.313	0.430	9.06	0.430	0.280	0.800	0.280	1.440	1.500

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- CALIFORNIA — SITE- K3 — LIVER

LENGTH	NUM	1	MEAN	0.641	S. D.	0.000	LOW	0.641	HIGH	0.641					
WEIGHT	NUM	1	MEAN	3.125	S. D.	0.000	LOW	3.125	HIGH	3.125					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	3.880	0.432	7.250	6.450	1.795	0.180	0.113	8.395	26.82	0.535	0.080	2.615	0.535	0.685	0.365
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	3.880	0.432	7.250	6.450	1.795	0.180	0.113	8.395	26.82	0.535	0.080	2.615	0.535	0.685	0.365

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- G9 MUSCLE

LENGTH	NUM	6	MEAN	0.513	S. D.	0.034	LOW	0.470	HIGH	0.550					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0003	0000	0000	0003	0000	0000	0000	0002	0005	0006	0001	0001	0000
MEAN	0.079	0.298	0.047	2.257	0.451	0.027	0.118	0.252	3.08	0.358	0.100	0.000	0.076	1.091	0.410
S. D.	0.062	0.165	0.021	1.417	0.173	0.015	0.086	0.094	0.80	0.150	0.000	0.000	0.011	0.833	0.145
LOW	0.040	0.150	0.030	0.200	0.305	0.010	0.040	0.140	2.50	0.205	0.000	0.000	0.060	0.345	0.210
HIGH	0.170	0.610	0.070	4.100	0.770	0.040	0.245	0.390	4.62	0.540	0.100	0.000	0.090	2.500	0.630

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- G9 LIVER

LENGTH	NUM	1	MEAN	0.525	S. D.	0.000	LOW	0.525	HIGH	0.525					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.035	0.496	0.780	2.580	1.570	0.070	0.265	2.280	18.94	0.785	0.195	0.000	1.130	0.320	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.035	0.496	0.780	2.580	1.570	0.070	0.265	2.280	18.94	0.785	0.195	0.000	1.130	0.320	0.400

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- H7 MUSCLE

LENGTH	NUM	4	MEAN	0.544	S. D.	0.073	LOW	0.485	HIGH	0.650					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0001	0000	0001	0001	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.017	0.358	0.092	3.072	0.483	0.030	0.250	0.290	3.53	0.121	0.240	0.700	0.076	0.758	0.478
S. D.	0.006	0.220	0.078	1.108	0.329	0.017	0.117	0.055	0.53	0.071	0.156	0.000	0.024	0.345	0.134
LOW	0.010	0.150	0.035	2.295	0.250	0.010	0.110	0.230	2.77	0.052	0.130	0.000	0.045	0.400	0.345
HIGH	0.020	0.555	0.180	4.340	0.715	0.040	0.370	0.360	4.00	0.220	0.350	0.700	0.100	1.215	0.665

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- I7 MUSCLE

LENGTH	NUM	1	MEAN	0.505	S. D.	0.000	LOW	0.505	HIGH	0.505					
WEIGHT	NUM	1	MEAN	1.020	S. D.	0.000	LOW	1.020	HIGH	1.020					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.120	0.210	0.050	3.560	0.655	0.026	0.403	0.190	2.43	0.183	0.060	0.130	0.130	0.440	0.523
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	0.210	0.050	3.560	0.655	0.026	0.403	0.190	2.43	0.183	0.060	0.130	0.130	0.440	0.523

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- M1 MUSCLE

LENGTH	NUM	8	MEAN	0.609	S. D.	0.085	LOW	0.450	HIGH	0.700					
WEIGHT	NUM	3	MEAN	3.782	S. D.	0.260	LOW	3.632	HIGH	4.082					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0007
N DET.	0000	0000	0003	0000	0000	0004	0000	0000	0000	0002	0006	0007	0000	0001	0000
MEAN	0.114	0.370	0.091	2.778	0.427	0.034	0.318	0.230	3.78	0.322	0.210	0.800	0.129	0.474	0.412
S. D.	0.086	0.200	0.038	1.530	0.130	0.007	0.299	0.054	0.71	0.112	0.226	0.000	0.087	0.280	0.137
LOW	0.030	0.145	0.050	0.550	0.326	0.025	0.050	0.165	2.73	0.195	0.050	0.000	0.040	0.150	0.180
HIGH	0.270	0.650	0.140	4.960	0.740	0.040	0.950	0.305	5.00	0.485	0.370	0.800	0.290	1.010	0.566

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- M1 LIVER

LENGTH	NUM	1	MEAN	0.545	S. D.	0.000	LOW	0.545	HIGH	0.545					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0000	0001	0000	0001	0000
MEAN	0.140	0.300	1.750	2.240	2.330	0.000	0.050	5.110	21.43	0.000	0.200	0.000	1.210	0.000	0.350
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.140	0.300	1.750	2.240	2.330	0.000	0.050	5.110	21.43	0.000	0.200	0.000	1.210	0.000	0.350

SABLEFISH ANOPLOPOMA FIMBRIA 126001 AREA- PACIFIC NORTHWEST SITE- M5 MUSCLE

LENGTH	NUM	5	MEAN	0.512	S. D.	0.164	LOW	0.390	HIGH	0.790					
WEIGHT	NUM	1	MEAN	1.816	S. D.	0.000	LOW	1.816	HIGH	1.816					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0004	0000	0000	0000
MEAN	0.206	0.379	0.087	2.405	0.825	0.054	0.302	0.302	4.39	0.313	0.265	0.630	0.160	0.545	0.517
S. D.	0.166	0.136	0.037	1.247	0.354	0.047	0.148	0.205	1.35	0.250	0.064	0.000	0.070	0.236	0.182
LOW	0.040	0.250	0.050	1.160	0.493	0.020	0.160	0.070	3.05	0.070	0.220	0.000	0.120	0.250	0.250
HIGH	0.440	0.570	0.140	3.880	1.260	0.130	0.520	0.620	6.57	0.660	0.310	0.630	0.285	0.816	0.733

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	10	MEAN	0.856	S. D.	0.057	LOW 0.710 HIGH 0.910
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0003	0000	0001	0000	0000	0005	0006	0000	0002	0000
MEAN	0.480	0.389	0.072	2.603	0.487	0.037	0.216	0.149	2.44	0.204	0.276	0.303	0.101	0.704	0.452
S. D.	0.125	0.192	0.037	1.180	0.186	0.032	0.088	0.082	0.89	0.097	0.340	0.223	0.056	0.331	0.128
LOW	0.335	0.120	0.040	1.263	0.290	0.010	0.080	0.035	1.55	0.020	0.050	0.110	0.040	0.150	0.310
HIGH	0.700	0.650	0.145	4.850	0.860	0.100	0.350	0.270	3.93	0.320	0.870	0.620	0.210	1.120	0.625

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- PACIFIC NORTHWEST — SITE- M8 — LIVER

LENGTH	NUM	1	MEAN	0.850	S. D.	0.000	LOW 0.850 HIGH 0.850
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0001	0001	0000	0001	0000
MEAN	1.350	0.150	5.530	5.400	1.740	0.000	1.455	2.890	20.00	0.000	0.000	0.000	1.570	0.000	0.300
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.350	0.150	5.530	5.400	1.740	0.000	1.455	2.890	20.00	0.000	0.000	0.000	1.570	0.000	0.300

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	8	MEAN	0.515	S. D.	0.034	LOW 0.475 HIGH 0.580
WEIGHT	NUM	6	MEAN	1.153	S. D.	0.231	LOW 0.908 HIGH 1.588

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0001	0000	0000	0006	0001	0000	0000	0000	0007	0007	0001	0002	0000
MEAN	0.220	0.251	0.062	3.987	0.440	0.033	0.193	0.260	3.47	0.331	0.720	0.370	0.149	0.796	0.568
S. D.	0.063	0.084	0.027	2.146	0.227	0.012	0.110	0.053	0.58	0.141	0.000	0.354	0.048	0.364	0.218
LOW	0.170	0.150	0.030	1.300	0.185	0.020	0.040	0.155	2.46	0.130	0.720	0.120	0.070	0.400	0.300
HIGH	0.330	0.405	0.110	8.200	0.985	0.040	0.403	0.355	4.27	0.570	0.720	0.620	0.210	1.280	1.000

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- PACIFIC NORTHWEST — SITE- N1 — LIVER

LENGTH	NUM	1	MEAN	0.510	S. D.	0.000	LOW 0.510 HIGH 0.510
WEIGHT	NUM	1	MEAN	1.179	S. D.	0.000	LOW 1.179 HIGH 1.179

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.410	0.380	0.540	11.240	1.470	0.290	0.155	10.500	24.29	0.540	0.130	0.000	1.290	0.000	0.300
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.410	0.380	0.540	11.240	1.470	0.290	0.155	10.500	24.29	0.540	0.130	0.000	1.290	0.000	0.300

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- ALASKA — SITE- N6 — MUSCLE

LENGTH	NUM	10	MEAN	0.620	S. D.	0.088	LOW 0.480 HIGH 0.775
WEIGHT	NUM	10	MEAN	2.696	S. D.	1.279	LOW 0.907 HIGH 5.663

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0006	0000	0001	0000
MEAN	0.139	0.690	0.051	1.992	0.364	0.033	0.270	0.180	3.54	0.153	0.225	0.368	0.123	0.656	0.585
S. D.	0.056	0.241	0.013	0.736	0.126	0.010	0.165	0.091	1.02	0.054	0.247	0.177	0.048	0.206	0.217
LOW	0.060	0.260	0.035	0.700	0.190	0.020	0.130	0.040	2.53	0.060	0.060	0.250	0.060	0.265	0.250
HIGH	0.240	1.095	0.070	3.247	0.593	0.050	0.600	0.335	6.00	0.235	0.590	0.630	0.190	1.000	1.045

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- ALASKA — SITE- N6 — LIVER

LENGTH	NUM	8	MEAN	0.625	S. D.	0.097	LOW 0.480 HIGH 0.775
WEIGHT	NUM	8	MEAN	2.747	S. D.	1.440	LOW 0.907 HIGH 5.663

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0007	0007	0006	0003	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0001	0005	0005	0000	0001	0000
MEAN	0.210	0.421	2.097	2.045	1.477	0.034	0.093	1.223	13.65	0.175	0.125	0.345	0.599	0.637	0.486
S. D.	0.106	0.277	1.404	0.982	0.178	0.009	0.047	0.628	6.61	0.074	0.092	0.049	0.418	0.242	0.172
LOW	0.100	0.060	0.150	1.150	1.350	0.020	0.020	0.060	0.69	0.080	0.060	0.310	0.060	0.310	0.190
HIGH	0.430	0.750	4.120	3.822	1.680	0.040	0.130	2.000	19.37	0.290	0.190	0.380	1.340	1.000	0.750

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- ALASKA — SITE- R1 — MUSCLE

LENGTH	NUM	10	MEAN	0.635	S. D.	0.020	LOW 0.610 HIGH 0.676
WEIGHT	NUM	10	MEAN	2.815	S. D.	0.206	LOW 2.497 HIGH 3.178

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0001	0000	0000	0001	0001	0001	0000	0000	0007	0007	0000	0000	0000
MEAN	0.119	0.319	0.054	2.198	0.444	0.020	0.192	0.239	2.70	0.131	0.265	0.663	0.076	0.498	0.514
S. D.	0.137	0.076	0.027	0.930	0.255	0.009	0.053	0.063	0.39	0.048	0.316	0.321	0.024	0.239	0.149
LOW	0.020	0.190	0.025	0.466	0.100	0.010	0.095	0.120	1.87	0.060	0.075	0.360	0.050	0.220	0.310
HIGH	0.470	0.440	0.120	3.725	1.050	0.030	0.250	0.310	3.25	0.210	0.630	1.000	0.130	0.940	0.780

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SABLEFISH — ANOPLOPOMA FIMBRIA — 126001 — AREA- ALASKA — SITE- R1 — LIVER

LENGTH	NUM	1	MEAN	0.635	S. D.	0.000	LOW	0.635	HIGH	0.635					
WEIGHT	NUM	1	MEAN	2.815	S. D.	0.000	LOW	2.815	HIGH	2.815					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.105	0.315	1.010	1.825	1.195	0.030	0.595	0.440	30.16	0.185	0.190	0.380	0.420	0.250	0.345
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.105	0.315	1.010	1.825	1.195	0.030	0.595	0.440	30.16	0.185	0.190	0.380	0.420	0.250	0.345

PERCH, OCEAN (PAC.) — SEBASTES ALUTUS — 131023 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM	10	MEAN	0.353	S. D.	0.003	LOW	0.350	HIGH	0.355					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0007	0001	0005	0000	0000	0006	0002	0000	0000	0003	0010	0010	0002	0002	0000
MEAN	0.040	0.379	0.076	2.878	0.896	0.043	0.179	0.228	3.80	0.400	0.000	0.000	0.132	0.646	0.507
S. D.	0.017	0.196	0.036	1.645	0.212	0.005	0.098	0.075	0.69	0.170	0.000	0.000	0.032	0.376	0.211
LOW	0.020	0.120	0.050	0.200	0.650	0.040	0.050	0.120	2.86	0.260	0.000	0.000	0.070	0.250	0.190
HIGH	0.050	0.835	0.140	5.600	1.240	0.050	0.317	0.355	5.00	0.770	0.000	0.000	0.160	1.130	0.840

PERCH, OCEAN (PAC.) — SEBASTES ALUTUS — 131023 — AREA- PACIFIC NORTHWEST — SITE- G9 — LIVER

LENGTH	NUM	10	MEAN	0.353	S. D.	0.003	LOW	0.350	HIGH	0.355					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0008
N DET.	0008	0000	0000	0000	0000	0004	0001	0000	0000	0000	0003	0006	0000	0003	0000
MEAN	0.010	0.309	0.855	2.362	2.527	0.048	0.156	2.134	36.33	0.260	0.251	0.125	0.661	0.588	0.420
S. D.	0.000	0.153	0.157	1.302	1.057	0.046	0.094	0.790	23.13	0.074	0.283	0.006	0.228	0.486	0.267
LOW	0.000	0.100	0.640	0.500	0.280	0.020	0.040	1.070	15.00	0.170	0.050	0.120	0.320	0.190	0.180
HIGH	0.010	0.560	1.180	4.550	4.000	0.140	0.265	3.310	96.87	0.380	0.870	0.130	1.000	1.370	0.810

PERCH, OCEAN (PAC.) — SEBASTES ALUTUS — 131023 — AREA- PACIFIC NORTHWEST — SITE- M1 — MUSCLE

LENGTH	NUM	10	MEAN	0.379	S. D.	0.011	LOW	0.365	HIGH	0.400					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0001	0003	0000	0000	0005	0000	0000	0000	0002	0008	0010	0000	0004	0000
MEAN	0.053	0.506	0.081	3.464	1.028	0.037	0.246	0.185	3.32	0.326	0.188	0.000	0.101	0.798	0.606
S. D.	0.023	0.259	0.031	1.874	0.310	0.007	0.343	0.064	0.86	0.226	0.230	0.000	0.040	0.449	0.176
LOW	0.020	0.300	0.045	0.400	0.555	0.030	0.040	0.070	1.89	0.070	0.025	0.000	0.040	0.260	0.350
HIGH	0.080	0.950	0.130	6.550	1.615	0.045	1.200	0.300	4.44	0.820	0.350	0.000	0.180	1.250	0.850

PERCH, OCEAN (PAC.) — SEBASTES ALUTUS — 131023 — AREA- PACIFIC NORTHWEST — SITE- M1 — LIVER

LENGTH	NUM	8	MEAN	0.378	S. D.	0.012	LOW	0.365	HIGH	0.400					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0007
N DET.	0004	0000	0000	0000	0000	0007	0000	0000	0000	0002	0000	0002	0000	0001	0000
MEAN	0.030	0.365	1.466	2.462	3.075	0.020	0.173	3.471	41.42	0.264	0.180	0.255	0.738	0.586	0.319
S. D.	0.008	0.223	0.312	0.683	0.733	0.000	0.127	1.736	9.42	0.109	0.113	0.142	0.151	0.439	0.238
LOW	0.020	0.020	0.970	1.360	2.340	0.000	0.100	1.690	29.63	0.060	0.070	0.090	0.520	0.120	0.100
HIGH	0.040	0.690	1.780	3.420	4.450	0.020	0.480	7.120	58.12	0.370	0.440	0.440	1.000	1.440	0.810

PERCH, OCEAN (PAC.) — SEBASTES ALUTUS — 131023 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	10	MEAN	0.365	S. D.	0.000	LOW	0.365	HIGH	0.365					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0001	0000	0000	0000	0003	0001	0000	0000	0002	0006	0007	0001	0002	0000
MEAN	0.074	0.403	0.075	4.972	0.806	0.040	0.198	0.228	3.97	0.284	0.175	0.297	0.121	0.549	0.491
S. D.	0.043	0.163	0.052	2.373	0.079	0.010	0.107	0.076	0.57	0.176	0.131	0.015	0.045	0.237	0.180
LOW	0.030	0.225	0.030	1.553	0.680	0.030	0.085	0.110	2.86	0.110	0.060	0.280	0.070	0.185	0.250
HIGH	0.150	0.680	0.180	8.200	0.905	0.060	0.405	0.360	4.96	0.680	0.350	0.310	0.210	0.940	0.850

ROCKFISH, COPPER — SEBASTES CAURINUS — 131031 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	10	MEAN	0.454	S. D.	0.013	LOW	0.450	HIGH	0.490					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0008	0008	0000	0000	0000
MEAN	0.283	0.501	0.076	2.110	0.733	0.045	0.162	0.241	2.97	0.238	0.250	0.188	0.108	0.728	0.561
S. D.	0.060	0.294	0.037	0.966	0.314	0.019	0.080	0.098	0.51	0.097	0.385	0.180	0.028	0.145	0.184
LOW	0.210	0.190	0.030	0.825	0.270	0.010	0.060	0.060	2.19	0.130	0.190	0.060	0.060	0.440	0.250
HIGH	0.390	1.000	0.140	3.610	1.240	0.080	0.310	0.375	3.81	0.485	0.310	0.315	0.155	0.905	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

ROCKFISH, YELLOWTAIL SEBASTES FLAVIDUS 131043 AREA- PACIFIC NORTHWEST SITE- M2 MUSCLE

LENGTH	NUM	4	MEAN	0.479	S. D.	0.021	LOW	0.465	HIGH	0.510					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0003	0000	0000	0000	0001	0004	0004	0000	0002	0000
MEAN	0.154	0.382	0.060	3.693	0.938	0.030	0.109	0.278	5.87	0.393	0.000	0.000	0.146	0.430	0.448
S. D.	0.051	0.050	0.026	2.368	0.224	0.000	0.051	0.052	2.68	0.251	0.000	0.000	0.084	0.212	0.100
LOW	0.100	0.320	0.040	1.310	0.780	0.000	0.040	0.210	2.88	0.215	0.000	0.000	0.075	0.280	0.300
HIGH	0.220	0.443	0.090	6.600	1.270	0.030	0.153	0.336	8.57	0.680	0.000	0.000	0.250	0.580	0.520

ROCKFISH, YELLOWTAIL SEBASTES FLAVIDUS 131043 AREA- PACIFIC NORTHWEST SITE- M5 MUSCLE

LENGTH	NUM	16	MEAN	0.477	S. D.	0.014	LOW	0.460	HIGH	0.500					
WEIGHT	NUM	9	MEAN	1.664	S. D.	0.227	LOW	1.588	HIGH	2.268					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0000	0001	0009	0001	0000	0012	0001	0000	0000	0003	0013	0014	0000	0003	0000
MEAN	0.209	0.386	0.056	2.478	0.944	0.046	0.245	0.271	3.77	0.278	0.253	0.775	0.089	0.694	0.523
S. D.	0.076	0.201	0.040	1.120	0.303	0.039	0.149	0.074	0.83	0.139	0.167	0.672	0.027	0.594	0.282
LOW	0.090	0.150	0.030	0.800	0.490	0.015	0.070	0.180	2.29	0.110	0.060	0.300	0.055	0.060	0.200
HIGH	0.400	0.750	0.140	5.240	1.600	0.100	0.700	0.420	5.01	0.580	0.350	1.250	0.140	2.100	1.100

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- E9 MUSCLE

LENGTH	NUM	22	MEAN	0.348	S. D.	0.033	LOW	0.266	HIGH	0.400					
WEIGHT	NUM	22	MEAN	0.933	S. D.	0.331	LOW	0.454	HIGH	1.530					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022
N DET.	0002	0000	0000	0001	0000	0003	0004	0000	0000	0000	0018	0020	0000	0000	0000
MEAN	0.097	0.380	0.054	2.558	0.909	0.027	0.182	0.224	3.20	0.188	0.239	0.125	0.089	0.510	0.448
S. D.	0.052	0.144	0.026	1.128	0.314	0.011	0.175	0.061	0.50	0.073	0.219	0.007	0.015	0.147	0.145
LOW	0.020	0.190	0.030	0.303	0.350	0.010	0.060	0.110	1.94	0.060	0.075	0.120	0.060	0.310	0.130
HIGH	0.210	0.660	0.155	4.600	1.450	0.040	0.810	0.345	3.94	0.400	0.560	0.130	0.115	0.860	0.755

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- I6 MUSCLE

LENGTH	NUM	5	MEAN	0.298	S. D.	0.017	LOW	0.278	HIGH	0.317					
WEIGHT	NUM	5	MEAN	0.493	S. D.	0.082	LOW	0.397	HIGH	0.587					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.069	0.389	0.065	2.815	1.126	0.050	0.271	0.236	4.12	0.217	0.120	0.400	0.237	0.919	0.681
S. D.	0.040	0.093	0.029	1.409	1.008	0.010	0.186	0.121	0.57	0.081	0.049	0.167	0.198	0.119	0.196
LOW	0.030	0.250	0.030	0.900	0.500	0.040	0.122	0.030	3.19	0.150	0.060	0.260	0.125	0.750	0.500
HIGH	0.130	0.440	0.110	4.700	2.890	0.060	0.530	0.340	4.56	0.350	0.180	0.620	0.590	1.060	1.000

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- J4 MUSCLE

LENGTH	NUM	14	MEAN	0.315	S. D.	0.046	LOW	0.260	HIGH	0.385					
WEIGHT	NUM	14	MEAN	0.582	S. D.	0.304	LOW	0.282	HIGH	1.149					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0001	0000	0000	0000	0000	0006	0003	0000	0000	0000	0012	0014	0000	0001	0000
MEAN	0.161	0.400	0.057	3.084	0.742	0.033	0.105	0.213	3.38	0.183	0.095	0.000	0.106	0.514	0.465
S. D.	0.106	0.181	0.011	1.477	0.282	0.010	0.095	0.052	0.56	0.042	0.049	0.000	0.037	0.137	0.189
LOW	0.040	0.190	0.040	0.783	0.285	0.020	0.050	0.150	2.90	0.115	0.060	0.000	0.080	0.310	0.220
HIGH	0.360	0.880	0.075	5.600	1.370	0.050	0.380	0.310	5.00	0.240	0.130	0.000	0.220	0.750	0.940

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- J5 MUSCLE

LENGTH	NUM	13	MEAN	0.335	S. D.	0.032	LOW	0.284	HIGH	0.388					
WEIGHT	NUM	13	MEAN	0.778	S. D.	0.289	LOW	0.364	HIGH	1.299					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0012	0013	0013	0013	0013	0013	0013	0013
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0011	0009	0000	0000	0000
MEAN	0.243	0.566	0.065	3.255	0.710	0.036	0.218	0.270	3.83	0.207	0.190	0.156	0.101	0.671	0.567
S. D.	0.088	0.329	0.036	1.327	0.244	0.014	0.185	0.196	1.02	0.084	0.000	0.092	0.046	0.119	0.165
LOW	0.140	0.250	0.035	1.000	0.400	0.020	0.060	0.120	2.75	0.110	0.190	0.060	0.060	0.530	0.380
HIGH	0.460	1.500	0.170	5.687	1.120	0.070	0.750	0.810	5.63	0.450	0.190	0.280	0.230	0.880	0.815

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- J7 MUSCLE

LENGTH	NUM	6	MEAN	0.299	S. D.	0.020	LOW	0.276	HIGH	0.326					
WEIGHT	NUM	6	MEAN	0.453	S. D.	0.125	LOW	0.317	HIGH	0.608					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.058	0.495	0.056	2.995	0.693	0.047	0.141	0.213	3.87	0.187	0.060	0.140	0.115	0.796	0.516
S. D.	0.024	0.182	0.022	1.222	0.307	0.015	0.056	0.096	0.73	0.043	0.000	0.071	0.037	0.075	0.227
LOW	0.020	0.190	0.030	1.750	0.080	0.030	0.090	0.040	2.63	0.150	0.000	0.090	0.080	0.685	0.060
HIGH	0.090	0.690	0.080	4.500	0.890	0.060	0.250	0.280	4.87	0.270	0.060	0.190	0.170	0.910	0.645

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- J9 MUSCLE

LENGTH	NUM	1	MEAN	0.331	S. D.	0.000	LOW	0.331	HIGH	0.331					
WEIGHT	NUM	1	MEAN	0.681	S. D.	0.000	LOW	0.681	HIGH	0.681					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.130	0.370	0.010	2.475	0.630	0.040	0.000	0.250	2.56	0.220	0.870	0.500	0.060	1.060	0.870
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.130	0.370	0.010	2.475	0.630	0.040	0.000	0.250	2.56	0.220	0.870	0.500	0.060	1.060	0.870

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- J9 LIVER

LENGTH	NUM	1	MEAN	0.331	S. D.	0.000	LOW	0.331	HIGH	0.331					
WEIGHT	NUM	1	MEAN	0.681	S. D.	0.000	LOW	0.681	HIGH	0.681					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.360	0.690	0.560	0.000	0.000	0.000	0.310	3.250	23.13	0.900	0.000	0.220	0.360	0.880	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.360	0.690	0.560	0.000	0.000	0.000	0.310	3.250	23.13	0.900	0.000	0.220	0.360	0.880	0.690

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- K5 MUSCLE

LENGTH	NUM	12	MEAN	0.360	S. D.	0.044	LOW	0.265	HIGH	0.430					
WEIGHT	NUM	12	MEAN	0.894	S. D.	0.268	LOW	0.604	HIGH	1.419					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0009	0011	0000	0000	0000
MEAN	0.213	0.338	0.052	3.545	0.911	0.030	0.108	0.263	3.24	0.179	0.127	0.190	0.092	0.653	0.453
S. D.	0.123	0.105	0.015	1.520	0.249	0.009	0.033	0.133	0.31	0.058	0.065	0.000	0.010	0.297	0.103
LOW	0.065	0.190	0.030	1.140	0.380	0.010	0.060	0.060	2.81	0.090	0.060	0.000	0.080	0.370	0.265
HIGH	0.490	0.500	0.080	6.450	1.200	0.040	0.135	0.630	3.80	0.265	0.190	0.190	0.110	1.250	0.690

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- K6 MUSCLE

LENGTH	NUM	3	MEAN	0.366	S. D.	0.008	LOW	0.358	HIGH	0.374					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.330	0.390	0.078	3.472	0.743	0.045	0.673	0.824	2.37	0.533	0.145	0.200	0.120	0.747	0.387
S. D.	0.059	0.143	0.004	3.194	0.021	0.007	0.805	1.192	0.24	0.441	0.021	0.000	0.082	0.398	0.050
LOW	0.265	0.225	0.075	1.460	0.720	0.040	0.150	0.105	2.21	0.205	0.130	0.000	0.030	0.410	0.340
HIGH	0.380	0.480	0.080	7.155	0.760	0.050	1.600	2.200	2.64	1.035	0.160	0.200	0.190	1.186	0.440

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- P2 MUSCLE

LENGTH	NUM	4	MEAN	0.279	S. D.	0.030	LOW	0.238	HIGH	0.307					
WEIGHT	NUM	4	MEAN	0.531	S. D.	0.000	LOW	0.531	HIGH	0.531					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0003	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.083	0.298	0.060	5.841	0.919	0.060	0.088	0.249	2.50	0.236	1.120	0.620	0.123	1.003	0.431
S. D.	0.036	0.061	0.017	3.902	0.125	0.000	0.018	0.101	0.17	0.132	0.000	0.000	0.036	0.550	0.115
LOW	0.055	0.210	0.040	2.566	0.765	0.000	0.070	0.160	2.30	0.085	0.000	0.000	0.100	0.440	0.340
HIGH	0.135	0.347	0.070	11.186	1.065	0.060	0.110	0.355	2.72	0.380	1.120	0.620	0.175	1.750	0.595

PERCH, OCEAN (REDFISH) SEBASTES MARINUS 131052 AREA- NORTH ATLANTIC SITE- P2 LIVER

LENGTH	NUM	1	MEAN	0.279	S. D.	0.000	LOW	0.279	HIGH	0.279					
WEIGHT	NUM	1	MEAN	0.531	S. D.	0.000	LOW	0.531	HIGH	0.531					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.060	0.150	0.055	5.500	0.865	0.285	0.150	3.700	17.32	0.360	0.465	0.000	0.695	1.015	0.600
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.060	0.150	0.055	5.500	0.865	0.285	0.150	3.700	17.32	0.360	0.465	0.000	0.695	1.015	0.600

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- CALIFORNIA SITE- B5 MUSCLE

LENGTH	NUM	10	MEAN	0.600	S. D.	0.064	LOW	0.525	HIGH	0.740					
WEIGHT	NUM	10	MEAN	2.650	S. D.	0.948	LOW	1.901	HIGH	4.795					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0002	0000	0000	0003	0000	0001	0000	0001	0009	0010	0001	0003	0000
MEAN	0.270	0.506	0.076	2.012	0.665	0.040	0.267	0.264	3.67	0.237	0.870	0.000	0.123	0.985	0.427
S. D.	0.189	0.272	0.038	1.598	0.265	0.015	0.248	0.047	0.81	0.145	0.000	0.000	0.059	0.504	0.183
LOW	0.040	0.200	0.040	0.430	0.345	0.020	0.060	0.195	2.21	0.070	0.000	0.000	0.040	0.400	0.010
HIGH	0.630	1.130	0.140	5.800	1.230	0.070	0.880	0.320	5.00	0.540	0.870	0.000	0.210	1.950	0.690

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- CALIFORNIA SITE- B5 LIVER

LENGTH	NUM	1	MEAN	0.610	S. D.	0.000	LOW	0.610	HIGH	0.610					
WEIGHT	NUM	1	MEAN	2.554	S. D.	0.000	LOW	2.554	HIGH	2.554					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.190	0.130	1.750	0.000	0.000	0.190	0.060	32.81	0.080	0.000	0.000	0.530	0.340	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.130	1.750	0.000	0.000	0.190	0.060	32.81	0.080	0.000	0.000	0.530	0.340	0.310

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- CALIFORNIA SITE- F8 MUSCLE

LENGTH	NUM	10	MEAN	0.606	S. D.	0.059	LOW	0.510	HIGH	0.680					
WEIGHT	NUM	10	MEAN	2.625	S. D.	0.810	LOW	1.500	HIGH	3.750					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0009	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0006	0006	0001	0001	0000
MEAN	0.221	0.426	0.066	2.616	0.613	0.037	0.124	0.285	3.73	0.243	0.075	0.228	0.082	0.647	0.582
S. D.	0.129	0.176	0.015	1.053	0.207	0.014	0.047	0.100	0.72	0.068	0.037	0.108	0.027	0.256	0.116
LOW	0.100	0.205	0.045	1.440	0.340	0.020	0.060	0.150	2.52	0.156	0.050	0.070	0.050	0.060	0.360
HIGH	0.510	0.655	0.090	4.613	1.040	0.070	0.190	0.430	4.94	0.360	0.130	0.310	0.120	0.880	0.750

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- CALIFORNIA SITE- F8 LIVER

LENGTH	NUM	1	MEAN	0.600	S. D.	0.000	LOW	0.600	HIGH	0.600					
WEIGHT	NUM	1	MEAN	2.454	S. D.	0.000	LOW	2.454	HIGH	2.454					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.096	0.220	0.280	3.066	2.410	0.020	0.220	2.443	48.85	0.176	0.140	0.406	0.690	0.190	0.383
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.096	0.220	0.280	3.066	2.410	0.020	0.220	2.443	48.85	0.176	0.140	0.406	0.690	0.190	0.383

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- CALIFORNIA SITE- I7 MUSCLE

LENGTH	NUM	4	MEAN	0.450	S. D.	0.013	LOW	0.440	HIGH	0.468					
WEIGHT	NUM	4	MEAN	1.073	S. D.	0.116	LOW	0.900	HIGH	1.150					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0002	0000	0001	0000
MEAN	0.230	0.593	0.145	2.187	0.914	0.033	0.175	0.328	4.21	0.371	0.100	0.350	0.146	1.348	1.344
S. D.	0.075	0.167	0.090	1.143	0.382	0.006	0.110	0.080	0.15	0.153	0.000	0.212	0.060	0.655	0.296
LOW	0.165	0.415	0.040	1.050	0.510	0.030	0.105	0.250	4.10	0.160	0.000	0.200	0.090	0.600	0.900
HIGH	0.300	0.805	0.250	3.755	1.430	0.040	0.340	0.415	4.41	0.505	0.100	0.500	0.230	1.815	1.500

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- CALIFORNIA SITE- I7 LIVER

LENGTH	NUM	1	MEAN	0.449	S. D.	0.000	LOW	0.449	HIGH	0.449					
WEIGHT	NUM	1	MEAN	1.072	S. D.	0.000	LOW	1.072	HIGH	1.072					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.100	0.310	0.440	2.000	0.610	0.020	0.060	4.870	20.37	0.190	0.000	0.000	0.690	0.810	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.100	0.310	0.440	2.000	0.610	0.020	0.060	4.870	20.37	0.190	0.000	0.000	0.690	0.810	0.630

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- PACIFIC NORTHWEST SITE- G9 MUSCLE

LENGTH	NUM	10	MEAN	0.694	S. D.	0.046	LOW	0.630	HIGH	0.770					
WEIGHT	NUM	8	MEAN	5.049	S. D.	1.176	LOW	3.629	HIGH	6.810					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0004	0000	0000	0005	0001	0000	0000	0003	0007	0008	0003	0006	0000
MEAN	0.333	0.501	0.065	1.817	0.811	0.033	0.289	0.234	3.63	0.190	0.217	0.140	0.076	0.567	0.499
S. D.	0.123	0.289	0.029	1.008	0.113	0.013	0.162	0.070	0.77	0.111	0.197	0.028	0.031	0.146	0.147
LOW	0.170	0.206	0.040	0.180	0.640	0.020	0.100	0.160	2.14	0.055	0.070	0.120	0.040	0.403	0.255
HIGH	0.575	1.100	0.115	3.060	0.985	0.050	0.540	0.380	4.64	0.360	0.440	0.160	0.140	0.755	0.785

ROCKFISH, BOCACCIO SEBASTES PAUCISPINIS 131061 AREA- PACIFIC NORTHWEST SITE- G9 LIVER

LENGTH	NUM	1	MEAN	0.700	S. D.	0.000	LOW	0.700	HIGH	0.700					
WEIGHT	NUM	1	MEAN	4.990	S. D.	0.000	LOW	4.990	HIGH	4.990					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.300	0.250	0.610	0.000	0.000	0.010	0.090	1.780	49.87	0.040	0.220	0.620	0.400	0.560	0.810
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.300	0.250	0.610	0.000	0.000	0.010	0.090	1.780	49.87	0.040	0.220	0.620	0.400	0.560	0.810

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

ROCKFISH, BOCACCIO — SEBASTES PAUCISPINIS — 131061 — AREA- PACIFIC NORTHWEST — SITE- M1 — MUSCLE

LENGTH	NUM	3	MEAN	0.677	S. D.	0.085	LOW	0.590	HIGH	0.760					
WEIGHT	NUM	3	MEAN	4.612	S. D.	0.916	LOW	3.629	HIGH	5.443					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0003	0000	0000	0002	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.283	0.476	0.000	3.080	0.723	0.040	0.253	0.255	4.37	0.292	0.000	0.000	0.093	0.957	0.360
S. D.	0.228	0.179	0.000	1.250	0.094	0.000	0.017	0.039	0.16	0.068	0.000	0.000	0.051	0.642	0.126
LOW	0.130	0.327	0.000	1.850	0.640	0.000	0.236	0.210	4.19	0.225	0.000	0.000	0.050	0.220	0.215
HIGH	0.545	0.675	0.000	4.350	0.825	0.040	0.270	0.280	4.47	0.360	0.000	0.000	0.150	1.400	0.440

ROCKFISH, BOCACCIO — SEBASTES PAUCISPINIS — 131061 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	1	MEAN	0.320	S. D.	0.000	LOW	0.320	HIGH	0.320					
WEIGHT	NUM	1	MEAN	0.227	S. D.	0.000	LOW	0.227	HIGH	0.227					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.103	0.565	0.110	1.012	0.490	0.100	0.837	0.226	5.54	0.250	0.150	0.000	0.143	1.600	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.103	0.565	0.110	1.012	0.490	0.100	0.837	0.226	5.54	0.250	0.150	0.000	0.143	1.600	0.500

ROCKFISH, BOCACCIO — SEBASTES PAUCISPINIS — 131061 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM	10	MEAN	0.609	S. D.	0.125	LOW	0.368	HIGH	0.780					
WEIGHT	NUM	10	MEAN	2.929	S. D.	1.554	LOW	0.463	HIGH	6.356					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0002	0000	0000	0005	0001	0000	0000	0001	0007	0007	0000	0002	0000
MEAN	0.241	0.318	0.067	1.919	0.493	0.042	0.211	0.395	4.99	0.212	0.137	0.175	0.095	1.096	1.381
S. D.	0.133	0.100	0.047	1.760	0.257	0.011	0.098	0.123	2.31	0.128	0.125	0.097	0.059	0.608	1.132
LOW	0.060	0.200	0.020	0.360	0.100	0.030	0.060	0.250	3.17	0.090	0.050	0.090	0.030	0.450	0.150
HIGH	0.480	0.540	0.145	5.500	0.980	0.060	0.350	0.595	11.07	0.500	0.280	0.280	0.195	2.380	3.720

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- CALIFORNIA — SITE- B2 — MUSCLE

LENGTH	NUM	10	MEAN	0.540	S. D.	0.043	LOW	0.501	HIGH	0.621					
WEIGHT	NUM	10	MEAN	2.570	S. D.	0.617	LOW	1.999	HIGH	3.686					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0009	0009	0009	0010	0010	0009
N DET.	0000	0001	0004	0000	0000	0005	0001	0000	0000	0003	0007	0009	0001	0004	0000
MEAN	0.112	0.403	0.081	2.946	0.975	0.049	0.246	0.301	5.73	0.148	1.015	0.000	0.136	1.058	0.598
S. D.	0.056	0.194	0.056	1.784	0.283	0.020	0.210	0.095	2.95	0.077	0.417	0.000	0.055	0.662	0.173
LOW	0.040	0.270	0.040	0.943	0.500	0.030	0.060	0.190	1.91	0.040	0.720	0.000	0.070	0.190	0.425
HIGH	0.185	0.880	0.180	6.600	1.370	0.070	0.600	0.500	10.71	0.250	1.310	0.000	0.250	1.850	0.980

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- CALIFORNIA — SITE- B2 — LIVER

LENGTH	NUM	1	MEAN	0.621	S. D.	0.000	LOW	0.621	HIGH	0.621					
WEIGHT	NUM	1	MEAN	3.686	S. D.	0.000	LOW	3.686	HIGH	3.686					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.120	1.130	2.200	0.000	1.770	0.000	0.310	1.880	31.87	0.130	0.000	1.210	0.750	1.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	1.130	2.200	0.000	1.770	0.000	0.310	1.880	31.87	0.130	0.000	1.210	0.750	1.000	0.380

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- G9 — MUSCLE

LENGTH	NUM	7	MEAN	0.505	S. D.	0.071	LOW	0.440	HIGH	0.650					
WEIGHT	NUM	6	MEAN	2.226	S. D.	0.791	LOW	1.701	HIGH	3.629					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0001	0002	0000	0000	0003	0000	0000	0000	0002	0005	0005	0001	0003	0000
MEAN	0.060	0.263	0.042	2.633	0.972	0.033	0.211	0.314	4.46	0.290	0.245	0.350	0.085	0.556	0.488
S. D.	0.024	0.053	0.009	1.018	0.249	0.010	0.252	0.097	0.56	0.051	0.092	0.127	0.029	0.270	0.133
LOW	0.030	0.190	0.030	1.925	0.605	0.020	0.050	0.140	3.39	0.220	0.180	0.260	0.045	0.350	0.340
HIGH	0.095	0.350	0.055	4.825	1.400	0.040	0.750	0.430	5.16	0.360	0.310	0.440	0.125	0.945	0.670

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- G9 — LIVER

LENGTH	NUM	1	MEAN	0.477	S. D.	0.000	LOW	0.477	HIGH	0.477					
WEIGHT	NUM	1	MEAN	2.070	S. D.	0.000	LOW	2.070	HIGH	2.070					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- M2 — MUSCLE

LENGTH	NUM	9	MEAN	0.373	S. D.	0.095	LOW	0.290	HIGH	0.570					
WEIGHT	NUM	1	MEAN	2.495	S. D.	0.000	LOW	2.495	HIGH	2.495					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0008	0008	0008	0009	0009	0009	0009	0009	0009	0009	0008	0009	0009
N DET.	0000	0001	0003	0000	0000	0006	0001	0000	0000	0002	0005	0005	0000	0003	0000
MEAN	0.178	0.310	0.045	2.842	0.745	0.037	0.257	0.323	5.80	0.233	0.215	0.365	0.184	1.150	0.579
S. D.	0.193	0.082	0.014	1.825	0.465	0.012	0.198	0.225	5.45	0.088	0.155	0.108	0.108	0.744	0.153
LOW	0.050	0.200	0.035	0.965	0.290	0.030	0.100	0.105	2.50	0.110	0.090	0.260	0.070	0.440	0.450
HIGH	0.660	0.420	0.070	6.000	1.780	0.050	0.700	0.830	19.90	0.360	0.440	0.500	0.360	2.200	0.930

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- M5 — MUSCLE

LENGTH	NUM	4	MEAN	0.510	S. D.	0.028	LOW	0.485	HIGH	0.550					
WEIGHT	NUM	3	MEAN	2.495	S. D.	0.393	LOW	2.268	HIGH	2.948					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0004	0001	0000	0000	0001	0004	0003	0000	0002	0000
MEAN	0.171	0.289	0.097	2.830	0.849	0.000	0.123	0.300	4.09	0.300	0.000	0.100	0.121	0.330	0.420
S. D.	0.165	0.060	0.051	1.274	0.057	0.000	0.018	0.043	0.86	0.147	0.000	0.000	0.017	0.028	0.218
LOW	0.060	0.230	0.040	0.960	0.795	0.000	0.105	0.275	3.20	0.185	0.000	0.000	0.110	0.310	0.190
HIGH	0.415	0.360	0.140	3.800	0.930	0.000	0.140	0.365	5.19	0.465	0.000	0.100	0.145	0.350	0.700

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	4	MEAN	0.496	S. D.	0.066	LOW	0.415	HIGH	0.550					
WEIGHT	NUM	4	MEAN	2.325	S. D.	0.876	LOW	1.361	HIGH	3.175					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0002	0000	0000	0002	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	0.183	0.693	0.073	3.290	0.860	0.025	0.326	0.263	3.42	0.230	0.150	0.500	0.094	0.937	0.975
S. D.	0.061	0.150	0.053	1.666	0.162	0.007	0.131	0.070	0.34	0.208	0.000	0.000	0.047	0.115	0.833
LOW	0.130	0.515	0.035	1.390	0.680	0.020	0.130	0.195	3.15	0.030	0.000	0.000	0.040	0.820	0.550
HIGH	0.240	0.875	0.110	4.500	0.995	0.030	0.406	0.360	3.89	0.500	0.150	0.500	0.140	1.050	2.225

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM	3	MEAN	0.551	S. D.	0.049	LOW	0.498	HIGH	0.594					
WEIGHT	NUM	3	MEAN	2.722	S. D.	0.908	LOW	1.814	HIGH	3.629					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.163	1.007	0.153	4.088	0.787	0.045	0.279	0.557	4.71	0.395	0.195	0.325	0.243	1.463	2.877
S. D.	0.108	0.113	0.080	1.998	0.111	0.009	0.164	0.133	0.39	0.206	0.163	0.091	0.060	0.371	1.299
LOW	0.040	0.877	0.070	2.675	0.670	0.040	0.105	0.480	4.28	0.180	0.075	0.220	0.180	1.200	1.500
HIGH	0.240	1.075	0.230	5.500	0.890	0.055	0.430	0.710	5.04	0.590	0.380	0.380	0.300	1.725	4.080

ROCKFISH, CANARY — SEBASTES PINNIGER — 131063 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM	7	MEAN	0.523	S. D.	0.045	LOW	0.493	HIGH	0.619					
WEIGHT	NUM	7	MEAN	2.349	S. D.	0.637	LOW	1.814	HIGH	3.629					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0001	0000	0001	0000	0000	0002	0000	0000	0000	0002	0002	0004	0001	0002	0000
MEAN	0.140	0.885	0.168	3.378	0.768	0.076	0.169	0.359	5.18	0.263	0.220	0.363	0.195	1.456	3.733
S. D.	0.133	0.617	0.105	2.183	0.319	0.036	0.107	0.119	1.31	0.192	0.154	0.123	0.101	0.372	2.241
LOW	0.040	0.350	0.070	1.840	0.435	0.020	0.040	0.180	2.86	0.050	0.080	0.260	0.075	1.070	2.080
HIGH	0.400	2.120	0.350	7.600	1.320	0.110	0.375	0.495	7.19	0.530	0.440	0.500	0.360	1.870	8.670

SCULPIN, LONGHORN — MYOXOCEPHALUS OCTODECEMSPINOSUS — 132031 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.330	0.250	0.060	2.500	1.040	0.020	0.160	0.210	4.38	0.910	0.000	0.000	0.260	0.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.330	0.250	0.060	2.500	1.040	0.020	0.160	0.210	4.38	0.910	0.000	0.000	0.260	0.000	0.380

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- J5 — MUSCLE

LENGTH	NUM	3	MEAN	0.229	S. D.	0.027	LOW	0.198	HIGH	0.244					
WEIGHT	NUM	3	MEAN	0.106	S. D.	0.030	LOW	0.084	HIGH	0.140					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0002	0000	0001	0000
MEAN	0.240	0.651	0.097	4.844	0.625	0.040	0.220	0.375	5.33	0.450	0.000	0.130	0.287	1.535	0.493
S. D.	0.185	0.312	0.023	0.375	0.137	0.014	0.147	0.084	2.99	0.296	0.000	0.000	0.084	0.403	0.198
LOW	0.060	0.320	0.070	4.416	0.470	0.030	0.060	0.285	3.21	0.250	0.000	0.000	0.195	1.250	0.305
HIGH	0.430	0.940	0.110	5.116	0.730	0.050	0.350	0.450	8.75	0.790	0.000	0.130	0.360	1.820	0.700

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- M9 — MUSCLE

LENGTH	NUM	5	MEAN	0.229	S. D.	0.012	LOW	0.215	HIGH	0.247					
WEIGHT	NUM	5	MEAN	0.142	S. D.	0.013	LOW	0.127	HIGH	0.158					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0005	0000
MEAN	0.356	0.708	0.091	2.181	0.523	0.052	0.400	0.349	4.36	0.324	0.177	0.230	0.351	0.000	0.646
S. D.	0.059	0.319	0.033	0.604	0.093	0.016	0.268	0.071	0.81	0.057	0.045	0.075	0.090	0.000	0.123
LOW	0.280	0.380	0.060	1.300	0.430	0.030	0.130	0.240	3.44	0.280	0.130	0.160	0.260	0.000	0.470
HIGH	0.420	1.190	0.140	2.765	0.680	0.070	0.810	0.435	5.44	0.420	0.220	0.310	0.450	0.000	0.810

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- N1 — MUSCLE

LENGTH	NUM	1	MEAN	0.250	S. D.	0.000	LOW	0.250	HIGH	0.250					
WEIGHT	NUM	1	MEAN	0.175	S. D.	0.000	LOW	0.175	HIGH	0.175					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.150	0.630	0.080	2.950	0.280	0.040	0.250	0.180	4.06	0.290	0.000	0.000	0.280	0.000	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.150	0.630	0.080	2.950	0.280	0.040	0.250	0.180	4.06	0.290	0.000	0.000	0.280	0.000	0.630

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	2	MEAN	0.245	S. D.	0.043	LOW	0.214	HIGH	0.275					
WEIGHT	NUM	2	MEAN	0.209	S. D.	0.044	LOW	0.178	HIGH	0.240					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.125	0.393	0.075	0.738	0.515	0.058	0.190	0.513	4.92	0.298	0.000	0.000	0.160	0.000	0.493
S. D.	0.035	0.018	0.007	0.081	0.247	0.004	0.000	0.032	0.47	0.046	0.000	0.000	0.042	0.000	0.053
LOW	0.100	0.380	0.070	0.680	0.340	0.055	0.190	0.490	4.59	0.265	0.000	0.000	0.130	0.000	0.455
HIGH	0.150	0.405	0.080	0.795	0.690	0.060	0.190	0.535	5.25	0.330	0.000	0.000	0.190	0.000	0.530

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- N4 — MUSCLE

LENGTH	NUM	5	MEAN	0.250	S. D.	0.013	LOW	0.228	HIGH	0.262					
WEIGHT	NUM	5	MEAN	0.176	S. D.	0.026	LOW	0.133	HIGH	0.203					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0005	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0005	0004	0000	0002	0000
MEAN	0.225	0.500	0.064	6.203	0.516	0.039	0.185	0.416	4.01	0.206	0.000	0.130	0.226	0.947	0.504
S. D.	0.105	0.112	0.027	3.871	0.159	0.002	0.124	0.230	1.29	0.101	0.000	0.000	0.080	0.185	0.197
LOW	0.090	0.400	0.020	2.400	0.310	0.035	0.060	0.140	1.81	0.040	0.000	0.000	0.160	0.830	0.310
HIGH	0.330	0.690	0.090	10.600	0.700	0.040	0.315	0.680	5.00	0.300	0.000	0.130	0.340	1.160	0.810

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- N5 — MUSCLE

LENGTH	NUM	1	MEAN	0.214	S. D.	0.000	LOW	0.214	HIGH	0.214					
WEIGHT	NUM	1	MEAN	0.132	S. D.	0.000	LOW	0.132	HIGH	0.132					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.225	0.405	0.080	2.600	0.295	0.040	0.190	0.350	4.06	0.215	0.000	0.000	0.170	0.000	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.225	0.405	0.080	2.600	0.295	0.040	0.190	0.350	4.06	0.215	0.000	0.000	0.170	0.000	0.630

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- N7 — MUSCLE

LENGTH	NUM	14	MEAN	0.202	S. D.	0.035	LOW	0.138	HIGH	0.252					
WEIGHT	NUM	14	MEAN	0.115	S. D.	0.042	LOW	0.046	HIGH	0.193					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0014	0013	0013	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0013	0010	0000	0008	0000
MEAN	0.262	0.578	0.085	3.374	0.455	0.043	0.197	0.474	4.20	0.253	0.170	0.255	0.235	0.775	0.628
S. D.	0.139	0.254	0.028	2.421	0.194	0.013	0.095	0.247	1.04	0.074	0.000	0.095	0.074	0.286	0.213
LOW	0.040	0.190	0.040	0.730	0.090	0.025	0.040	0.220	1.75	0.080	0.000	0.160	0.170	0.310	0.440
HIGH	0.510	1.000	0.140	8.600	0.805	0.070	0.375	1.040	5.94	0.390	0.170	0.360	0.410	1.060	1.220

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- N8 — MUSCLE

LENGTH	NUM	4	MEAN	0.214	S. D.	0.057	LOW	0.148	HIGH	0.282					
WEIGHT	NUM	4	MEAN	0.129	S. D.	0.115	LOW	0.035	HIGH	0.295					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0004	0004	0003	0003	0004	0004	0004	0004	0003
N DET.	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0004	0002	0000	0004	0000
MEAN	0.205	0.524	0.095	0.775	0.252	0.055	0.188	0.339	4.41	0.357	0.000	0.250	0.204	0.000	0.498
S. D.	0.108	0.206	0.022	0.172	0.155	0.017	0.084	0.123	0.40	0.038	0.000	0.000	0.064	0.000	0.137
LOW	0.100	0.250	0.080	0.645	0.090	0.040	0.120	0.160	3.97	0.330	0.000	0.250	0.110	0.000	0.400
HIGH	0.330	0.750	0.120	0.970	0.400	0.070	0.305	0.440	4.75	0.400	0.000	0.250	0.255	0.000	0.655

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- 02 — MUSCLE

LENGTH	NUM	14	MEAN	0.254	S. D.	0.019	LOW	0.217	HIGH	0.287					
WEIGHT	NUM	14	MEAN	0.188	S. D.	0.043	LOW	0.100	HIGH	0.254					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0012	0014	0014	0014	0014	0013	0014	0013	0014	0014	0014	0014	0014	0014
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0012	0013	0000	0007	0000
MEAN	0.115	0.354	0.079	1.529	0.390	0.048	0.206	0.469	4.68	0.242	0.170	0.480	0.151	0.843	0.651
S. D.	0.052	0.112	0.039	0.665	0.238	0.014	0.093	0.161	0.89	0.087	0.113	0.000	0.043	0.242	0.250
LOW	0.040	0.190	0.040	0.840	0.080	0.020	0.060	0.250	2.69	0.080	0.090	0.000	0.090	0.380	0.380
HIGH	0.220	0.565	0.190	3.350	1.100	0.080	0.345	0.750	5.75	0.380	0.250	0.480	0.220	1.130	1.220

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- 03 — MUSCLE

LENGTH	NUM	2	MEAN	0.286	S. D.	0.030	LOW	0.265	HIGH	0.307					
WEIGHT	NUM	2	MEAN	0.226	S. D.	0.057	LOW	0.185	HIGH	0.266					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.110	0.518	0.060	1.763	0.443	0.033	0.128	0.310	4.97	0.255	0.000	0.040	0.160	0.625	0.515
S. D.	0.028	0.159	0.028	1.290	0.173	0.004	0.046	0.269	1.20	0.092	0.000	0.000	0.057	0.262	0.064
LOW	0.090	0.405	0.040	0.850	0.320	0.030	0.095	0.120	4.12	0.190	0.000	0.000	0.120	0.440	0.470
HIGH	0.130	0.630	0.080	2.675	0.565	0.035	0.160	0.500	5.81	0.320	0.000	0.040	0.200	0.810	0.560

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- R3 — MUSCLE

LENGTH	NUM	5	MEAN	0.194	S. D.	0.045	LOW	0.147	HIGH	0.245					
WEIGHT	NUM	5	MEAN	0.092	S. D.	0.056	LOW	0.038	HIGH	0.164					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0002	0000	0005	0000
MEAN	0.175	0.688	0.089	2.316	0.428	0.055	0.226	0.249	5.46	0.326	0.060	0.180	0.233	0.000	0.678
S. D.	0.105	0.194	0.016	1.602	0.166	0.020	0.068	0.103	1.12	0.073	0.000	0.017	0.059	0.000	0.131
LOW	0.060	0.470	0.070	0.890	0.245	0.030	0.155	0.080	4.37	0.215	0.000	0.160	0.170	0.000	0.530
HIGH	0.290	0.910	0.110	4.725	0.670	0.080	0.310	0.360	7.00	0.390	0.060	0.190	0.330	0.000	0.860

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	6	MEAN	0.195	S. D.	0.041	LOW	0.132	HIGH	0.239					
WEIGHT	NUM	6	MEAN	0.092	S. D.	0.044	LOW	0.035	HIGH	0.147					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0004	0000
MEAN	0.095	0.751	0.085	2.181	0.537	0.052	0.251	0.464	4.88	0.288	0.280	0.175	0.193	0.530	0.640
S. D.	0.034	0.538	0.020	0.933	0.118	0.013	0.111	0.170	0.59	0.077	0.000	0.000	0.025	0.580	0.194
LOW	0.050	0.410	0.060	1.150	0.350	0.030	0.140	0.285	3.97	0.190	0.000	0.000	0.170	0.120	0.470
HIGH	0.130	1.810	0.110	3.866	0.685	0.065	0.440	0.740	5.50	0.420	0.280	0.175	0.230	0.940	1.000

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	2	MEAN	0.230	S. D.	0.006	LOW	0.226	HIGH	0.234					
WEIGHT	NUM	2	MEAN	0.136	S. D.	0.016	LOW	0.124	HIGH	0.147					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.138	1.095	0.130	1.804	0.398	0.040	0.315	0.555	4.77	0.273	0.000	0.000	0.170	0.000	0.570
S. D.	0.025	1.011	0.057	0.525	0.145	0.014	0.134	0.000	0.42	0.060	0.000	0.000	0.014	0.000	0.007
LOW	0.120	0.380	0.090	1.433	0.295	0.030	0.220	0.555	4.47	0.230	0.000	0.000	0.160	0.000	0.565
HIGH	0.155	1.810	0.170	2.175	0.500	0.050	0.410	0.555	5.06	0.315	0.000	0.000	0.180	0.000	0.575

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- NORTH ATLANTIC — SITE- S1 — MUSCLE

LENGTH	NUM	3	MEAN	0.225	S. D.	0.027	LOW	0.196	HIGH	0.249					
WEIGHT	NUM	3	MEAN	0.113	S. D.	0.049	LOW	0.062	HIGH	0.159					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0003	0000
MEAN	0.255	0.352	0.078	1.617	0.622	0.048	0.197	0.333	4.57	0.305	0.000	0.000	0.203	0.000	0.440
S. D.	0.172	0.036	0.008	0.785	0.155	0.026	0.080	0.059	0.09	0.065	0.000	0.000	0.051	0.000	0.079
LOW	0.100	0.310	0.070	1.000	0.450	0.020	0.120	0.290	4.50	0.230	0.000	0.000	0.160	0.000	0.380
HIGH	0.440	0.375	0.085	2.500	0.750	0.070	0.280	0.400	4.63	0.345	0.000	0.000	0.260	0.000	0.530

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- SOUTH ATLANTIC — SITE- B6 — MUSCLE

LENGTH	NUM	1	MEAN	0.193	S. D.	0.000	LOW	0.193	HIGH	0.193					
WEIGHT	NUM	1	MEAN	0.062	S. D.	0.000	LOW	0.062	HIGH	0.062					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.105	0.413	0.040	20.383	0.900	0.100	0.150	0.230	4.71	0.605	0.000	0.000	0.410	1.570	0.625
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.105	0.413	0.040	20.383	0.900	0.100	0.150	0.230	4.71	0.605	0.000	0.000	0.410	1.570	0.625

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

SEAROBIN, NORTHERN — PRIONOTUS CAROLINUS — 135010 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	10	MEAN	0.195	S. D.	0.005	LOW	0.185	HIGH	0.198					
WEIGHT	NUM	10	MEAN	0.056	S. D.	0.005	LOW	0.054	HIGH	0.068					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0002	0000	0000	0000
MEAN	0.060	0.623	0.076	3.526	0.648	0.047	0.227	0.387	3.71	0.231	0.182	0.169	0.414	0.887	0.732
S. D.	0.039	0.254	0.040	1.435	0.361	0.017	0.098	0.134	0.79	0.038	0.136	0.088	0.134	0.274	0.200
LOW	0.020	0.310	0.040	1.490	0.170	0.020	0.070	0.190	2.06	0.175	0.060	0.060	0.260	0.310	0.440
HIGH	0.140	1.060	0.170	6.353	1.200	0.075	0.405	0.640	4.68	0.290	0.380	0.310	0.665	1.190	1.095

SEAROBIN, STRIPED — PRIONOTUS EVOLANS — 135011 — AREA- NORTH ATLANTIC — SITE- R9 — MUSCLE

LENGTH	NUM	10	MEAN	0.192	S. D.	0.000	LOW	0.192	HIGH	0.192					
WEIGHT	NUM	10	MEAN	0.113	S. D.	0.000	LOW	0.113	HIGH	0.113					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0010	0007	0000	0001	0000
MEAN	0.052	0.602	0.062	3.187	0.546	0.041	0.100	0.523	5.37	0.220	0.000	0.250	0.292	0.616	0.546
S. D.	0.030	0.291	0.017	1.027	0.188	0.014	0.037	0.151	0.64	0.054	0.000	0.060	0.073	0.141	0.089
LOW	0.020	0.310	0.040	1.100	0.250	0.030	0.060	0.373	4.53	0.130	0.000	0.190	0.210	0.440	0.380
HIGH	0.105	1.200	0.085	4.425	0.910	0.075	0.155	0.760	6.69	0.310	0.000	0.310	0.430	0.880	0.690

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- I5 — MUSCLE

LENGTH	NUM	4	MEAN	0.745	S. D.	0.026	LOW	0.720	HIGH	0.780					
WEIGHT	NUM	4	MEAN	1.486	S. D.	0.269	LOW	1.178	HIGH	1.814					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0001	0001	0000	0000	0000	0000	0001	0003	0000	0001	0000
MEAN	0.223	0.695	0.093	5.219	0.452	0.333	0.148	0.486	5.13	0.245	0.057	0.500	0.196	0.690	0.449
S. D.	0.052	0.586	0.017	2.605	0.016	0.508	0.104	0.129	2.40	0.132	0.006	0.000	0.052	0.123	0.199
LOW	0.190	0.265	0.070	2.700	0.440	0.040	0.040	0.380	3.13	0.140	0.050	0.000	0.140	0.565	0.255
HIGH	0.300	1.560	0.110	8.875	0.470	0.920	0.260	0.655	8.57	0.430	0.060	0.500	0.250	0.810	0.630

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- I5 — LIVER

LENGTH	NUM	3	MEAN	0.742	S. D.	0.019	LOW	0.720	HIGH	0.755					
WEIGHT	NUM	3	MEAN	1.447	S. D.	0.234	LOW	1.178	HIGH	1.602					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0003	0000	0000	0000	0000	0001	0001	0000	0000	0000	0000	0002	0000	0001	0000
MEAN	0.000	0.330	0.587	8.250	0.220	0.040	0.138	2.733	4.64	0.133	0.413	0.090	0.417	0.720	0.417
S. D.	0.000	0.286	0.732	2.257	0.125	0.042	0.011	4.035	3.26	0.060	0.397	0.000	0.150	0.127	0.188
LOW	0.000	0.060	0.110	5.900	0.120	0.010	0.130	0.110	1.43	0.070	0.150	0.000	0.250	0.630	0.250
HIGH	0.000	0.630	1.430	10.400	0.360	0.070	0.145	7.380	7.94	0.190	0.870	0.090	0.540	0.810	0.620

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- J6 — MUSCLE

LENGTH	NUM	12	MEAN	0.724	S. D.	0.229	LOW	0.314	HIGH	0.940					
WEIGHT	NUM	3	MEAN	0.238	S. D.	0.111	LOW	0.140	HIGH	0.358					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013
N DET.	0000	0000	0001	0000	0000	0004	0000	0000	0000	0000	0008	0011	0000	0002	0000
MEAN	0.216	0.370	0.056	5.500	0.376	0.028	0.143	0.308	3.17	0.197	0.080	0.345	0.155	0.578	0.454
S. D.	0.152	0.176	0.015	2.256	0.247	0.015	0.133	0.135	1.14	0.135	0.046	0.403	0.139	0.327	0.154
LOW	0.015	0.190	0.030	1.765	0.060	0.010	0.040	0.080	1.88	0.090	0.030	0.060	0.060	0.215	0.220
HIGH	0.540	0.750	0.080	8.850	0.900	0.060	0.530	0.640	5.71	0.610	0.150	0.630	0.570	1.495	0.780

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- J6 — LIVER

LENGTH	NUM	11	MEAN	0.704	S. D.	0.229	LOW	0.314	HIGH	0.910					
WEIGHT	NUM	7	MEAN	0.531	S. D.	0.286	LOW	0.140	HIGH	0.822					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0011	0012	0011	0012	0012	0012	0012	0011
N DET.	0008	0000	0001	0000	0000	0003	0002	0000	0000	0000	0007	0011	0000	0003	0002
MEAN	0.118	0.317	0.331	8.599	0.850	0.042	0.099	1.711	4.63	0.185	0.144	0.130	0.340	0.552	0.338
S. D.	0.124	0.306	0.272	4.666	0.298	0.031	0.043	0.856	2.35	0.204	0.052	0.000	0.123	0.351	0.215
LOW	0.040	0.060	0.140	4.233	0.320	0.010	0.060	0.760	1.31	0.030	0.060	0.000	0.140	0.190	0.130
HIGH	0.300	1.130	1.100	19.975	1.330	0.110	0.190	3.500	8.88	0.730	0.190	0.130	0.530	1.340	0.750

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	7	MEAN	0.883	S. D.	0.051	LOW	0.830	HIGH	0.960					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0007	0007	0000	0001	0000
MEAN	0.464	0.462	0.060	4.617	0.334	0.029	0.147	0.301	3.11	0.142	0.000	0.000	0.079	0.523	0.485
S. D.	0.267	0.200	0.033	1.197	0.122	0.012	0.131	0.113	0.55	0.046	0.000	0.000	0.022	0.220	0.190
LOW	0.170	0.190	0.035	2.975	0.130	0.020	0.055	0.145	2.37	0.070	0.000	0.000	0.060	0.280	0.310
HIGH	0.940	0.750	0.130	6.536	0.550	0.050	0.405	0.460	3.94	0.195	0.000	0.000	0.120	0.810	0.840

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- J7 — LIVER

LENGTH	NUM	3	MEAN	0.886	S. D.	0.047	LOW	0.855	HIGH	0.940					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0001	0001
MEAN	0.190	0.267	0.437	8.242	0.757	0.033	0.060	1.107	5.02	0.130	0.185	0.190	0.290	0.315	0.335
S. D.	0.000	0.131	0.206	0.601	0.093	0.012	0.000	0.565	0.72	0.036	0.092	0.000	0.044	0.092	0.035
LOW	0.000	0.120	0.280	7.625	0.680	0.020	0.060	0.690	4.19	0.100	0.120	0.000	0.260	0.250	0.310
HIGH	0.190	0.370	0.670	8.825	0.860	0.040	0.060	1.750	5.50	0.170	0.250	0.190	0.340	0.380	0.360

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	6	MEAN	0.865	S. D.	0.054	LOW	0.780	HIGH	0.930					
WEIGHT	NUM	6	MEAN	3.594	S. D.	0.616	LOW	2.951	HIGH	4.540					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.478	0.352	0.048	9.580	0.436	0.025	0.136	0.225	4.24	0.105	0.000	0.190	0.112	0.413	0.750
S. D.	0.236	0.120	0.012	2.880	0.126	0.017	0.139	0.122	0.60	0.042	0.000	0.000	0.008	0.083	0.313
LOW	0.160	0.230	0.030	6.825	0.250	0.010	0.060	0.060	3.38	0.060	0.000	0.000	0.100	0.310	0.370
HIGH	0.840	0.500	0.060	14.450	0.570	0.040	0.380	0.390	5.00	0.180	0.000	0.190	0.120	0.500	1.190

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- N4 — MUSCLE

LENGTH	NUM	2	MEAN	0.855	S. D.	0.007	LOW	0.850	HIGH	0.860					
WEIGHT	NUM	2	MEAN	4.313	S. D.	1.605	LOW	3.178	HIGH	5.448					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.395	0.380	0.045	9.263	0.510	0.010	0.190	0.175	2.97	0.070	0.000	0.000	0.085	0.280	0.330
S. D.	0.148	0.354	0.007	1.008	0.127	0.000	0.000	0.049	1.18	0.085	0.000	0.000	0.064	0.042	0.198
LOW	0.290	0.130	0.040	8.550	0.420	0.000	0.000	0.140	2.13	0.010	0.000	0.000	0.040	0.250	0.190
HIGH	0.500	0.630	0.050	9.975	0.600	0.010	0.190	0.210	3.80	0.130	0.000	0.000	0.130	0.310	0.470

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- N7 — MUSCLE

LENGTH	NUM	12	MEAN	0.753	S. D.	0.050	LOW	0.680	HIGH	0.890					
WEIGHT	NUM	12	MEAN	1.565	S. D.	0.426	LOW	1.258	HIGH	2.880					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0011	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.311	0.602	0.067	5.390	0.786	0.033	0.187	0.392	3.68	0.279	0.163	0.794	0.120	0.574	0.573
S. D.	0.151	0.127	0.026	2.114	1.383	0.009	0.118	0.142	0.61	0.388	0.044	0.211	0.039	0.284	0.128
LOW	0.155	0.470	0.040	2.318	0.195	0.020	0.075	0.160	2.50	0.070	0.090	0.630	0.060	0.215	0.420
HIGH	0.680	0.815	0.120	10.140	5.146	0.050	0.465	0.550	4.31	1.500	0.190	1.110	0.186	1.000	0.870

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- N8 — MUSCLE

LENGTH	NUM	11	MEAN	0.810	S. D.	0.090	LOW	0.663	HIGH	0.920					
WEIGHT	NUM	11	MEAN	2.212	S. D.	0.867	LOW	1.003	HIGH	3.689					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0008	0009	0000	0000	0000
MEAN	0.424	0.423	0.068	6.714	0.463	0.033	0.251	0.330	3.55	0.177	0.147	0.220	0.101	0.651	0.647
S. D.	0.137	0.158	0.021	1.693	0.152	0.013	0.199	0.086	0.45	0.045	0.075	0.127	0.036	0.181	0.222
LOW	0.230	0.190	0.040	3.275	0.150	0.015	0.075	0.205	2.90	0.115	0.060	0.130	0.060	0.345	0.380
HIGH	0.650	0.750	0.115	9.693	0.680	0.050	0.630	0.440	4.37	0.270	0.190	0.310	0.170	0.970	1.100

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- NORTH ATLANTIC — SITE- O3 — MUSCLE

LENGTH	NUM	9	MEAN	0.751	S. D.	0.153	LOW	0.398	HIGH	0.910					
WEIGHT	NUM	9	MEAN	1.806	S. D.	0.964	LOW	0.222	HIGH	3.348					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.296	0.450	0.065	6.796	0.392	0.037	0.191	0.347	3.42	0.201	0.195	0.440	0.137	0.649	0.548
S. D.	0.182	0.232	0.021	1.633	0.120	0.016	0.123	0.081	0.96	0.046	0.090	0.179	0.066	0.141	0.209
LOW	0.040	0.215	0.035	4.900	0.190	0.020	0.060	0.190	2.25	0.110	0.090	0.250	0.085	0.440	0.310
HIGH	0.575	0.940	0.110	10.350	0.620	0.070	0.430	0.450	4.94	0.250	0.310	0.630	0.310	0.900	0.940

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- SOUTH ATLANTIC — SITE- D2 — MUSCLE

LENGTH	NUM	1	MEAN	0.280	S. D.	0.000	LOW	0.280	HIGH	0.280					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.160	0.810	0.260	4.225	0.450	0.040	0.060	0.370	3.56	0.110	0.000	0.000	0.090	0.810	0.720
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.160	0.810	0.260	4.225	0.450	0.040	0.060	0.370	3.56	0.110	0.000	0.000	0.090	0.810	0.720

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- SOUTH ATLANTIC — SITE- D2 — LIVER

LENGTH	NUM	1	MEAN	0.280	S. D.	0.000	LOW	0.280	HIGH	0.280					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.535	0.890	6.340	1.250	0.040	0.130	1.850	7.41	0.245	0.000	0.000	0.670	0.370	0.400
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.535	0.890	6.340	1.250	0.040	0.130	1.850	7.41	0.245	0.000	0.000	0.670	0.370	0.400

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- H7 — MUSCLE

LENGTH	NUM	10	MEAN	0.815	S. D.	0.000	LOW	0.815	HIGH	0.815					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0002	0004	0000	0001	0005	0001	0000	0000	0002	0009	0009	0000	0005	0000
MEAN	0.372	0.508	0.077	4.696	0.286	0.025	0.265	0.322	2.63	0.237	0.270	0.100	0.143	0.555	1.013
S. D.	0.123	0.267	0.053	2.036	0.151	0.014	0.223	0.092	0.45	0.167	0.000	0.000	0.130	0.282	0.533
LOW	0.230	0.190	0.040	1.650	0.050	0.010	0.076	0.210	2.00	0.110	0.000	0.000	0.060	0.190	0.235
HIGH	0.640	0.880	0.180	7.920	0.500	0.040	0.750	0.540	3.28	0.570	0.270	0.100	0.500	0.863	2.000

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- H8 — MUSCLE

LENGTH	NUM	10	MEAN	0.830	S. D.	0.000	LOW	0.830	HIGH	0.830					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0001	0001	0000	0000	0000	0000	0005	0007	0000	0001	0000
MEAN	0.344	0.432	0.079	7.013	0.557	0.034	0.279	0.305	3.65	0.233	0.380	0.537	0.149	0.549	0.670
S. D.	0.100	0.213	0.043	3.472	0.790	0.016	0.159	0.121	1.47	0.105	0.299	0.629	0.048	0.226	0.332
LOW	0.220	0.060	0.030	1.310	0.145	0.020	0.090	0.075	2.19	0.150	0.120	0.060	0.080	0.250	0.360
HIGH	0.570	0.810	0.150	11.100	2.500	0.070	0.630	0.485	6.25	0.460	0.870	1.250	0.255	0.880	1.370

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- I7 — MUSCLE

LENGTH	NUM	10	MEAN	1.017	S. D.	0.056	LOW	0.870	HIGH	1.075					
WEIGHT	NUM	1	MEAN	1.040	S. D.	0.000	LOW	1.040	HIGH	1.040					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000	0007	0007	0000	0001	0000
MEAN	0.825	0.594	0.058	3.999	0.404	0.032	0.124	0.259	3.41	0.146	0.187	0.193	0.114	0.586	0.915
S. D.	0.411	0.276	0.027	1.244	0.309	0.013	0.051	0.090	0.95	0.041	0.219	0.122	0.055	0.223	0.579
LOW	0.195	0.310	0.030	2.462	0.020	0.010	0.040	0.130	2.37	0.070	0.060	0.060	0.055	0.250	0.360
HIGH	1.600	1.060	0.115	6.570	1.115	0.050	0.190	0.410	5.44	0.215	0.440	0.300	0.210	1.000	1.880

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- I7 — LIVER

LENGTH	NUM	10	MEAN	1.017	S. D.	0.056	LOW	0.870	HIGH	1.075					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0000	0000	0000	0001	0004	0000	0000	0000	0005	0007	0000	0002	0001
MEAN	0.174	0.278	0.566	6.307	0.327	0.069	0.092	2.370	5.13	0.081	0.188	0.360	0.326	0.376	0.328
S. D.	0.122	0.247	0.343	3.095	0.226	0.074	0.056	2.140	2.32	0.059	0.088	0.044	0.155	0.245	0.297
LOW	0.040	0.060	0.100	2.210	0.040	0.010	0.020	0.440	2.50	0.010	0.060	0.310	0.140	0.060	0.060
HIGH	0.360	0.750	1.130	12.975	0.665	0.230	0.160	7.500	10.00	0.210	0.310	0.390	0.540	0.810	1.000

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- M8 — MUSCLE

LENGTH	NUM	1	MEAN	0.810	S. D.	0.000	LOW	0.810	HIGH	0.810					
WEIGHT	NUM	1	MEAN	1.814	S. D.	0.000	LOW	1.814	HIGH	1.814					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0001	0001	0000	0000	0000
MEAN	0.700	0.050	0.140	9.900	0.890	0.000	0.320	0.290	2.86	0.000	0.000	0.000	0.070	0.360	0.930
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.700	0.050	0.140	9.900	0.890	0.000	0.320	0.290	2.86	0.000	0.000	0.000	0.070	0.360	0.930

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- N1 — MUSCLE

LENGTH	NUM	8	MEAN	0.895	S. D.	0.000	LOW	0.895	HIGH	0.895					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0008
N DET.	0000	0001	0003	0000	0000	0004	0000	0000	0000	0003	0007	0009	0000	0003	0000
MEAN	1.059	0.342	0.069	7.148	0.450	0.068	0.173	0.252	3.61	0.170	0.095	0.000	0.126	0.617	0.753
S. D.	0.292	0.145	0.029	2.684	0.178	0.050	0.077	0.090	1.34	0.100	0.049	0.000	0.058	0.453	0.585
LOW	0.720	0.150	0.040	4.400	0.220	0.030	0.050	0.125	1.61	0.070	0.060	0.000	0.040	0.120	0.350
HIGH	1.560	0.575	0.110	12.600	0.790	0.150	0.310	0.450	6.43	0.360	0.130	0.000	0.200	1.400	2.130

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- R2 — MUSCLE

LENGTH	NUM	7	MEAN	0.810	S. D.	0.090	LOW	0.668	HIGH	0.956					
WEIGHT	NUM	6	MEAN	2.482	S. D.	1.066	LOW	1.210	HIGH	3.856					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0006
N DET.	0000	0000	0001	0000	0000	0005	0000	0000	0000	0001	0004	0006	0001	0001	0000
MEAN	0.313	0.344	0.094	5.881	0.333	0.045	0.250	0.374	5.20	0.254	0.260	0.280	0.313	1.193	10.504
S. D.	0.115	0.050	0.036	2.358	0.153	0.021	0.099	0.115	2.16	0.116	0.159	0.000	0.151	0.722	13.953
LOW	0.170	0.280	0.055	2.200	0.080	0.030	0.100	0.210	2.57	0.125	0.140	0.000	0.070	0.203	0.500
HIGH	0.500	0.405	0.140	9.760	0.530	0.060	0.430	0.520	8.50	0.390	0.440	0.280	0.480	2.330	38.375

DOGFISH, SPINY — SQUALUS ACANTHIAS — 141007 — AREA- PACIFIC NORTHWEST — SITE- R5 — MUSCLE

LENGTH	NUM	2	MEAN	0.685	S. D.	0.000	LOW	0.685	HIGH	0.685					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0002	0002	0000	0001	.0000
MEAN	0.195	0.165	0.070	6.700	0.155	0.000	0.175	0.195	3.04	0.285	0.000	0.000	0.035	1.430	1.475
S. D.	0.078	0.021	0.000	5.940	0.106	0.000	0.106	0.120	0.76	0.106	0.000	0.000	0.007	0.000	0.601
LOW	0.140	0.150	0.000	2.500	0.080	0.000	0.100	0.110	2.50	0.210	0.000	0.000	0.030	0.000	1.050
HIGH	0.250	0.180	0.070	10.900	0.230	0.000	0.250	0.280	3.57	0.360	0.000	0.000	0.040	1.430	1.900

HAMMERHEAD, SCALLOPED — SPHYRNA LEWINI — 143001 — AREA- NORTH ATLANTIC — SITE- S7 — MUSCLE

LENGTH	NUM	6	MEAN	1.450	S. D.	0.055	LOW	1.380	HIGH	1.530					
WEIGHT	NUM	6	MEAN	34.428	S. D.	4.660	LOW	29.510	HIGH	42.222					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	1.453	1.288	0.093	4.334	0.878	0.038	0.122	0.646	4.82	0.379	0.215	1.090	0.105	0.713	0.483
S. D.	0.225	0.904	0.086	1.558	0.368	0.010	0.043	0.386	1.73	0.300	0.035	0.665	0.038	0.141	0.334
LOW	1.195	0.440	0.035	2.516	0.370	0.020	0.080	0.130	2.40	0.170	0.190	0.620	0.070	0.560	0.060
HIGH	1.820	2.810	0.260	7.043	1.470	0.050	0.190	1.310	7.19	0.870	0.240	1.560	0.160	0.940	1.090

HAMMERHEAD, SCALLOPED — SPHYRNA LEWINI — 143001 — AREA- SOUTH ATLANTIC — SITE- C5 — MUSCLE

LENGTH	NUM	6	MEAN	1.593	S. D.	0.246	LOW	1.290	HIGH	1.945					
WEIGHT	NUM	5	MEAN	49.758	S. D.	29.123	LOW	20.884	HIGH	90.800					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0004	0000	0000	0000
MEAN	2.547	0.854	0.076	5.973	0.836	0.035	0.208	0.461	5.05	0.231	0.117	0.185	0.128	0.704	0.521
S. D.	0.647	0.241	0.039	2.320	0.371	0.016	0.137	0.213	0.78	0.026	0.051	0.134	0.034	0.175	0.207
LOW	1.980	0.560	0.030	2.650	0.420	0.020	0.060	0.090	4.37	0.195	0.060	0.090	0.095	0.380	0.240
HIGH	3.530	1.275	0.120	8.770	1.415	0.060	0.440	0.625	6.56	0.260	0.160	0.280	0.190	0.880	0.750

HAMMERHEAD, SMOOTH — SPHYRNA ZYGAENA — 143005 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	10	MEAN	1.564	S. D.	0.239	LOW	1.153	HIGH	1.800					
WEIGHT	NUM	9	MEAN	30.816	S. D.	15.389	LOW	17.252	HIGH	61.235					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0009	0010	0009	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0003	0000	0001	0000	0001	0008	0008	0000	0002	0000
MEAN	2.663	0.658	0.077	7.225	1.150	0.025	0.227	0.420	4.53	0.155	0.065	0.605	0.106	0.656	0.443
S. D.	0.810	0.393	0.025	3.687	0.547	0.010	0.239	0.073	1.74	0.076	0.078	0.332	0.031	0.196	0.148
LOW	1.755	0.170	0.040	3.216	0.620	0.010	0.060	0.330	3.21	0.050	0.010	0.370	0.060	0.390	0.200
HIGH	3.930	1.503	0.120	13.620	2.300	0.040	0.870	0.540	9.25	0.280	0.120	0.840	0.140	0.940	0.690

HAMMERHEAD, SMOOTH — SPHYRNA ZYGAENA — 143005 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM	7	MEAN	1.498	S. D.	0.261	LOW	1.153	HIGH	1.800					
WEIGHT	NUM	6	MEAN	35.783	S. D.	17.090	LOW	16.027	HIGH	61.235					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0006
N DET.	0000	0000	0000	0000	0000	0004	0000	0000	0000	0001	0001	0003	0000	0002	0000
MEAN	2.751	0.535	1.735	33.781	10.806	0.053	0.190	2.965	18.02	0.557	0.570	0.408	1.394	0.758	0.253
S. D.	2.332	0.313	1.871	31.517	12.718	0.021	0.166	0.881	9.73	0.467	0.103	0.377	0.530	0.556	0.069
LOW	0.440	0.100	0.470	6.600	1.030	0.030	0.050	1.845	8.32	0.170	0.470	0.090	0.635	0.120	0.185
HIGH	7.050	0.930	5.820	84.000	37.500	0.070	0.500	4.280	31.78	1.430	0.720	0.940	2.180	1.650	0.380

SHARK, WHITE — CARCHARODON CARCHARIAS — 144001 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	2	MEAN	1.325	S. D.	0.120	LOW	1.240	HIGH	1.410					
WEIGHT	NUM	2	MEAN	25.878	S. D.	8.347	LOW	19.976	HIGH	31.780					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.585	0.285	0.068	9.765	0.600	0.033	0.255	0.725	4.42	0.220	0.000	0.000	0.060	1.130	0.410
S. D.	0.177	0.049	0.011	0.000	0.000	0.004	0.106	0.134	1.12	0.113	0.000	0.000	0.000	0.000	0.000
LOW	0.460	0.250	0.060	0.000	0.000	0.030	0.180	0.630	3.63	0.140	0.000	0.000	0.060	0.000	0.000
HIGH	0.710	0.320	0.075	9.765	0.600	0.035	0.330	0.820	5.21	0.300	0.000	0.000	0.060	1.130	0.410

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

MAKO, SHORTFIN — ISURUS OXYRINCHUS — 144003 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	3	MEAN	1.828	S. D.	0.118	LOW	1.710	HIGH	1.945					
WEIGHT	NUM	3	MEAN	63.863	S. D.	15.780	LOW	46.762	HIGH	77.861					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	2.410	0.793	0.057	5.883	1.112	0.057	0.103	0.357	2.92	0.213	0.060	0.190	0.080	0.627	0.500
S. D.	1.215	0.437	0.029	2.948	0.846	0.064	0.075	0.393	1.03	0.025	0.000	0.000	0.046	0.125	0.104
LOW	1.550	0.380	0.040	2.550	0.490	0.020	0.060	0.130	1.75	0.190	0.000	0.000	0.030	0.500	0.380
HIGH	3.800	1.250	0.090	8.150	2.075	0.130	0.190	0.810	3.69	0.240	0.060	0.190	0.120	0.750	0.560

MAKO, SHORTFIN — ISURUS OXYRINCHUS — 144003 — AREA- NORTH ATLANTIC — SITE- N2 — LIVER

LENGTH	NUM	2	MEAN	1.888	S. D.	0.081	LOW	1.830	HIGH	1.945					
WEIGHT	NUM	2	MEAN	72.413	S. D.	7.705	LOW	66.965	HIGH	77.861					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	1.175	0.280	0.685	13.460	1.620	0.080	0.155	4.345	8.63	0.160	0.250	0.000	0.295	0.535	0.315
S. D.	1.167	0.042	0.389	1.235	0.891	0.028	0.134	0.304	2.74	0.071	0.000	0.000	0.064	0.134	0.092
LOW	0.350	0.250	0.410	12.587	0.990	0.060	0.060	4.130	6.69	0.110	0.000	0.000	0.250	0.440	0.250
HIGH	2.000	0.310	0.960	14.333	2.250	0.100	0.250	4.560	10.56	0.210	0.250	0.000	0.340	0.630	0.380

SHARK, BLACKTIP — CARCHARHINUS LIMBATUS — 145006 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	10	MEAN	0.818	S. D.	0.137	LOW	0.642	HIGH	1.092					
WEIGHT	NUM	10	MEAN	4.151	S. D.	4.745	LOW	1.873	HIGH	17.479					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.490	0.731	0.069	11.046	0.800	0.043	0.204	0.318	3.45	0.200	0.244	0.306	0.105	0.751	0.459
S. D.	0.245	0.597	0.036	5.777	0.345	0.013	0.186	0.116	0.97	0.043	0.146	0.227	0.027	0.302	0.159
LOW	0.156	0.250	0.030	4.262	0.280	0.025	0.060	0.040	1.25	0.145	0.095	0.060	0.050	0.190	0.310
HIGH	1.015	2.360	0.165	23.400	1.420	0.065	0.690	0.455	4.78	0.280	0.440	0.630	0.135	1.190	0.815

SHARK, BLACKTIP — CARCHARHINUS LIMBATUS — 145006 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	3	MEAN	1.011	S. D.	0.140	LOW	0.850	HIGH	1.092					
WEIGHT	NUM	3	MEAN	7.241	S. D.	8.874	LOW	1.748	HIGH	17.479					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	0.065	0.342	0.443	13.677	1.947	0.045	0.153	1.803	4.72	0.227	0.280	0.000	0.750	0.540	0.470
S. D.	0.007	0.174	0.046	4.668	0.474	0.030	0.163	0.333	1.51	0.139	0.042	0.000	0.376	0.315	0.177
LOW	0.060	0.155	0.390	10.282	1.400	0.025	0.040	1.500	3.12	0.110	0.250	0.000	0.480	0.190	0.280
HIGH	0.070	0.500	0.470	19.000	2.240	0.080	0.340	2.160	6.13	0.380	0.310	0.000	1.180	0.800	0.630

SHARK, BLACKTIP — CARCHARHINUS LIMBATUS — 145006 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	1	MEAN	1.190	S. D.	0.000	LOW	1.190	HIGH	1.190					
WEIGHT	NUM	1	MEAN	18.144	S. D.	0.000	LOW	18.144	HIGH	18.144					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0003	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0001
MEAN	0.578	0.501	0.169	9.141	1.359	0.050	0.133	0.468	5.12	0.348	.120	0.440	0.123	0.573	0.377
S. D.	0.520	0.303	0.209	1.200	0.553	0.036	0.074	0.238	2.14	0.310	0.000	0.000	0.046	0.127	0.164
LOW	0.020	0.250	0.035	7.925	0.980	0.020	0.050	0.295	3.44	0.060	0.000	0.440	0.090	0.450	0.190
HIGH	1.190	0.940	0.480	10.350	2.170	0.100	0.230	0.740	8.10	0.780	0.120	0.440	0.190	0.750	0.500

SHARK, BLACKTIP — CARCHARHINUS LIMBATUS — 145006 — AREA- SOUTH ATLANTIC — SITE- M1 — LIVER

LENGTH	NUM	1	MEAN	1.190	S. D.	0.000	LOW	1.190	HIGH	1.190					
WEIGHT	NUM	1	MEAN	18.144	S. D.	0.000	LOW	18.144	HIGH	18.144					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.730	0.255	1.070	48.675	31.350	0.000	0.100	1.780	9.28	0.360	0.000	0.000	0.610	0.000	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.730	0.255	1.070	48.675	31.350	0.000	0.100	1.780	9.28	0.360	0.000	0.000	0.610	0.000	0.380

SHARK, BLACKTIP — CARCHARHINUS LIMBATUS — 145006 — AREA- GULF — SITE- D7 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	2.020	0.740	0.038	4.396	1.218	0.025	0.328	0.263	3.23	0.165	0.380	0.310	0.115	0.635	0.565
S. D.	0.764	0.014	0.011	3.367	0.265	0.007	0.237	0.018	0.04	0.148	0.000	0.000	0.049	0.120	0.262
LOW	1.480	0.730	0.030	2.015	1.030	0.020	0.160	0.250	3.20	0.060	0.000	0.000	0.080	0.550	0.380
HIGH	2.560	0.750	0.045	6.776	1.405	0.030	0.495	0.275	3.26	0.270	0.380	0.310	0.150	0.720	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SHARK, SANDBAR — CARCHARHINUS MILBERTI — 145009 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	10	MEAN	1.362	S. D.	0.224	LOW	0.997	HIGH	1.745					
WEIGHT	NUM	10	MEAN	27.539	S. D.	14.164	LOW	9.534	HIGH	54.934					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0006	0010	0000	0000	0000
MEAN	1.490	1.221	0.085	7.975	0.678	0.029	0.158	0.474	6.71	0.214	0.173	0.000	0.097	0.646	0.533
S. D.	0.351	0.613	0.044	3.075	0.247	0.012	0.103	0.352	2.64	0.059	0.080	0.000	0.034	0.142	0.108
LOW	0.960	0.440	0.040	2.766	0.400	0.010	0.060	0.060	4.38	0.130	0.060	0.000	0.040	0.440	0.380
HIGH	2.330	2.380	0.160	13.865	1.120	0.050	0.380	1.180	11.75	0.290	0.250	0.000	0.160	0.970	0.700

SHARK, SANDBAR — CARCHARHINUS MILBERTI — 145009 — AREA- NORTH ATLANTIC — SITE- N2 — LIVER

LENGTH	NUM	7	MEAN	1.387	S. D.	0.238	LOW	0.997	HIGH	1.745					
WEIGHT	NUM	7	MEAN	29.483	S. D.	14.068	LOW	9.534	HIGH	54.934					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0006	0007	0007	0007	0007	0007	0007	0007	0006	0006	0007	0007	0006
N DET.	0000	0001	0001	0000	0000	0003	0003	0000	0000	0001	0001	0003	0000	0002	0000
MEAN	6.566	0.620	0.366	28.321	2.134	0.035	0.141	1.944	9.69	0.242	0.228	0.293	0.596	0.336	0.367
S. D.	10.609	0.356	0.253	18.574	0.592	0.026	0.089	1.834	7.33	0.186	0.085	0.075	0.294	0.036	0.311
LOW	0.670	0.350	0.040	5.500	1.520	0.010	0.060	0.110	0.93	0.090	0.180	0.250	0.180	0.310	0.200
HIGH	30.200	1.300	0.690	53.300	3.280	0.070	0.235	5.500	23.93	0.500	0.380	0.380	0.930	0.380	1.000

SHARK, SANDBAR — CARCHARHINUS MILBERTI — 145009 — AREA- GULF — SITE- D7 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	1.088	0.990	0.053	8.025	1.025	0.038	0.090	0.317	4.21	0.183	0.620	0.200	0.058	0.613	1.095
S. D.	0.865	0.764	0.015	0.177	0.247	0.004	0.106	0.051	0.48	0.127	0.000	0.000	0.028	0.018	0.903
LOW	0.100	0.500	0.040	7.900	0.850	0.035	0.010	0.260	3.70	0.070	0.000	0.000	0.030	0.600	0.380
HIGH	1.705	1.870	0.070	8.150	1.200	0.040	0.210	0.360	4.65	0.320	0.620	0.200	0.085	0.625	2.110

SHARK, DUSKY — CARCHARHINUS OBSCURUS — 145010 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	1	MEAN	1.340	S. D.	0.000	LOW	1.340	HIGH	1.340					
WEIGHT	NUM	1	MEAN	22.700	S. D.	0.000	LOW	22.700	HIGH	22.700					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.780	1.250	0.100	7.550	1.050	0.080	0.190	0.310	3.94	0.270	0.000	0.000	0.880	0.340	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.780	1.250	0.100	7.550	1.050	0.080	0.190	0.310	3.94	0.270	0.000	0.000	0.880	0.340	0.220

SHARK, DUSKY — CARCHARHINUS OBSCURUS — 145010 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	1	MEAN	1.981	S. D.	0.000	LOW	1.981	HIGH	1.981					
WEIGHT	NUM	1	MEAN	38.590	S. D.	0.000	LOW	38.590	HIGH	38.590					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.570	0.440	0.090	7.900	1.300	0.050	0.190	0.710	8.50	0.190	0.000	0.000	0.110	0.440	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.570	0.440	0.090	7.900	1.300	0.050	0.190	0.710	8.50	0.190	0.000	0.000	0.110	0.440	0.630

SHARK, DUSKY — CARCHARHINUS OBSCURUS — 145010 — AREA- GULF — SITE- D7 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	1.383	0.620	0.083	21.805	0.800	0.065	0.083	0.258	4.01	0.268	0.000	0.000	0.090	0.690	0.293
S. D.	0.279	0.240	0.039	0.000	0.000	0.000	0.025	0.032	0.90	0.074	0.000	0.000	0.085	0.000	0.053
LOW	1.185	0.450	0.055	0.000	0.000	0.000	0.065	0.235	3.37	0.215	0.000	0.000	0.030	0.000	0.255
HIGH	1.580	0.790	0.110	21.805	0.800	0.065	0.100	0.280	4.64	0.320	0.000	0.000	0.150	0.690	0.330

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- H8 — MUSCLE

LENGTH	NUM	17	MEAN	0.861	S. D.	0.117	LOW	0.686	HIGH	1.194					
WEIGHT	NUM	10	MEAN	1.979	S. D.	0.411	LOW	1.418	HIGH	2.438					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0021	0021	0021	0021	0020	0021	0021	0020	0020	0021	0021	0021	0021	0021	0021
N DET.	0000	0000	0001	0000	0000	0004	0000	0000	0000	0001	0015	0016	0000	0002	0000
MEAN	0.400	0.881	0.287	9.476	0.788	0.032	0.251	0.288	4.23	0.223	0.202	0.362	0.191	0.797	0.521
S. D.	0.288	0.480	0.757	3.971	0.284	0.013	0.141	0.128	0.96	0.094	0.156	0.436	0.103	0.329	0.183
LOW	0.060	0.310	0.040	4.820	0.303	0.010	0.050	0.040	2.94	0.080	0.060	0.060	0.085	0.380	0.285
HIGH	1.050	2.060	3.475	20.330	1.342	0.070	0.560	0.640	6.72	0.440	0.440	1.090	0.450	1.590	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	1.120	S. D.	0.000	LOW	1.120	HIGH	1.120					
WEIGHT	NUM	1	MEAN	4.540	S. D.	0.000	LOW	4.540	HIGH	4.540					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	1.700	0.940	0.080	7.180	1.320	0.020	0.130	0.260	5.38	0.190	0.000	0.000	0.080	0.000	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.700	0.940	0.080	7.180	1.320	0.020	0.130	0.260	5.38	0.190	0.000	0.000	0.080	0.000	0.560

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	3	MEAN	0.887	S. D.	0.025	LOW	0.860	HIGH	0.910					
WEIGHT	NUM	4	MEAN	2.601	S. D.	0.396	LOW	2.210	HIGH	3.100					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0003	0000	0004	0000
MEAN	1.118	0.728	0.081	6.669	0.438	0.026	0.149	0.186	4.35	0.239	0.000	0.170	0.096	0.000	0.549
S. D.	0.684	0.356	0.025	4.038	0.258	0.014	0.087	0.091	0.81	0.030	0.000	0.000	0.025	0.000	0.232
LOW	0.320	0.500	0.050	1.050	0.080	0.010	0.060	0.100	3.44	0.210	0.000	0.000	0.070	0.000	0.285
HIGH	1.760	1.250	0.110	10.360	0.695	0.040	0.250	0.310	5.38	0.280	0.000	0.170	0.130	0.000	0.810

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	1	MEAN	1.070	S. D.	0.000	LOW	1.070	HIGH	1.070					
WEIGHT	NUM	1	MEAN	4.540	S. D.	0.000	LOW	4.540	HIGH	4.540					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	1.675	0.595	0.060	8.800	0.425	0.030	0.110	0.180	7.22	0.195	0.000	0.000	0.115	0.000	0.575
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.675	0.595	0.060	8.800	0.425	0.030	0.110	0.180	7.22	0.195	0.000	0.000	0.115	0.000	0.575

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- N4 — MUSCLE

LENGTH	NUM	9	MEAN	0.933	S. D.	0.123	LOW	0.770	HIGH	1.100					
WEIGHT	NUM	6	MEAN	2.366	S. D.	0.522	LOW	1.711	HIGH	2.974					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0010	0010	0000	0008	0000
MEAN	1.084	0.989	0.079	6.511	0.581	0.037	0.215	0.291	4.65	0.225	0.000	0.000	0.116	0.500	0.513
S. D.	0.629	0.511	0.029	4.387	0.221	0.009	0.148	0.138	1.52	0.068	0.000	0.000	0.059	0.269	0.114
LOW	0.300	0.560	0.040	1.900	0.250	0.020	0.070	0.100	2.56	0.090	0.000	0.000	0.060	0.310	0.380
HIGH	1.980	1.940	0.140	16.500	0.810	0.050	0.500	0.560	6.97	0.310	0.000	0.000	0.270	0.690	0.810

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- N5 — MUSCLE

LENGTH	NUM	3	MEAN	0.937	S. D.	0.055	LOW	0.900	HIGH	1.000					
WEIGHT	NUM	3	MEAN	2.848	S. D.	0.397	LOW	2.555	HIGH	3.300					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	1.127	1.067	0.060	3.675	0.607	0.037	0.087	0.347	3.98	0.210	0.000	0.000	0.090	0.565	0.740
S. D.	0.718	0.497	0.026	1.425	0.129	0.012	0.046	0.208	0.63	0.197	0.000	0.000	0.000	0.092	0.494
LOW	0.580	0.690	0.030	2.475	0.500	0.030	0.060	0.120	3.25	0.030	0.000	0.000	0.090	0.500	0.440
HIGH	1.940	1.630	0.080	5.250	0.750	0.050	0.140	0.530	4.38	0.420	0.000	0.000	0.090	0.630	1.310

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- N7 — MUSCLE

LENGTH	NUM	20	MEAN	0.927	S. D.	0.119	LOW	0.740	HIGH	1.200					
WEIGHT	NUM	18	MEAN	2.571	S. D.	0.609	LOW	1.510	HIGH	3.450					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020	0019
N DET.	0000	0000	0000	0000	0001	0002	0001	0000	0000	0000	0017	0015	0000	0006	0000
MEAN	1.154	0.868	0.085	10.015	0.962	0.034	0.192	0.301	4.36	0.207	0.133	0.208	0.120	0.601	0.598
S. D.	0.695	0.556	0.024	5.741	0.344	0.014	0.121	0.129	1.19	0.060	0.023	0.072	0.042	0.244	0.277
LOW	0.350	0.250	0.055	1.230	0.190	0.010	0.060	0.130	2.90	0.060	0.120	0.130	0.080	0.250	0.310
HIGH	3.050	2.190	0.150	21.750	1.840	0.060	0.525	0.710	7.75	0.300	0.160	0.310	0.250	1.190	1.410

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- N8 — MUSCLE

LENGTH	NUM	2	MEAN	0.848	S. D.	0.018	LOW	0.835	HIGH	0.860					
WEIGHT	NUM	2	MEAN	2.122	S. D.	0.316	LOW	1.898	HIGH	2.345					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.520	0.845	0.070	6.503	0.755	0.035	0.060	0.190	6.31	0.180	0.000	0.000	0.090	0.000	0.550
S. D.	0.085	0.049	0.014	2.188	0.148	0.007	0.000	0.071	2.47	0.113	0.000	0.000	0.000	0.000	0.113
LOW	0.460	0.810	0.060	4.955	0.650	0.030	0.000	0.140	4.56	0.100	0.000	0.000	0.090	0.000	0.470
HIGH	0.580	0.880	0.080	8.050	0.860	0.040	0.060	0.240	8.05	0.260	0.000	0.000	0.090	0.000	0.630

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- R6 — MUSCLE

LENGTH	NUM	32	MEAN	1.062	S. D.	0.130	LOW	0.740	HIGH	1.240					
WEIGHT	NUM	32	MEAN	5.233	S. D.	2.251	LOW	1.488	HIGH	10.440					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0032	0032	0032	0031	0031	0032	0031	0032	0032	0032	0032	0032	0032	0032	0028
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0030	0028	0000	0008	0000
MEAN	1.363	1.053	0.081	11.888	0.646	0.037	0.236	0.393	4.23	0.225	0.190	0.341	0.120	0.697	0.537
S. D.	0.555	0.403	0.023	11.040	0.381	0.009	0.186	0.242	1.18	0.081	0.085	0.100	0.057	0.196	0.189
LOW	0.365	0.380	0.040	1.290	0.050	0.020	0.060	0.150	1.94	0.040	0.130	0.220	0.050	0.310	0.310
HIGH	2.350	2.000	0.140	37.800	1.620	0.060	0.810	1.250	7.50	0.430	0.250	0.455	0.290	1.000	1.000

DOGFISH, SMOOTH — MUSTELUS CANIS — 145018 — AREA- NORTH ATLANTIC — SITE- S4 — MUSCLE

LENGTH	NUM	1	MEAN	0.920	S. D.	0.000	LOW	0.920	HIGH	0.920					
WEIGHT	NUM	1	MEAN	2.495	S. D.	0.000	LOW	2.495	HIGH	2.495					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.020	0.310	0.040	1.800	1.120	0.030	0.140	0.390	3.06	0.110	0.000	0.000	0.130	0.560	1.130
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.020	0.310	0.040	1.800	1.120	0.030	0.140	0.390	3.06	0.110	0.000	0.000	0.130	0.560	1.130

SHARK, BLUE — PRIONACE GLAUCA — 145023 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	14	MEAN	1.897	S. D.	0.296	LOW	1.530	HIGH	2.460					
WEIGHT	NUM	14	MEAN	45.872	S. D.	22.959	LOW	21.565	HIGH	88.758					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0012	0014	0014	0013	0014	0014	0014	0014	0013	0014	0014
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0008	0012	0000	0000	0000
MEAN	0.880	0.565	0.099	14.579	0.383	0.031	0.160	0.466	6.70	0.231	0.123	0.315	0.110	0.546	0.604
S. D.	0.433	0.348	0.043	10.204	0.149	0.010	0.083	0.205	1.58	0.060	0.105	0.092	0.040	0.167	0.228
LOW	0.350	0.250	0.050	4.725	0.130	0.010	0.060	0.190	4.25	0.160	0.060	0.250	0.060	0.190	0.310
HIGH	1.930	1.630	0.230	45.000	0.690	0.050	0.310	0.930	9.56	0.350	0.310	0.380	0.220	0.750	1.190

SHARK, BLUE — PRIONACE GLAUCA — 145023 — AREA- NORTH ATLANTIC — SITE- N2 — LIVER

LENGTH	NUM	9	MEAN	1.798	S. D.	0.270	LOW	1.530	HIGH	2.270					
WEIGHT	NUM	9	MEAN	40.045	S. D.	23.237	LOW	21.565	HIGH	88.758					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0007	0007	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009
N DET.	0002	0000	0000	0000	0000	0002	0005	0000	0000	0000	0001	0005	0000	0002	0000
MEAN	0.127	0.336	4.096	40.739	1.496	0.034	0.156	1.218	14.99	0.273	0.420	0.208	0.818	0.493	0.288
S. D.	0.148	0.132	1.767	26.812	0.288	0.047	0.112	0.363	7.04	0.234	0.116	0.029	0.327	0.287	0.071
LOW	0.020	0.130	1.880	4.980	1.100	0.010	0.060	0.860	8.11	0.120	0.250	0.190	0.090	0.310	0.200
HIGH	0.380	0.560	8.000	73.450	1.820	0.140	0.315	2.000	30.00	0.820	0.560	0.250	1.310	1.130	0.380

SHARK, ATL. SHARPNOSE — RHIZOPRIONODON TERRAENOVAE — 145025 — AREA- SOUTH ATLANTIC — SITE- M1 — MUSCLE

LENGTH	NUM	1	MEAN	0.770	S. D.	0.000	LOW	0.770	HIGH	0.770					
WEIGHT	NUM	1	MEAN	3.632	S. D.	0.000	LOW	3.632	HIGH	3.632					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.830	0.690	0.090	11.055	1.240	0.020	0.090	1.030	3.25	2.500	0.250	0.000	0.090	1.120	0.870
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.830	0.690	0.090	11.055	1.240	0.020	0.090	1.030	3.25	2.500	0.250	0.000	0.090	1.120	0.870

JACKSMELT — ATHERINOPSIS CALIFORNIENSIS — 149004 — AREA- CALIFORNIA — SITE- F4 — WHOLE

LENGTH	NUM	20	MEAN	0.298	S. D.	0.030	LOW	0.250	HIGH	0.370					
WEIGHT	NUM	20	MEAN	0.180	S. D.	0.034	LOW	0.091	HIGH	0.227					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020	0020	0019
N DET.	0004	0000	0000	0001	0000	0000	0000	0000	0000	0000	0005	0000	0000	0000	0000
MEAN	0.062	1.398	0.171	2.209	0.509	0.093	0.283	0.602	29.05	0.353	0.240	0.747	0.608	1.518	8.899
S. D.	0.038	0.594	0.046	1.535	0.259	0.033	0.177	0.229	12.47	0.063	0.081	0.353	0.134	0.378	8.004
LOW	0.020	0.720	0.080	0.225	0.280	0.050	0.060	0.365	12.26	0.250	0.120	0.250	0.340	0.910	0.220
HIGH	0.130	3.370	0.250	6.575	1.520	0.205	0.880	1.260	75.00	0.480	0.440	1.485	0.880	2.190	27.265

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	0.490	S. D.	0.000	LOW	0.490	HIGH	0.490					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.305	1.265	0.296	12.000	0.735	0.135	0.860	0.626	8.35	0.603	0.410	1.300	1.386	1.255	0.950
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.305	1.265	0.296	12.000	0.735	0.135	0.860	0.626	8.35	0.603	0.410	1.300	1.386	1.255	0.950

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- I7 — LIVER

LENGTH	NUM	1	MEAN	0.490	S. D.	0.000	LOW	0.490	HIGH	0.490					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.120	1.060	0.510	5.650	0.880	0.010	0.310	3.310	13.13	0.220	0.130	0.310	0.020	0.500	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	1.060	0.510	5.650	0.880	0.010	0.310	3.310	13.13	0.220	0.130	0.310	0.020	0.500	0.380

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- J6 — MUSCLE

LENGTH	NUM	3	MEAN	0.465	S. D.	0.011	LOW	0.454	HIGH	0.475					
WEIGHT	NUM	3	MEAN	0.615	S. D.	0.017	LOW	0.604	HIGH	0.635					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0003	0000	0003	0000
MEAN	0.097	0.468	0.068	12.205	0.427	0.042	0.442	0.512	6.62	0.393	0.160	0.000	0.337	0.000	0.735
S. D.	0.035	0.030	0.014	1.611	0.327	0.008	0.272	0.105	1.14	0.042	0.042	0.000	0.064	0.000	0.105
LOW	0.060	0.440	0.060	10.350	0.050	0.035	0.130	0.395	5.31	0.360	0.130	0.000	0.300	0.000	0.630
HIGH	0.130	0.500	0.085	13.250	0.630	0.050	0.630	0.600	7.38	0.440	0.190	0.000	0.410	0.000	0.840

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- J7 — MUSCLE

LENGTH	NUM	14	MEAN	0.443	S. D.	0.028	LOW	0.357	HIGH	0.472					
WEIGHT	NUM	14	MEAN	0.535	S. D.	0.101	LOW	0.245	HIGH	0.625					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0014	0014	0014	0012	0014	0013	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0009	0000	0013	0000
MEAN	0.121	0.584	0.094	18.631	0.649	0.076	0.343	0.426	8.54	0.392	0.166	0.196	0.839	0.250	0.928
S. D.	0.041	0.218	0.017	11.336	0.253	0.033	0.227	0.088	1.20	0.097	0.044	0.091	0.442	0.000	0.342
LOW	0.060	0.300	0.070	0.460	0.050	0.030	0.130	0.310	6.63	0.240	0.090	0.130	0.130	0.000	0.560
HIGH	0.200	1.130	0.130	47.400	0.970	0.150	0.970	0.640	10.25	0.540	0.250	0.310	1.740	0.250	1.630

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- M9 — MUSCLE

LENGTH	NUM	5	MEAN	0.461	S. D.	0.029	LOW	0.423	HIGH	0.490					
WEIGHT	NUM	5	MEAN	0.866	S. D.	0.087	LOW	0.756	HIGH	0.965					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.206	0.987	0.100	19.620	0.745	0.078	0.238	0.305	7.82	0.323	0.208	0.305	1.251	1.332	1.124
S. D.	0.072	0.285	0.014	8.961	0.070	0.008	0.016	0.070	1.27	0.142	0.033	0.097	0.275	0.154	0.052
LOW	0.130	0.530	0.080	11.725	0.650	0.070	0.220	0.200	6.13	0.150	0.175	0.190	1.010	1.130	1.080
HIGH	0.325	1.230	0.115	33.750	0.800	0.090	0.250	0.370	9.30	0.460	0.250	0.435	1.600	1.500	1.190

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	1	MEAN	0.371	S. D.	0.000	LOW	0.371	HIGH	0.371					
WEIGHT	NUM	1	MEAN	0.704	S. D.	0.000	LOW	0.704	HIGH	0.704					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.115	1.265	0.140	13.816	0.550	0.075	0.190	0.265	5.97	0.340	0.280	0.310	2.085	1.155	1.025
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.115	1.265	0.140	13.816	0.550	0.075	0.190	0.265	5.97	0.340	0.280	0.310	2.085	1.155	1.025

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- N3 — MUSCLE

LENGTH	NUM	1	MEAN	0.455	S. D.	0.000	LOW	0.455	HIGH	0.455					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.220	0.940	0.120	45.450	0.390	0.130	0.410	2.250	7.13	0.510	0.060	0.310	1.130	1.880	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.220	0.940	0.120	45.450	0.390	0.130	0.410	2.250	7.13	0.510	0.060	0.310	1.130	1.880	0.000

SKATE, LITTLE — RAJA ERINACEA — 150005 — AREA- NORTH ATLANTIC — SITE- N3 — LIVER

LENGTH	NUM	1	MEAN	0.455	S. D.	0.000	LOW	0.455	HIGH	0.455					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.750	0.890	13.975	1.230	0.030	0.000	0.750	16.25	0.430	0.880	0.380	1.190	0.440	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.750	0.890	13.975	1.230	0.030	0.000	0.750	16.25	0.430	0.880	0.380	1.190	0.440	0.560

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

SKATE, LITTLE — RAJA ERINACEA — 150005 AREA- NORTH ATLANTIC — SITE- 01 — MUSCLE

LENGTH	NUM	3	MEAN	0.453	S. D.	0.037	LOW	0.415	HIGH	0.488					
WEIGHT	NUM	3	MEAN	0.584	S. D.	0.152	LOW	0.422	HIGH	0.724					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.237	0.425	0.080	25.300	0.773	0.042	0.380	0.303	6.40	0.280	0.530	0.630	0.317	0.310	0.719
S. D.	0.110	0.066	0.010	17.161	0.127	0.003	0.130	0.100	0.20	0.061	0.000	0.000	0.072	0.000	0.306
LOW	0.150	0.375	0.070	13.600	0.690	0.040	0.250	0.200	6.25	0.240	0.000	0.000	0.270	0.000	0.467
HIGH	0.360	0.500	0.090	45.000	0.920	0.045	0.510	0.400	6.63	0.350	0.530	0.630	0.400	0.310	1.060

SKATE, LITTLE — RAJA ERINACEA — 150005 AREA- NORTH ATLANTIC — SITE- 02 — MUSCLE

LENGTH	NUM	10	MEAN	0.472	S. D.	0.056	LOW	0.424	HIGH	0.615					
WEIGHT	NUM	10	MEAN	0.779	S. D.	0.506	LOW	0.438	HIGH	2.182					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0008	0000
MEAN	0.107	0.547	0.073	16.522	0.585	0.063	0.312	0.419	7.48	0.459	0.125	0.095	0.578	0.250	0.666
S. D.	0.041	0.356	0.013	7.354	0.208	0.020	0.097	0.076	1.77	0.159	0.049	0.049	0.423	0.000	0.285
LOW	0.055	0.190	0.060	8.150	0.330	0.030	0.190	0.280	5.50	0.210	0.090	0.060	0.130	0.250	0.310
HIGH	0.190	1.380	0.095	32.740	0.920	0.090	0.500	0.510	11.22	0.810	0.160	0.130	1.390	0.250	1.170

SKATE, LITTLE — RAJA ERINACEA — 150005 AREA- NORTH ATLANTIC — SITE- 03 — MUSCLE

LENGTH	NUM	3	MEAN	0.461	S. D.	0.020	LOW	0.442	HIGH	0.482					
WEIGHT	NUM	3	MEAN	0.525	S. D.	0.081	LOW	0.434	HIGH	0.590					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0003	0000
MEAN	0.060	0.417	0.077	10.250	0.720	0.040	0.310	0.353	5.86	0.550	0.190	0.000	0.480	0.000	0.940
S. D.	0.010	0.185	0.015	1.602	0.131	0.010	0.166	0.049	1.23	0.226	0.000	0.000	0.563	0.000	0.537
LOW	0.050	0.310	0.060	8.400	0.570	0.030	0.190	0.320	4.44	0.400	0.000	0.000	0.130	0.000	0.630
HIGH	0.070	0.630	0.090	11.200	0.810	0.050	0.500	0.410	6.69	0.810	0.190	0.000	1.130	0.000	1.560

SKATE, LITTLE — RAJA ERINACEA — 150005 AREA- NORTH ATLANTIC — SITE- P1 — MUSCLE

LENGTH	NUM	7	MEAN	0.456	S. D.	0.014	LOW	0.444	HIGH	0.475					
WEIGHT	NUM	7	MEAN	0.567	S. D.	0.047	LOW	0.521	HIGH	0.631					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0006	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0003	0000
MEAN	0.110	0.607	0.084	13.939	0.767	0.057	0.205	0.297	9.18	0.335	0.203	0.327	0.335	1.145	0.853
S. D.	0.040	0.303	0.018	6.968	0.347	0.034	0.086	0.136	3.07	0.136	0.064	0.119	0.201	0.654	0.394
LOW	0.060	0.300	0.060	4.260	0.450	0.020	0.060	0.080	4.00	0.140	0.130	0.190	0.130	0.380	0.310
HIGH	0.160	1.190	0.110	26.850	1.520	0.110	0.310	0.430	13.56	0.510	0.250	0.410	0.640	1.880	1.440

SKATE, LITTLE — RAJA ERINACEA — 150005 AREA- NORTH ATLANTIC — SITE- P2 — MUSCLE

LENGTH	NUM	6	MEAN	0.451	S. D.	0.033	LOW	0.390	HIGH	0.478					
WEIGHT	NUM	6	MEAN	0.595	S. D.	0.115	LOW	0.381	HIGH	0.695					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0003	0000	0004	0000
MEAN	0.154	0.643	0.113	24.077	0.602	0.069	0.372	0.410	10.52	0.418	0.175	0.267	0.782	0.530	0.924
S. D.	0.077	0.239	0.040	10.415	0.294	0.033	0.165	0.119	2.29	0.087	0.021	0.187	0.646	0.396	0.364
LOW	0.040	0.380	0.090	16.500	0.160	0.030	0.220	0.270	7.44	0.250	0.160	0.130	0.310	0.250	0.630
HIGH	0.230	1.000	0.190	45.000	0.980	0.110	0.630	0.600	13.13	0.480	0.190	0.480	2.070	0.810	1.470

SKATE, WINTER — RAJA OCELLATA — 150012 AREA- NORTH ATLANTIC — SITE- I7 — MUSCLE

LENGTH	NUM	1	MEAN	0.730	S. D.	0.000	LOW	0.730	HIGH	0.730					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.205	0.376	0.070	12.700	0.440	0.000	0.325	0.230	7.30	0.110	0.000	0.000	0.135	1.800	0.300
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.205	0.376	0.070	12.700	0.440	0.000	0.325	0.230	7.30	0.110	0.000	0.000	0.135	1.800	0.300

SKATE, WINTER — RAJA OCELLATA — 150012 AREA- NORTH ATLANTIC — SITE- I7 — LIVER

LENGTH	NUM	1	MEAN	0.730	S. D.	0.000	LOW	0.730	HIGH	0.730					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.650	0.210	4.500	1.450	0.180	0.400	5.710	19.30	0.890	0.300	0.000	0.640	1.250	0.300
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.650	0.210	4.500	1.450	0.180	0.400	5.710	19.30	0.890	0.300	0.000	0.640	1.250	0.300

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

SKATE, WINTER — RAJA OCELLATA — 150012 — AREA- NORTH ATLANTIC — SITE- N2 — MUSCLE

LENGTH	NUM	1	MEAN	0.397	S. D.	0.000	LOW	0.397	HIGH	0.397					
WEIGHT	NUM	1	MEAN	0.832	S. D.	0.000	LOW	0.832	HIGH	0.832					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.180	1.500	0.130	13.875	0.730	0.080	0.250	0.360	6.60	0.390	0.120	0.440	2.000	1.310	1.120
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.180	1.500	0.130	13.875	0.730	0.080	0.250	0.360	6.60	0.390	0.120	0.440	2.000	1.310	1.120

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- G9 — WHOLE

LENGTH	NUM	10	MEAN	0.159	S. D.	0.035	LOW	0.100	HIGH	0.190					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0009	0000	0000	0000	0000	0000	0001	0000	0000	0000	0002	0004	0000	0003	0000
MEAN	0.010	0.621	0.109	2.686	0.445	0.054	0.216	1.022	11.73	0.370	0.176	0.340	0.545	0.944	1.372
S. D.	0.000	0.236	0.061	0.861	0.128	0.018	0.075	0.315	1.95	0.164	0.090	0.230	0.094	0.527	0.491
LOW	0.000	0.360	0.030	1.286	0.300	0.030	0.123	0.670	7.81	0.190	0.060	0.050	0.420	0.250	0.800
HIGH	0.010	1.060	0.210	4.100	0.670	0.080	0.330	1.710	14.46	0.720	0.310	0.620	0.710	1.650	2.590

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- M2 — WHOLE

LENGTH	NUM	7	MEAN	0.155	S. D.	0.013	LOW	0.125	HIGH	0.160					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0006	0000	0002	0000	0000	0004	0000	0000	0000	0001	0002	0004	0000	0002	0000
MEAN	0.020	0.782	0.094	2.730	0.337	0.128	0.182	0.803	13.48	0.391	0.148	0.267	0.659	1.606	1.011
S. D.	0.000	0.389	0.044	1.302	0.150	0.110	0.096	0.169	4.01	0.151	0.063	0.076	0.446	0.471	0.423
LOW	0.000	0.350	0.042	0.500	0.180	0.060	0.070	0.530	8.93	0.220	0.050	0.200	0.250	1.050	0.550
HIGH	0.020	1.500	0.145	3.700	0.590	0.255	0.296	1.075	20.20	0.640	0.220	0.350	1.580	2.250	1.775

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- M5 — WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0001	0002	0003	0000	0000	0000
MEAN	0.060	0.806	0.215	2.745	0.410	0.040	0.383	0.843	9.68	0.430	0.150	0.000	0.503	1.223	0.830
S. D.	0.071	0.654	0.234	0.261	0.170	0.000	0.271	0.251	2.76	0.000	0.000	0.000	0.172	0.240	0.199
LOW	0.010	0.350	0.070	2.475	0.240	0.040	0.150	0.605	6.55	0.430	0.000	0.000	0.320	1.070	0.600
HIGH	0.110	1.555	0.485	2.995	0.580	0.040	0.680	1.105	11.78	0.430	0.150	0.000	0.660	1.500	0.950

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- M8 — WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.100	0.677	0.100	2.309	0.254	0.200	0.186	0.935	13.72	0.371	0.168	0.410	0.450	0.875	0.975
S. D.	0.000	0.112	0.042	0.313	0.182	0.000	0.056	0.233	0.21	0.162	0.067	0.297	0.170	0.000	0.403
LOW	0.000	0.597	0.070	2.088	0.125	0.000	0.146	0.770	13.57	0.256	0.120	0.200	0.330	0.000	0.690
HIGH	0.100	0.756	0.130	2.530	0.383	0.200	0.225	1.100	13.87	0.485	0.215	0.620	0.570	0.875	1.260

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- N4 — WHOLE

LENGTH	NUM	5	MEAN	0.152	S. D.	0.017	LOW	0.140	HIGH	0.175					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.000	0.908	0.079	2.295	0.586	0.045	0.234	0.700	12.25	0.210	0.146	0.525	0.513	0.874	1.324
S. D.	0.000	0.257	0.024	0.788	0.516	0.019	0.061	0.125	2.98	0.058	0.062	0.632	0.120	0.335	0.207
LOW	0.000	0.535	0.060	1.737	0.170	0.030	0.160	0.520	9.63	0.130	0.060	0.090	0.360	0.380	1.000
HIGH	0.000	1.250	0.120	3.540	1.475	0.075	0.310	0.840	16.97	0.285	0.220	1.250	0.655	1.220	1.560

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- R2 — WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.625	0.060	1.525	0.420	0.080	0.400	1.010	11.19	0.265	0.185	0.130	0.425	1.030	1.260
S. D.	0.000	0.092	0.000	0.177	0.099	0.000	0.297	0.113	1.85	0.007	0.177	0.000	0.021	0.750	0.028
LOW	0.000	0.560	0.060	1.400	0.350	0.080	0.190	0.930	9.88	0.260	0.060	0.000	0.410	0.500	1.240
HIGH	0.000	0.690	0.060	1.650	0.490	0.080	0.610	1.090	12.50	0.270	0.310	0.130	0.440	1.560	1.280

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

EULACHON — THALEICHTHYS PACIFICUS — 153009 — AREA- PACIFIC NORTHWEST — SITE- R5 — WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0002	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.030	0.956	0.330	2.541	0.748	0.061	0.399	0.986	16.35	0.590	0.140	0.371	0.558	1.488	1.543
S. D.	0.028	0.518	0.321	2.357	0.993	0.014	0.201	0.138	6.86	0.543	0.091	0.118	0.161	0.083	0.507
LOW	0.010	0.430	0.040	0.580	0.140	0.040	0.185	0.855	10.44	0.225	0.060	0.215	0.435	1.400	0.880
HIGH	0.050	1.630	0.780	5.155	2.226	0.070	0.660	1.180	25.71	1.390	0.270	0.500	0.780	1.565	2.000

SNAPPER, BLACKFIN — LUTJANUS BUCCANELLA — 155005 — AREA- GULF — SITE- U8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0012	0013	0011	0011	0013	0013	0013	0013	0013	0013	0013	0013	0013	0012
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0008	0008	0000	0001	0000
MEAN	0.262	0.466	0.072	3.328	0.741	0.044	0.131	0.298	2.74	0.275	0.164	0.186	0.074	0.822	0.620
S. D.	0.056	0.294	0.019	1.962	0.178	0.020	0.095	0.221	0.95	0.192	0.082	0.118	0.025	0.419	0.304
LOW	0.200	0.250	0.050	1.440	0.525	0.020	0.040	0.130	0.94	0.050	0.050	0.060	0.035	0.190	0.130
HIGH	0.380	1.310	0.110	7.270	1.000	0.090	0.320	0.930	4.87	0.830	0.250	0.310	0.110	1.620	1.250

SNAPPER, RED — LUTJANUS CAMPECHANUS — 155006 — AREA- SOUTH ATLANTIC — SITE- J1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0009	0009	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0003	0001	0000	0004	0000	0002	0000	0000	0006	0008	0001	0003	0000
MEAN	0.371	0.334	0.054	3.729	0.548	0.032	0.288	0.209	3.04	0.258	0.153	0.265	0.080	0.855	0.526
S. D.	0.201	0.169	0.034	1.553	0.196	0.012	0.265	0.054	0.54	0.175	0.093	0.247	0.060	0.405	0.193
LOW	0.170	0.150	0.035	2.440	0.300	0.020	0.050	0.130	2.44	0.080	0.060	0.090	0.010	0.295	0.300
HIGH	0.790	0.690	0.130	6.900	0.885	0.050	0.970	0.285	3.80	0.570	0.280	0.440	0.210	1.470	0.995

SNAPPER, RED — LUTJANUS CAMPECHANUS — 155006 — AREA- GULF — SITE- — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0004	0000	0000	0001	0000	0000	0000	0002	0007	0006	0000	0003	0000
MEAN	0.423	0.475	0.093	3.406	0.741	0.038	0.151	0.236	5.71	0.196	0.403	0.246	0.055	0.842	0.546
S. D.	0.260	0.409	0.040	1.935	0.178	0.029	0.072	0.091	1.39	0.056	0.419	0.221	0.014	0.250	0.105
LOW	0.170	0.100	0.040	1.400	0.430	0.010	0.060	0.160	3.50	0.125	0.060	0.060	0.040	0.450	0.400
HIGH	0.855	1.310	0.150	6.250	1.060	0.110	0.280	0.465	8.25	0.270	0.870	0.495	0.080	1.250	0.690

SNAPPER, RED — LUTJANUS CAMPECHANUS — 155006 — AREA- GULF — SITE- B8 — MUSCLE

LENGTH	NUM	8	MEAN	0.591	S. D.	0.163	LOW	0.343	HIGH	0.737					
WEIGHT	NUM	8	MEAN	4.107	S. D.	2.448	LOW	0.851	HIGH	6.356					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0007	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0005	0000	0000	0005	0000	0000	0000	0002	0007	0008	0001	0003	0000
MEAN	0.263	0.495	0.117	2.515	0.986	0.045	0.270	0.236	3.84	0.218	0.200	0.000	0.096	1.141	0.465
S. D.	0.127	0.261	0.040	1.527	0.275	0.022	0.159	0.072	1.36	0.027	0.000	0.000	0.048	0.832	0.120
LOW	0.110	0.200	0.070	0.840	0.610	0.030	0.150	0.110	2.03	0.185	0.000	0.000	0.040	0.330	0.300
HIGH	0.490	0.880	0.140	4.560	1.290	0.070	0.605	0.360	6.43	0.250	0.200	0.000	0.160	2.350	0.630

SNAPPER, RED — LUTJANUS CAMPECHANUS — 155006 — AREA- GULF — SITE- H1 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0008	0008	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0001	0000	0000	0001	0000	0000	0000	0010	0010	0000	0000	0000
MEAN	0.106	0.537	0.076	2.525	0.879	0.030	0.211	0.267	3.35	0.154	0.000	0.000	0.174	0.655	0.491
S. D.	0.041	0.405	0.024	1.571	0.223	0.009	0.197	0.205	1.25	0.047	0.000	0.000	0.196	0.170	0.098
LOW	0.030	0.250	0.040	1.300	0.530	0.010	0.095	0.150	1.70	0.090	0.000	0.000	0.060	0.480	0.380
HIGH	0.175	1.560	0.120	5.600	1.250	0.040	0.690	0.840	6.63	0.240	0.000	0.000	0.720	0.940	0.640

SNAPPER, GRAY (MANGROVE) — LUTJANUS GRISEUS — 155008 — AREA- SOUTH ATLANTIC — SITE- J4 — MUSCLE

LENGTH	NUM	2	MEAN	0.248	S. D.	0.003	LOW	0.246	HIGH	0.250					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0004	0003	0000	0002	0000
MEAN	0.205	0.423	0.088	5.404	0.329	0.043	0.220	0.288	4.03	0.190	0.000	0.090	0.175	1.000	0.535
S. D.	0.071	0.243	0.082	2.145	0.031	0.006	0.118	0.050	1.14	0.044	0.000	0.000	0.112	0.354	0.236
LOW	0.105	0.130	0.040	3.000	0.300	0.040	0.075	0.220	3.31	0.160	0.000	0.000	0.095	0.750	0.350
HIGH	0.260	0.690	0.210	8.215	0.360	0.050	0.356	0.340	5.72	0.240	0.000	0.090	0.340	1.250	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SNAPPER, GRAY (MANGROVE) LUTJANUS GRISEUS 155008 AREA- SOUTH ATLANTIC SITE- M1 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0008
N DET.	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0010	0009	0000	0001	0000
MEAN	0.233	0.372	0.073	5.163	0.518	0.028	0.323	0.357	4.09	0.205	0.000	0.060	0.101	0.844	0.446
S. D.	0.066	0.161	0.020	2.296	0.276	0.007	0.219	0.158	1.01	0.062	0.000	0.000	0.030	0.218	0.134
LOW	0.130	0.190	0.045	2.050	0.280	0.010	0.130	0.190	3.22	0.100	0.000	0.000	0.040	0.500	0.170
HIGH	0.340	0.690	0.110	7.775	1.200	0.035	0.720	0.750	6.50	0.330	0.000	0.060	0.140	1.130	0.560

SNAPPER, GRAY (MANGROVE) LUTJANUS GRISEUS 155008 AREA- SOUTH ATLANTIC SITE- M4 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0010	0000	0001	0000
MEAN	0.256	0.745	0.086	2.654	0.384	0.027	0.383	0.365	3.63	0.202	0.310	0.000	0.134	0.747	0.450
S. D.	0.087	0.665	0.044	1.088	0.145	0.011	0.469	0.121	0.65	0.059	0.000	0.000	0.090	0.220	0.137
LOW	0.150	0.190	0.030	1.000	0.230	0.010	0.120	0.200	2.81	0.110	0.000	0.000	0.070	0.500	0.190
HIGH	0.420	2.440	0.200	4.000	0.630	0.045	1.560	0.655	4.75	0.310	0.310	0.000	0.360	1.250	0.630

SNAPPER, GRAY (MANGROVE) LUTJANUS GRISEUS 155008 AREA- GULF SITE- L9 MUSCLE

LENGTH	NUM	4	MEAN	0.353	S. D.	0.064	LOW	0.288	HIGH	0.440					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0003	0003	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0001	0001	0000	0000	0002	0000	0000	0000	0002	0002	0002	0000	0001	0000
MEAN	0.225	0.444	0.091	4.402	0.565	0.040	0.139	0.387	5.35	0.248	0.485	0.225	0.140	0.800	0.406
S. D.	0.081	0.191	0.032	1.982	0.201	0.000	0.085	0.039	1.33	0.025	0.332	0.049	0.040	0.626	0.166
LOW	0.175	0.265	0.055	2.727	0.336	0.040	0.050	0.365	4.46	0.230	0.250	0.190	0.105	0.190	0.200
HIGH	0.346	0.646	0.115	6.590	0.710	0.040	0.252	0.445	7.32	0.265	0.720	0.260	0.190	1.440	0.600

SNAPPER, YELLOWTAIL OCYURUS CHRYSURUS 155013 AREA- SOUTH ATLANTIC SITE- M1 MUSCLE

LENGTH	NUM	2	MEAN	0.408	S. D.	0.008	LOW	0.402	HIGH	0.414					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0023	0022	0023	0023	0022	0023	0021	0023	0023	0022	0023	0023	0023	0023	0022
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0020	0022	0000	0003	0000
MEAN	0.107	0.458	0.079	2.551	0.968	0.034	0.225	0.264	3.95	0.194	0.210	0.190	0.099	0.804	0.518
S. D.	0.060	0.271	0.027	1.427	0.672	0.027	0.195	0.126	0.98	0.061	0.035	0.000	0.037	0.176	0.269
LOW	0.020	0.130	0.040	0.400	0.380	0.010	0.060	0.030	2.69	0.110	0.190	0.000	0.050	0.500	0.250
HIGH	0.240	1.310	0.145	6.150	3.730	0.145	0.940	0.576	7.32	0.345	0.250	0.190	0.220	1.130	1.610

SNAPPER, YELLOWTAIL OCYURUS CHRYSURUS 155013 AREA- GULF SITE- L9 MUSCLE

LENGTH	NUM	10	MEAN	0.310	S. D.	0.000	LOW	0.310	HIGH	0.310					
WEIGHT	NUM	10	MEAN	0.454	S. D.	0.000	LOW	0.454	HIGH	0.454					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0002	0000
MEAN	0.165	0.232	0.059	2.053	0.834	0.048	0.279	0.361	3.68	0.192	0.190	0.345	0.077	0.636	0.640
S. D.	0.049	0.116	0.013	1.260	0.219	0.029	0.251	0.145	0.94	0.066	0.014	0.262	0.015	0.390	0.210
LOW	0.110	0.110	0.030	0.800	0.460	0.020	0.060	0.200	2.69	0.080	0.180	0.160	0.060	0.250	0.390
HIGH	0.270	0.440	0.075	4.650	1.190	0.110	0.810	0.690	5.44	0.290	0.200	0.530	0.105	1.440	0.910

SNAPPER, YELLOWTAIL OCYURUS CHRYSURUS 155013 AREA- GULF SITE- R6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0002	0000	0000	0003	0000	0000	0000	0000	0007	0006	0000	0001	0000
MEAN	0.108	0.420	0.060	3.293	0.760	0.040	0.193	0.289	4.22	0.237	0.190	0.279	0.077	0.843	0.563
S. D.	0.043	0.149	0.043	1.660	0.343	0.021	0.117	0.098	1.57	0.138	0.090	0.173	0.029	0.215	0.197
LOW	0.030	0.212	0.030	0.600	0.150	0.020	0.020	0.110	2.19	0.070	0.100	0.060	0.030	0.595	0.365
HIGH	0.165	0.630	0.160	5.475	1.510	0.070	0.373	0.410	7.01	0.500	0.280	0.480	0.120	1.265	0.940

SNAPPER, VERMILION RHOMBOPLITES AURORUBENS 155015 AREA- SITE- B9 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.402	S. D.	0.000	LOW	0.402	HIGH	0.402					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.020	0.440	5.190	5.800	2.000	0.030	0.310	2.560	185.94	1.950	0.190	0.130	0.790	0.000	0.940
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.440	5.190	5.800	2.000	0.030	0.310	2.560	185.94	1.950	0.190	0.130	0.790	0.000	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SNAPPER, VERMILION — RHOMBOPLITES AURORUBENS — 155015 — AREA- SOUTH ATLANTIC — SITE- B8 — MUSCLE

LENGTH	NUM	4	MEAN	0.293	S. D.	0.018	LOW	0.269	HIGH	0.312					
WEIGHT	NUM	4	MEAN	0.378	S. D.	0.064	LOW	0.304	HIGH	0.445					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0001	0000	0000	0002	0000	0000	0000	0000	0002	0003	0000	0001	0000
MEAN	0.083	0.436	0.038	3.086	0.740	0.033	0.239	0.124	2.98	0.313	0.700	0.620	0.103	1.092	0.633
S. D.	0.052	0.092	0.008	0.999	0.239	0.032	0.123	0.038	0.56	0.203	0.594	0.000	0.031	0.187	0.106
LOW	0.025	0.343	0.030	2.433	0.415	0.010	0.130	0.070	2.50	0.090	0.280	0.000	0.070	0.890	0.500
HIGH	0.145	0.560	0.045	4.575	0.985	0.055	0.415	0.160	3.66	0.530	1.120	0.620	0.140	1.260	0.745

SNAPPER, VERMILION — RHOMBOPLITES AURORUBENS — 155015 — AREA- SOUTH ATLANTIC — SITE- B9 — MUSCLE

LENGTH	NUM	1	MEAN	0.270	S. D.	0.000	LOW	0.270	HIGH	0.270					
WEIGHT	NUM	6	MEAN	0.535	S. D.	0.266	LOW	0.142	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0001	0002	0000	0000	0005	0001	0000	0000	0003	0007	0007	0000	0002	0000
MEAN	0.072	0.488	0.083	3.279	1.433	0.040	0.187	0.335	3.87	0.239	0.705	0.217	0.109	0.833	0.537
S. D.	0.029	0.215	0.055	1.506	1.977	0.021	0.102	0.131	1.08	0.184	0.374	0.134	0.049	0.201	0.183
LOW	0.020	0.190	0.020	0.800	0.410	0.010	0.040	0.200	2.46	0.040	0.395	0.120	0.030	0.605	0.365
HIGH	0.115	0.810	0.180	5.740	6.675	0.070	0.330	0.640	6.43	0.570	1.120	0.370	0.190	1.100	0.870

SNAPPER, VERMILION — RHOMBOPLITES AURORUBENS — 155015 — AREA- SOUTH ATLANTIC — SITE- C2 — MUSCLE

LENGTH	NUM	20	MEAN	0.500	S. D.	0.058	LOW	0.419	HIGH	0.593					
WEIGHT	NUM	20	MEAN	1.682	S. D.	0.642	LOW	0.936	HIGH	2.724					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0018
N DET.	0000	0000	0001	0000	0001	0005	0000	0000	0000	0001	0017	0015	0000	0004	0000
MEAN	0.148	0.465	0.088	2.988	0.763	0.037	0.210	0.290	3.26	0.214	0.187	0.284	0.078	0.715	0.512
S. D.	0.083	0.274	0.033	1.241	0.240	0.017	0.116	0.091	0.83	0.106	0.031	0.195	0.022	0.275	0.133
LOW	0.030	0.100	0.035	1.150	0.360	0.020	0.060	0.105	2.11	0.070	0.160	0.110	0.040	0.250	0.350
HIGH	0.340	1.250	0.140	5.500	1.380	0.090	0.440	0.465	5.94	0.530	0.220	0.620	0.120	1.060	0.815

SNAPPER, VERMILION — RHOMBOPLITES AURORUBENS — 155015 — AREA- SOUTH ATLANTIC — SITE- C2 — LIVER

LENGTH	NUM	1	MEAN	0.462	S. D.	0.000	LOW	0.462	HIGH	0.462					
WEIGHT	NUM	1	MEAN	1.224	S. D.	0.000	LOW	1.224	HIGH	1.224					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.340	0.630	2.940	2.800	2.150	0.050	0.130	10.500	164.06	0.390	0.000	1.190	0.870	0.660	0.810
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.340	0.630	2.940	2.800	2.150	0.050	0.130	10.500	164.06	0.390	0.000	1.190	0.870	0.660	0.810

SNAPPER, VERMILION — RHOMBOPLITES AURORUBENS — 155015 — AREA- SOUTH ATLANTIC — SITE- C4 — MUSCLE

LENGTH	NUM	2	MEAN	0.161	S. D.	0.007	LOW	0.156	HIGH	0.166					
WEIGHT	NUM	2	MEAN	0.068	S. D.	0.010	LOW	0.061	HIGH	0.075					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0001	0000	0000	0002	0000	0000	0000	0001	0002	0002	0000	0001	0000
MEAN	0.030	0.422	0.070	3.418	0.693	0.000	0.213	0.355	3.25	0.395	0.000	0.000	0.178	0.600	0.458
S. D.	0.000	0.030	0.000	0.506	0.329	0.000	0.011	0.120	0.71	0.000	0.000	0.000	0.152	0.000	0.082
LOW	0.000	0.400	0.000	3.060	0.460	0.000	0.205	0.270	2.74	0.000	0.000	0.000	0.070	0.000	0.400
HIGH	0.030	0.443	0.070	3.775	0.925	0.000	0.220	0.440	3.75	0.395	0.000	0.000	0.285	0.600	0.516

SNAPPER, RED (EHU) — ETELIS MARCHI — 155024 — AREA- HAWAII — SITE- A8 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	1.992	S. D.	0.553	LOW	1.249	HIGH	3.008					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0004	0000	0000	0000	0000	0007	0007	0000	0002	0000
MEAN	0.527	0.499	0.076	10.720	0.836	0.033	0.215	0.291	4.08	0.172	0.280	0.293	0.135	0.906	0.688
S. D.	0.084	0.233	0.037	4.273	0.351	0.023	0.238	0.139	0.83	0.102	0.197	0.291	0.094	0.354	0.237
LOW	0.365	0.185	0.030	6.000	0.355	0.010	0.037	0.115	2.52	0.040	0.120	0.060	0.040	0.440	0.325
HIGH	0.630	0.800	0.140	20.805	1.555	0.070	0.786	0.635	5.17	0.360	0.500	0.620	0.320	1.430	1.130

SNAPPER, RED (EHU) — ETELIS MARCHI — 155024 — AREA- HAWAII — SITE- C6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	18	MEAN	2.096	S. D.	0.519	LOW	1.474	HIGH	3.178					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0018	0017	0018	0017	0017	0018	0018	0018	0018	0018	0018	0018	0018	0018	0015
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0017	0015	0000	0003	0000
MEAN	0.522	0.359	0.068	6.796	0.642	0.028	0.301	0.328	3.28	0.180	0.240	0.273	0.096	0.498	0.744
S. D.	0.230	0.122	0.020	5.395	0.220	0.008	0.292	0.075	0.81	0.091	0.000	0.144	0.028	0.167	0.388
LOW	0.160	0.190	0.030	0.620	0.080	0.010	0.020	0.210	1.25	0.040	0.000	0.190	0.060	0.250	0.280
HIGH	0.930	0.630	0.110	19.500	0.930	0.040	0.940	0.470	4.31	0.430	0.240	0.440	0.160	0.850	1.730

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SNAPPER, RED (EHU) ETELIS MARCHI 155024 AREA- HAWAII SITE- D6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	12	MEAN	1.897	S. D.	0.461	LOW	1.247	HIGH	2.778					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0011	0012	0012	0011	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0011	0011	0000	0001	0000
MEAN	0.478	0.400	0.074	4.496	0.724	0.029	0.156	0.312	2.96	0.225	0.250	0.970	0.100	0.613	0.556
S. D.	0.148	0.308	0.030	2.391	0.404	0.007	0.080	0.107	0.89	0.117	0.000	0.000	0.040	0.145	0.210
LOW	0.290	0.060	0.040	1.080	0.100	0.010	0.050	0.120	0.94	0.060	0.000	0.000	0.060	0.310	0.295
HIGH	0.850	1.190	0.150	8.250	1.340	0.040	0.280	0.500	4.38	0.500	0.250	0.970	0.200	0.810	0.910

SNAPPER, GRAY APRION VIRESCENS 155025 AREA- HAWAII SITE- C6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	3.263	S. D.	0.281	LOW	2.920	HIGH	3.686					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0009	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000	0005	0007	0000	0001	0000
MEAN	0.341	0.438	0.064	4.886	1.800	0.031	0.125	0.280	3.22	0.213	0.228	0.397	0.082	0.896	0.499
S. D.	0.073	0.173	0.027	2.698	2.288	0.011	0.062	0.156	0.75	0.107	0.229	0.195	0.030	0.337	0.123
LOW	0.230	0.070	0.040	1.962	0.350	0.010	0.050	0.040	2.11	0.075	0.060	0.260	0.040	0.430	0.375
HIGH	0.470	0.750	0.110	10.250	6.933	0.040	0.190	0.485	4.64	0.450	0.630	0.620	0.135	1.430	0.735

SNAPPER, GRAY APRION VIRESCENS 155025 AREA- HAWAII SITE- D6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	4	MEAN	2.015	S. D.	0.057	LOW	1.929	HIGH	2.043					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.296	0.718	0.118	6.018	0.508	0.028	0.736	0.338	3.53	0.210	0.000	0.000	0.123	0.829	0.453
S. D.	0.131	0.810	0.069	3.155	0.303	0.010	0.677	0.124	0.36	0.029	0.000	0.000	0.050	0.234	0.167
LOW	0.175	0.250	0.060	2.420	0.280	0.020	0.125	0.230	3.06	0.180	0.000	0.000	0.070	0.625	0.310
HIGH	0.450	1.930	0.200	9.450	0.950	0.040	1.440	0.510	3.94	0.250	0.000	0.000	0.170	1.060	0.630

SNAPPER, GRAY APRION VIRESCENS 155025 AREA- HAWAII SITE- D9 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	26	MEAN	2.401	S. D.	0.456	LOW	1.475	HIGH	3.064					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0025	0025	0026	0025	0026	0026	0025	0026	0025	0026	0026	0026	0026	0026	0025
N DET.	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0024	0025	0000	0001	0000
MEAN	0.359	0.584	0.086	3.370	0.600	0.028	0.390	0.281	3.06	0.186	0.140	0.250	0.125	0.702	0.631
S. D.	0.226	0.610	0.037	1.985	0.198	0.008	0.524	0.167	0.51	0.053	0.071	0.000	0.063	0.268	0.331
LOW	0.100	0.130	0.030	0.500	0.220	0.010	0.060	0.080	2.19	0.100	0.090	0.000	0.060	0.310	0.310
HIGH	1.000	3.250	0.220	8.150	1.030	0.040	2.060	0.880	4.25	0.280	0.190	0.250	0.390	1.440	1.930

SNOOK CENTROPOMUS UNDECIMALIS 157004 AREA- GULF SITE- L2 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	3.108	S. D.	0.000	LOW	3.108	HIGH	3.108					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	1.050	0.440	0.100	1.500	0.490	0.030	0.150	0.190	4.31	0.150	0.000	0.060	0.090	0.560	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	1.050	0.440	0.100	1.500	0.490	0.030	0.150	0.190	4.31	0.150	0.000	0.060	0.090	0.560	0.500

SNOOK CENTROPOMUS UNDECIMALIS 157004 AREA- GULF SITE- L5 MUSCLE

LENGTH	NUM	1	MEAN	0.750	S. D.	0.000	LOW	0.750	HIGH	0.750					
WEIGHT	NUM	1	MEAN	4.486	S. D.	0.000	LOW	4.486	HIGH	4.486					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.630	0.810	0.130	9.250	0.520	0.060	0.380	0.080	4.63	0.290	0.000	0.000	0.190	0.810	0.250
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.630	0.810	0.130	9.250	0.520	0.060	0.380	0.080	4.63	0.290	0.000	0.000	0.190	0.810	0.250

SNOOK CENTROPOMUS UNDECIMALIS 157004 AREA- GULF SITE- L9 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0006	0000	0001	0000
MEAN	0.681	0.293	0.046	2.878	0.695	0.030	0.247	0.194	4.01	0.180	0.140	0.133	0.066	0.684	0.479
S. D.	0.538	0.110	0.010	1.193	0.271	0.012	0.214	0.070	0.94	0.047	0.131	0.085	0.027	0.361	0.176
LOW	0.250	0.185	0.030	0.765	0.330	0.010	0.055	0.060	2.69	0.090	0.060	0.060	0.040	0.060	0.250
HIGH	1.640	0.560	0.060	5.183	1.060	0.055	0.620	0.300	5.44	0.240	0.370	0.220	0.115	1.130	0.820

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

MEMPACHI — MYRIPRISTIS ARGYROMUS — 162012 — AREA- HAWAII — SITE- C6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	5	MEAN	0.292	S. D.	0.009	LOW	0.283	HIGH	0.305					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0001	0002	0000	0000	0004	0001	0000	0000	0002	0005	0005	0001	0004	0000
MEAN	0.124	0.476	0.110	8.644	0.696	0.030	0.114	0.260	2.79	0.380	0.000	0.000	0.145	0.980	0.558
S. D.	0.029	0.199	0.070	2.760	0.228	0.000	0.069	0.074	0.48	0.126	0.000	0.000	0.076	0.000	0.125
LOW	0.090	0.300	0.040	5.840	0.540	0.000	0.050	0.140	2.30	0.235	0.000	0.000	0.070	0.000	0.465
HIGH	0.160	0.745	0.180	12.970	1.085	0.030	0.210	0.340	3.57	0.460	0.000	0.000	0.245	0.980	0.775

MEMPACHI — MYRIPRISTIS ARGYROMUS — 162012 — AREA- HAWAII — SITE- H4 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	15	MEAN	0.292	S. D.	0.034	LOW	0.231	HIGH	0.357					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0015	0015	0015	0015	0015	0015	0015	0015	0014	0014	0014	0014	0015	0015	0012
N DET.	0000	0002	0001	0000	0000	0003	0000	0000	0000	0001	0008	0010	0001	0004	0000
MEAN	0.105	0.459	0.095	8.913	0.616	0.037	0.154	0.283	2.94	0.257	0.248	0.485	0.114	0.785	0.567
S. D.	0.038	0.203	0.027	5.761	0.237	0.011	0.083	0.099	1.08	0.158	0.146	0.205	0.051	0.187	0.110
LOW	0.060	0.020	0.040	2.700	0.245	0.020	0.030	0.080	1.25	0.040	0.050	0.190	0.075	0.440	0.410
HIGH	0.165	0.810	0.140	20.020	1.080	0.055	0.380	0.480	5.06	0.710	0.380	0.630	0.270	1.060	0.780

MEMPACHI — MYRIPRISTIS ARGYROMUS — 162012 — AREA- HAWAII — SITE- H4 — LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.286	S. D.	0.000	LOW	0.286	HIGH	0.286					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.850	0.300	21.560	16.950	15.000	0.020	0.130	24.560	242.19	0.360	0.190	0.810	0.640	0.000	0.440
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.850	0.300	21.560	16.950	15.000	0.020	0.130	24.560	242.19	0.360	0.190	0.810	0.640	0.000	0.440

STURGEON, GREEN — ACIPENSER MEDIROSTRIS — 166003 — AREA- PACIFIC NORTHWEST — SITE- M6 — MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	8.320	S. D.	0.838	LOW	7.303	HIGH	9.911					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0002	0002	0000	0000	0003	0002	0000	0000	0001	0007	0007	0000	0005	0000
MEAN	0.176	0.399	0.083	9.268	0.637	0.034	0.162	0.409	4.23	0.271	0.477	0.290	0.220	0.813	0.481
S. D.	0.087	0.350	0.041	4.112	0.204	0.019	0.094	0.230	1.02	0.236	0.341	0.214	0.069	0.201	0.138
LOW	0.065	0.106	0.020	4.883	0.280	0.010	0.045	0.110	2.86	0.110	0.280	0.120	0.130	0.625	0.300
HIGH	0.315	1.190	0.140	19.100	0.965	0.070	0.280	0.950	5.64	0.710	0.870	0.530	0.340	1.060	0.685

SURFPERCH, BARRED — AMPHISTICHUS ARGENTEUS — 168001 — AREA- CALIFORNIA — SITE- H3 — MUSCLE

LENGTH	NUM	20	MEAN	0.260	S. D.	0.000	LOW	0.260	HIGH	0.260					
WEIGHT	NUM	20	MEAN	0.380	S. D.	0.000	LOW	0.380	HIGH	0.380					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0009	0005	0000	0000	0000
MEAN	0.095	0.709	0.094	2.611	0.494	0.052	0.151	0.359	8.37	0.269	0.198	0.311	0.522	0.996	1.203
S. D.	0.040	0.205	0.017	0.766	0.182	0.016	0.072	0.122	1.58	0.055	0.099	0.125	0.179	0.321	1.170
LOW	0.020	0.440	0.065	1.625	0.280	0.030	0.060	0.150	5.38	0.160	0.060	0.160	0.110	0.440	0.500
HIGH	0.170	1.130	0.120	4.312	0.825	0.080	0.380	0.720	11.78	0.350	0.340	0.560	0.870	1.500	5.900

PERCH, SHINER — CYMATOGASTER AGGREGATA — 168005 — AREA- CALIFORNIA — SITE- F4 — WHOLE

LENGTH	NUM	2	MEAN	0.065	S. D.	0.049	LOW	0.030	HIGH	0.100					
WEIGHT	NUM	2	MEAN	0.050	S. D.	0.000	LOW	0.050	HIGH	0.050					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	1.093	0.108	1.819	0.560	0.128	0.470	0.713	25.74	0.508	0.390	0.480	1.678	1.870	4.485
S. D.	0.000	0.046	0.018	0.309	0.113	0.046	0.311	0.499	14.43	0.018	0.113	0.028	0.541	0.014	2.227
LOW	0.000	1.060	0.095	1.600	0.480	0.095	0.250	0.360	15.53	0.495	0.310	0.460	1.295	1.860	2.910
HIGH	0.000	1.125	0.120	2.037	0.640	0.160	0.690	1.065	35.94	0.520	0.470	0.500	2.060	1.880	6.060

TILEFISH — LOPHOLATILUS CHAMAELEONTICEPS — 174003 — AREA- GULF — SITE- D5 — MUSCLE

LENGTH	NUM	5	MEAN	0.641	S. D.	0.150	LOW	0.465	HIGH	0.830					
WEIGHT	NUM	5	MEAN	3.346	S. D.	2.286	LOW	1.078	HIGH	6.391					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	1.245	0.435	0.070	12.197	0.907	0.030	0.133	0.157	3.55	0.190	0.000	0.250	0.140	0.576	0.543
S. D.	0.353	0.080	0.013	3.590	0.296	0.008	0.072	0.056	0.43	0.096	0.000	0.000	0.064	0.120	0.137
LOW	1.010	0.375	0.055	6.650	0.450	0.020	0.060	0.060	3.00	0.090	0.000	0.000	0.060	0.440	0.440
HIGH	1.855	0.560	0.085	15.800	1.240	0.040	0.250	0.195	4.20	0.320	0.000	0.250	0.240	0.750	0.780

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TILEFISH — LOPHOLATILUS CHAMAELEONTICEPS — 174003 — AREA- GULF — SITE- G6 — MUSCLE

LENGTH NUM 41 MEAN 0.815 S. D. 0.103 LOW 0.625 HIGH 0.975
WEIGHT NUM 41 MEAN 5.517 S. D. 2.189 LOW 1.841 HIGH 8.994

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0055	0055	0055	0054	0054	0055	0054	0055	0055	0055	0055	0055	0055	0055	0055
N DET.	0000	0000	0001	0000	0000	0014	0005	0000	0000	0000	0049	0045	0000	0000	0000
MEAN	1.471	0.442	0.061	4.342	1.280	0.036	0.098	0.255	4.46	0.215	0.087	0.211	0.118	0.647	0.478
S. D.	0.626	0.129	0.014	2.175	0.444	0.011	0.045	0.117	1.30	0.047	0.032	0.100	0.035	0.171	0.192
LOW	0.650	0.190	0.030	0.625	0.380	0.010	0.040	0.060	1.44	0.080	0.060	0.030	0.045	0.250	0.060
HIGH	3.730	0.750	0.090	13.925	2.250	0.070	0.250	0.630	9.50	0.300	0.130	0.380	0.210	1.000	1.100

SALMON, PINK — ONCORHYNCHUS GORBUSCHA — 179016 — AREA- ALASKA — SITE- G6 — MUSCLE

LENGTH NUM 10 MEAN 0.458 S. D. 0.024 LOW 0.417 HIGH 0.493
WEIGHT NUM 10 MEAN 1.510 S. D. 0.293 LOW 1.135 HIGH 1.930

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0009	0010	0010	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0006	0001	0001	0000	0001	0003	0000	0000	0000	0002	0003	0007	0000	0000	0000
MEAN	0.023	0.482	0.076	2.220	0.408	0.035	0.234	0.825	5.44	0.172	0.281	0.580	0.171	0.745	0.776
S. D.	0.013	0.122	0.021	1.080	0.156	0.006	0.158	0.250	1.22	0.058	0.329	0.467	0.069	0.283	0.306
LOW	0.010	0.300	0.040	0.750	0.230	0.026	0.080	0.555	3.57	0.070	0.025	0.250	0.070	0.360	0.600
HIGH	0.040	0.660	0.110	4.710	0.700	0.040	0.505	1.180	7.68	0.230	0.900	0.910	0.285	1.100	1.500

SALMON, PINK — ONCORHYNCHUS GORBUSCHA — 179016 — AREA- ALASKA — SITE- G6 — LIVER

LENGTH NUM 1 MEAN 0.458 S. D. 0.000 LOW 0.458 HIGH 0.458
WEIGHT NUM 1 MEAN 1.510 S. D. 0.000 LOW 1.510 HIGH 1.510

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.310	0.510	2.125	1.270	0.040	0.060	18.750	32.50	0.220	0.160	0.000	0.550	0.380	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.310	0.510	2.125	1.270	0.040	0.060	18.750	32.50	0.220	0.160	0.000	0.550	0.380	0.630

SALMON, PINK — ONCORHYNCHUS GORBUSCHA — 179016 — AREA- ALASKA — SITE- O4 — MUSCLE

LENGTH NUM 9 MEAN 0.501 S. D. 0.026 LOW 0.464 HIGH 0.525
WEIGHT NUM 9 MEAN 1.917 S. D. 0.438 LOW 1.249 HIGH 2.384

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0004	0000	0002	0000	0000	0001	0001	0000	0000	0001	0004	0006	0000	0004	0000
MEAN	0.039	0.335	0.080	2.829	0.428	0.037	0.119	0.641	5.33	0.156	0.385	0.320	0.170	0.622	0.655
S. D.	0.025	0.185	0.038	1.755	0.192	0.009	0.032	0.198	1.43	0.085	0.286	0.069	0.065	0.139	0.236
LOW	0.020	0.120	0.050	0.775	0.200	0.020	0.060	0.450	3.57	0.040	0.125	0.280	0.070	0.440	0.400
HIGH	0.080	0.630	0.160	5.100	0.800	0.050	0.166	1.060	8.00	0.290	0.870	0.400	0.260	0.810	1.030

SALMON, PINK — ONCORHYNCHUS GORBUSCHA — 179016 — AREA- ALASKA — SITE- O4 — LIVER

LENGTH NUM 1 MEAN 0.501 S. D. 0.000 LOW 0.501 HIGH 0.501
WEIGHT NUM 1 MEAN 1.917 S. D. 0.000 LOW 1.917 HIGH 1.917

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.190	0.360	0.600	1.900	0.000	0.250	23.130	10.00	0.110	0.160	0.000	0.300	0.440	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.360	0.600	1.900	0.000	0.250	23.130	10.00	0.110	0.160	0.000	0.300	0.440	0.690

SALMON, PINK — ONCORHYNCHUS GORBUSCHA — 179016 — AREA- ALASKA — SITE- U1 — MUSCLE

LENGTH NUM 10 MEAN 0.457 S. D. 0.017 LOW 0.432 HIGH 0.486
WEIGHT NUM 10 MEAN 1.510 S. D. 0.283 LOW 1.135 HIGH 1.930

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0009	0010	0010	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0008	0000	0000	0002	0000	0000	0001	0000	0000	0000	0005	0004	0000	0001	0000
MEAN	0.015	0.383	0.093	1.894	0.397	0.047	0.179	0.849	5.65	0.311	0.220	0.414	0.179	1.004	0.683
S. D.	0.007	0.100	0.053	1.107	0.160	0.032	0.107	0.272	1.41	0.158	0.156	0.266	0.054	0.588	0.270
LOW	0.010	0.250	0.050	0.400	0.130	0.010	0.080	0.510	3.94	0.190	0.090	0.200	0.070	0.320	0.326
HIGH	0.020	0.500	0.185	3.500	0.600	0.110	0.420	1.440	8.39	0.710	0.440	0.870	0.250	2.110	1.250

SALMON, PINK — ONCORHYNCHUS GORBUSCHA — 179016 — AREA- ALASKA — SITE- U1 — LIVER

LENGTH NUM 1 MEAN 0.457 S. D. 0.000 LOW 0.457 HIGH 0.457
WEIGHT NUM 1 MEAN 1.510 S. D. 0.000 LOW 1.510 HIGH 1.510

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.250	0.590	0.850	1.470	0.030	0.220	21.500	62.50	0.200	0.870	0.120	0.780	0.810	1.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.250	0.590	0.850	1.470	0.030	0.220	21.500	62.50	0.200	0.870	0.120	0.780	0.810	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- PACIFIC NORTHWEST SITE- M3 MUSCLE

LENGTH	NUM	8	MEAN	0.743	S. D.	0.062	LOW	0.640	HIGH	0.820					
WEIGHT	NUM	8	MEAN	4.331	S. D.	1.656	LOW	1.929	HIGH	6.753					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0008	0008	0007	0007	0008	0007	0008	0008	0008	0008	0008	0008	0008	0007
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0001	0000
MEAN	0.030	0.526	0.057	2.325	0.370	0.019	0.164	0.431	3.50	0.183	0.000	0.000	0.176	0.461	0.492
S. D.	0.014	0.124	0.019	0.821	0.112	0.011	0.086	0.162	0.60	0.029	0.000	0.000	0.032	0.193	0.076
LOW	0.020	0.380	0.030	1.350	0.230	0.010	0.060	0.245	2.60	0.140	0.000	0.000	0.130	0.250	0.400
HIGH	0.040	0.690	0.080	3.600	0.500	0.040	0.310	0.680	4.69	0.230	0.000	0.000	0.230	0.810	0.630

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- A5 MUSCLE

LENGTH	NUM	10	MEAN	0.633	S. D.	0.047	LOW	0.516	HIGH	0.688					
WEIGHT	NUM	8	MEAN	4.423	S. D.	1.242	LOW	3.402	HIGH	7.031					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0006	0000	0002	0001	0000	0007	0000	0000	0000	0000	0006	0006	0000	0005	0000
MEAN	0.021	0.562	0.103	1.954	0.611	0.028	0.189	0.531	4.53	0.310	0.538	0.413	0.189	0.981	0.978
S. D.	0.006	0.285	0.035	1.062	0.231	0.008	0.092	0.092	0.72	0.160	0.435	0.274	0.061	0.445	0.439
LOW	0.015	0.190	0.040	0.060	0.240	0.020	0.065	0.375	3.31	0.100	0.060	0.120	0.110	0.545	0.525
HIGH	0.030	1.000	0.140	3.550	1.000	0.035	0.325	0.680	5.71	0.500	0.940	0.750	0.320	1.610	2.000

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- A5 LIVER

LENGTH	NUM	1	MEAN	0.633	S. D.	0.000	LOW	0.633	HIGH	0.633					
WEIGHT	NUM	1	MEAN	4.422	S. D.	0.000	LOW	4.422	HIGH	4.422					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.010	0.060	0.390	2.423	1.680	0.670	0.000	27.060	36.25	0.140	1.120	0.260	0.640	0.620	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.010	0.060	0.390	2.423	1.680	0.670	0.000	27.060	36.25	0.140	1.120	0.260	0.640	0.620	0.690

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- D2 MUSCLE

LENGTH	NUM	9	MEAN	0.582	S. D.	0.032	LOW	0.545	HIGH	0.640					
WEIGHT	NUM	9	MEAN	2.596	S. D.	0.455	LOW	2.041	HIGH	3.402					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0008	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009
N DET.	0004	0000	0002	0000	0000	0002	0000	0000	0000	0000	0007	0005	0000	0004	0000
MEAN	0.059	0.485	0.076	3.153	0.588	0.033	0.133	0.558	4.50	0.353	0.655	0.375	0.148	0.757	0.668
S. D.	0.042	0.316	0.034	1.907	0.137	0.008	0.034	0.233	0.56	0.342	0.658	0.267	0.049	0.562	0.228
LOW	0.020	0.100	0.040	1.000	0.410	0.020	0.090	0.150	3.63	0.040	0.190	0.120	0.080	0.250	0.425
HIGH	0.110	0.880	0.145	5.833	0.785	0.040	0.193	0.915	5.36	1.110	1.120	0.750	0.235	1.630	1.120

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- D2 LIVER

LENGTH	NUM	1	MEAN	0.578	S. D.	0.000	LOW	0.578	HIGH	0.578					
WEIGHT	NUM	1	MEAN	2.654	S. D.	0.000	LOW	2.654	HIGH	2.654					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.500	1.060	0.875	2.280	0.170	0.060	59.380	33.13	0.240	0.160	0.810	0.790	0.220	0.810
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.500	1.060	0.875	2.280	0.170	0.060	59.380	33.13	0.240	0.160	0.810	0.790	0.220	0.810

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- G6 MUSCLE

LENGTH	NUM	10	MEAN	0.615	S. D.	0.038	LOW	0.561	HIGH	0.685					
WEIGHT	NUM	10	MEAN	3.447	S. D.	0.779	LOW	2.495	HIGH	4.649					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0001	0000	0000	0000	0001	0005	0004	0000	0002	0000
MEAN	0.039	0.503	0.082	2.015	0.447	0.040	0.109	0.630	4.92	0.213	0.256	0.337	0.173	0.644	0.569
S. D.	0.032	0.274	0.030	1.170	0.065	0.020	0.073	0.138	0.99	0.084	0.290	0.186	0.073	0.235	0.195
LOW	0.015	0.175	0.040	0.790	0.375	0.010	0.010	0.390	3.81	0.100	0.060	0.150	0.090	0.305	0.360
HIGH	0.110	1.060	0.145	4.700	0.580	0.070	0.220	0.800	6.96	0.360	0.750	0.620	0.355	0.880	0.880

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- G6 LIVER

LENGTH	NUM	1	MEAN	0.615	S. D.	0.000	LOW	0.615	HIGH	0.615					
WEIGHT	NUM	1	MEAN	3.447	S. D.	0.000	LOW	3.447	HIGH	3.447					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.190	0.690	5.500	0.720	0.020	0.310	17.500	20.00	0.210	0.310	0.000	0.840	0.660	0.880
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.190	0.690	5.500	0.720	0.020	0.310	17.500	20.00	0.210	0.310	0.000	0.840	0.660	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- I4 MUSCLE

LENGTH	NUM	10	MEAN	0.596	S. D.	0.019	LOW	0.570	HIGH	0.636					
WEIGHT	NUM	10	MEAN	2.497	S. D.	0.576	LOW	1.702	HIGH	3.291					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0004	0000	0000	0000	0000	0000	0001	0000	0000	0000	0008	0009	0000	0000	0000
MEAN	0.086	0.362	0.079	1.663	0.378	0.027	0.138	0.491	5.05	0.170	0.175	0.250	0.203	0.689	0.704
S. D.	0.040	0.129	0.039	1.332	0.120	0.012	0.042	0.172	0.70	0.047	0.064	0.000	0.065	0.143	0.103
LOW	0.035	0.230	0.040	0.275	0.260	0.010	0.060	0.130	3.97	0.120	0.130	0.000	0.115	0.440	0.530
HIGH	0.130	0.560	0.150	5.000	0.575	0.050	0.190	0.735	6.25	0.250	0.220	0.250	0.330	0.940	0.860

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- I4 LIVER

LENGTH	NUM	1	MEAN	0.596	S. D.	0.000	LOW	0.596	HIGH	0.596					
WEIGHT	NUM	1	MEAN	2.497	S. D.	0.000	LOW	2.497	HIGH	2.497					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.000	0.380	1.360	0.000	12.150	0.630	0.130	82.500	50.00	0.140	0.310	0.630	1.060	0.000	0.270
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	1.360	0.000	12.150	0.630	0.130	82.500	50.00	0.140	0.310	0.630	1.060	0.000	0.270

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- U3 MUSCLE

LENGTH	NUM	10	MEAN	0.637	S. D.	0.040	LOW	0.582	HIGH	0.709					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0008	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0001	0001	0000	0003	0001	0000	0000	0000	0006	0003	0000	0003	0000
MEAN	0.027	0.527	0.075	2.787	0.430	0.026	0.237	0.608	5.42	0.233	0.193	0.404	0.258	0.993	0.832
S. D.	0.022	0.318	0.033	1.331	0.131	0.011	0.121	0.135	1.75	0.123	0.108	0.232	0.086	0.424	0.189
LOW	0.010	0.156	0.030	1.408	0.220	0.010	0.070	0.475	3.62	0.110	0.060	0.020	0.145	0.375	0.550
HIGH	0.070	1.060	0.120	4.860	0.610	0.040	0.420	0.890	8.21	0.530	0.280	0.620	0.410	1.560	1.110

SALMON, CHUM (KETA) ONCORHYNCHUS KETA 179017 AREA- ALASKA SITE- U3 LIVER

LENGTH	NUM	1	MEAN	0.637	S. D.	0.000	LOW	0.637	HIGH	0.637					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.410	0.350	0.710	0.140	1.345	0.060	0.070	33.880	17.25	0.110	0.000	1.850	0.620	0.300	0.250
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.410	0.350	0.710	0.140	1.345	0.060	0.070	33.880	17.25	0.110	0.000	1.850	0.620	0.300	0.250

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- PACIFIC NORTHWEST SITE- N1 MUSCLE

LENGTH	NUM	10	MEAN	0.719	S. D.	0.037	LOW	0.650	HIGH	0.800					
WEIGHT	NUM	10	MEAN	4.173	S. D.	1.033	LOW	3.175	HIGH	6.350					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0001	0000	0000	0000	0000	0007	0008	0000	0000	0000
MEAN	0.028	0.481	0.069	2.269	0.248	0.031	0.211	0.564	3.99	0.173	0.103	0.050	0.104	0.729	0.572
S. D.	0.011	0.324	0.021	0.969	0.091	0.020	0.214	0.258	1.26	0.077	0.075	0.014	0.032	0.227	0.122
LOW	0.020	0.120	0.033	0.787	0.120	0.010	0.020	0.170	1.87	0.055	0.060	0.040	0.060	0.370	0.390
HIGH	0.040	1.120	0.110	3.925	0.415	0.070	0.690	0.965	6.56	0.320	0.190	0.060	0.170	1.050	0.735

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- PACIFIC NORTHWEST SITE- N1 LIVER

LENGTH	NUM	1	MEAN	0.719	S. D.	0.000	LOW	0.719	HIGH	0.719					
WEIGHT	NUM	1	MEAN	4.173	S. D.	0.000	LOW	4.173	HIGH	4.173					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.020	0.500	0.060	2.400	0.820	0.010	0.060	12.620	33.75	0.110	0.000	0.000	0.450	0.630	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.500	0.060	2.400	0.820	0.010	0.060	12.620	33.75	0.110	0.000	0.000	0.450	0.630	0.220

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- PACIFIC NORTHWEST SITE- N7 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	4.278	S. D.	0.510	LOW	3.674	HIGH	5.352					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0009	0010	0010	0008
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0005	0006	0000	0001	0000
MEAN	0.056	0.339	0.059	1.399	0.802	0.029	0.133	0.570	3.05	0.171	0.201	0.233	0.096	0.748	0.509
S. D.	0.028	0.130	0.034	0.536	0.984	0.009	0.101	0.203	0.97	0.059	0.167	0.124	0.023	0.370	0.144
LOW	0.020	0.190	0.030	0.630	0.190	0.020	0.030	0.180	1.75	0.030	0.120	0.090	0.060	0.095	0.190
HIGH	0.110	0.560	0.150	2.250	3.275	0.045	0.340	0.845	4.94	0.230	0.500	0.310	0.130	1.435	0.625.

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- PACIFIC NORTHWEST SITE- N7 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	3.819	S. D.	0.000	LOW	3.819	HIGH	3.819					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.250	0.110	2.300	1.265	0.000	0.090	1.640	14.81	0.120	0.000	0.000	0.390	0.530	0.060
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.250	0.110	2.300	1.265	0.000	0.090	1.640	14.81	0.120	0.000	0.000	0.390	0.530	0.060

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- PACIFIC NORTHWEST SITE- N8 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	20	MEAN	3.969	S. D.	1.047	LOW	2.223	HIGH	5.851					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0018	0020	0020	0020	0020	0020	0020	0020	0019
N DET.	0002	0000	0001	0001	0000	0004	0001	0000	0000	0000	0008	0009	0000	0003	0000
MEAN	0.056	0.527	0.059	1.706	0.422	0.030	0.154	0.377	3.30	0.168	0.188	0.380	0.123	0.684	0.611
S. D.	0.056	0.323	0.020	0.698	0.376	0.011	0.089	0.152	0.87	0.078	0.131	0.320	0.052	0.269	0.205
LOW	0.020	0.150	0.010	0.375	0.010	0.006	0.030	0.150	1.30	0.020	0.030	0.060	0.040	0.100	0.365
HIGH	0.210	1.250	0.095	2.950	1.510	0.050	0.310	0.630	4.75	0.280	0.410	1.120	0.260	1.060	1.050

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- PACIFIC NORTHWEST SITE- N8 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	4.198	S. D.	0.028	LOW	4.178	HIGH	4.218					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.110	0.435	0.300	1.544	1.150	0.045	0.158	2.668	21.70	0.168	0.250	0.190	0.908	0.530	0.410
S. D.	0.000	0.177	0.000	1.264	0.170	0.035	0.046	1.128	10.41	0.004	0.000	0.000	0.223	0.311	0.127
LOW	0.000	0.310	0.300	0.650	1.030	0.020	0.125	1.870	14.34	0.165	0.000	0.000	0.750	0.310	0.320
HIGH	0.110	0.560	0.300	2.437	1.270	0.070	0.190	3.465	29.06	0.170	0.250	0.190	1.065	0.750	0.500

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- ALASKA SITE- H4 MUSCLE

LENGTH	NUM	10	MEAN	0.670	S. D.	0.135	LOW	0.310	HIGH	0.780					
WEIGHT	NUM	9	MEAN	4.944	S. D.	2.171	LOW	0.908	HIGH	7.264					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0007	0000	0000	0000	0001	0002	0001	0000	0000	0000	0010	0009	0000	0000	0000
MEAN	0.110	0.444	0.086	2.876	0.325	0.024	0.293	0.493	4.18	0.184	0.000	0.280	0.148	0.673	0.645
S. D.	0.072	0.196	0.032	1.374	0.111	0.010	0.215	0.160	0.66	0.066	0.000	0.000	0.044	0.189	0.199
LOW	0.030	0.190	0.050	1.300	0.120	0.010	0.060	0.180	2.94	0.110	0.000	0.000	0.090	0.440	0.410
HIGH	0.170	0.690	0.160	6.150	0.500	0.040	0.750	0.730	4.94	0.290	0.000	0.280	0.240	1.000	1.000

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- ALASKA SITE- H4 LIVER

LENGTH	NUM	1	MEAN	0.670	S. D.	0.000	LOW	0.670	HIGH	0.670					
WEIGHT	NUM	1	MEAN	5.130	S. D.	0.000	LOW	5.130	HIGH	5.130					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.120	0.370	0.610	1.400	1.190	0.160	0.690	11.650	19.07	0.240	0.000	0.000	0.590	0.660	0.280
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.120	0.370	0.610	1.400	1.190	0.160	0.690	11.650	19.07	0.240	0.000	0.000	0.590	0.660	0.280

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- ALASKA SITE- O4 MUSCLE

LENGTH	NUM	9	MEAN	0.642	S. D.	0.034	LOW	0.590	HIGH	0.680					
WEIGHT	NUM	9	MEAN	4.196	S. D.	0.987	LOW	2.948	HIGH	5.557					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0002	0002	0003	0000	0000	0004	0001	0000	0000	0003	0007	0007	0000	0006	0000
MEAN	0.052	0.337	0.047	2.436	0.459	0.028	0.274	0.538	4.87	0.284	0.194	0.665	0.121	0.838	0.565
S. D.	0.061	0.282	0.023	0.903	0.155	0.013	0.165	0.202	1.19	0.165	0.221	0.049	0.057	0.280	0.180
LOW	0.010	0.050	0.030	1.800	0.225	0.010	0.110	0.280	3.22	0.110	0.037	0.630	0.030	0.515	0.415
HIGH	0.185	0.850	0.090	4.725	0.710	0.040	0.550	0.960	6.66	0.500	0.350	0.700	0.210	1.000	1.000

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- ALASKA SITE- O4 LIVER

LENGTH	NUM	1	MEAN	0.642	S. D.	0.000	LOW	0.642	HIGH	0.642					
WEIGHT	NUM	1	MEAN	4.196	S. D.	0.000	LOW	4.196	HIGH	4.196					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.020	0.500	1.220	0.000	1.300	0.010	0.070	6.870	33.69	0.050	0.280	0.440	1.210	0.940	0.720
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.500	1.220	0.000	1.300	0.010	0.070	6.870	33.69	0.050	0.280	0.440	1.210	0.940	0.720

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- ALASKA SITE- U1 MUSCLE

LENGTH NUM 10 MEAN 0.557 S. D. 0.065 LOW 0.447 HIGH 0.622
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0009	0010	0010	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0004	0000	0000	0001	0001	0002	0000	0000	0000	0000	0004	0005	0000	0002	0000
MEAN	0.025	0.463	0.097	1.899	0.391	0.034	0.196	0.666	6.11	0.186	0.356	0.338	0.186	0.821	0.527
S. D.	0.015	0.263	0.032	1.166	0.192	0.013	0.169	0.269	1.83	0.075	0.456	0.296	0.095	0.280	0.236
LOW	0.010	0.233	0.050	0.355	0.070	0.010	0.060	0.410	3.57	0.040	0.060	0.160	0.090	0.450	0.380
HIGH	0.050	1.000	0.150	3.950	0.675	0.050	0.610	1.230	10.00	0.285	1.120	0.780	0.375	1.250	1.190

SALMON, COHO (SILVER) ONCORHYNCHUS KISUTCH 179018 AREA- ALASKA SITE- U1 LIVER

LENGTH NUM 1 MEAN 0.557 S. D. 0.000 LOW 0.557 HIGH 0.557
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.380	0.900	0.387	0.600	0.030	0.500	33.130	25.63	0.250	0.250	0.250	0.560	0.590	0.940
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	0.900	0.387	0.600	0.030	0.500	33.130	25.63	0.250	0.250	0.250	0.560	0.590	0.940

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- PACIFIC NORTHWEST SITE- M6 MUSCLE

LENGTH NUM 11 MEAN 0.469 S. D. 0.044 LOW 0.388 HIGH 0.533
WEIGHT NUM 6 MEAN 1.175 S. D. 0.330 LOW 0.741 HIGH 1.450

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0011	0012	0012	0012	0012	0012	0011	0012	0012	0012	0012	0012	0012	0012
N DET.	0007	0000	0001	0000	0000	0004	0000	0000	0000	0001	0008	0007	0000	0005	0000
MEAN	0.068	0.412	0.090	2.160	0.365	0.039	0.187	0.480	4.15	0.254	0.115	0.228	0.113	0.877	0.534
S. D.	0.083	0.281	0.067	1.193	0.182	0.024	0.182	0.197	0.85	0.223	0.039	0.149	0.047	0.235	0.172
LOW	0.010	0.050	0.030	0.150	0.180	0.020	0.050	0.140	2.94	0.060	0.060	0.080	0.060	0.635	0.300
HIGH	0.210	0.880	0.240	4.875	0.760	0.080	0.650	0.800	6.07	0.770	0.150	0.440	0.210	1.250	0.900

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- PACIFIC NORTHWEST SITE- M6 LIVER

LENGTH NUM 1 MEAN 0.462 S. D. 0.000 LOW 0.462 HIGH 0.462
WEIGHT NUM 1 MEAN 1.113 S. D. 0.000 LOW 1.113 HIGH 1.113

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.130	0.780	0.615	6.290	0.080	0.310	190.630	20.63	0.160	0.310	0.250	0.580	0.310	0.690
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.130	0.780	0.615	6.290	0.080	0.310	190.630	20.63	0.160	0.310	0.250	0.580	0.310	0.690

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- H7 MUSCLE

LENGTH NUM 10 MEAN 0.657 S. D. 0.036 LOW 0.580 HIGH 0.700
WEIGHT NUM 10 MEAN 3.405 S. D. 0.485 LOW 2.497 HIGH 4.200

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0008	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0009	0000	0000	0000	0000	0001	0001	0000	0000	0000	0006	0007	0000	0001	0000
MEAN	0.020	0.382	0.060	1.547	0.429	0.027	0.118	0.399	4.20	0.162	0.275	0.427	0.104	0.682	0.529
S. D.	0.000	0.188	0.031	0.908	0.064	0.010	0.074	0.222	0.73	0.060	0.241	0.177	0.025	0.199	0.185
LOW	0.000	0.190	0.020	0.525	0.330	0.010	0.060	0.110	3.44	0.080	0.090	0.310	0.075	0.500	0.370
HIGH	0.020	0.870	0.130	3.275	0.500	0.040	0.285	0.785	5.62	0.250	0.630	0.630	0.150	1.060	1.000

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- H7 LIVER

LENGTH NUM 1 MEAN 0.657 S. D. 0.000 LOW 0.657 HIGH 0.657
WEIGHT NUM 1 MEAN 3.405 S. D. 0.000 LOW 3.405 HIGH 3.405

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.060	0.160	4.950	1.990	0.040	0.060	35.000	9.13	0.120	0.130	0.000	0.690	0.310	0.410
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.060	0.160	4.950	1.990	0.040	0.060	35.000	9.13	0.120	0.130	0.000	0.690	0.310	0.410

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- J6 MUSCLE

LENGTH NUM 10 MEAN 0.634 S. D. 0.036 LOW 0.600 HIGH 0.705
WEIGHT NUM 10 MEAN 3.295 S. D. 0.483 LOW 2.800 HIGH 4.100

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0001	0001	0000	0000	0005	0002	0000	0000	0002	0008	0007	0000	0003	0000
MEAN	0.033	0.387	0.107	1.938	0.498	0.037	0.182	0.752	6.16	0.311	0.530	0.217	0.133	0.841	0.730
S. D.	0.021	0.170	0.079	1.409	0.179	0.010	0.084	0.322	2.33	0.192	0.481	0.095	0.050	0.337	0.314
LOW	0.010	0.150	0.040	0.405	0.170	0.030	0.060	0.240	3.31	0.105	0.190	0.120	0.070	0.440	0.250
HIGH	0.070	0.710	0.290	5.290	0.840	0.050	0.285	1.265	11.43	0.605	0.870	0.310	0.230	1.410	1.330

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- J6 LIVER

LENGTH	NUM	1	MEAN	0.634	S. D.	0.000	LOW	0.634	HIGH	0.634					
WEIGHT	NUM	1	MEAN	3.295	S. D.	0.000	LOW	3.295	HIGH	3.295					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.050	0.060	0.760	1.010	8.075	0.710	0.140	65.000	28.50	0.180	0.440	0.620	0.800	1.000	0.720
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.060	0.760	1.010	8.075	0.710	0.140	65.000	28.50	0.180	0.440	0.620	0.800	1.000	0.720

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- D4 MUSCLE

LENGTH	NUM	20	MEAN	0.590	S. D.	0.025	LOW	0.561	HIGH	0.639					
WEIGHT	NUM	20	MEAN	2.530	S. D.	0.361	LOW	2.100	HIGH	3.300					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0019	0019	0020	0020	0020	0018	0020	0020	0020	0020	0019	0020	0020	0019
N DET.	0009	0000	0002	0002	0000	0008	0001	0000	0000	0001	0011	0011	0000	0004	0000
MEAN	0.041	0.432	0.073	2.534	0.395	0.028	0.275	0.470	6.21	0.185	0.463	0.320	0.129	0.866	0.671
S. D.	0.028	0.269	0.032	1.443	0.137	0.015	0.179	0.147	1.60	0.107	0.296	0.176	0.064	0.339	0.243
LOW	0.010	0.063	0.035	0.626	0.240	0.010	0.040	0.190	3.21	0.030	0.045	0.130	0.050	0.310	0.350
HIGH	0.100	1.060	0.140	6.750	0.755	0.050	0.690	0.750	9.12	0.500	0.870	0.690	0.285	1.630	1.250

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- U1 MUSCLE

LENGTH	NUM	10	MEAN	0.516	S. D.	0.037	LOW	0.459	HIGH	0.583					
WEIGHT	NUM	10	MEAN	2.009	S. D.	0.343	LOW	1.362	HIGH	2.497					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0010	0008	0008	0010	0010	0010	0009	0010	0010	0010	0010	0010	0009
N DET.	0004	0000	0000	0001	0000	0002	0001	0000	0000	0000	0008	0005	0000	0002	0000
MEAN	0.028	0.433	0.095	2.169	0.478	0.030	0.131	0.540	5.74	0.215	0.310	0.584	0.141	1.105	0.634
S. D.	0.016	0.224	0.031	1.405	0.105	0.011	0.063	0.161	1.30	0.073	0.042	0.366	0.062	0.510	0.326
LOW	0.010	0.020	0.050	0.405	0.330	0.020	0.040	0.260	4.42	0.120	0.280	0.220	0.040	0.600	0.050
HIGH	0.050	0.690	0.160	4.300	0.620	0.050	0.202	0.860	8.09	0.320	0.340	1.130	0.250	2.310	1.205

SALMON, SOCKEYE (RED) ONCORHYNCHUS NERKA 179019 AREA- ALASKA SITE- U1 LIVER

LENGTH	NUM	1	MEAN	0.516	S. D.	0.000	LOW	0.516	HIGH	0.516					
WEIGHT	NUM	1	MEAN	2.009	S. D.	0.000	LOW	2.009	HIGH	2.009					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.310	0.880	1.050	9.000	0.130	0.060	146.880	23.75	0.260	0.160	0.000	0.570	0.630	0.810
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.310	0.880	1.050	9.000	0.130	0.060	146.880	23.75	0.260	0.160	0.000	0.570	0.630	0.810

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- CALIFORNIA SITE- F4 MUSCLE

LENGTH	NUM	6	MEAN	0.467	S. D.	0.101	LOW	0.290	HIGH	0.580					
WEIGHT	NUM	6	MEAN	1.533	S. D.	0.654	LOW	0.750	HIGH	2.400					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0001	0000	0000	0000	0001	0000	0001	0000	0000	0000	0005	0003	0000	0000	0000
MEAN	0.058	0.508	0.066	1.994	0.552	0.034	0.304	0.298	4.37	0.153	0.370	0.217	0.103	0.621	0.521
S. D.	0.018	0.126	0.017	0.507	0.152	0.012	0.305	0.118	1.10	0.061	0.000	0.143	0.046	0.256	0.154
LOW	0.040	0.310	0.035	1.491	0.370	0.020	0.075	0.180	3.15	0.090	0.000	0.060	0.070	0.280	0.270
HIGH	0.080	0.655	0.085	2.650	0.775	0.050	0.810	0.515	6.03	0.265	0.370	0.340	0.195	1.000	0.670

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- CALIFORNIA SITE- F4 LIVER

LENGTH	NUM	1	MEAN	0.458	S. D.	0.000	LOW	0.458	HIGH	0.458					
WEIGHT	NUM	1	MEAN	1.338	S. D.	0.000	LOW	1.338	HIGH	1.338					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.020	1.130	0.280	0.000	1.600	0.000	0.130	26.250	32.50	0.150	0.060	0.310	0.380	0.750	0.560
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	1.130	0.280	0.000	1.600	0.000	0.130	26.250	32.50	0.150	0.060	0.310	0.380	0.750	0.560

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- N1 MUSCLE

LENGTH	NUM	3	MEAN	0.850	S. D.	0.078	LOW	0.770	HIGH	0.925					
WEIGHT	NUM	3	MEAN	6.804	S. D.	1.635	LOW	4.990	HIGH	8.165					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.085	0.573	0.080	2.133	0.571	0.020	0.065	0.573	5.05	0.197	0.350	0.160	0.105	0.613	0.475
S. D.	0.087	0.370	0.061	1.165	0.359	0.014	0.028	0.150	1.88	0.122	0.000	0.057	0.051	0.119	0.140
LOW	0.010	0.353	0.035	0.850	0.235	0.010	0.040	0.400	2.94	0.105	0.000	0.120	0.060	0.530	0.340
HIGH	0.180	1.000	0.150	3.125	0.950	0.030	0.095	0.660	6.53	0.335	0.350	0.200	0.160	0.750	0.620

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- N1 LIVER

LENGTH	NUM	1	MEAN	0.850	S. D.	0.000	LOW	0.850	HIGH	0.850					
WEIGHT	NUM	1	MEAN	6.804	S. D.	0.000	LOW	6.804	HIGH	6.804					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.180	0.405	0.175	1.791	1.820	0.165	0.180	31.185	60.62	0.160	0.425	0.000	0.795	0.535	0.685
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.180	0.405	0.175	1.791	1.820	0.165	0.180	31.185	60.62	0.160	0.425	0.000	0.795	0.535	0.685

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- N7 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	5.693	S. D.	0.741	LOW	4.858	HIGH	7.128					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0009	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0003	0000	0000	0000	0000	0005	0008	0000	0001	0000
MEAN	0.039	0.460	0.049	2.785	0.308	0.031	0.230	0.473	4.88	0.205	0.252	0.375	0.095	0.714	0.434
S. D.	0.015	0.277	0.014	1.476	0.088	0.011	0.232	0.201	1.37	0.057	0.348	0.007	0.034	0.483	0.109
LOW	0.020	0.210	0.030	1.300	0.210	0.020	0.045	0.250	3.25	0.115	0.060	0.370	0.040	0.130	0.310
HIGH	0.060	0.940	0.070	6.600	0.440	0.050	0.690	0.950	7.91	0.300	0.870	0.380	0.140	1.810	0.630

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- N7 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	5.693	S. D.	0.000	LOW	5.693	HIGH	5.693					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.020	0.630	0.200	7.500	0.360	0.010	0.060	66.250	42.50	0.050	0.000	0.310	0.510	0.130	0.220
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.630	0.200	7.500	0.360	0.010	0.060	66.250	42.50	0.050	0.000	0.310	0.510	0.130	0.220

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- N8 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	30	MEAN	9.184	S. D.	2.430	LOW	6.668	HIGH	19.097					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0050	0050	0050	0046	0046	0050	0049	0050	0050	0048	0050	0050	0049	0049	0047
N DET.	0004	0000	0001	0000	0000	0006	0001	0000	0000	0000	0029	0030	0001	0007	0000
MEAN	0.083	0.476	0.068	2.381	0.463	0.029	0.142	0.510	4.44	0.206	0.350	0.452	0.107	0.677	0.559
S. D.	0.041	0.298	0.033	1.251	0.398	0.018	0.106	0.250	1.65	0.111	0.227	0.825	0.060	0.283	0.275
LOW	0.020	0.095	0.010	0.350	0.080	0.010	0.030	0.060	1.38	0.070	0.060	0.060	0.010	0.130	0.190
HIGH	0.180	1.500	0.180	6.600	2.590	0.105	0.555	1.130	8.93	0.545	0.720	3.790	0.260	1.190	1.500

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- N8 LIVER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	9.887	S. D.	2.432	LOW	8.265	HIGH	12.683					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0003
N DET.	0001	0001	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0000	0001
MEAN	0.149	0.391	0.558	2.777	1.328	0.024	0.141	16.039	36.74	0.141	0.240	0.310	0.454	0.603	0.418
S. D.	0.121	0.202	0.536	3.340	0.234	0.015	0.121	15.535	26.91	0.076	0.147	0.000	0.187	0.289	0.054
LOW	0.076	0.250	0.090	0.850	0.935	0.010	0.020	4.310	10.80	0.050	0.150	0.000	0.210	0.300	0.380
HIGH	0.330	0.623	1.250	8.700	1.510	0.050	0.296	42.500	74.58	0.226	0.410	0.310	0.710	1.000	0.456

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- PACIFIC NORTHWEST SITE- P7 MUSCLE

LENGTH	NUM	6	MEAN	0.585	S. D.	0.079	LOW	0.505	HIGH	0.680					
WEIGHT	NUM	6	MEAN	2.195	S. D.	0.436	LOW	1.780	HIGH	2.770					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0005	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0002	0000	0000	0001	0000	0000	0000	0000	0004	0004	0000	0002	0000
MEAN	0.049	0.452	0.068	2.279	0.384	0.043	0.476	0.720	4.35	0.313	0.100	0.595	0.089	0.655	0.509
S. D.	0.019	0.257	0.023	1.075	0.217	0.016	0.229	0.200	1.01	0.228	0.028	0.219	0.036	0.117	0.184
LOW	0.030	0.170	0.036	1.000	0.195	0.025	0.176	0.525	3.22	0.070	0.080	0.440	0.040	0.500	0.350
HIGH	0.075	0.890	0.090	3.600	0.750	0.070	0.880	1.030	6.07	0.670	0.120	0.750	0.140	0.763	0.800

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- D2 MUSCLE

LENGTH	NUM	10	MEAN	0.821	S. D.	0.072	LOW	0.730	HIGH	0.954					
WEIGHT	NUM	10	MEAN	6.509	S. D.	1.929	LOW	4.536	HIGH	10.206					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0002	0002	0000	0000	0003	0000	0000	0000	0002	0006	0007	0000	0004	0000
MEAN	0.042	0.343	0.099	2.868	0.462	0.049	0.148	0.454	4.44	0.213	0.205	0.250	0.134	0.656	0.552
S. D.	0.021	0.172	0.067	1.244	0.134	0.027	0.120	0.096	1.21	0.131	0.171	0.052	0.058	0.245	0.229
LOW	0.010	0.100	0.040	0.750	0.290	0.030	0.040	0.250	2.62	0.110	0.060	0.190	0.055	0.380	0.250
HIGH	0.070	0.650	0.250	4.300	0.690	0.110	0.395	0.570	6.14	0.460	0.440	0.280	0.250	1.070	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- D2 LIVER

LENGTH	NUM	1	MEAN	0.821	S. D.	0.000	LOW	0.821	HIGH	0.821					
WEIGHT	NUM	1	MEAN	6.509	S. D.	0.000	LOW	6.509	HIGH	6.509					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.020	0.890	2.710	0.180	1.540	0.250	1.055	20.000	45.71	0.460	0.300	0.000	1.500	0.000	0.350
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.890	2.710	0.180	1.540	0.250	1.055	20.000	45.71	0.460	0.300	0.000	1.500	0.000	0.350

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- H7 MUSCLE

LENGTH	NUM	10	MEAN	0.827	S. D.	0.105	LOW	0.660	HIGH	0.950					
WEIGHT	NUM	10	MEAN	7.503	S. D.	2.411	LOW	4.086	HIGH	10.783					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0001	0001	0001	0000	0000	0007	0007	0000	0000	0000
MEAN	0.038	0.533	0.060	1.576	0.445	0.024	0.198	0.252	3.82	0.146	0.147	0.753	0.105	0.625	0.474
S. D.	0.025	0.312	0.027	0.302	0.206	0.012	0.155	0.127	0.72	0.028	0.051	0.214	0.050	0.225	0.181
LOW	0.020	0.190	0.030	1.230	0.080	0.010	0.060	0.060	2.69	0.090	0.090	0.630	0.035	0.345	0.160
HIGH	0.055	1.310	0.125	2.155	0.720	0.050	0.500	0.440	5.00	0.180	0.190	1.000	0.190	0.940	0.750

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- H7 LIVER

LENGTH	NUM	2	MEAN	0.847	S. D.	0.047	LOW	0.814	HIGH	0.880					
WEIGHT	NUM	2	MEAN	8.031	S. D.	1.244	LOW	7.151	HIGH	8.910					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.035	0.755	0.645	0.863	2.070	0.030	0.095	3.595	56.88	0.080	0.250	0.630	0.530	0.565	0.345
S. D.	0.021	0.530	0.516	1.008	1.131	0.000	0.049	0.403	56.58	0.071	0.000	0.000	0.396	0.262	0.403
LOW	0.020	0.380	0.280	0.150	1.270	0.000	0.060	3.310	16.87	0.030	0.000	0.000	0.250	0.380	0.060
HIGH	0.050	1.130	1.010	1.575	2.870	0.030	0.130	3.880	96.88	0.130	0.250	0.630	0.810	0.750	0.630

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- K4 MUSCLE

LENGTH	NUM	5	MEAN	0.942	S. D.	0.062	LOW	0.860	HIGH	1.004					
WEIGHT	NUM	5	MEAN	13.336	S. D.	5.552	LOW	6.350	HIGH	21.319					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0004	0002	0000	0000	0000
MEAN	0.065	0.245	0.095	2.242	0.461	0.025	0.119	0.454	5.25	0.238	0.280	0.177	0.121	0.882	0.410
S. D.	0.021	0.169	0.052	0.910	0.086	0.006	0.052	0.169	0.77	0.150	0.000	0.049	0.096	0.391	0.214
LOW	0.050	0.020	0.040	1.200	0.400	0.020	0.070	0.333	4.10	0.100	0.000	0.120	0.050	0.550	0.050
HIGH	0.100	0.486	0.170	3.525	0.610	0.030	0.203	0.750	6.10	0.430	0.280	0.210	0.290	1.450	0.575

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- K4 LIVER

LENGTH	NUM	1	MEAN	0.942	S. D.	0.000	LOW	0.942	HIGH	0.942					
WEIGHT	NUM	1	MEAN	13.336	S. D.	0.000	LOW	13.336	HIGH	13.336					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.020	0.250	1.190	2.275	1.570	0.030	0.130	36.880	21.88	0.230	0.440	0.130	0.690	0.380	0.880
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.250	1.190	2.275	1.570	0.030	0.130	36.880	21.88	0.230	0.440	0.130	0.690	0.380	0.880

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- O4 MUSCLE

LENGTH	NUM	10	MEAN	0.843	S. D.	0.074	LOW	0.730	HIGH	0.980					
WEIGHT	NUM	10	MEAN	8.479	S. D.	1.875	LOW	5.675	HIGH	11.804					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0000	0000	0001	0000	0000	0008	0007	0000	0000	0001
MEAN	0.020	0.589	0.052	1.804	0.422	0.024	0.223	0.193	4.00	0.152	0.220	0.160	0.087	0.525	0.511
S. D.	0.000	0.372	0.018	0.893	0.133	0.013	0.182	0.064	0.64	0.067	0.042	0.030	0.028	0.194	0.183
LOW	0.020	0.220	0.030	0.540	0.205	0.010	0.060	0.130	3.12	0.060	0.190	0.130	0.060	0.130	0.295
HIGH	0.020	1.530	0.080	3.550	0.590	0.050	0.630	0.290	5.28	0.250	0.250	0.190	0.150	0.750	0.810

SALMON, CHINOOK (KING) ONCORHYNCHUS TSHAWYTSCHS 179020 AREA- ALASKA SITE- O4 LIVER

LENGTH	NUM	10	MEAN	0.843	S. D.	0.074	LOW	0.730	HIGH	0.980					
WEIGHT	NUM	10	MEAN	8.479	S. D.	1.875	LOW	5.675	HIGH	11.804					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0009	0006	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0010	0000	0000	0000	0000	0002	0001	0000	0000	0000	0001	0009	0000	0000	0001
MEAN	0.000	0.460	0.221	1.612	2.275	0.039	0.123	11.926	30.23	0.209	0.358	0.190	0.737	0.664	0.583
S. D.	0.000	0.175	0.141	1.198	1.287	0.016	0.042	6.868	14.00	0.099	0.190	0.000	0.361	0.308	0.235
LOW	0.000	0.190	0.060	0.600	1.150	0.020	0.060	2.060	10.00	0.060	0.160	0.000	0.320	0.190	0.220
HIGH	0.000	0.690	0.540	3.650	4.800	0.060	0.190	24.630	62.50	0.430	0.690	0.190	1.410	1.190	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

TROUT, CUTTHROAT — SALMO CLARKI — 179028 — AREA- PACIFIC NORTHWEST — SITE- N4 — MUSCLE

LENGTH	NUM	3	MEAN	0.453	S. D.	0.029	LOW 0.420 HIGH 0.470
WEIGHT	NUM	3	MEAN	0.848	S. D.	0.189	LOW 0.636 HIGH 1.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.302	0.353	0.038	1.447	0.288	0.022	0.397	0.575	4.67	0.167	0.190	0.000	0.115	0.510	0.475
S. D.	0.212	0.071	0.008	0.763	0.103	0.013	0.307	0.071	0.37	0.039	0.000	0.000	0.048	0.140	0.145
LOW	0.160	0.310	0.030	0.950	0.215	0.010	0.190	0.500	4.25	0.135	0.000	0.000	0.085	0.375	0.330
HIGH	0.545	0.435	0.045	2.325	0.360	0.035	0.750	0.640	4.90	0.210	0.190	0.000	0.170	0.655	0.620

TROUT, RAINBOW (STEELHEAD) — SALMO GAIRDNERI — 179029 — AREA- PACIFIC NORTHWEST — SITE- N2 — MUSCLE

LENGTH	NUM	3	MEAN	0.760	S. D.	0.114	LOW 0.680 HIGH 0.890
WEIGHT	NUM	3	MEAN	3.950	S. D.	1.968	LOW 2.724 HIGH 6.220

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0000	0000
MEAN	0.000	0.710	0.055	2.063	0.300	0.013	0.180	0.522	3.00	0.167	0.000	0.000	0.087	0.772	0.715
S. D.	0.000	0.035	0.007	0.602	0.174	0.006	0.106	0.439	0.32	0.058	0.000	0.000	0.025	0.376	0.093
LOW	0.000	0.690	0.050	1.550	0.100	0.010	0.060	0.190	2.63	0.100	0.000	0.000	0.060	0.440	0.610
HIGH	0.000	0.750	0.060	2.725	0.420	0.020	0.260	1.020	3.19	0.200	0.000	0.000	0.110	1.180	0.785

TROUT, RAINBOW (STEELHEAD) — SALMO GAIRDNERI — 179029 — AREA- PACIFIC NORTHWEST — SITE- N2 — LIVER

LENGTH	NUM	1	MEAN	0.890	S. D.	0.000	LOW 0.890 HIGH 0.890
WEIGHT	NUM	1	MEAN	6.220	S. D.	0.000	LOW 6.220 HIGH 6.220

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.000	0.250	0.410	0.700	0.000	0.540	0.030	40.630	16.88	0.160	0.310	0.000	0.890	0.750	0.750
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.250	0.410	0.700	0.000	0.540	0.030	40.630	16.88	0.160	0.310	0.000	0.890	0.750	0.750

TROUT, RAINBOW (STEELHEAD) — SALMO GAIRDNERI — 179029 — AREA- PACIFIC NORTHWEST — SITE- N4 — MUSCLE

LENGTH	NUM	6	MEAN	0.708	S. D.	0.017	LOW 0.690 HIGH 0.740
WEIGHT	NUM	6	MEAN	3.193	S. D.	0.233	LOW 2.951 HIGH 3.587

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.063	0.407	0.052	1.725	0.354	0.026	0.123	0.329	2.95	0.173	0.175	0.060	0.115	0.518	0.498
S. D.	0.036	0.189	0.012	1.286	0.128	0.013	0.059	0.227	0.60	0.039	0.021	0.000	0.058	0.358	0.113
LOW	0.030	0.220	0.040	0.300	0.150	0.010	0.060	0.045	2.25	0.105	0.160	0.000	0.075	0.060	0.390
HIGH	0.110	0.750	0.070	3.600	0.530	0.040	0.220	0.700	3.81	0.210	0.190	0.060	0.230	1.010	0.705

WOLFFISH, ATL. — ANARHICHAS LUPUS — 183002 — AREA- NORTH ATLANTIC — SITE- E9 — MUSCLE

LENGTH	NUM	1	MEAN	1.070	S. D.	0.000	LOW 1.070 HIGH 1.070
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.400	0.190	0.045	5.840	0.785	0.035	0.060	0.190	12.64	0.285	0.000	0.000	0.085	1.090	0.440
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.400	0.190	0.045	5.840	0.785	0.035	0.060	0.190	12.64	0.285	0.000	0.000	0.085	1.090	0.440

WOLFFISH, ATL. — ANARHICHAS LUPUS — 183002 — AREA- NORTH ATLANTIC — SITE- E9 — LIVER

LENGTH	NUM	1	MEAN	1.070	S. D.	0.000	LOW 1.070 HIGH 1.070
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.270	0.440	3.160	13.375	2.530	0.060	0.060	65.630	31.88	0.990	0.130	0.810	0.660	0.220	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.270	0.440	3.160	13.375	2.530	0.060	0.060	65.630	31.88	0.990	0.130	0.810	0.660	0.220	0.630

WOLFFISH, ATL. — ANARHICHAS LUPUS — 183002 — AREA- NORTH ATLANTIC — SITE- I5 — MUSCLE

LENGTH	NUM	14	MEAN	0.705	S. D.	0.250	LOW 0.239 HIGH 1.020
WEIGHT	NUM	6	MEAN	1.490	S. D.	1.312	LOW 0.129 HIGH 3.263

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0014	0014	0014	0014	0014	0013	0014	0014	0014	0014	0013	0014	0014
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0009	0011	0000	0002	0000
MEAN	0.182	0.332	0.070	3.780	0.843	0.037	0.159	0.334	7.30	0.204	0.164	0.070	0.216	0.643	0.664
S. D.	0.147	0.164	0.040	1.641	0.604	0.019	0.118	0.255	2.63	0.117	0.036	0.017	0.071	0.146	0.270
LOW	0.020	0.120	0.035	0.770	0.200	0.010	0.050	0.060	3.25	0.060	0.120	0.060	0.080	0.380	0.335
HIGH	0.560	0.730	0.170	6.600	2.500	0.090	0.500	1.060	11.93	0.510	0.190	0.090	0.350	0.810	1.310

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- I5 LIVER

LENGTH	NUM	4	MEAN	0.916	S. D.	0.085	LOW	0.842	HIGH	1.020					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000
MEAN	0.073	0.359	0.998	4.752	2.144	0.051	0.110	7.764	22.58	0.200	0.220	0.438	0.524	0.370	0.474
S. D.	0.040	0.128	0.528	2.070	1.071	0.037	0.063	3.089	4.57	0.064	0.042	0.322	0.094	0.115	0.147
LOW	0.030	0.190	0.570	1.912	0.980	0.010	0.060	5.000	18.75	0.140	0.190	0.090	0.440	0.220	0.310
HIGH	0.110	0.500	1.690	6.883	3.576	0.100	0.190	12.185	27.81	0.290	0.250	0.780	0.640	0.500	0.630

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- I9 MUSCLE

LENGTH	NUM	1	MEAN	1.000	S. D.	0.000	LOW	1.000	HIGH	1.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.225	0.380	0.065	5.550	0.700	0.030	0.155	0.320	10.09	0.145	0.000	0.000	0.095	0.395	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.225	0.380	0.065	5.550	0.700	0.030	0.155	0.320	10.09	0.145	0.000	0.000	0.095	0.395	0.310

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- I9 LIVER

LENGTH	NUM	1	MEAN	1.000	S. D.	0.000	LOW	1.000	HIGH	1.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.110	0.500	2.030	4.350	1.370	0.330	0.060	18.750	27.50	0.260	0.310	0.310	0.660	0.380	0.060
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.110	0.500	2.030	4.350	1.370	0.330	0.060	18.750	27.50	0.260	0.310	0.310	0.660	0.380	0.060

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- J3 MUSCLE

LENGTH	NUM	2	MEAN	0.688	S. D.	0.145	LOW	0.585	HIGH	0.790					
WEIGHT	NUM	1	MEAN	2.182	S. D.	0.000	LOW	2.182	HIGH	2.182					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.190	0.310	0.175	27.058	0.890	0.020	0.095	0.048	7.35	0.155	0.000	0.470	0.178	0.440	0.523
S. D.	0.184	0.000	0.021	35.981	0.113	0.000	0.049	0.018	0.22	0.049	0.000	0.000	0.088	0.085	0.053
LOW	0.060	0.000	0.160	1.615	0.810	0.000	0.060	0.035	7.19	0.120	0.000	0.000	0.115	0.380	0.485
HIGH	0.320	0.310	0.190	52.500	0.970	0.020	0.130	0.060	7.50	0.190	0.000	0.470	0.240	0.500	0.560

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- J3 LIVER

LENGTH	NUM	1	MEAN	0.790	S. D.	0.000	LOW	0.790	HIGH	0.790					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	0.250	0.720	4.500	2.520	0.120	0.060	17.500	34.38	0.280	0.000	1.500	0.960	0.500	0.380
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.250	0.720	4.500	2.520	0.120	0.060	17.500	34.38	0.280	0.000	1.500	0.960	0.500	0.380

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- J5 MUSCLE

LENGTH	NUM	2	MEAN	0.810	S. D.	0.000	LOW	0.810	HIGH	0.810					
WEIGHT	NUM	1	MEAN	5.425	S. D.	0.000	LOW	5.425	HIGH	5.425					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.220	0.435	0.075	5.803	1.320	0.015	0.060	0.325	8.00	0.305	0.000	0.000	0.075	0.560	0.630
S. D.	0.127	0.262	0.021	3.539	0.099	0.007	0.000	0.078	1.15	0.120	0.000	0.000	0.021	0.354	0.000
LOW	0.130	0.250	0.060	3.300	1.250	0.010	0.060	0.270	7.19	0.220	0.000	0.000	0.060	0.310	0.000
HIGH	0.310	0.620	0.090	8.305	1.390	0.020	0.060	0.380	8.81	0.390	0.000	0.000	0.090	0.810	0.630

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- J5 LIVER

LENGTH	NUM	1	MEAN	0.810	S. D.	0.000	LOW	0.810	HIGH	0.810					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0000	0001	0001	0001	0001	0000	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.050	0.250	2.540	8.600	3.400	0.110	0.190	0.000	33.12	0.360	0.810	0.560	0.000	0.310	0.620
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.250	2.540	8.600	3.400	0.110	0.190	0.000	33.12	0.360	0.810	0.560	0.000	0.310	0.620

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- J6 MUSCLE

LENGTH	NUM	9	MEAN	0.627	S. D.	0.197	LOW	0.315	HIGH	0.910					
WEIGHT	NUM	5	MEAN	1.492	S. D.	1.107	LOW	0.350	HIGH	2.983					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0009	0008	0000	0002	0000
MEAN	0.069	0.307	0.054	8.328	1.048	0.031	0.131	0.238	7.03	0.183	0.000	0.440	0.167	0.458	0.442
S. D.	0.047	0.106	0.018	5.335	0.400	0.006	0.053	0.116	3.38	0.058	0.000	0.000	0.097	0.190	0.183
LOW	0.020	0.190	0.010	2.850	0.505	0.020	0.065	0.040	0.25	0.090	0.000	0.000	0.080	0.190	0.310
HIGH	0.130	0.500	0.075	18.500	1.650	0.040	0.250	0.410	13.31	0.280	0.000	0.440	0.380	0.810	0.910

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- J6 LIVER

LENGTH	NUM	2	MEAN	0.855	S. D.	0.078	LOW	0.800	HIGH	0.910					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.100	0.345	0.915	6.883	3.145	0.235	0.160	24.125	32.97	1.395	0.095	1.300	0.835	0.565	0.300
S. D.	0.000	0.219	0.460	0.647	1.209	0.007	0.042	1.237	8.53	1.280	0.035	1.259	0.092	0.092	0.057
LOW	0.000	0.190	0.590	6.425	2.290	0.230	0.130	23.250	26.94	0.490	0.070	0.410	0.770	0.500	0.260
HIGH	0.100	0.500	1.240	7.340	4.000	0.240	0.190	25.000	39.00	2.300	-0.120	2.190	0.900	0.630	0.340

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K1 MUSCLE

LENGTH	NUM	4	MEAN	0.586	S. D.	0.234	LOW	0.318	HIGH	0.820					
WEIGHT	NUM	2	MEAN	0.683	S. D.	0.539	LOW	0.302	HIGH	1.064					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0004	0000	0000	0000
MEAN	0.103	0.383	0.058	3.797	0.645	0.023	0.134	0.258	7.35	0.170	0.000	0.220	0.108	0.737	0.411
S. D.	0.072	0.120	0.012	1.077	0.222	0.012	0.132	0.229	1.65	0.051	0.000	0.042	0.021	0.208	0.098
LOW	0.030	0.250	0.040	2.100	0.450	0.010	0.040	0.050	5.22	0.100	0.000	0.190	0.080	0.530	0.310
HIGH	0.220	0.565	0.070	4.875	0.945	0.040	0.365	0.695	9.44	0.255	0.000	0.250	0.135	1.070	0.540

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K1 LIVER

LENGTH	NUM	1	MEAN	0.820	S. D.	0.000	LOW	0.820	HIGH	0.820					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.040	0.440	1.560	2.400	0.950	0.030	0.310	12.500	31.88	0.230	0.380	1.440	1.240	0.380	0.310
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.040	0.440	1.560	2.400	0.950	0.030	0.310	12.500	31.88	0.230	0.380	1.440	1.240	0.380	0.310

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K2 MUSCLE

LENGTH	NUM	7	MEAN	0.690	S. D.	0.203	LOW	0.445	HIGH	0.980					
WEIGHT	NUM	6	MEAN	2.839	S. D.	2.061	LOW	0.774	HIGH	5.897					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0000	0000	0001	0000	0001	0001	0000	0000	0000	0001	0008	0007	0000	0003	0000
MEAN	0.165	0.318	0.065	5.810	0.658	0.029	0.203	0.494	8.22	0.211	0.060	0.213	0.119	0.671	0.511
S. D.	0.156	0.088	0.028	4.677	0.284	0.014	0.130	0.506	2.81	0.102	0.000	0.166	0.037	0.260	0.136
LOW	0.025	0.190	0.030	1.700	0.320	0.015	0.060	0.150	3.50	0.070	0.000	0.095	0.065	0.320	0.375
HIGH	0.450	0.500	0.120	14.250	1.090	0.060	0.493	1.795	12.07	0.410	0.060	0.330	0.170	1.000	0.720

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K2 LIVER

LENGTH	NUM	1	MEAN	0.820	S. D.	0.000	LOW	0.820	HIGH	0.820					
WEIGHT	NUM	1	MEAN	4.536	S. D.	0.000	LOW	4.536	HIGH	4.536					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0000	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	0000
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.080	0.630	1.690	0.000	0.000	0.060	0.030	7.880	13.13	0.160	0.220	0.090	0.630	0.250	0.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.080	0.630	1.690	0.000	0.000	0.060	0.030	7.880	13.13	0.160	0.220	0.090	0.630	0.250	0.000

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K4 MUSCLE

LENGTH	NUM	11	MEAN	0.788	S. D.	0.204	LOW	0.363	HIGH	0.980					
WEIGHT	NUM	3	MEAN	1.412	S. D.	1.057	LOW	0.483	HIGH	2.562					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0010	0011	0011	0011	0011	0011	0010	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000	0009	0006	0000	0002	0000
MEAN	0.192	0.299	0.072	7.936	0.900	0.032	0.192	0.192	9.04	0.195	0.075	0.258	0.164	0.487	0.486
S. D.	0.175	0.132	0.042	6.790	0.338	0.006	0.194	0.062	2.31	0.037	0.021	0.117	0.066	0.145	0.200
LOW	0.020	0.040	0.040	1.220	0.180	0.020	0.060	0.090	5.56	0.135	0.060	0.130	0.105	0.345	0.185
HIGH	0.635	0.535	0.190	23.116	1.385	0.040	0.690	0.285	12.72	0.260	0.090	0.440	0.325	0.810	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K4 LIVER

LENGTH	NUM	2	MEAN	0.910	S. D.	0.014	LOW	0.900	HIGH	0.920					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.195	0.895	4.105	26.698	4.608	0.105	0.140	21.140	43.50	0.365	0.205	2.720	1.150	0.420	0.360
S. D.	0.092	0.290	3.811	34.121	0.555	0.021	0.014	2.461	4.95	0.035	0.021	1.372	0.170	0.113	0.198
LOW	0.130	0.690	1.410	2.570	4.215	0.090	0.130	19.400	40.00	0.340	0.190	1.750	1.030	0.340	0.220
HIGH	0.260	1.100	6.800	50.825	5.000	0.120	0.150	22.880	47.00	0.390	0.220	3.690	1.270	0.500	0.500

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K5 MUSCLE

LENGTH	NUM	2	MEAN	0.820	S. D.	0.000	LOW	0.820	HIGH	0.820					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000	0002	0000	0000	0000
MEAN	0.090	0.405	0.045	5.503	0.840	0.030	0.310	0.285	8.02	0.250	0.095	0.000	0.330	0.660	0.720
S. D.	0.057	0.219	0.007	3.285	0.552	0.014	0.000	0.134	0.74	0.028	0.049	0.000	0.212	0.042	0.127
LOW	0.050	0.250	0.040	3.180	0.450	0.020	0.000	0.190	7.50	0.230	0.060	0.000	0.180	0.630	0.630
HIGH	0.130	0.560	0.050	7.825	1.230	0.040	0.310	0.380	8.54	0.270	0.130	0.000	0.480	0.690	0.810

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K5 LIVER

LENGTH	NUM	1	MEAN	0.795	S. D.	0.000	LOW	0.795	HIGH	0.795					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.075	0.560	2.845	3.125	2.470	0.070	0.155	12.970	37.81	0.300	0.470	2.360	1.300	0.655	0.545
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.075	0.560	2.845	3.125	2.470	0.070	0.155	12.970	37.81	0.300	0.470	2.360	1.300	0.655	0.545

WOLFFISH, ATL. ANARHICHAS LUPUS 183002 AREA- NORTH ATLANTIC SITE- K6 MUSCLE

LENGTH	NUM	3	MEAN	0.630	S. D.	0.075	LOW	0.560	HIGH	0.710					
WEIGHT	NUM	3	MEAN	2.858	S. D.	1.009	LOW	1.885	HIGH	3.900					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0002	0000
MEAN	0.230	0.397	0.092	7.160	0.392	0.028	0.158	0.227	5.32	0.213	0.000	0.000	0.112	0.500	0.512
S. D.	0.078	0.131	0.010	3.665	0.193	0.003	0.053	0.130	1.56	0.025	0.000	0.000	0.045	0.000	0.094
LOW	0.175	0.250	0.080	2.930	0.170	0.025	0.125	0.100	3.87	0.190	0.000	0.000	0.070	0.000	0.410
HIGH	0.285	0.500	0.100	9.400	0.525	0.030	0.220	0.360	6.97	0.240	0.000	0.000	0.160	0.500	0.595

TAUTOG TAUTOGA ONITIS 185022 AREA- NORTH ATLANTIC SITE- I7 MUSCLE

LENGTH	NUM	9	MEAN	0.441	S. D.	0.059	LOW	0.354	HIGH	0.554					
WEIGHT	NUM	9	MEAN	1.910	S. D.	0.747	LOW	1.135	HIGH	3.632					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0008	0008	0007	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0006	0000	0000	0000
MEAN	0.253	0.526	0.076	2.458	0.444	0.041	0.167	0.370	4.07	0.176	0.206	0.470	0.244	0.706	0.620
S. D.	0.092	0.261	0.042	0.708	0.257	0.036	0.076	0.253	1.06	0.034	0.138	0.255	0.179	0.279	0.191
LOW	0.130	0.250	0.035	1.725	0.140	0.020	0.040	0.130	2.75	0.135	0.060	0.250	0.070	0.380	0.380
HIGH	0.375	1.000	0.180	3.775	0.970	0.130	0.290	0.940	6.06	0.230	0.380	0.750	0.560	1.310	1.000

TAUTOG TAUTOGA ONITIS 185022 AREA- NORTH ATLANTIC SITE- N7 MUSCLE

LENGTH	NUM	5	MEAN	0.371	S. D.	0.037	LOW	0.330	HIGH	0.430					
WEIGHT	NUM	5	MEAN	1.309	S. D.	0.316	LOW	0.984	HIGH	1.816					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0000	0000
MEAN	0.330	0.488	0.049	1.678	0.626	0.030	0.092	0.141	4.49	0.180	0.000	0.000	0.208	0.555	0.460
S. D.	0.076	0.082	0.011	1.011	0.106	0.007	0.036	0.079	0.44	0.041	0.000	0.000	0.067	0.131	0.082
LOW	0.210	0.440	0.030	0.737	0.455	0.020	0.060	0.060	4.00	0.140	0.000	0.000	0.105	0.440	0.330
HIGH	0.420	0.630	0.060	3.340	0.725	0.040	0.130	0.230	5.09	0.240	0.000	0.000	0.280	0.750	0.550

ABALONE, GREEN HALIOTIS FULGENS 187005 AREA- CALIFORNIA SITE- K3 SHUCKED

LENGTH	NUM	8	MEAN	0.175	S. D.	0.005	LOW	0.168	HIGH	0.180					
WEIGHT	NUM	10	MEAN	0.803	S. D.	0.151	LOW	0.550	HIGH	1.060					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0006	0000	0000	0000	0001	0000	0000	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	0.029	0.838	2.434	14.259	0.167	0.640	0.431	2.845	18.04	2.930	0.789	0.236	0.556	0.963	1.053
S. D.	0.012	0.209	0.693	9.300	0.113	0.323	0.124	1.086	4.53	1.531	0.204	0.134	0.223	0.365	0.319
LOW	0.020	0.560	1.360	3.000	0.020	0.130	0.250	1.190	10.00	0.320	0.575	0.060	0.300	0.250	0.750
HIGH	0.045	1.190	3.500	27.000	0.340	1.140	0.630	4.940	26.07	6.175	1.190	0.470	0.880	1.560	1.735

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

ABALONE, RED — HALIOTIS RUFESCENS — 187008 — AREA- CALIFORNIA — SITE- E3 — SHUCKED

LENGTH	NUM	10	MEAN	0.181	S. D.	0.007	LOW	0.170	HIGH	0.190					
WEIGHT	NUM	10	MEAN	1.001	S. D.	0.116	LOW	0.808	HIGH	1.205					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0008	0009	0010	0010	0010	0010	0010	0009	0009	0010	0010	0009
N DET.	0005	0001	0001	0000	0002	0001	0000	0000	0000	0001	0007	0007	0000	0002	0000
MEAN	0.078	0.554	0.188	13.991	0.381	0.139	0.201	0.740	7.91	1.588	0.400	0.485	0.245	1.074	0.928
S. D.	0.051	0.180	0.061	8.124	0.461	0.064	0.089	0.214	2.68	0.872	0.311	0.191	0.126	0.461	0.305
LOW	0.020	0.330	0.110	4.300	0.100	0.070	0.040	0.416	4.11	0.140	0.180	0.350	0.030	0.600	0.650
HIGH	0.130	0.790	0.310	24.100	1.380	0.250	0.333	1.090	13.93	2.700	0.620	0.620	0.460	2.000	1.475

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- I7 — MANTLE, SKINLESS

LENGTH	NUM	10	MEAN	0.152	S. D.	0.053	LOW	0.105	HIGH	0.273					
WEIGHT	NUM	10	MEAN	0.078	S. D.	0.036	LOW	0.039	HIGH	0.148					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0008	0000	0001	0000
MEAN	0.078	0.386	0.083	4.142	0.471	0.066	0.175	9.261	11.37	0.267	0.190	0.410	0.357	0.580	0.631
S. D.	0.047	0.224	0.024	1.696	0.184	0.019	0.076	3.827	2.37	0.059	0.000	0.085	0.101	0.290	0.248
LOW	0.040	0.160	0.060	1.200	0.090	0.035	0.095	3.655	7.34	0.180	0.000	0.350	0.260	0.190	0.380
HIGH	0.170	0.845	0.125	6.650	0.730	0.090	0.345	16.630	16.25	0.380	0.190	0.470	0.585	0.860	1.220

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- J7 — MANTLE, SKINLESS

LENGTH	NUM	3	MEAN	0.078	S. D.	0.010	LOW	0.067	HIGH	0.086					
WEIGHT	NUM	3	MEAN	0.020	S. D.	0.005	LOW	0.017	HIGH	0.025					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.020	0.447	0.142	1.717	0.813	0.075	0.208	3.737	11.21	0.255	0.170	0.270	0.382	0.800	0.710
S. D.	0.000	0.080	0.025	0.714	0.329	0.038	0.201	0.528	3.63	0.143	0.000	0.000	0.071	0.240	0.269
LOW	0.000	0.370	0.125	0.920	0.450	0.035	0.090	3.130	7.25	0.090	0.000	0.000	0.320	0.630	0.470
HIGH	0.020	0.530	0.170	2.300	1.090	0.110	0.440	4.090	14.38	0.350	0.170	0.270	0.460	0.970	1.000

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- J8 — MANTLE, SKINLESS

LENGTH	NUM	17	MEAN	0.168	S. D.	0.044	LOW	0.105	HIGH	0.250					
WEIGHT	NUM	17	MEAN	0.140	S. D.	0.082	LOW	0.047	HIGH	0.317					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0017	0017	0016	0017	0017	0017	0017	0017	0017	0017	0017	0017	0017
N DET.	0007	0000	0000	0000	0000	0000	0001	0000	0000	0000	0005	0016	0000	0017	0000
MEAN	0.053	0.613	0.112	3.615	0.267	0.053	0.331	2.597	11.31	0.303	0.322	0.170	0.183	0.000	0.607
S. D.	0.031	0.248	0.028	3.445	0.114	0.018	0.262	1.093	0.97	0.087	0.082	0.000	0.025	0.000	0.104
LOW	0.020	0.310	0.080	0.450	0.080	0.020	0.120	0.240	9.19	0.150	0.190	0.000	0.140	0.000	0.380
HIGH	0.110	1.060	0.180	15.576	0.500	0.080	0.940	4.345	12.50	0.470	0.450	0.170	0.220	0.000	0.795

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- N1 — MANTLE, SKINLESS

LENGTH	NUM	2	MEAN	0.115	S. D.	0.023	LOW	0.099	HIGH	0.131					
WEIGHT	NUM	2	MEAN	0.060	S. D.	0.031	LOW	0.038	HIGH	0.082					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.000	0.590	0.145	4.975	0.775	0.070	0.315	5.375	12.75	0.365	0.000	0.250	0.345	1.500	0.755
S. D.	0.000	0.042	0.021	0.672	0.035	0.042	0.262	0.262	1.41	0.007	0.000	0.000	0.092	0.000	0.177
LOW	0.000	0.560	0.130	4.500	0.750	0.040	0.130	5.190	11.75	0.360	0.000	0.000	0.280	1.500	0.530
HIGH	0.000	0.620	0.160	5.450	0.800	0.100	0.500	5.560	13.75	0.370	0.000	0.250	0.410	1.500	0.880

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- N2 — MANTLE, SKINLESS

LENGTH	NUM	3	MEAN	0.134	S. D.	0.034	LOW	0.102	HIGH	0.169					
WEIGHT	NUM	3	MEAN	0.076	S. D.	0.045	LOW	0.036	HIGH	0.125					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	0.030	0.545	0.155	1.505	0.458	0.098	0.105	6.742	9.60	0.422	0.000	0.000	0.405	0.640	0.988
S. D.	0.014	0.192	0.067	0.342	0.157	0.038	0.035	1.823	1.68	0.146	0.000	0.000	0.160	0.283	0.640
LOW	0.020	0.380	0.100	1.306	0.290	0.065	0.080	5.190	7.69	0.255	0.000	0.000	0.310	0.440	0.535
HIGH	0.040	0.755	0.230	1.900	0.600	0.140	0.130	8.750	10.85	0.530	0.000	0.000	0.590	0.840	1.440

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- N3 — MANTLE, SKINLESS

LENGTH	NUM	13	MEAN	0.139	S. D.	0.054	LOW	0.068	HIGH	0.214					
WEIGHT	NUM	13	MEAN	0.098	S. D.	0.066	LOW	0.022	HIGH	0.206					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0012	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0013	0012
N DET.	0007	0000	0000	0000	0000	0001	0000	0000	0000	0000	0012	0013	0000	0010	0000
MEAN	0.048	0.574	0.158	3.420	0.483	0.087	0.223	6.537	11.19	0.265	0.250	0.000	0.262	0.833	0.530
S. D.	0.046	0.253	0.072	1.350	0.158	0.044	0.154	3.852	2.54	0.095	0.000	0.000	0.085	0.286	0.112
LOW	0.020	0.300	0.060	0.865	0.245	0.010	0.060	1.440	6.06	0.090	0.000	0.000	0.120	0.560	0.310
HIGH	0.140	0.970	0.310	6.000	0.730	0.170	0.630	12.935	16.47	0.420	0.250	0.000	0.485	1.130	0.690

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

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LOCATION LEVEL 5

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- N5 — MANTLE, SKINLESS

LENGTH	NUM	5	MEAN	0.112	S. D.	0.027	LOW	0.081	HIGH	0.151					
WEIGHT	NUM	5	MEAN	0.048	S. D.	0.027	LOW	0.020	HIGH	0.089					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0005	0000
MEAN	0.023	0.628	0.168	2.574	0.551	0.069	0.275	7.814	15.98	0.311	0.130	0.000	0.285	0.000	0.793
S. D.	0.006	0.164	0.016	1.438	0.304	0.019	0.304	2.235	2.39	0.022	0.000	0.000	0.059	0.000	0.190
LOW	0.020	0.380	0.150	1.533	0.170	0.040	0.060	4.630	13.93	0.285	0.000	0.000	0.230	0.000	0.630
HIGH	0.030	0.815	0.190	5.000	0.815	0.090	0.810	10.750	18.75	0.340	0.130	0.000	0.350	0.000	1.000

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- N7 — MANTLE, SKINLESS

LENGTH	NUM	7	MEAN	0.115	S. D.	0.029	LOW	0.077	HIGH	0.160					
WEIGHT	NUM	7	MEAN	0.055	S. D.	0.030	LOW	0.021	HIGH	0.107					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0004	0000
MEAN	0.088	0.456	0.156	1.973	0.439	0.081	0.184	5.332	10.44	0.289	0.310	0.175	0.309	0.553	0.757
S. D.	0.056	0.205	0.067	1.443	0.213	0.019	0.065	1.691	2.86	0.074	0.000	0.064	0.098	0.373	0.223
LOW	0.040	0.190	0.080	0.840	0.100	0.065	0.120	2.880	4.69	0.150	0.000	0.130	0.195	0.250	0.440
HIGH	0.150	0.810	0.270	4.925	0.670	0.120	0.280	7.560	13.62	0.395	0.310	0.220	0.455	0.970	1.080

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- N8 — MANTLE, SKINLESS

LENGTH	NUM	11	MEAN	0.202	S. D.	0.018	LOW	0.179	HIGH	0.242					
WEIGHT	NUM	11	MEAN	0.183	S. D.	0.046	LOW	0.127	HIGH	0.290					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0009	0000	0011	0000
MEAN	0.038	0.494	0.205	4.283	0.786	0.059	0.234	5.851	15.22	0.278	0.090	0.205	0.244	0.000	0.574
S. D.	0.017	0.183	0.081	1.209	0.228	0.016	0.091	3.192	3.97	0.068	0.000	0.064	0.067	0.000	0.124
LOW	0.020	0.310	0.050	3.025	0.460	0.040	0.130	0.250	3.94	0.180	0.090	0.160	0.080	0.000	0.310
HIGH	0.060	0.815	0.365	7.250	1.160	0.090	0.440	9.285	18.12	0.405	0.090	0.250	0.330	0.000	0.810

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- O1 — MANTLE, SKINLESS

LENGTH	NUM	20	MEAN	0.132	S. D.	0.036	LOW	0.087	HIGH	0.195					
WEIGHT	NUM	20	MEAN	0.077	S. D.	0.051	LOW	0.023	HIGH	0.183					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020
N DET.	0013	0000	0000	0000	0000	0000	0000	0000	0000	0000	0019	0015	0000	0018	0000
MEAN	0.100	0.571	0.135	2.938	0.593	0.072	0.261	3.962	12.40	0.292	0.190	0.292	0.256	0.845	0.614
S. D.	0.133	0.227	0.036	1.726	0.345	0.052	0.199	2.208	1.52	0.066	0.000	0.115	0.088	0.219	0.131
LOW	0.020	0.250	0.060	0.983	0.110	0.030	0.060	0.190	9.47	0.110	0.000	0.160	0.080	0.690	0.330
HIGH	0.390	1.250	0.195	8.750	1.800	0.280	0.880	10.500	15.38	0.380	0.190	0.440	0.480	1.000	0.880

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- P1 — WHOLE

LENGTH	NUM	23	MEAN	0.197	S. D.	0.050	LOW	0.108	HIGH	0.300					
WEIGHT	NUM	23	MEAN	0.147	S. D.	0.073	LOW	0.036	HIGH	0.298					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0023	0022	0023	0023	0022	0023	0023	0022	0023	0023	0023	0023	0023	0023	0023
N DET.	0009	0000	0000	0000	0000	0000	0000	0000	0000	0000	0015	0015	0000	0000	0000
MEAN	0.050	0.576	0.163	6.744	0.801	0.167	0.399	38.365	17.00	0.300	0.133	0.269	0.385	0.855	0.724
S. D.	0.037	0.181	0.042	2.603	0.232	0.092	0.490	19.888	5.52	0.098	0.070	0.166	0.112	0.256	0.231
LOW	0.020	0.345	0.100	2.280	0.480	0.070	0.060	6.530	6.75	0.110	0.060	0.060	0.190	0.390	0.220
HIGH	0.125	1.030	0.245	13.750	1.440	0.460	2.190	76.565	31.25	0.610	0.250	0.590	0.580	1.380	1.140

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- P2 — MANTLE, SKINLESS

LENGTH	NUM	7	MEAN	0.138	S. D.	0.040	LOW	0.099	HIGH	0.210					
WEIGHT	NUM	7	MEAN	0.083	S. D.	0.059	LOW	0.033	HIGH	0.200					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0006	0007	0007	0007	0007	0007	0006
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0006	0000	0002	0000
MEAN	0.140	0.863	0.138	3.869	0.353	0.069	0.373	3.283	12.95	0.272	0.220	0.160	0.242	0.996	0.743
S. D.	0.028	0.396	0.044	2.249	0.111	0.042	0.286	1.490	0.97	0.066	0.000	0.000	0.091	0.198	0.301
LOW	0.120	0.440	0.090	1.275	0.260	0.040	0.060	1.690	11.63	0.180	0.000	0.000	0.190	0.750	0.515
HIGH	0.160	1.380	0.210	7.140	0.560	0.160	0.760	5.440	14.19	0.370	0.220	0.160	0.430	1.250	1.310

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- P3 — MANTLE, SKINLESS

LENGTH	NUM	6	MEAN	0.133	S. D.	0.016	LOW	0.113	HIGH	0.153					
WEIGHT	NUM	6	MEAN	0.072	S. D.	0.021	LOW	0.040	HIGH	0.100					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0004	0006	0005	0006	0006	0006	0006	0006	0006
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0001	0000
MEAN	0.130	0.454	0.174	4.653	0.405	0.064	0.283	3.921	11.19	0.228	0.205	0.310	0.326	0.649	0.936
S. D.	0.000	0.142	0.224	2.682	0.124	0.018	0.353	3.043	2.78	0.078	0.064	0.000	0.100	0.283	0.454
LOW	0.000	0.310	0.060	1.540	0.250	0.040	0.060	0.400	6.69	0.130	0.160	0.000	0.205	0.440	0.500
HIGH	0.130	0.690	0.630	9.000	0.560	0.080	0.810	9.190	14.06	0.355	0.250	0.310	0.490	1.130	1.700

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- S1 — MANTLE, SKINLESS

LENGTH	NUM	2	MEAN	0.137	S. D.	0.070	LOW	0.087	HIGH	0.186					
WEIGHT	NUM	2	MEAN	0.071	S. D.	0.062	LOW	0.027	HIGH	0.114					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.000	0.405	0.290	0.785	0.320	0.075	0.350	6.845	12.87	0.370	0.000	0.000	0.245	0.630	0.910
S. D.	0.000	0.134	0.071	0.474	0.269	0.049	0.311	5.607	3.87	0.057	0.000	0.000	0.021	0.000	0.311
LOW	0.000	0.310	0.240	0.450	0.130	0.040	0.130	2.880	10.13	0.330	0.000	0.000	0.230	0.000	0.690
HIGH	0.000	0.500	0.340	1.120	0.510	0.110	0.570	10.810	15.60	0.410	0.000	0.000	0.260	0.630	1.130

SQUID, ATL. LONGFINNED — LOLIGO PEALII — 188003 — AREA- NORTH ATLANTIC — SITE- S6 — MANTLE, SKINLESS

LENGTH	NUM	4	MEAN	0.155	S. D.	0.024	LOW	0.128	HIGH	0.184					
WEIGHT	NUM	4	MEAN	0.108	S. D.	0.035	LOW	0.070	HIGH	0.152					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0001	0000
MEAN	0.040	0.486	0.198	3.231	0.586	0.050	0.148	3.096	14.37	0.381	0.190	0.325	0.254	0.882	0.550
S. D.	0.000	0.235	0.176	1.806	0.108	0.014	0.021	1.802	3.21	0.135	0.000	0.191	0.093	0.316	0.164
LOW	0.000	0.190	0.090	1.600	0.445	0.030	0.130	1.535	11.09	0.275	0.000	0.190	0.180	0.595	0.380
HIGH	0.040	0.750	0.460	5.000	0.700	0.060	0.170	5.560	18.25	0.560	0.190	0.460	0.390	1.220	0.690

SQUID, PAC. — LOLIGO OPALESCENS — 188006 — AREA- CALIFORNIA — SITE- F8 — WHOLE

LENGTH	NUM	10	MEAN	0.148	S. D.	0.004	LOW	0.143	HIGH	0.156					
WEIGHT	NUM	9	MEAN	0.077	S. D.	0.008	LOW	0.070	HIGH	0.091					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0006	0001	0000	0000	0000	0000	0001	0000	0000	0002	0009	0006	0000	0001	0000
MEAN	0.038	0.597	0.427	2.071	0.580	0.124	0.162	30.551	16.45	0.382	0.700	0.230	0.417	0.928	0.919
S. D.	0.021	0.263	0.090	1.121	0.221	0.135	0.087	5.843	2.99	0.161	0.000	0.115	0.146	0.645	0.248
LOW	0.010	0.300	0.215	0.558	0.240	0.030	0.045	21.780	11.93	0.285	0.000	0.150	0.210	0.130	0.475
HIGH	0.060	1.130	0.515	3.450	0.945	0.500	0.250	39.310	20.71	0.770	0.700	0.400	0.695	1.900	1.250

SQUID, PAC. — LOLIGO OPALESCENS — 188006 — AREA- CALIFORNIA — SITE- I8 — WHOLE

LENGTH	NUM	30	MEAN	0.162	S. D.	0.020	LOW	0.135	HIGH	0.180					
WEIGHT	NUM	20	MEAN	0.058	S. D.	0.016	LOW	0.042	HIGH	0.073					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0029	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030
N DET.	0019	0000	0000	0000	0000	0000	0001	0000	0000	0000	0015	0024	0000	0001	0000
MEAN	0.064	0.749	0.766	3.265	0.566	0.062	0.193	25.390	21.27	0.212	0.282	0.263	0.433	0.616	0.654
S. D.	0.066	0.425	0.274	2.099	0.201	0.029	0.278	11.555	10.51	0.047	0.204	0.190	0.113	0.187	0.223
LOW	0.020	0.375	0.210	0.925	0.110	0.030	0.010	10.880	8.75	0.140	0.060	0.130	0.260	0.340	0.380
HIGH	0.240	2.310	1.250	10.100	0.950	0.180	1.560	53.130	66.87	0.350	0.880	0.630	0.730	0.985	1.630

SQUID, PAC. — LOLIGO OPALESCENS — 188006 — AREA- CALIFORNIA — SITE- K3 — WHOLE

LENGTH	NUM	10	MEAN	0.170	S. D.	0.000	LOW	0.170	HIGH	0.170					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.036	0.486	1.223	2.612	0.539	0.104	0.171	37.198	11.86	0.176	0.197	0.276	0.313	0.638	0.514
S. D.	0.014	0.213	0.452	0.732	0.130	0.043	0.109	14.254	3.97	0.025	0.166	0.102	0.153	0.205	0.219
LOW	0.020	0.190	0.410	1.225	0.290	0.050	0.060	9.630	3.44	0.135	0.060	0.190	0.140	0.380	0.170
HIGH	0.050	0.940	1.720	4.166	0.710	0.185	0.310	53.125	16.67	0.215	0.500	0.440	0.680	0.965	0.895

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- I5 — MANTLE, SKINLESS

LENGTH	NUM	10	MEAN	0.242	S. D.	0.020	LOW	0.211	HIGH	0.275					
WEIGHT	NUM	10	MEAN	0.363	S. D.	0.080	LOW	0.244	HIGH	0.492					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0006	0000	0000	0000	0000	0000	0002	0000	0000	0000	0010	0008	0000	0005	0000
MEAN	0.073	0.453	0.106	1.549	0.407	0.046	0.252	3.078	10.87	0.225	0.000	0.130	0.333	0.788	0.931
S. D.	0.055	0.248	0.038	0.945	0.271	0.018	0.259	0.939	2.18	0.068	0.000	0.000	0.207	0.341	0.348
LOW	0.020	0.250	0.065	0.450	0.220	0.010	0.050	1.920	7.19	0.130	0.000	0.130	0.160	0.440	0.530
HIGH	0.120	1.000	0.180	3.730	1.130	0.080	0.690	4.380	13.94	0.330	0.000	0.130	0.810	1.250	1.440

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- I9 — MANTLE, SKINLESS

LENGTH	NUM	20	MEAN	0.226	S. D.	0.034	LOW	0.179	HIGH	0.288					
WEIGHT	NUM	20	MEAN	0.287	S. D.	0.138	LOW	0.140	HIGH	0.558					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0005	0000	0000	0000	0000	0000	0001	0000	0000	0000	0015	0011	0000	0020	0000
MEAN	0.069	0.726	0.143	2.238	0.514	0.046	0.372	5.421	13.41	0.260	0.126	0.192	0.299	0.000	0.548
S. D.	0.037	0.412	0.048	1.176	0.190	0.017	0.387	2.596	1.20	0.045	0.035	0.055	0.049	0.000	0.114
LOW	0.020	0.310	0.070	0.575	0.130	0.020	0.120	0.460	11.06	0.200	0.090	0.130	0.230	0.000	0.330
HIGH	0.150	1.810	0.240	4.500	0.985	0.080	1.815	9.500	15.91	0.360	0.160	0.310	0.390	0.000	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- J7 — MANTLE, SKINLESS

LENGTH	NUM	1	MEAN	0.192	S. D.	0.000	LOW	0.192	HIGH	0.192					
WEIGHT	NUM	1	MEAN	0.140	S. D.	0.000	LOW	0.140	HIGH	0.140					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.020	0.500	0.160	2.150	0.550	0.090	0.250	12.380	16.13	0.340	0.140	0.000	0.300	0.000	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.500	0.160	2.150	0.550	0.090	0.250	12.380	16.13	0.340	0.140	0.000	0.300	0.000	0.630

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- J8 — MANTLE, SKINLESS

LENGTH	NUM	5	MEAN	0.145	S. D.	0.015	LOW	0.121	HIGH	0.159					
WEIGHT	NUM	5	MEAN	0.068	S. D.	0.015	LOW	0.047	HIGH	0.086					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0001	0000	0001	0000
MEAN	0.020	0.452	0.486	3.579	0.710	0.050	0.162	3.702	14.04	0.526	0.145	0.508	0.298	0.715	0.758
S. D.	0.000	0.212	0.286	2.339	0.385	0.007	0.036	2.146	2.81	0.165	0.021	0.185	0.070	0.222	0.225
LOW	0.000	0.250	0.080	0.470	0.120	0.040	0.130	0.630	10.06	0.310	0.130	0.310	0.210	0.500	0.440
HIGH	0.020	0.810	0.880	6.950	1.110	0.060	0.210	6.250	17.94	0.590	0.160	0.750	0.400	0.970	1.000

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- J9 — MANTLE, SKINLESS

LENGTH	NUM	4	MEAN	0.196	S. D.	0.012	LOW	0.179	HIGH	0.205					
WEIGHT	NUM	4	MEAN	0.164	S. D.	0.024	LOW	0.129	HIGH	0.183					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0000	0000
MEAN	0.040	0.488	0.190	3.391	0.729	0.053	0.265	6.676	14.72	0.413	0.300	0.000	0.251	1.020	0.598
S. D.	0.000	0.093	0.047	1.116	0.188	0.017	0.212	2.664	0.86	0.112	0.113	0.000	0.045	0.206	0.209
LOW	0.000	0.380	0.140	2.550	0.580	0.030	0.060	2.885	13.75	0.280	0.220	0.000	0.200	0.830	0.440
HIGH	0.040	0.570	0.250	5.000	1.000	0.070	0.560	9.130	15.75	0.520	0.380	0.000	0.310	1.310	0.880

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- N2 — MANTLE, SKINLESS

LENGTH	NUM	2	MEAN	0.083	S. D.	0.004	LOW	0.080	HIGH	0.086					
WEIGHT	NUM	2	MEAN	0.021	S. D.	0.002	LOW	0.019	HIGH	0.022					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0001	0000	0000	0000
MEAN	0.120	0.755	0.150	0.925	0.320	0.045	0.160	3.245	13.85	0.160	0.000	0.190	0.430	0.755	0.640
S. D.	0.000	0.431	0.057	0.000	0.000	0.007	0.042	1.336	0.76	0.014	0.000	0.000	0.042	0.177	0.000
LOW	0.000	0.450	0.110	0.000	0.000	0.040	0.130	2.300	13.31	0.150	0.000	0.000	0.400	0.630	0.000
HIGH	0.120	1.060	0.190	0.925	0.320	0.050	0.190	4.190	14.38	0.170	0.000	0.190	0.460	0.880	0.640

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- N3 — MANTLE, SKINLESS

LENGTH	NUM	4	MEAN	0.165	S. D.	0.034	LOW	0.131	HIGH	0.211					
WEIGHT	NUM	4	MEAN	0.082	S. D.	0.037	LOW	0.052	HIGH	0.127					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0003
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0000	0004	0004	0000	0000	0000
MEAN	0.135	0.516	0.179	3.831	0.533	0.050	0.092	4.395	13.19	0.246	0.000	0.000	0.345	0.908	0.678
S. D.	0.120	0.128	0.044	1.970	0.206	0.008	0.055	2.111	1.33	0.071	0.000	0.000	0.204	0.252	0.063
LOW	0.050	0.330	0.120	1.750	0.260	0.040	0.060	2.600	11.31	0.190	0.000	0.000	0.220	0.690	0.630
HIGH	0.220	0.620	0.225	6.250	0.740	0.060	0.155	7.440	14.38	0.350	0.000	0.000	0.650	1.250	0.750

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- O1 — MANTLE, SKINLESS

LENGTH	NUM	5	MEAN	0.130	S. D.	0.042	LOW	0.089	HIGH	0.194					
WEIGHT	NUM	5	MEAN	0.072	S. D.	0.054	LOW	0.031	HIGH	0.164					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0005	0000
MEAN	0.030	0.501	0.178	1.391	0.634	0.059	0.159	2.490	14.98	0.360	0.153	0.220	0.282	0.000	0.614
S. D.	0.014	0.147	0.070	1.076	0.499	0.016	0.030	1.279	1.44	0.058	0.083	0.000	0.036	0.000	0.114
LOW	0.020	0.370	0.130	0.380	0.230	0.040	0.130	0.590	13.25	0.280	0.060	0.000	0.220	0.000	0.470
HIGH	0.040	0.685	0.300	2.950	1.480	0.080	0.190	4.190	16.25	0.430	0.220	0.220	0.310	0.000	0.750

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- O2 — MANTLE, SKINLESS

LENGTH	NUM	9	MEAN	0.240	S. D.	0.010	LOW	0.231	HIGH	0.263					
WEIGHT	NUM	9	MEAN	0.064	S. D.	0.021	LOW	0.053	HIGH	0.119					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0008	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0006	0000	0001	0000
MEAN	0.112	0.579	0.248	3.298	0.593	0.092	0.128	9.308	14.54	0.364	0.255	0.300	0.278	1.201	0.801
S. D.	0.152	0.293	0.058	1.164	0.150	0.039	0.060	2.899	3.15	0.183	0.134	0.205	0.074	0.479	0.257
LOW	0.020	0.200	0.175	1.800	0.330	0.040	0.055	5.910	8.93	0.200	0.160	0.090	0.160	0.300	0.565
HIGH	0.400	1.190	0.340	4.750	0.750	0.155	0.240	13.790	18.75	0.680	0.350	0.500	0.365	1.950	1.370

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- P2 — MANTLE, SKINLESS

LENGTH	NUM	14	MEAN	0.186	S. D.	0.006	LOW	0.173	HIGH	0.196					
WEIGHT	NUM	14	MEAN	0.143	S. D.	0.013	LOW	0.124	HIGH	0.166					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0014	0013	0014	0014	0014	0014	0013	0014	0014	0014	0014	0014	0014	0014	0014
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0013	0011	0000	0007	0000
MEAN	0.060	0.487	0.093	2.790	0.491	0.054	0.122	4.895	13.57	0.287	0.140	0.243	0.283	0.731	0.725
S. D.	0.040	0.219	0.026	1.632	0.229	0.010	0.042	1.623	2.15	0.084	0.000	0.196	0.144	0.206	0.244
LOW	0.020	0.150	0.040	1.080	0.190	0.040	0.060	1.880	8.63	0.120	0.000	0.130	0.160	0.530	0.440
HIGH	0.130	0.970	0.135	6.810	1.085	0.070	0.190	7.780	17.81	0.390	0.140	0.470	0.740	1.140	1.310

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- S1 — MANTLE, SKINLESS

LENGTH	NUM	11	MEAN	0.197	S. D.	0.050	LOW	0.127	HIGH	0.240					
WEIGHT	NUM	11	MEAN	0.072	S. D.	0.015	LOW	0.043	HIGH	0.083					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0010	0011
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0004	0000	0001	0000
MEAN	0.105	0.977	0.291	4.200	0.868	0.122	0.415	8.315	14.76	0.297	0.157	0.403	0.619	1.148	1.473
S. D.	0.134	0.516	0.086	2.207	0.295	0.084	0.634	5.138	2.57	0.084	0.033	0.211	0.360	0.451	2.118
LOW	0.025	0.140	0.160	1.362	0.480	0.030	0.110	3.190	11.44	0.130	0.115	0.150	0.195	0.500	0.440
HIGH	0.340	1.950	0.420	8.900	1.600	0.250	2.310	18.060	20.00	0.405	0.190	0.630	1.230	1.750	7.810

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- S4 — MANTLE, SKINLESS

LENGTH	NUM	2	MEAN	0.178	S. D.	0.029	LOW	0.157	HIGH	0.198					
WEIGHT	NUM	2	MEAN	0.129	S. D.	0.048	LOW	0.095	HIGH	0.163					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.000	0.500	0.095	6.788	0.690	0.050	0.095	4.445	13.44	0.230	0.310	0.000	0.225	1.115	0.535
S. D.	0.000	0.085	0.007	6.311	0.580	0.014	0.049	0.615	3.10	0.071	0.000	0.000	0.021	0.007	0.134
LOW	0.000	0.440	0.090	2.325	0.280	0.040	0.060	4.010	11.25	0.180	0.000	0.000	0.210	1.110	0.440
HIGH	0.000	0.560	0.100	11.250	1.100	0.060	0.130	4.880	15.63	0.280	0.310	0.000	0.240	1.120	0.630

SQUID, SHORTFINNED — ILLEX ILLECEBROSUS — 188014 — AREA- NORTH ATLANTIC — SITE- S7 — MANTLE, SKINLESS

LENGTH	NUM	5	MEAN	0.185	S. D.	0.015	LOW	0.163	HIGH	0.200					
WEIGHT	NUM	5	MEAN	0.134	S. D.	0.025	LOW	0.102	HIGH	0.163					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0001	0000
MEAN	0.060	0.683	0.289	6.230	0.592	0.062	0.160	4.896	14.19	0.304	0.000	0.190	0.231	0.973	0.643
S. D.	0.000	0.184	0.352	2.329	0.120	0.034	0.052	6.644	6.02	0.077	0.000	0.000	0.069	0.236	0.121
LOW	0.000	0.405	0.080	3.250	0.430	0.030	0.130	0.440	5.63	0.230	0.000	0.000	0.150	0.630	0.440
HIGH	0.060	0.880	0.915	9.450	0.730	0.120	0.250	16.410	22.53	0.410	0.000	0.190	0.310	1.130	0.750

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- NORTH ATLANTIC — SITE- H8 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0018	0019	0019	0019	0018	0018	0018	0018	0019	0019	0017	0019	0019
N DET.	0009	0000	0000	0001	0001	0000	0000	0000	0000	0000	0010	0008	0000	0001	0000
MEAN	0.048	1.348	3.195	2.927	0.251	0.743	0.756	160.552	833.83	0.843	0.333	0.621	5.486	1.157	0.720
S. D.	0.035	1.059	1.475	1.665	0.131	0.672	0.584	120.409	305.76	0.775	0.147	0.435	4.602	0.977	0.438
LOW	0.020	0.230	1.440	0.855	0.120	0.030	0.120	22.190	492.86	0.160	0.180	0.250	0.800	0.250	0.285
HIGH	0.120	3.635	5.680	6.920	0.570	1.805	2.173	336.935	1574.10	2.530	0.680	1.595	14.640	2.970	1.765

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- NORTH ATLANTIC — SITE- M8 — SHUCKED, SELECT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0001	0000	0001	0000	0000	0000	0000	0006	0004	0000	0001	0000
MEAN	0.040	0.266	0.500	2.153	0.413	0.089	0.139	9.660	313.34	0.307	0.140	0.438	1.199	0.470	0.579
S. D.	0.000	0.140	0.149	1.008	0.203	0.069	0.110	3.880	149.58	0.068	0.063	0.428	0.454	0.465	0.343
LOW	0.040	0.130	0.270	1.025	0.155	0.010	0.040	0.470	4.69	0.190	0.060	0.060	0.190	0.060	0.200
HIGH	0.040	0.560	0.680	3.766	0.675	0.245	0.375	14.060	437.50	0.430	0.190	1.220	1.780	1.560	1.170

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- NORTH ATLANTIC — SITE- M8 — SHUCKED, STANDARD

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0007	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0006	0000	0001	0000
MEAN	0.057	0.300	0.964	2.238	0.716	0.219	0.169	18.599	408.66	0.259	0.125	0.185	1.104	0.340	0.366
S. D.	0.038	0.109	0.169	0.839	0.295	0.168	0.168	5.778	250.55	0.057	0.123	0.087	0.230	0.221	0.192
LOW	0.030	0.190	0.795	0.650	0.140	0.030	0.050	14.500	14.56	0.170	0.060	0.090	0.840	0.060	0.130
HIGH	0.100	0.500	1.370	3.250	0.980	0.610	0.560	33.750	828.13	0.320	0.310	0.300	1.480	0.690	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- NORTH ATLANTIC — SITE- R3 — SHUCKED, SELECT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.015	S. D.	0.000	LOW	0.015	HIGH	0.015					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0009	0000	0000	0000	0000	0000	0001	0000	0000	0000	0008	0008	0000	0000	0000
MEAN	0.029	0.362	0.640	2.042	0.552	0.160	0.118	14.030	424.17	0.283	0.211	0.230	0.852	0.374	0.349
S. D.	0.019	0.157	0.155	0.841	0.327	0.122	0.093	5.300	205.98	0.043	0.135	0.138	0.211	0.224	0.138
LOW	0.020	0.130	0.330	0.700	0.270	0.010	0.010	0.985	42.19	0.190	0.060	0.060	0.575	0.060	0.060
HIGH	0.070	0.560	0.890	3.441	1.655	0.430	0.380	20.810	729.69	0.350	0.500	0.500	1.220	0.940	0.670

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- NORTH ATLANTIC — SITE- R3 — SHUCKED, STANDARD

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	7	MEAN	0.010	S. D.	0.000	LOW	0.010	HIGH	0.010					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0015	0016	0016	0015	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0016	0001	0000	0000	0000	0000	0004	0000	0000	0000	0009	0009	0000	0000	0000
MEAN	0.000	0.404	0.790	1.915	0.615	0.283	0.160	19.666	580.63	0.331	0.172	0.313	1.011	0.411	0.375
S. D.	0.000	0.139	0.103	0.749	0.303	0.215	0.198	4.245	120.76	0.052	0.089	0.157	0.218	0.236	0.190
LOW	0.000	0.190	0.600	0.950	0.280	0.020	0.060	12.200	314.08	0.250	0.060	0.090	0.490	0.130	0.060
HIGH	0.000	0.690	0.980	3.625	1.330	0.690	0.750	27.190	781.25	0.425	0.310	0.620	1.330	0.875	0.870

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- SOUTH ATLANTIC — SITE- B5 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0002	0000
MEAN	0.133	0.689	0.504	11.709	0.625	0.378	0.437	8.365	179.38	0.837	2.571	1.734	3.735	1.389	0.833
S. D.	0.154	0.290	0.151	8.275	0.219	0.088	0.201	2.421	48.45	0.374	1.230	1.123	1.448	0.705	0.511
LOW	0.020	0.363	0.315	4.740	0.240	0.255	0.120	4.895	98.13	0.385	1.500	0.820	2.145	0.650	0.450
HIGH	0.450	1.180	0.820	31.500	0.840	0.540	0.880	12.000	285.00	1.500	5.500	4.380	6.680	2.580	1.975

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- SOUTH ATLANTIC — SITE- C2 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0000
MEAN	0.063	1.006	0.983	3.649	0.618	0.592	0.490	24.227	439.65	0.813	0.482	0.950	6.713	0.987	0.643
S. D.	0.042	0.175	0.150	1.108	0.161	0.188	0.113	5.316	77.93	0.307	0.132	0.514	2.028	0.608	0.286
LOW	0.020	0.655	0.710	2.400	0.445	0.250	0.325	19.315	302.00	0.180	0.225	0.165	3.570	0.250	0.340
HIGH	0.130	1.203	1.210	5.770	0.890	0.895	0.625	36.900	571.43	1.280	0.600	1.800	9.500	1.900	1.300

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- SOUTH ATLANTIC — SITE- F3 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0003	0000	0002	0000
MEAN	0.030	0.404	0.404	3.579	0.663	0.242	0.205	11.533	266.39	0.282	0.355	0.536	2.868	0.526	0.400
S. D.	0.029	0.263	0.094	2.259	0.403	0.194	0.142	3.847	59.45	0.142	0.285	0.261	0.789	0.170	0.149
LOW	0.010	0.060	0.260	1.440	0.270	0.020	0.050	6.690	142.50	0.190	0.130	0.235	1.990	0.250	0.090
HIGH	0.080	0.950	0.570	9.250	1.725	0.695	0.515	17.145	388.44	0.640	0.870	0.965	4.285	0.690	0.560

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- GULF — SITE- B8 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0001	0000	0000	0000	0000	0001	0000	0000	0000	0000	0000	0000	0002	0000
MEAN	0.039	1.383	1.026	4.170	0.684	0.319	0.471	18.964	521.17	1.273	0.259	0.844	18.421	1.831	1.011
S. D.	0.021	0.540	0.365	2.568	0.217	0.174	0.181	6.077	265.32	0.636	0.127	0.699	10.370	1.128	0.636
LOW	0.010	0.557	0.376	0.500	0.250	0.165	0.282	10.330	212.86	0.610	0.070	0.335	9.320	0.360	0.500
HIGH	0.060	2.125	1.630	9.360	0.965	0.710	0.845	29.645	985.07	2.565	0.485	2.750	42.920	3.600	2.250

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- GULF — SITE- D6 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0001	0000
MEAN	0.038	0.485	0.436	4.809	1.038	0.240	0.189	13.137	304.02	0.362	0.332	1.587	2.642	0.678	0.456
S. D.	0.015	0.225	0.166	2.318	0.728	0.257	0.124	4.810	138.33	0.129	0.286	0.590	0.801	0.169	0.148
LOW	0.020	0.300	0.180	1.933	0.180	0.040	0.010	5.370	132.50	0.090	0.150	0.925	1.570	0.435	0.275
HIGH	0.055	1.130	0.730	8.483	2.155	0.960	0.470	22.100	645.63	0.540	1.120	2.795	3.945	0.910	0.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- GULF — SITE- E5 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020	0020
N DET.	0012	0000	0000	0000	0000	0000	0001	0000	0000	0001	0006	0003	0000	0001	0000
MEAN	0.028	0.706	0.362	3.183	0.398	0.275	0.278	5.808	205.59	0.492	0.259	0.438	1.771	1.019	0.543
S. D.	0.013	0.357	0.147	1.800	0.184	0.161	0.189	3.962	106.43	0.213	0.154	0.127	0.743	0.541	0.160
LOW	0.010	0.250	0.180	0.400	0.140	0.080	0.060	0.420	11.64	0.260	0.090	0.190	0.730	0.250	0.300
HIGH	0.055	1.590	0.800	7.750	1.000	0.560	0.810	19.070	455.00	1.015	0.625	0.750	3.090	2.645	0.840

OYSTER, EASTERN — CRASSOSTREA VIRGINICA — 189001 — AREA- GULF — SITE- E8 — SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0003	0000	0000	0001	0000	0000	0000	0000	0000	0000	0003	0000	0000	0002	0000
MEAN	0.036	0.436	0.511	2.899	0.653	0.375	0.245	6.559	61.69	0.451	0.115	0.515	4.531	0.751	0.453
S. D.	0.013	0.205	0.172	1.487	0.741	0.106	0.080	2.418	30.93	0.120	0.064	0.311	1.283	0.291	0.217
LOW	0.020	0.030	0.190	1.000	0.150	0.200	0.140	2.430	3.90	0.230	0.060	0.060	2.690	0.180	0.080
HIGH	0.050	0.750	0.860	4.750	2.650	0.500	0.360	9.410	107.14	0.613	0.226	0.910	6.175	1.130	0.775

OYSTER, PAC. (GIANT) — CRASSOSTREA GIGAS — 189002 — AREA- CALIFORNIA — SITE- B5 — SHUCKED

LENGTH	NUM	10	MEAN	0.150	S. D.	0.000	LOW	0.150	HIGH	0.150					
WEIGHT	NUM	10	MEAN	0.262	S. D.	0.000	LOW	0.262	HIGH	0.262					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0020	0020	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020
N DET.	0012	0001	0001	0000	0000	0000	0001	0000	0000	0001	0008	0003	0000	0004	0000
MEAN	0.111	0.702	0.719	4.458	0.798	0.297	0.414	18.559	119.71	0.501	0.253	0.393	10.150	1.079	0.805
S. D.	0.101	0.308	0.091	2.267	0.660	0.272	0.306	5.278	31.97	0.242	0.179	0.252	3.698	0.466	0.257
LOW	0.010	0.190	0.545	1.325	0.280	0.020	0.110	3.060	48.12	0.260	0.060	0.060	4.380	0.440	0.450
HIGH	0.260	1.370	0.910	8.750	3.390	0.895	1.380	25.630	175.00	1.430	0.720	1.130	17.040	2.050	1.500

OYSTER, PAC. (GIANT) — CRASSOSTREA GIGAS — 189002 — AREA- CALIFORNIA — SITE- F1 — SHUCKED

LENGTH	NUM	10	MEAN	0.106	S. D.	0.000	LOW	0.106	HIGH	0.106					
WEIGHT	NUM	10	MEAN	0.138	S. D.	0.000	LOW	0.138	HIGH	0.138					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0002	0000	0000	0000	0001	0001	0000	0000	0002	0006	0004	0000	0002	0000
MEAN	0.090	0.613	0.640	4.071	1.006	0.101	0.333	2.580	105.04	0.423	0.293	0.438	6.212	1.151	0.720
S. D.	0.014	0.274	0.116	1.995	0.612	0.125	0.152	0.598	64.36	0.340	0.301	0.341	2.354	0.546	0.320
LOW	0.080	0.250	0.460	0.875	0.440	0.030	0.140	1.790	50.48	0.110	0.050	0.180	2.810	0.500	0.450
HIGH	0.100	1.130	0.860	6.535	2.610	0.430	0.650	3.750	274.38	1.110	0.720	1.090	10.000	2.280	1.310

OYSTER, PAC. (GIANT) — CRASSOSTREA GIGAS — 189002 — AREA- PACIFIC NORTHWEST — SITE- H4 — SHUCKED, SMALL

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0001	0000	0000	0000	0001	0002	0004	0000	0003	0000
MEAN	0.050	0.701	1.584	3.379	0.816	0.435	0.252	14.372	461.30	0.398	0.261	0.304	7.233	0.966	0.766
S. D.	0.053	0.216	0.446	1.715	0.388	0.156	0.129	2.554	302.47	0.188	0.184	0.160	0.951	0.247	0.276
LOW	0.010	0.355	0.735	1.200	0.340	0.180	0.070	10.250	11.82	0.190	0.100	0.120	5.640	0.535	0.500
HIGH	0.140	1.070	2.290	5.940	1.575	0.745	0.440	18.610	893.75	0.710	0.655	0.535	8.395	1.250	1.375

OYSTER, PAC. (GIANT) — CRASSOSTREA GIGAS — 189002 — AREA- PACIFIC NORTHWEST — SITE- M6 — SHUCKED, MEDIUM

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0001	0000	0000	0000	0000	0000	0000	0000	0000	0004	0002	0000	0001	0000
MEAN	0.060	0.516	1.065	2.762	0.678	0.155	0.152	13.516	112.95	0.269	0.210	0.354	4.943	0.556	0.457
S. D.	0.085	0.292	0.135	1.107	0.824	0.144	0.087	3.234	48.21	0.189	0.269	0.190	1.143	0.198	0.158
LOW	0.010	0.250	0.765	0.400	0.110	0.060	0.065	6.755	54.10	0.130	0.060	0.160	2.815	0.250	0.235
HIGH	0.210	1.060	1.235	4.025	2.960	0.430	0.360	17.810	175.00	0.710	0.750	0.750	6.430	0.970	0.750

OYSTER, PAC. (GIANT) — CRASSOSTREA GIGAS — 189002 — AREA- PACIFIC NORTHWEST — SITE- M9 — SHUCKED, MEDIUM

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0006	0001	0000	0001	0000	0000	0001	0000	0000	0000	0006	0003	0000	0002	0000
MEAN	0.028	0.444	0.703	3.412	0.800	0.177	0.254	12.206	77.44	0.294	0.325	0.389	9.235	0.841	0.618
S. D.	0.021	0.223	0.161	2.796	0.274	0.160	0.144	2.251	22.46	0.114	0.530	0.148	3.817	0.525	0.263
LOW	0.010	0.230	0.360	1.125	0.270	0.010	0.080	8.130	43.30	0.150	0.050	0.235	0.200	0.060	0.310
HIGH	0.050	0.880	0.970	10.150	1.170	0.460	0.500	15.870	112.41	0.455	1.120	0.665	13.210	1.700	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

OYSTER, PAC. (GIANT) CRASSOSTREA GIGAS 189002 AREA- PACIFIC NORTHWEST SITE- N1 SHUCKED

LENGTH NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0001	0000	0000	0000	0000	0000	0000	0000	0001	0003	0001	0000	0003	0000
MEAN	0.038	0.669	2.812	5.174	0.541	0.524	0.295	21.822	228.60	0.365	0.319	0.574	6.715	0.711	1.197
S. D.	0.036	0.212	0.528	2.432	0.144	0.264	0.130	4.444	54.30	0.100	0.286	0.376	1.577	0.359	0.679
LOW	0.020	0.396	2.090	1.950	0.355	0.070	0.110	15.610	180.35	0.250	0.050	0.275	4.675	0.320	0.550
HIGH	0.110	1.075	3.885	9.000	0.845	0.820	0.500	27.815	340.36	0.575	0.730	1.500	9.070	1.250	2.500

SCALLOP, SEA (SMOOTH) PLACOPECTEN MAGELLANICUS 190013 AREA- NORTH ATLANTIC SITE- N7 ADDUCTOR MUSCLE

LENGTH NUM 1 MEAN 0.080 S. D. 0.000 LOW 0.080 HIGH 0.080
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.050	0.560	9.750	3.300	0.980	0.350	0.200	1.130	17.19	0.390	15.630	1.250	0.880	0.380	0.590
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.050	0.560	9.750	3.300	0.980	0.350	0.200	1.130	17.19	0.390	15.630	1.250	0.880	0.380	0.590

SCALLOP, SEA (SMOOTH) PLACOPECTEN MAGELLANICUS 190013 AREA- NORTH ATLANTIC SITE- R3 ADDUCTOR MUSCLE

LENGTH NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0009	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0007	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0010	0000	0000	0000
MEAN	0.047	0.412	0.116	3.796	0.238	0.032	0.398	0.161	12.80	0.212	0.203	0.000	0.216	0.613	0.481
S. D.	0.025	0.211	0.022	1.613	0.150	0.010	0.414	0.085	2.32	0.043	0.062	0.000	0.045	0.208	0.112
LOW	0.020	0.190	0.080	2.000	0.050	0.010	0.110	0.060	8.69	0.150	0.120	0.000	0.140	0.310	0.345
HIGH	0.070	0.880	0.140	6.650	0.510	0.045	1.125	0.330	15.62	0.290	0.250	0.000	0.270	1.000	0.630

SCALLOP, ATL. BAY AEQUIPECTEN IRRADIANS 190014 AREA- SOUTH ATLANTIC SITE- C1 ADDUCTOR MUSCLE

LENGTH NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0009	0000	0003	0000
MEAN	0.091	0.380	0.133	2.577	0.291	0.082	0.393	0.380	14.47	0.297	0.264	0.310	4.003	0.677	0.711
S. D.	0.071	0.171	0.029	1.289	0.180	0.093	0.376	0.130	2.95	0.121	0.093	0.000	1.714	0.357	0.212
LOW	0.030	0.130	0.110	0.900	0.050	0.030	0.110	0.195	8.44	0.120	0.130	0.000	0.930	0.380	0.440
HIGH	0.220	0.630	0.190	4.916	0.660	0.345	1.190	0.560	18.75	0.500	0.440	0.310	6.380	1.440	1.130

SCALLOP, ATL. BAY AEQUIPECTEN IRRADIANS 190014 AREA- SOUTH ATLANTIC SITE- C2 ADDUCTOR MUSCLE

LENGTH NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0006	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0003	0000	0000	0000
MEAN	0.034	0.574	0.112	3.067	0.337	0.031	0.178	0.234	9.70	0.255	0.118	0.185	1.608	0.540	0.452
S. D.	0.019	0.365	0.063	1.736	0.190	0.016	0.093	0.076	2.75	0.047	0.047	0.093	2.134	0.213	0.171
LOW	0.020	0.250	0.060	1.100	0.050	0.010	0.040	0.090	5.40	0.170	0.060	0.090	0.310	0.190	0.220
HIGH	0.060	1.440	0.280	5.690	0.700	0.060	0.310	0.360	15.81	0.320	0.190	0.345	7.595	0.855	0.750

SCALLOP, CALICO AEQUIPECTEN GIBBUS 190016 AREA- SOUTH ATLANTIC SITE- C2 SHUCKED

LENGTH NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0006	0000	0000	0000	0001	0001	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.073	1.024	1.389	8.920	0.395	0.114	0.758	5.460	12.12	1.347	0.403	0.884	3.499	1.456	0.868
S. D.	0.060	0.275	0.176	5.467	0.124	0.043	0.235	2.074	2.54	0.555	0.129	0.238	0.610	0.689	0.279
LOW	0.030	0.710	1.156	3.360	0.210	0.070	0.360	3.286	7.14	0.645	0.200	0.590	2.290	0.360	0.500
HIGH	0.160	1.350	1.680	19.500	0.575	0.215	1.140	9.640	15.36	2.500	0.626	1.366	4.436	2.500	1.310

SCALLOP, CALICO AEQUIPECTEN GIBBUS 190016 AREA- SOUTH ATLANTIC SITE- C2 ADDUCTOR MUSCLE

LENGTH NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000
WEIGHT NUM 0 MEAN 0.000 S. D. 0.000 LOW 0.000 HIGH 0.000

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0003	0000	0000	0000	0000	0000	0007	0000	0000	0000
MEAN	0.090	0.529	1.631	2.767	0.448	0.022	0.106	0.272	10.97	0.186	1.140	0.273	0.504	0.526	0.448
S. D.	0.057	0.232	0.211	1.148	0.074	0.007	0.053	0.071	0.76	0.029	0.209	0.144	0.076	0.201	0.094
LOW	0.050	0.250	1.180	1.710	0.345	0.010	0.060	0.190	9.50	0.135	0.765	0.190	0.405	0.280	0.330
HIGH	0.130	1.000	1.910	5.810	0.600	0.030	0.195	0.455	12.03	0.220	1.425	0.440	0.620	0.940	0.595

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES: BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

SCALLOP, CALICO — AEQUIPECTEN GIBBUS — 190016 — AREA- SOUTH ATLANTIC — SITE- J1 — ADDUCTOR MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0009	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0005	0001	0000	0000	0000	0003	0001	0000	0000	0001	0007	0005	0000	0003	0000
MEAN	0.076	0.452	3.278	7.368	0.488	0.091	0.303	0.230	11.85	0.257	0.333	0.506	0.141	0.837	0.588
S. D.	0.081	0.256	0.304	2.002	0.170	0.084	0.185	0.153	1.42	0.148	0.092	0.336	0.078	0.187	0.163
LOW	0.030	0.190	2.975	3.950	0.240	0.020	0.080	0.070	9.63	0.100	0.280	0.090	0.030	0.500	0.400
HIGH	0.220	0.880	3.860	10.600	0.730	0.260	0.630	0.620	14.63	0.570	0.440	1.000	0.290	1.040	0.810

SCALLOP, PINK — CHLAMYS HERICIUS — 190028 — AREA- ALASKA — SITE- L4 — ADDUCTOR MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0005	0000
MEAN	0.020	0.286	0.094	2.350	0.299	0.038	0.314	0.218	8.27	0.250	0.000	0.000	0.114	0.000	0.390
S. D.	0.000	0.036	0.011	1.999	0.057	0.004	0.132	0.008	0.05	0.025	0.000	0.000	0.017	0.000	0.054
LOW	0.000	0.240	0.080	0.250	0.215	0.030	0.190	0.210	8.19	0.210	0.000	0.000	0.090	0.000	0.310
HIGH	0.020	0.330	0.110	5.000	0.355	0.040	0.500	0.230	8.31	0.270	0.000	0.000	0.130	0.000	0.440

CLAM, HARD (QUAHOG) — MERCENARIA MERCENARIA — 191001 — AREA- NORTH ATLANTIC — SITE- H8 — SHUCKED, MIXED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0020	0020	0019	0020	0020	0020	0020	0019	0019	0020	0020	0018
N DET.	0005	0001	0000	0000	0000	0000	0000	0000	0000	0000	0003	0001	0000	0004	0000
MEAN	0.065	1.236	0.458	6.645	0.451	0.237	0.825	5.168	27.41	1.049	0.275	0.517	17.111	1.099	0.751
S. D.	0.065	0.354	0.126	2.132	0.157	0.091	0.306	1.467	9.03	0.306	0.117	0.247	7.475	0.323	0.193
LOW	0.020	0.555	0.190	3.325	0.200	0.070	0.080	3.220	18.15	0.580	0.150	0.150	0.180	0.250	0.490
HIGH	0.260	1.940	0.680	11.250	0.800	0.430	1.655	8.460	53.21	1.695	0.630	1.130	30.000	1.440	1.090

CLAM, HARD (QUAHOG) — MERCENARIA MERCENARIA — 191001 — AREA- NORTH ATLANTIC — SITE- N1 — SHUCKED, MIXED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0005	0005	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0001	0000
MEAN	0.052	1.275	0.567	5.884	1.286	0.559	0.543	5.537	48.60	1.507	0.434	0.213	50.043	1.113	0.663
S. D.	0.021	0.509	0.133	1.571	0.339	0.261	0.318	0.559	10.84	0.545	0.464	0.109	20.696	0.282	0.219
LOW	0.040	0.680	0.375	4.030	0.775	0.280	0.312	4.610	33.20	0.785	0.140	0.120	28.240	0.710	0.450
HIGH	0.095	2.148	0.715	8.125	1.685	0.860	1.120	6.090	58.93	2.213	1.310	0.350	79.105	1.440	1.060

CLAM, HARD (QUAHOG) — MERCENARIA MERCENARIA — 191001 — AREA- NORTH ATLANTIC — SITE- R3 — SHUCKED, LITTLENEC

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	16	MEAN	0.052	S. D.	0.016	LOW	0.034	HIGH	0.084					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0016	0016	0016	0016	0015	0016	0016	0016	0016	0016	0016	0016	0016	0016	0016
N DET.	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0000	0000	0000
MEAN	0.038	0.562	0.175	2.097	0.494	0.128	0.188	1.446	10.65	0.930	0.384	0.352	1.629	0.979	0.692
S. D.	0.036	0.214	0.034	0.584	0.203	0.037	0.104	0.340	4.11	0.151	0.124	0.165	0.422	0.310	0.166
LOW	0.020	0.210	0.110	1.300	0.120	0.080	0.060	0.870	0.19	0.570	0.160	0.090	1.060	0.410	0.440
HIGH	0.130	0.940	0.240	3.325	0.870	0.220	0.500	2.000	16.31	1.220	0.620	0.620	2.560	1.500	1.095

CLAM, HARD (QUAHOG) — MERCENARIA MERCENARIA — 191001 — AREA- NORTH ATLANTIC — SITE- R3 — SHUCKED, CHERRYSTO

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	30	MEAN	0.160	S. D.	0.021	LOW	0.126	HIGH	0.206					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0030	0030	0030	0030	0029	0030	0030	0030	0030	0029	0029	0030	0030	0030	0030
N DET.	0013	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0013	0000	0003	0000
MEAN	0.037	0.455	0.181	2.497	0.350	0.148	0.181	1.552	12.15	1.039	0.326	0.356	1.109	0.816	0.562
S. D.	0.024	0.151	0.074	1.013	0.200	0.062	0.114	0.784	2.95	0.265	0.155	0.196	0.515	0.265	0.232
LOW	0.020	0.190	0.040	0.800	0.020	0.030	0.060	0.330	5.25	0.270	0.060	0.075	0.400	0.160	0.220
HIGH	0.100	0.830	0.410	5.300	0.920	0.300	0.500	4.040	18.69	1.390	0.765	0.765	2.380	1.440	1.310

CLAM, HARD (QUAHOG) — MERCENARIA MERCENARIA — 191001 — AREA- NORTH ATLANTIC — SITE- R3 — SHUCKED, CHOWDER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	27	MEAN	0.254	S. D.	0.041	LOW	0.202	HIGH	0.378					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0049	0049	0049	0049	0047	0049	0049	0049	0048	0049	0048	0049	0048	0049	0049
N DET.	0014	0000	0000	0000	0000	0000	0002	0000	0000	0000	0009	0009	0000	0017	0000
MEAN	0.050	0.638	0.239	3.340	0.476	0.254	0.245	1.429	10.72	1.062	0.266	0.387	1.682	0.726	0.541
S. D.	0.040	0.248	0.120	1.499	0.245	0.119	0.142	0.555	3.42	0.337	0.128	0.180	1.219	0.251	0.167
LOW	0.020	0.190	0.090	0.900	0.060	0.085	0.060	0.475	3.50	0.190	0.060	0.060	0.100	0.130	0.120
HIGH	0.200	1.285	0.745	7.633	1.030	0.540	0.810	3.440	26.56	1.780	0.530	0.940	5.300	1.310	0.880

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CLAM, HARD (QUAHOG) MERCENARIA MERCENARIA 191001 AREA- SOUTH ATLANTIC SITE- C2 SHUCKED, CHERRYSTO

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.141	0.799	0.199	3.900	0.299	0.204	0.218	0.733	10.66	0.889	0.383	0.399	0.735	1.321	0.686
S. D.	0.103	0.189	0.030	3.137	0.161	0.052	0.044	0.266	2.37	0.296	0.086	0.110	0.292	0.402	0.220
LOW	0.030	0.560	0.140	0.600	0.090	0.070	0.190	0.040	6.68	0.180	0.250	0.190	0.130	0.750	0.190
HIGH	0.240	1.060	0.260	10.650	0.560	0.260	0.320	1.020	14.15	1.300	0.535	0.560	1.310	1.880	1.000

CLAM, HARD (QUAHOG) MERCENARIA MERCENARIA 191001 AREA- SOUTH ATLANTIC SITE- C2 SHUCKED, CHOWDER

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0009	0010	0010	0010	0009
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.026	0.807	0.288	6.385	0.762	0.378	0.222	2.054	9.51	0.614	0.431	0.463	2.448	1.068	0.769
S. D.	0.015	0.222	0.089	2.440	0.116	0.173	0.103	0.312	1.07	0.140	0.132	0.157	1.135	0.318	0.190
LOW	0.020	0.500	0.220	3.072	0.610	0.130	0.070	1.500	8.40	0.390	0.280	0.160	0.940	0.565	0.500
HIGH	0.060	1.060	0.520	11.500	0.945	0.730	0.370	2.590	12.03	0.800	0.705	0.660	5.190	1.810	1.130

CLAM, BUTTER SAXIDOMUS GIGANTEA 191003 AREA- PACIFIC NORTHWEST SITE- H7 SHUCKED, LARGE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0009	0009	0009	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0001	0000	0000	0000	0000	0000	0000	0000	0002	0000	0001	0000	0001	0000
MEAN	0.100	0.546	0.198	8.270	0.513	0.214	0.569	1.858	14.42	0.685	0.299	0.452	1.361	1.224	0.970
S. D.	0.127	0.257	0.083	3.456	0.183	0.112	0.194	0.505	4.29	0.196	0.134	0.385	0.423	0.404	0.469
LOW	0.010	0.120	0.070	2.495	0.300	0.070	0.324	1.214	8.36	0.430	0.120	0.125	0.865	0.630	0.595
HIGH	0.190	1.032	0.325	13.110	0.843	0.480	0.910	3.030	24.15	1.006	0.630	1.130	2.190	2.000	2.250

CLAM, BUTTER SAXIDOMUS GIGANTEA 191003 AREA- PACIFIC NORTHWEST SITE- I7 SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0003
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0001	0000	0000	0000
MEAN	0.020	0.550	0.244	7.228	0.448	0.219	0.513	1.735	9.39	0.639	0.140	0.377	2.039	1.021	0.670
S. D.	0.000	0.246	0.100	4.035	0.096	0.029	0.327	0.464	1.23	0.201	0.000	0.329	0.715	0.521	0.020
LOW	0.000	0.210	0.115	4.800	0.350	0.180	0.300	1.290	7.86	0.355	0.000	0.130	1.640	0.303	0.650
HIGH	0.020	0.780	0.360	13.250	0.580	0.250	1.000	2.360	10.62	0.790	0.140	0.750	3.110	1.430	0.690

CLAM, BUTTER SAXIDOMUS GIGANTEA 191003 AREA- PACIFIC NORTHWEST SITE- N1 SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0001	0000
MEAN	0.036	0.735	0.178	5.004	0.521	0.783	0.521	2.019	12.84	0.775	0.130	0.268	2.337	1.160	0.613
S. D.	0.028	0.580	0.064	2.524	0.180	0.233	0.124	0.266	2.27	0.247	0.069	0.100	0.402	0.746	0.266
LOW	0.010	0.225	0.090	1.670	0.370	0.465	0.293	1.695	10.02	0.485	0.050	0.150	1.770	0.190	0.315
HIGH	0.080	1.853	0.270	7.796	0.780	1.035	0.640	2.355	15.72	1.110	0.220	0.400	2.800	2.130	1.000

CLAM, BUTTER SAXIDOMUS GIGANTEA 191003 AREA- PACIFIC NORTHWEST SITE- R2 SHUCKED, EX. LARGE

LENGTH	NUM	9	MEAN	0.089	S. D.	0.000	LOW	0.089	HIGH	0.089					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0008	0009	0009	0009	0009	0009	0009	0009
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0000	0000	0002	0000
MEAN	0.033	0.773	0.249	8.795	0.493	0.273	0.639	1.806	11.11	0.998	0.193	0.511	1.547	0.849	0.793
S. D.	0.019	0.214	0.109	5.371	0.163	0.091	0.224	0.348	2.08	0.390	0.035	0.232	0.483	0.407	0.370
LOW	0.010	0.450	0.110	3.432	0.200	0.175	0.360	1.070	7.57	0.410	0.150	0.040	0.750	0.360	0.450
HIGH	0.055	1.125	0.445	18.840	0.740	0.430	1.107	2.210	14.73	1.500	0.255	0.815	2.250	1.630	1.475

CLAM, PAC. LITTLENECK PROTOTHACA STAMINEA 191008 AREA- ALASKA SITE- H7 SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.000	0.250	0.160	4.050	0.450	0.110	0.130	3.750	5.38	0.710	0.160	0.130	0.890	0.910	1.000
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.250	0.160	4.050	0.450	0.110	0.130	3.750	5.38	0.710	0.160	0.130	0.890	0.910	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SHRIMP, ROYAL RED — HYMENOPANAES ROBUSTUS — 192003 — AREA- SOUTH ATLANTIC — SITE- F9 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.025	S. D.	0.005	LOW	0.018	HIGH	0.030					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012	0012
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0000	0000
MEAN	0.074	0.660	0.118	48.340	0.755	0.070	0.193	3.069	12.06	0.346	0.163	0.293	0.362	0.965	0.868
S. D.	0.037	0.153	0.018	26.279	0.198	0.018	0.054	0.924	2.06	0.086	0.043	0.139	0.081	0.198	0.179
LOW	0.030	0.440	0.080	10.500	0.500	0.040	0.120	1.450	9.00	0.190	0.090	0.130	0.240	0.630	0.530
HIGH	0.150	0.940	0.140	92.700	1.190	0.110	0.310	4.690	15.13	0.500	0.190	0.440	0.490	1.345	1.250

SHRIMP, WHITE — PANAEUS SETIFERUS — 192004 — AREA- SOUTH ATLANTIC — SITE- B8 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0003	0002	0000	0000	0003	0002	0000	0000	0004	0007	0007	0000	0005	0000
MEAN	0.096	0.751	0.066	5.756	0.595	0.095	0.279	2.165	11.07	0.345	0.103	0.487	0.350	1.061	0.722
S. D.	0.107	0.361	0.030	2.455	0.248	0.083	0.168	0.924	4.07	0.156	0.067	0.248	0.151	0.466	0.313
LOW	0.020	0.250	0.020	2.500	0.280	0.030	0.140	0.430	5.00	0.125	0.060	0.200	0.040	0.310	0.390
HIGH	0.310	1.250	0.110	9.000	1.030	0.220	0.630	3.960	19.64	0.605	0.180	0.630	0.530	1.595	1.250

SHRIMP, WHITE — PANAEUS SETIFERUS — 192004 — AREA- SOUTH ATLANTIC — SITE- F3 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0019	0020	0020	0020	0019	0020	0020	0020	0020	0020	0020	0020
N DET.	0002	0000	0005	0000	0001	0006	0000	0000	0000	0001	0010	0010	0000	0004	0000
MEAN	0.063	0.570	0.086	6.339	0.708	0.057	0.219	1.991	10.67	0.318	0.177	0.584	0.710	0.902	0.640
S. D.	0.038	0.365	0.078	2.716	0.347	0.048	0.127	0.677	2.69	0.157	0.080	0.429	0.480	0.447	0.210
LOW	0.020	0.060	0.040	3.440	0.240	0.020	0.030	1.040	4.31	0.070	0.100	0.110	0.180	0.060	0.350
HIGH	0.140	1.630	0.340	12.625	1.370	0.210	0.500	2.870	14.50	0.640	0.370	1.250	1.855	1.500	1.060

SHRIMP, WHITE — PANAEUS SETIFERUS — 192004 — AREA- GULF — SITE- D5 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	0.021	S. D.	0.001	LOW	0.020	HIGH	0.022					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0000	0002	0000	0000	0002	0000	0000	0000	0000	0003	0005	0000	0002	0000
MEAN	0.029	0.608	0.070	2.569	0.589	0.048	0.218	1.753	10.91	0.228	0.414	0.184	1.070	0.985	0.636
S. D.	0.016	0.348	0.042	1.791	0.183	0.011	0.147	0.287	3.91	0.070	0.318	0.082	0.271	0.127	0.169
LOW	0.015	0.305	0.040	0.700	0.300	0.030	0.040	1.430	6.12	0.140	0.060	0.105	0.760	0.750	0.450
HIGH	0.060	1.250	0.170	6.900	0.870	0.060	0.480	2.360	20.62	0.360	0.880	0.310	1.570	1.100	0.880

SHRIMP, WHITE — PANAEUS SETIFERUS — 192004 — AREA- GULF — SITE- D6 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.026	S. D.	0.001	LOW	0.023	HIGH	0.028					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0009	0010	0008
N DET.	0008	0000	0000	0000	0000	0000	0001	0000	0000	0000	0009	0010	0000	0000	0000
MEAN	0.060	0.718	0.095	2.238	0.523	0.030	0.136	2.692	12.47	0.215	0.250	0.000	0.370	0.849	0.537
S. D.	0.057	0.510	0.042	1.513	0.161	0.009	0.038	0.207	1.93	0.063	0.000	0.000	0.067	0.235	0.113
LOW	0.020	0.190	0.050	0.450	0.250	0.010	0.060	2.280	9.63	0.100	0.000	0.000	0.260	0.380	0.310
HIGH	0.100	1.880	0.180	4.500	0.780	0.040	0.190	2.940	16.31	0.300	0.250	0.000	0.480	1.130	0.640

SHRIMP, WHITE — PANAEUS SETIFERUS — 192004 — AREA- GULF — SITE- E8 — TAIL, PEELED

LENGTH	NUM	10	MEAN	0.043	S. D.	0.000	LOW	0.043	HIGH	0.043					
WEIGHT	NUM	10	MEAN	0.008	S. D.	0.001	LOW	0.007	HIGH	0.010					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0001	0000
MEAN	0.040	0.526	0.075	2.717	0.625	0.047	0.229	1.902	9.34	0.193	0.220	0.250	0.547	0.603	0.523
S. D.	0.000	0.150	0.010	1.199	0.240	0.012	0.109	0.163	2.16	0.041	0.042	0.184	0.129	0.154	0.200
LOW	0.040	0.280	0.060	1.293	0.150	0.020	0.130	1.630	3.44	0.125	0.190	0.120	0.310	0.380	0.265
HIGH	0.040	0.810	0.090	4.500	0.940	0.060	0.440	2.230	10.63	0.255	0.250	0.380	0.720	0.810	0.910

SHRIMP, WHITE — PANAEUS SETIFERUS — 192004 — AREA- GULF — SITE- H1 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	7	MEAN	0.020	S. D.	0.012	LOW	0.011	HIGH	0.047					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0015	0016	0017	0017	0017	0016	0017	0017	0016	0016	0017	0017	0015
N DET.	0003	0001	0004	0000	0000	0005	0001	0000	0000	0002	0012	0008	0000	0004	0000
MEAN	0.085	0.669	0.090	5.519	0.688	0.068	0.258	3.765	13.18	0.304	0.365	0.343	0.517	1.210	0.645
S. D.	0.086	0.222	0.037	2.732	0.165	0.043	0.131	1.112	3.29	0.152	0.309	0.196	0.149	0.622	0.173
LOW	0.020	0.360	0.025	0.600	0.340	0.030	0.030	1.990	8.36	0.120	0.020	0.190	0.305	0.460	0.385
HIGH	0.330	1.130	0.140	11.900	0.870	0.180	0.523	5.720	21.43	0.610	0.750	0.680	0.940	2.380	1.030

LOCATION LEVEL 5

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

SHRIMP, BROWN — PENAEUS AZTECUS — 192005 AREA- GULF — SITE- D5 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.017	S. D.	0.001	LOW	0.016	HIGH	0.018					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0001	0001	0000	0001	0000	0000	0000	0000	0006	0006	0000	0002	0000
MEAN	0.077	0.574	0.061	3.308	0.592	0.048	0.229	2.348	11.52	0.347	0.280	0.210	1.303	1.071	0.570
S. D.	0.107	0.260	0.018	1.636	0.115	0.013	0.220	0.301	1.42	0.169	0.194	0.131	0.135	0.210	0.130
LOW	0.010	0.317	0.040	1.490	0.430	0.030	0.076	1.840	8.75	0.140	0.060	0.100	1.065	0.880	0.380
HIGH	0.290	1.060	0.085	6.260	0.730	0.070	0.690	2.690	13.21	0.610	0.500	0.360	1.460	1.400	0.815

SHRIMP, BROWN — PENAEUS AZTECUS — 192005 AREA- GULF — SITE- D6 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	9	MEAN	0.013	S. D.	0.000	LOW	0.012	HIGH	0.014					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0009	0010	0010	0009
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0006	0000	0001	0000
MEAN	0.085	0.723	0.094	2.501	0.521	0.034	0.190	2.475	11.08	0.235	0.000	0.235	0.733	0.829	0.573
S. D.	0.092	0.546	0.027	1.056	0.195	0.006	0.060	0.673	2.35	0.070	0.000	0.065	0.192	0.280	0.142
LOW	0.020	0.250	0.060	1.250	0.230	0.030	0.130	1.540	6.50	0.160	0.000	0.190	0.480	0.500	0.310
HIGH	0.150	2.060	0.135	4.000	0.930	0.045	0.310	3.940	14.94	0.380	0.000	0.310	0.980	1.130	0.750

SHRIMP, BROWN — PENAEUS AZTECUS — 192005 AREA- GULF — SITE- E5 TAIL, PEELED

LENGTH	NUM	13	MEAN	0.130	S. D.	0.009	LOW	0.111	HIGH	0.142					
WEIGHT	NUM	12	MEAN	0.020	S. D.	0.003	LOW	0.015	HIGH	0.025					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0013	0013	0013	0011	0011	0013	0013	0013	0012	0012	0013	0013	0013	0013	0012
N DET.	0007	0000	0003	0001	0000	0005	0001	0000	0000	0003	0009	0008	0000	0004	0000
MEAN	0.031	0.584	0.088	5.272	0.674	0.044	0.262	4.214	11.50	0.252	0.434	0.339	0.554	0.742	0.705
S. D.	0.012	0.248	0.039	2.469	0.212	0.023	0.156	0.882	3.01	0.114	0.298	0.135	0.268	0.454	0.373
LOW	0.020	0.250	0.040	1.300	0.280	0.020	0.060	2.865	6.68	0.080	0.235	0.180	0.200	0.060	0.250
HIGH	0.050	1.100	0.160	10.000	1.010	0.090	0.630	5.710	16.33	0.500	0.870	0.500	1.210	1.630	1.750

SHRIMP, BROWN — PENAEUS AZTECUS — 192005 AREA- GULF — SITE- H1 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	0.015	S. D.	0.001	LOW	0.014	HIGH	0.016					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.040	0.495	0.067	6.597	0.755	0.038	0.337	2.638	9.09	0.237	0.190	0.310	0.550	0.897	0.598
S. D.	0.014	0.113	0.035	3.198	0.246	0.016	0.261	0.752	1.46	0.093	0.000	0.000	0.164	0.377	0.157
LOW	0.030	0.420	0.030	2.950	0.515	0.020	0.130	2.005	7.65	0.130	0.000	0.000	0.370	0.500	0.505
HIGH	0.050	0.625	0.100	8.925	1.006	0.050	0.630	3.470	10.56	0.300	0.190	0.310	0.690	1.250	0.780

SHRIMP, BROWN — PENAEUS AZTECUS — 192005 AREA- GULF — SITE- H2 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	7	MEAN	0.026	S. D.	0.001	LOW	0.024	HIGH	0.028					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0017	0017	0017	0016	0016	0017	0017	0017	0016	0017	0017	0017	0017	0017	0016
N DET.	0003	0001	0003	0000	0000	0003	0003	0000	0000	0001	0011	0006	0000	0007	0000
MEAN	0.113	0.662	0.080	10.569	0.589	0.054	0.234	3.760	11.76	0.361	0.138	0.361	0.410	0.947	0.611
S. D.	0.046	0.336	0.022	6.436	0.175	0.038	0.129	0.787	2.93	0.240	0.048	0.135	0.185	0.423	0.155
LOW	0.050	0.250	0.050	1.300	0.320	0.020	0.050	2.310	4.93	0.150	0.060	0.220	0.180	0.320	0.380
HIGH	0.210	1.285	0.140	32.500	0.870	0.180	0.410	5.290	15.71	1.110	0.190	0.600	0.735	1.630	0.925

SHRIMP, OCEAN — PANDALUS JORDANI — 192007 AREA- PACIFIC NORTHWEST — SITE- R5 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0008	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0008
N DET.	0006	0000	0000	0000	0000	0001	0000	0000	0000	0000	0007	0008	0000	0000	0000
MEAN	0.136	0.658	0.157	3.835	0.311	0.118	0.286	1.979	11.59	0.260	0.167	0.185	0.251	0.861	0.773
S. D.	0.088	0.269	0.075	1.889	0.180	0.140	0.253	0.499	1.96	0.079	0.032	0.007	0.148	0.203	0.314
LOW	0.020	0.250	0.110	1.716	0.070	0.030	0.095	1.245	9.21	0.170	0.130	0.180	0.120	0.590	0.425
HIGH	0.210	1.090	0.330	7.225	0.600	0.480	0.810	2.860	15.00	0.420	0.190	0.190	0.630	1.310	1.410

SHRIMP, PINK — PENAEUS DUORARUM — 192010 AREA- GULF — SITE- E5 TAIL, PEELED

LENGTH	NUM	20	MEAN	0.097	S. D.	0.008	LOW	0.085	HIGH	0.125					
WEIGHT	NUM	20	MEAN	0.007	S. D.	0.004	LOW	0.003	HIGH	0.017					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0020	0019	0020	0020	0020	0019	0019	0020	0020	0020	0020	0020
N DET.	0010	0000	0001	0000	0000	0004	0000	0000	0000	0000	0011	0010	0000	0013	0000
MEAN	0.114	0.676	0.106	4.251	0.636	0.060	0.255	3.098	11.39	0.353	0.231	0.726	0.685	0.996	0.772
S. D.	0.178	0.357	0.044	2.015	0.204	0.025	0.135	1.018	1.80	0.115	0.097	0.848	0.291	0.336	0.320
LOW	0.010	0.395	0.065	1.660	0.220	0.020	0.100	0.430	8.03	0.165	0.090	0.110	0.120	0.500	0.350
HIGH	0.560	1.630	0.250	8.460	1.180	0.110	0.500	4.555	15.71	0.710	0.380	2.880	1.220	1.345	1.750

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SHRIMP, PINK — PENAEUS DUORARUM — 192010 — AREA- GULF — SITE- L5 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.003	S. D.	0.000	LOW	0.003	HIGH	0.003					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0002	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0001	0000
MEAN	0.130	0.624	0.141	8.262	0.359	0.084	0.237	2.484	9.41	0.321	0.144	0.274	0.174	1.193	0.876
S. D.	0.140	0.332	0.048	3.568	0.115	0.038	0.236	1.112	2.13	0.086	0.046	0.205	0.054	0.190	0.473
LOW	0.020	0.070	0.060	4.350	0.180	0.030	0.080	0.220	3.83	0.155	0.060	0.060	0.096	0.910	0.310
HIGH	0.420	1.335	0.210	15.650	0.525	0.145	0.865	4.120	11.81	0.430	0.190	0.650	0.255	1.485	1.800

SHRIMP, PINK — PENAEUS DUORARUM — 192010 — AREA- GULF — SITE- R5 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0005	0000	0000	0000	0000	0002	0000	0000	0000	0001	0007	0005	0000	0001	0000
MEAN	0.034	0.690	0.142	3.446	0.449	0.042	0.218	1.185	11.40	0.212	0.133	0.376	0.180	0.947	0.650
S. D.	0.017	0.455	0.082	1.287	0.139	0.017	0.107	0.474	4.22	0.061	0.059	0.185	0.068	0.508	0.162
LOW	0.020	0.305	0.070	1.090	0.270	0.010	0.060	0.610	7.81	0.130	0.090	0.220	0.095	0.500	0.450
HIGH	0.060	1.595	0.320	5.300	0.660	0.065	0.380	1.905	21.78	0.305	0.200	0.690	0.290	2.000	0.880

SHRIMP, PINK — PENAEUS DUORARUM — 192010 — AREA- GULF — SITE- R6 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0002	0000	0000	0000
MEAN	0.030	0.661	0.172	4.614	0.464	0.053	0.178	1.464	10.33	0.286	0.193	0.274	0.215	0.885	0.702
S. D.	0.000	0.186	0.024	1.963	0.246	0.009	0.039	0.700	2.63	0.088	0.058	0.157	0.048	0.194	0.103
LOW	0.000	0.380	0.140	1.350	0.210	0.040	0.125	0.740	6.56	0.180	0.120	0.120	0.150	0.630	0.535
HIGH	0.030	0.940	0.210	7.750	1.100	0.060	0.250	2.910	16.25	0.480	0.250	0.630	0.330	1.250	0.880

SHRIMP, PINK (NORTHERN) — PANDALUS BOREALIS — 192011 — AREA- NORTH ATLANTIC — SITE- — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	9	MEAN	0.004	S. D.	0.003	LOW	0.002	HIGH	0.009					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0006	0000	0007	0000
MEAN	0.037	0.419	0.100	6.720	0.703	0.116	0.186	2.381	10.80	0.401	0.140	0.300	0.374	0.905	0.948
S. D.	0.020	0.058	0.027	6.006	0.870	0.025	0.105	0.635	6.31	0.082	0.028	0.151	0.150	0.841	0.283
LOW	0.020	0.310	0.060	1.750	0.190	0.085	0.060	1.310	7.07	0.235	0.100	0.180	0.230	0.310	0.600
HIGH	0.070	0.500	0.145	20.625	2.950	0.165	0.435	2.880	27.34	0.520	0.160	0.470	0.660	1.500	1.415

SHRIMP, PINK (NORTHERN) — PANDALUS BOREALIS — 192011 — AREA- NORTH ATLANTIC — SITE- E9 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.000	0.380	0.110	13.500	0.410	0.030	0.230	6.280	10.36	0.710	0.000	0.000	0.360	1.050	0.500
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	0.380	0.110	13.500	0.410	0.030	0.230	6.280	10.36	0.710	0.000	0.000	0.360	1.050	0.500

SHRIMP, PINK (NORTHERN) — PANDALUS BOREALIS — 192011 — AREA- NORTH ATLANTIC — SITE- I2 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.003	S. D.	0.000	LOW	0.002	HIGH	0.004					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0003	0000	0004	0000
MEAN	0.050	0.650	0.142	12.973	0.482	0.158	0.253	2.669	10.64	0.371	0.180	0.787	0.427	1.434	0.888
S. D.	0.041	0.301	0.033	6.163	0.119	0.039	0.089	0.744	1.40	0.069	0.039	0.395	0.154	0.117	0.212
LOW	0.020	0.315	0.100	6.210	0.380	0.110	0.130	1.380	7.65	0.290	0.160	0.130	0.205	1.310	0.560
HIGH	0.130	1.310	0.210	25.000	0.690	0.210	0.380	3.500	11.88	0.460	0.250	1.315	0.650	1.630	1.190

SHRIMP, PINK (NORTHERN) — PANDALUS BOREALIS — 192011 — AREA- NORTH ATLANTIC — SITE- I5 — TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	4	MEAN	0.003	S. D.	0.001	LOW	0.001	HIGH	0.004					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0003	0000
MEAN	0.050	0.539	0.115	6.777	0.367	0.145	0.255	2.696	8.80	0.395	0.190	0.565	0.306	0.970	0.960
S. D.	0.052	0.124	0.025	1.648	0.024	0.028	0.112	0.697	1.53	0.129	0.000	0.000	0.066	0.000	0.332
LOW	0.020	0.440	0.093	5.300	0.345	0.120	0.130	1.830	7.34	0.243	0.000	0.000	0.220	0.000	0.606
HIGH	0.110	0.720	0.150	9.075	0.400	0.185	0.380	3.535	10.21	0.555	0.190	0.565	0.375	0.970	1.265

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- NORTH ATLANTIC SITE- I6 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	2	MEAN	0.006	S. D.	0.001	LOW	0.005	HIGH	0.007					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0001	0000
MEAN	0.020	0.410	0.115	11.688	0.415	0.150	0.190	2.065	8.22	0.385	0.000	0.000	0.495	0.130	0.735
S. D.	0.000	0.042	0.035	5.745	0.219	0.014	0.000	0.262	1.02	0.007	0.000	0.000	0.092	0.000	0.502
LOW	0.000	0.380	0.090	7.625	0.260	0.140	0.190	1.880	7.50	0.380	0.000	0.000	0.430	0.000	0.380
HIGH	0.020	0.440	0.140	15.750	0.570	0.160	0.190	2.250	8.94	0.390	0.000	0.000	0.560	0.130	1.090

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- NORTH ATLANTIC SITE- J1 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.004	S. D.	0.001	LOW	0.003	HIGH	0.006					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0010	0011	0011	0011	0011	0011	0011	0010
N DET.	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0009	0000	0008	0000
MEAN	0.048	0.590	0.117	9.785	0.475	0.135	0.312	2.816	11.16	0.402	0.160	0.285	0.395	0.407	0.876
S. D.	0.026	0.296	0.028	3.144	0.128	0.036	0.218	1.562	3.61	0.106	0.000	0.134	0.116	0.541	0.112
LOW	0.020	0.250	0.090	6.350	0.300	0.090	0.060	1.440	8.50	0.210	0.160	0.190	0.225	0.060	0.690
HIGH	0.070	1.250	0.180	15.225	0.730	0.190	0.750	5.630	21.25	0.560	0.160	0.380	0.620	1.030	1.060

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- NORTH ATLANTIC SITE- J2 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	0.007	S. D.	0.001	LOW	0.006	HIGH	0.008					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0003	0000
MEAN	0.055	0.500	0.097	17.911	0.547	0.087	0.158	2.025	9.07	0.258	0.000	0.190	0.298	0.000	0.617
S. D.	0.049	0.167	0.010	2.816	0.185	0.034	0.081	0.459	0.42	0.035	0.000	0.000	0.014	0.000	0.048
LOW	0.020	0.310	0.085	14.666	0.425	0.060	0.095	1.505	8.69	0.225	0.000	0.000	0.290	0.000	0.565
HIGH	0.090	0.625	0.105	19.716	0.760	0.125	0.250	2.375	9.53	0.295	0.000	0.190	0.315	0.000	0.660

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- NORTH ATLANTIC SITE- J7 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.007	S. D.	0.000	LOW	0.007	HIGH	0.007					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0001	0000
MEAN	0.020	0.456	0.116	19.300	0.546	0.106	0.140	2.650	10.89	0.296	0.000	0.175	0.430	0.000	0.710
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.020	0.456	0.116	19.300	0.546	0.106	0.140	2.650	10.89	0.296	0.000	0.175	0.430	0.000	0.710

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- NORTH ATLANTIC SITE- K1 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	3	MEAN	0.007	S. D.	0.001	LOW	0.007	HIGH	0.008					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0001	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0003	0000	0003	0000
MEAN	0.027	0.420	0.123	13.467	0.490	0.063	0.130	1.940	11.73	0.317	0.000	0.000	0.267	0.000	0.717
S. D.	0.012	0.193	0.012	4.767	0.052	0.015	0.000	0.947	1.49	0.170	0.000	0.000	0.038	0.000	0.143
LOW	0.020	0.250	0.110	8.950	0.460	0.050	0.000	0.860	10.50	0.140	0.000	0.000	0.240	0.000	0.560
HIGH	0.040	0.630	0.130	18.450	0.550	0.080	0.130	2.630	13.38	0.480	0.000	0.000	0.310	0.000	0.840

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- ALASKA SITE- K3 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0009	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0007	0000	0000	0000
MEAN	0.050	0.550	0.100	3.233	0.256	0.084	0.128	2.431	10.71	0.283	0.085	0.240	0.313	0.790	0.695
S. D.	0.000	0.193	0.019	1.395	0.131	0.017	0.059	0.741	2.27	0.089	0.050	0.087	0.074	0.199	0.156
LOW	0.000	0.310	0.080	1.000	0.080	0.060	0.060	1.630	9.13	0.140	0.060	0.190	0.170	0.410	0.500
HIGH	0.050	0.880	0.130	5.650	0.570	0.115	0.210	4.310	16.88	0.410	0.160	0.340	0.430	1.075	0.880

SHRIMP, PINK (NORTHERN) PANDALUS BOREALIS 192011 AREA- ALASKA SITE- O7 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0006	0000	0001	0000
MEAN	0.063	0.892	0.197	8.887	0.464	0.148	0.142	4.294	12.40	0.376	0.160	0.250	0.462	1.060	0.667
S. D.	0.033	0.421	0.047	4.559	0.153	0.039	0.042	0.960	1.18	0.146	0.030	0.131	0.068	0.299	0.105
LOW	0.040	0.500	0.110	4.500	0.260	0.060	0.060	3.630	11.00	0.220	0.130	0.090	0.350	0.720	0.500
HIGH	0.110	1.630	0.265	17.600	0.750	0.200	0.190	6.880	15.00	0.580	0.190	0.410	0.590	1.630	0.810

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

SHRIMP, ALASKA (SIDESTRIPE) PANDALOPSIS DISPAR 192012 AREA- ALASKA SITE- L4 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0004	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0004	0000	0000	0000
MEAN	0.168	0.734	0.146	4.197	0.261	0.066	0.185	4.403	13.68	0.309	0.155	0.252	0.381	0.942	0.729
S. D.	0.123	0.386	0.061	2.085	0.134	0.018	0.083	1.962	3.75	0.162	0.035	0.082	0.042	0.253	0.240
LOW	0.050	0.440	0.080	2.350	0.155	0.045	0.095	2.360	9.69	0.130	0.130	0.190	0.330	0.705	0.380
HIGH	0.295	1.560	0.230	8.375	0.550	0.100	0.310	8.250	20.87	0.580	0.180	0.345	0.440	1.380	1.130

SHRIMP, ALASKA (SIDESTRIPE) PANDALOPSIS DISPAR 192012 AREA- ALASKA SITE- N6 TAIL, PEELED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0007	0000	0000	0000	0000	0000	0001	0000	0000	0000	0009	0005	0000	0000	0000
MEAN	0.040	0.651	0.085	4.711	0.340	0.079	0.158	5.627	13.48	0.227	0.220	0.524	0.326	0.822	1.054
S. D.	0.020	0.224	0.042	1.366	0.152	0.035	0.036	1.681	2.13	0.054	0.000	0.584	0.061	0.291	0.301
LOW	0.020	0.440	0.035	2.778	0.150	0.040	0.110	4.250	8.75	0.140	0.000	0.130	0.230	0.380	0.500
HIGH	0.060	1.130	0.190	6.500	0.580	0.160	0.220	9.130	15.94	0.305	0.220	1.560	0.430	1.310	1.500

LOBSTER, SPINY (ATL.) PANULIRUS ARGUS 194002 AREA- SOUTH ATLANTIC SITE- M4 TAIL MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0008	0000	0000	0000
MEAN	0.190	0.599	0.093	13.991	0.235	0.034	0.170	3.854	22.02	0.253	0.000	0.375	0.132	0.863	0.516
S. D.	0.067	0.203	0.022	5.487	0.125	0.010	0.103	1.732	3.34	0.088	0.000	0.262	0.026	0.275	0.151
LOW	0.120	0.380	0.060	5.550	0.050	0.010	0.060	0.030	17.00	0.110	0.000	0.190	0.095	0.500	0.345
HIGH	0.340	0.940	0.135	22.250	0.420	0.045	0.380	6.810	27.50	0.440	0.000	0.560	0.180	1.220	0.880

LOBSTER, SPINY (ATL.) PANULIRUS ARGUS 194002 AREA- SOUTH ATLANTIC SITE- N1 TAIL MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	10	MEAN	0.547	S. D.	0.070	LOW	0.410	HIGH	0.674					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0001	0000	0000	0003	0001	0000	0000	0000	0003	0004	0000	0001	0000
MEAN	0.061	0.597	0.058	17.188	0.294	0.054	0.195	3.919	26.30	0.328	0.446	0.314	0.154	1.050	0.697
S. D.	0.052	0.300	0.022	7.489	0.157	0.018	0.119	2.257	22.34	0.151	0.336	0.305	0.076	0.366	0.290
LOW	0.020	0.300	0.035	4.190	0.140	0.030	0.080	0.520	4.69	0.140	0.060	0.060	0.040	0.630	0.450
HIGH	0.170	1.310	0.090	31.200	0.515	0.080	0.410	7.570	81.25	0.540	0.870	0.870	0.275	1.685	1.390

LOBSTER, SPINY (ATL.) PANULIRUS ARGUS 194002 AREA- GULF SITE- L9 TAIL MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0005	0000	0000	0000
MEAN	0.084	0.782	0.139	19.170	0.394	0.069	0.141	3.727	14.61	0.298	0.198	0.455	0.176	1.031	0.726
S. D.	0.036	0.369	0.065	7.130	0.291	0.015	0.063	1.225	2.28	0.051	0.118	0.183	0.030	0.381	0.211
LOW	0.030	0.440	0.095	7.750	0.150	0.060	0.080	1.880	11.19	0.220	0.060	0.265	0.130	0.630	0.380
HIGH	0.150	1.500	0.280	26.575	1.020	0.100	0.250	5.620	17.25	0.380	0.370	0.630	0.220	1.750	1.050

LOBSTER, SPINY (ATL.) PANULIRUS ARGUS 194002 AREA- GULF SITE- R6 TAIL MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	12	MEAN	0.520	S. D.	0.065	LOW	0.403	HIGH	0.636					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0012	0012	0012	0012	0012	0012	0012	0012	0010	0012	0012	0012	0012	0012	0012
N DET.	0003	0000	0001	0000	0001	0005	0001	0000	0000	0001	0008	0007	0000	0001	0000
MEAN	0.055	0.598	0.057	17.520	0.230	0.069	0.200	3.753	20.08	0.353	0.455	0.552	0.205	1.085	0.797
S. D.	0.052	0.426	0.032	12.985	0.174	0.031	0.133	1.576	3.69	0.232	0.575	0.377	0.123	0.354	0.316
LOW	0.025	0.120	0.011	7.100	0.030	0.030	0.085	0.180	12.50	0.140	0.100	0.120	0.040	0.500	0.380
HIGH	0.190	1.500	0.130	55.070	0.590	0.130	0.500	5.500	24.53	0.890	1.310	0.940	0.460	1.630	1.500

LOBSTER, SPINY (PAC.) PANULIRUS INTERRUPTUS 194003 AREA- CALIFORNIA SITE- K3 TAIL MEAT

LENGTH	NUM	5	MEAN	0.085	S. D.	0.001	LOW	0.084	HIGH	0.086					
WEIGHT	NUM	5	MEAN	0.478	S. D.	0.013	LOW	0.462	HIGH	0.493					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0000	0000	0000
MEAN	0.064	0.547	0.245	25.356	0.336	0.091	0.129	9.819	16.54	0.335	0.194	0.365	0.234	0.974	1.163
S. D.	0.017	0.072	0.135	7.155	0.146	0.021	0.056	2.215	7.58	0.069	0.182	0.361	0.039	0.430	0.339
LOW	0.050	0.480	0.150	19.390	0.215	0.060	0.070	6.535	3.75	0.270	0.060	0.110	0.180	0.310	0.655
HIGH	0.090	0.630	0.480	35.700	0.540	0.120	0.215	11.880	23.28	0.440	0.440	0.620	0.290	1.370	1.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- E9 CLAW & TAIL MEAT

LENGTH	NUM	1	MEAN	0.415	S. D.	0.000	LOW	0.415	HIGH	0.415					
WEIGHT	NUM	2	MEAN	1.575	S. D.	1.104	LOW	0.794	HIGH	2.355					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.115	0.495	0.200	31.650	0.765	0.495	0.185	16.560	34.53	0.305	0.120	0.000	0.870	0.690	0.640
S. D.	0.035	0.007	0.127	7.460	0.092	0.007	0.177	0.438	2.43	0.078	0.000	0.000	0.198	0.354	0.198
LOW	0.090	0.490	0.110	26.375	0.700	0.490	0.060	16.250	32.81	0.250	0.000	0.000	0.730	0.440	0.500
HIGH	0.140	0.500	0.290	36.925	0.830	0.500	0.310	16.870	36.25	0.360	0.120	0.000	1.010	0.940	0.780

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- I9 CLAW & TAIL MEAT

LENGTH	NUM	2	MEAN	0.273	S. D.	0.081	LOW	0.215	HIGH	0.330					
WEIGHT	NUM	2	MEAN	0.745	S. D.	0.552	LOW	0.354	HIGH	1.135					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.175	0.560	0.245	15.019	0.838	0.318	0.108	13.220	42.03	0.385	0.180	0.000	0.295	1.010	0.880
S. D.	0.148	0.099	0.134	8.052	0.074	0.046	0.018	1.018	1.10	0.035	0.000	0.000	0.148	0.099	0.255
LOW	0.070	0.490	0.150	9.325	0.786	0.285	0.095	12.500	41.25	0.360	0.000	0.000	0.190	0.940	0.700
HIGH	0.280	0.630	0.340	20.712	0.890	0.350	0.120	13.940	42.81	0.410	0.180	0.000	0.400	1.080	1.060

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- J3 CLAW & TAIL MEAT

LENGTH	NUM	8	MEAN	0.260	S. D.	0.025	LOW	0.225	HIGH	0.310					
WEIGHT	NUM	7	MEAN	1.107	S. D.	0.338	LOW	0.880	HIGH	1.844					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0001	0000
MEAN	0.205	0.531	0.297	19.422	0.878	0.432	0.235	13.426	24.95	0.414	0.132	0.313	0.783	0.884	0.566
S. D.	0.142	0.190	0.143	11.567	0.229	0.160	0.195	2.976	7.50	0.125	0.061	0.279	0.477	0.167	0.260
LOW	0.075	0.330	0.160	8.800	0.630	0.250	0.076	9.715	11.31	0.265	0.085	0.060	0.440	0.560	0.390
HIGH	0.440	0.880	0.570	43.050	1.315	0.680	0.690	18.630	35.65	0.680	0.250	0.690	1.860	1.120	1.120

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- J5 CLAW & TAIL MEAT

LENGTH	NUM	7	MEAN	0.323	S. D.	0.023	LOW	0.305	HIGH	0.350					
WEIGHT	NUM	7	MEAN	1.072	S. D.	0.239	LOW	0.823	HIGH	1.476					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.219	0.571	0.229	41.331	1.253	0.406	0.144	18.649	31.28	0.386	0.075	0.376	1.007	0.798	0.674
S. D.	0.128	0.129	0.208	24.246	0.241	0.164	0.031	5.062	3.82	0.078	0.030	0.190	0.383	0.188	0.089
LOW	0.100	0.380	0.105	17.790	0.976	0.230	0.120	12.625	28.12	0.300	0.060	0.220	0.620	0.560	0.590
HIGH	0.460	0.750	0.695	82.783	1.650	0.630	0.190	25.630	38.44	0.515	0.120	0.630	1.810	1.130	0.815

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- J6 CLAW & TAIL MEAT

LENGTH	NUM	19	MEAN	0.303	S. D.	0.059	LOW	0.197	HIGH	0.402					
WEIGHT	NUM	18	MEAN	1.302	S. D.	0.599	LOW	0.262	HIGH	2.951					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0019	0019	0019	0015	0019	0018	0019	0018	0019	0019	0019	0018	0019	0018
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0009	0005	0000	0002	0000
MEAN	0.185	0.560	0.196	24.431	1.014	0.523	0.227	17.868	31.52	0.362	0.153	0.322	0.682	1.019	0.756
S. D.	0.089	0.164	0.091	12.335	0.388	0.181	0.134	6.297	38.91	0.096	0.103	0.228	0.356	0.364	0.206
LOW	0.050	0.190	0.070	4.400	0.570	0.240	0.060	10.620	12.50	0.235	0.060	0.060	0.140	0.440	0.425
HIGH	0.400	0.875	0.350	48.000	1.895	0.890	0.630	29.560	180.49	0.640	0.410	0.880	1.485	1.810	1.130

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- J9 CLAW & TAIL MEAT

LENGTH	NUM	7	MEAN	0.404	S. D.	0.113	LOW	0.301	HIGH	0.575					
WEIGHT	NUM	7	MEAN	2.506	S. D.	1.694	LOW	0.891	HIGH	5.022					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0007	0000	0000	0000
MEAN	0.263	0.509	0.143	27.096	0.563	0.479	0.148	15.500	20.68	0.348	0.110	0.110	0.426	0.891	0.612
S. D.	0.187	0.314	0.079	14.997	0.213	0.268	0.046	7.424	6.38	0.100	0.093	0.000	0.206	0.300	0.172
LOW	0.085	0.190	0.040	10.650	0.250	0.130	0.085	5.750	13.75	0.260	0.060	0.000	0.250	0.410	0.380
HIGH	0.590	1.180	0.280	51.247	0.840	0.925	0.220	24.375	31.56	0.530	0.250	0.110	0.850	1.405	0.905

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- K3 CLAW & TAIL MEAT

LENGTH	NUM	1	MEAN	0.445	S. D.	0.000	LOW	0.445	HIGH	0.445					
WEIGHT	NUM	1	MEAN	2.923	S. D.	0.000	LOW	2.923	HIGH	2.923					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.445	0.560	0.180	41.633	1.000	0.620	0.125	16.690	30.62	0.320	0.130	0.000	1.425	0.740	0.580
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.445	0.560	0.180	41.633	1.000	0.620	0.125	16.690	30.62	0.320	0.130	0.000	1.425	0.740	0.580

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- K5 CLAW & TAIL MEAT

LENGTH	NUM	7	MEAN	0.345	S. D.	0.023	LOW	0.302	HIGH	0.370					
WEIGHT	NUM	6	MEAN	1.426	S. D.	0.350	LOW	0.794	HIGH	1.731					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0007	0007	0007	0007	0007	0007	0007	0006	0006	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0006	0000	0000	0000
MEAN	0.240	0.629	0.203	31.101	0.631	0.493	0.201	15.275	70.63	0.379	0.207	0.940	0.519	0.854	0.604
S. D.	0.129	0.318	0.110	13.905	0.239	0.179	0.236	6.101	64.38	0.124	0.177	0.000	0.166	0.424	0.147
LOW	0.130	0.300	0.090	15.930	0.300	0.240	0.060	9.065	28.12	0.290	0.090	0.000	0.260	0.440	0.370
HIGH	0.470	1.250	0.430	57.600	1.000	0.780	0.720	26.965	183.45	0.640	0.410	0.940	0.670	1.440	0.780

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- O1 CLAW & TAIL MEAT

LENGTH	NUM	1	MEAN	0.232	S. D.	0.000	LOW	0.232	HIGH	0.232					
WEIGHT	NUM	1	MEAN	0.577	S. D.	0.000	LOW	0.577	HIGH	0.577					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.325	0.655	0.230	4.400	0.863	0.190	0.135	14.655	17.50	0.300	0.000	0.605	0.505	1.000	0.565
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.325	0.655	0.230	4.400	0.863	0.190	0.135	14.655	17.50	0.300	0.000	0.605	0.505	1.000	0.565

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- O3 CLAW & TAIL MEAT

LENGTH	NUM	5	MEAN	0.220	S. D.	0.046	LOW	0.166	HIGH	0.290					
WEIGHT	NUM	2	MEAN	0.702	S. D.	0.652	LOW	0.241	HIGH	1.163					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0004	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0002	0000
MEAN	0.115	0.522	0.164	9.684	1.288	0.423	0.208	16.320	19.27	0.357	0.293	0.250	0.569	0.697	0.702
S. D.	0.031	0.184	0.050	5.063	0.384	0.074	0.157	7.801	7.11	0.084	0.261	0.060	0.169	0.339	0.056
LOW	0.070	0.310	0.090	3.800	0.820	0.360	0.060	7.310	10.00	0.250	0.100	0.190	0.385	0.310	0.620
HIGH	0.150	0.750	0.195	16.050	1.730	0.510	0.416	28.130	28.31	0.460	0.590	0.310	0.810	0.940	0.750

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- P1 CLAW & TAIL MEAT

LENGTH	NUM	4	MEAN	0.274	S. D.	0.054	LOW	0.199	HIGH	0.320					
WEIGHT	NUM	3	MEAN	1.343	S. D.	0.399	LOW	0.964	HIGH	1.759					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0005	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0003	0000	0000	0000
MEAN	0.193	0.553	0.230	11.435	0.702	0.427	0.219	20.319	22.09	0.267	0.215	0.325	0.373	0.900	0.757
S. D.	0.064	0.154	0.108	3.222	0.209	0.152	0.110	5.653	2.31	0.083	0.118	0.110	0.131	0.186	0.205
LOW	0.120	0.440	0.105	7.575	0.390	0.195	0.070	11.065	19.32	0.150	0.100	0.220	0.145	0.625	0.365
HIGH	0.275	0.845	0.365	16.250	0.895	0.615	0.380	28.190	25.94	0.360	0.380	0.440	0.540	1.065	0.925

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- P2 CLAW & TAIL MEAT

LENGTH	NUM	3	MEAN	0.357	S. D.	0.091	LOW	0.290	HIGH	0.460					
WEIGHT	NUM	3	MEAN	2.202	S. D.	1.635	LOW	1.158	HIGH	4.086					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.243	0.367	0.200	14.888	0.723	0.468	0.237	19.252	21.33	0.292	0.090	0.220	0.457	0.972	0.572
S. D.	0.055	0.154	0.187	9.246	0.216	0.338	0.081	3.293	6.05	0.099	0.000	0.000	0.265	0.222	0.111
LOW	0.190	0.190	0.050	5.300	0.570	0.120	0.190	15.690	17.50	0.180	0.000	0.000	0.200	0.810	0.470
HIGH	0.300	0.470	0.410	23.750	0.970	0.795	0.330	22.185	28.31	0.370	0.090	0.220	0.730	1.225	0.690

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- P3 CLAW & TAIL MEAT

LENGTH	NUM	3	MEAN	0.337	S. D.	0.054	LOW	0.275	HIGH	0.373					
WEIGHT	NUM	3	MEAN	1.447	S. D.	0.344	LOW	1.050	HIGH	1.646					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000
MEAN	0.167	0.690	0.143	13.789	0.765	0.483	0.250	24.240	28.65	0.325	0.440	0.430	0.420	0.877	0.658
S. D.	0.035	0.190	0.031	4.355	0.304	0.038	0.060	8.472	8.02	0.079	0.000	0.180	0.040	0.085	0.093
LOW	0.130	0.500	0.110	10.600	0.550	0.440	0.190	17.500	21.88	0.255	0.000	0.280	0.380	0.780	0.565
HIGH	0.200	0.880	0.170	18.750	0.980	0.510	0.310	33.750	37.50	0.410	0.440	0.630	0.460	0.940	0.750

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- R6 LEG MEAT

LENGTH	NUM	2	MEAN	0.773	S. D.	0.039	LOW	0.745	HIGH	0.800					
WEIGHT	NUM	2	MEAN	6.719	S. D.	1.284	LOW	5.811	HIGH	7.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.548	0.908	0.120	20.545	0.615	0.898	0.155	19.328	47.43	0.505	0.140	0.190	0.435	0.890	0.815
S. D.	0.159	0.039	0.028	0.000	0.000	0.173	0.049	11.558	0.77	0.078	0.000	0.000	0.064	0.000	0.262
LOW	0.435	0.880	0.100	0.000	0.000	0.775	0.120	11.155	46.88	0.450	0.000	0.000	0.390	0.000	0.630
HIGH	0.660	0.935	0.140	20.545	0.615	1.020	0.190	27.500	47.97	0.560	0.140	0.190	0.480	0.890	1.000

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- R6 BODY MEAT

LENGTH	NUM	2	MEAN	0.773	S. D.	0.039	LOW	0.745	HIGH	0.800					
WEIGHT	NUM	2	MEAN	6.719	S. D.	1.284	LOW	5.811	HIGH	7.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.338	0.470	10.253	19.071	0.808	0.170	0.503	13.093	30.00	0.443	0.345	0.440	0.670	0.815	0.580
S. D.	0.081	0.042	6.544	11.095	0.272	0.071	0.180	10.030	2.64	0.166	0.049	0.000	0.269	0.134	0.113
LOW	0.280	0.440	5.625	11.225	0.616	0.120	0.375	6.000	28.13	0.325	0.310	0.000	0.480	0.720	0.500
HIGH	0.395	0.500	14.880	26.916	1.000	0.220	0.630	20.185	31.87	0.560	0.380	0.440	0.860	0.910	0.660

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- R6 CLAW MEAT

LENGTH	NUM	2	MEAN	0.773	S. D.	0.039	LOW	0.745	HIGH	0.800					
WEIGHT	NUM	2	MEAN	6.719	S. D.	1.284	LOW	5.811	HIGH	7.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	0.390	0.630	0.105	13.300	0.595	0.775	0.310	26.255	34.47	0.275	0.000	0.000	0.290	0.830	0.565
S. D.	0.042	0.354	0.035	5.374	0.262	0.544	0.000	9.723	10.92	0.078	0.000	0.000	0.028	0.820	0.177
LOW	0.360	0.380	0.080	9.500	0.410	0.390	0.000	19.380	26.75	0.220	0.000	0.000	0.270	0.250	0.440
HIGH	0.420	0.880	0.130	17.100	0.780	1.160	0.310	33.130	42.19	0.330	0.000	0.000	0.310	1.410	0.690

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- R6 TAIL MEAT

LENGTH	NUM	2	MEAN	0.773	S. D.	0.039	LOW	0.745	HIGH	0.800					
WEIGHT	NUM	2	MEAN	6.719	S. D.	1.284	LOW	5.811	HIGH	7.627					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	1.150	0.583	0.408	14.360	0.923	0.218	0.170	6.248	25.70	0.325	0.250	0.190	0.300	0.720	0.703
S. D.	0.226	0.067	0.202	4.582	0.315	0.088	0.156	4.685	1.67	0.078	0.000	0.000	0.141	0.311	0.202
LOW	0.990	0.535	0.265	11.120	0.700	0.155	0.060	2.935	24.52	0.270	0.000	0.000	0.200	0.500	0.560
HIGH	1.310	0.630	0.550	17.600	1.145	0.280	0.280	9.560	26.88	0.380	0.250	0.190	0.400	0.940	0.845

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- R6 CLAW & TAIL MEAT

LENGTH	NUM	1	MEAN	0.643	S. D.	0.000	LOW	0.643	HIGH	0.643					
WEIGHT	NUM	2	MEAN	1.845	S. D.	2.143	LOW	0.330	HIGH	3.360					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0000
MEAN	0.313	0.823	0.150	9.433	0.903	0.777	0.220	16.727	24.26	0.290	0.190	0.625	0.322	0.917	0.745
S. D.	0.228	0.289	0.038	4.988	0.139	0.200	0.090	9.279	6.48	0.113	0.000	0.177	0.141	0.333	0.218
LOW	0.135	0.630	0.110	6.410	0.780	0.615	0.130	10.375	18.44	0.220	0.190	0.500	0.170	0.560	0.560
HIGH	0.570	1.155	0.185	15.190	1.053	1.000	0.310	27.375	31.25	0.420	0.190	0.750	0.450	1.220	0.985

LOBSTER, NORTHERN (AMERICAN) HOMARUS AMERICANUS 194012 AREA- NORTH ATLANTIC SITE- R9 CLAW & TAIL MEAT

LENGTH	NUM	5	MEAN	0.260	S. D.	0.061	LOW	0.202	HIGH	0.344					
WEIGHT	NUM	5	MEAN	0.836	S. D.	0.432	LOW	0.340	HIGH	1.361					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0004	0005	0004
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.263	0.555	0.144	10.657	0.757	0.251	0.141	9.727	19.28	0.236	0.255	0.317	0.263	0.993	0.630
S. D.	0.051	0.065	0.059	5.083	0.238	0.123	0.031	3.297	5.35	0.064	0.134	0.419	0.051	0.466	0.225
LOW	0.220	0.450	0.090	6.483	0.460	0.130	0.120	5.560	10.00	0.170	0.160	0.060	0.190	0.500	0.380
HIGH	0.345	0.630	0.235	19.100	1.070	0.430	0.185	14.365	23.11	0.310	0.350	0.800	0.300	1.440	0.840

CRAB, BLUE CALLINECTES SAPIDUS 196001 AREA- NORTH ATLANTIC SITE- R8 CLAW & BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0009	0000
MEAN	0.037	0.604	0.100	3.048	0.545	0.311	0.238	3.279	29.35	0.396	0.183	0.336	1.846	0.250	0.861
S. D.	0.020	0.188	0.012	2.154	0.277	0.068	0.081	1.508	4.85	0.064	0.039	0.240	0.829	0.000	0.208
LOW	0.020	0.380	0.075	0.900	0.250	0.195	0.130	1.120	21.00	0.250	0.130	0.160	0.960	0.000	0.690
HIGH	0.070	1.020	0.120	7.750	1.210	0.380	0.380	6.380	36.25	0.470	0.230	0.750	3.690	0.250	1.330

CRAB, BLUE CALLINECTES SAPIDUS 196001 AREA- SOUTH ATLANTIC SITE- C2 CLAW & BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0009	0009	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	0002	0000	0001	0000
MEAN	0.099	0.755	0.228	10.333	1.326	0.476	0.390	11.471	35.83	0.665	0.284	0.772	3.115	1.670	0.927
S. D.	0.027	0.345	0.100	5.914	0.246	0.189	0.124	3.044	8.97	0.269	0.161	0.691	1.077	1.020	0.347
LOW	0.050	0.360	0.070	0.300	0.845	0.215	0.180	7.419	22.43	0.320	0.130	0.290	1.360	0.320	0.600
HIGH	0.135	1.310	0.420	17.933	1.615	0.770	0.606	14.745	50.00	1.160	0.620	2.300	4.830	3.600	1.665

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- SOUTH ATLANTIC — SITE- F3 — BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000
MEAN	0.413	0.793	0.135	3.581	0.617	0.253	0.123	11.834	30.81	0.369	0.261	0.458	2.008	1.318	0.929
S. D.	0.122	0.260	0.017	1.178	0.164	0.106	0.035	3.748	8.28	0.054	0.069	0.203	0.517	0.228	0.310
LOW	0.280	0.470	0.115	2.200	0.385	0.145	0.060	8.565	21.12	0.275	0.190	0.190	1.375	1.125	0.390
HIGH	0.610	1.095	0.155	5.750	0.800	0.435	0.160	19.155	42.97	0.415	0.345	0.750	2.890	1.625	1.315

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- SOUTH ATLANTIC — SITE- F3 — CLAW MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0000	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.500	0.880	0.080	3.625	0.890	0.080	0.730	13.130	0.00	0.570	0.000	0.170	1.430	0.810	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.500	0.880	0.080	3.625	0.890	0.080	0.730	13.130	0.00	0.570	0.000	0.170	1.430	0.810	0.630

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- SOUTH ATLANTIC — SITE- F3 — CLAW & BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0002	0000	0000	0000
MEAN	0.210	1.095	0.115	4.194	0.290	0.215	0.345	8.905	28.41	0.360	0.060	0.000	1.140	1.250	0.780
S. D.	0.141	0.304	0.021	1.193	0.000	0.106	0.403	2.425	2.16	0.028	0.000	0.000	1.032	0.269	0.042
LOW	0.110	0.880	0.100	3.350	0.000	0.140	0.060	7.190	26.88	0.340	0.000	0.000	0.410	1.060	0.750
HIGH	0.310	1.310	0.130	5.037	0.290	0.290	0.630	10.620	29.94	0.380	0.060	0.000	1.870	1.440	0.810

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- GULF — SITE- B7 — BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0002	0000	0000	0000
MEAN	0.053	0.877	0.103	1.795	0.477	0.120	0.347	4.143	54.06	0.397	0.000	0.220	1.173	0.990	0.905
S. D.	0.025	0.329	0.012	0.474	0.133	0.036	0.345	1.956	54.16	0.156	0.000	0.000	0.391	0.180	0.219
LOW	0.030	0.630	0.090	1.450	0.400	0.090	0.060	2.060	13.75	0.230	0.000	0.000	0.750	0.840	0.750
HIGH	0.080	1.250	0.110	2.335	0.630	0.160	0.730	5.940	115.62	0.540	0.000	0.220	1.520	1.190	1.060

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- GULF — SITE- B8 — BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0007	0006	0007	0006	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0001	0000
MEAN	0.040	0.649	0.098	1.478	0.554	0.116	0.470	4.680	68.79	0.339	0.288	0.217	1.823	0.943	0.897
S. D.	0.028	0.287	0.022	0.632	0.341	0.054	0.440	1.025	49.20	0.067	0.255	0.085	0.602	0.283	0.242
LOW	0.020	0.370	0.070	0.700	0.040	0.020	0.120	3.010	30.62	0.240	0.090	0.120	0.930	0.720	0.620
HIGH	0.090	1.250	0.130	2.625	0.920	0.180	1.250	5.940	160.62	0.440	0.720	0.280	2.810	1.500	1.310

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- GULF — SITE- B8 — CLAW MEAT

LENGTH	NUM	1	MEAN	0.148	S. D.	0.000	LOW	0.148	HIGH	0.148					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.135	0.565	0.085	2.856	0.475	0.305	0.160	6.035	51.25	0.450	0.000	0.000	2.335	0.000	0.520
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.135	0.565	0.085	2.856	0.475	0.305	0.160	6.035	51.25	0.450	0.000	0.000	2.335	0.000	0.520

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 — AREA- GULF — SITE- B8 — CLAW & BODY MEAT

LENGTH	NUM	6	MEAN	0.154	S. D.	0.007	LOW	0.148	HIGH	0.166					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006	0006
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0005	0000	0006	0000
MEAN	0.078	0.555	0.096	2.578	0.539	0.167	0.223	3.690	35.92	0.401	0.130	0.130	3.369	0.000	0.709
S. D.	0.046	0.148	0.023	1.708	0.079	0.072	0.085	1.943	8.91	0.044	0.000	0.000	1.256	0.000	0.142
LOW	0.040	0.380	0.070	1.083	0.410	0.090	0.090	0.380	21.88	0.320	0.000	0.000	1.590	0.000	0.470
HIGH	0.150	0.750	0.125	5.537	0.620	0.290	0.315	5.880	46.88	0.440	0.130	0.130	5.000	0.000	0.845

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

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LOCATION LEVEL 5

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- E5 BODY MEAT

LENGTH	NUM	10	MEAN	0.150	S. D.	0.005	LOW	0.143	HIGH	0.157					
WEIGHT	NUM	10	MEAN	0.174	S. D.	0.016	LOW	0.146	HIGH	0.190					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0009	0010	0008	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0006	0000	0001	0000
MEAN	0.201	0.557	0.083	5.311	0.943	0.134	0.195	4.521	22.74	0.372	0.168	0.343	0.300	0.867	0.704
S. D.	0.053	0.166	0.017	2.815	0.578	0.041	0.053	1.877	5.04	0.219	0.108	0.081	0.068	0.273	0.169
LOW	0.150	0.250	0.050	3.000	0.370	0.070	0.120	1.425	12.50	0.040	0.060	0.250	0.220	0.560	0.470
HIGH	0.330	0.810	0.105	12.140	1.900	0.200	0.260	7.440	29.25	0.740	0.310	0.440	0.440	1.440	1.000

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- E5 CLAW & BODY MEAT

LENGTH	NUM	10	MEAN	0.138	S. D.	0.005	LOW	0.133	HIGH	0.149					
WEIGHT	NUM	10	MEAN	0.151	S. D.	0.017	LOW	0.134	HIGH	0.190					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0005	0002	0000	0008	0000
MEAN	0.266	0.709	0.105	6.893	0.780	0.158	0.235	4.624	30.08	0.452	0.166	0.249	0.863	0.345	0.729
S. D.	0.075	0.210	0.022	1.550	0.195	0.050	0.113	2.538	7.71	0.183	0.050	0.127	0.398	0.049	0.148
LOW	0.130	0.380	0.060	3.933	0.410	0.100	0.130	1.290	13.94	0.260	0.090	0.130	0.260	0.310	0.470
HIGH	0.330	1.000	0.130	9.100	1.060	0.250	0.500	9.440	38.13	0.870	0.220	0.540	1.590	0.380	1.060

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- G3 CLAW & BODY MEAT

LENGTH	NUM	2	MEAN	0.151	S. D.	0.008	LOW	0.145	HIGH	0.156					
WEIGHT	NUM	1	MEAN	0.185	S. D.	0.000	LOW	0.185	HIGH	0.185					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.193	0.845	0.100	3.375	0.460	0.238	0.200	3.718	39.53	0.285	0.138	0.280	1.595	0.630	0.628
S. D.	0.011	0.354	0.028	0.884	0.127	0.216	0.028	0.795	0.23	0.049	0.011	0.000	0.233	0.000	0.110
LOW	0.185	0.595	0.080	2.750	0.370	0.085	0.180	3.155	39.37	0.250	0.130	0.000	1.430	0.000	0.550
HIGH	0.200	1.095	0.120	4.000	0.550	0.390	0.220	4.280	39.69	0.320	0.145	0.280	1.760	0.630	0.705

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- L5 CLAW & BODY MEAT

LENGTH	NUM	3	MEAN	0.139	S. D.	0.008	LOW	0.132	HIGH	0.148					
WEIGHT	NUM	1	MEAN	0.154	S. D.	0.000	LOW	0.154	HIGH	0.154					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0002	0002	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0001	0000
MEAN	0.100	0.782	0.128	9.230	1.022	0.608	0.203	10.168	33.67	0.489	0.212	0.450	0.632	0.845	0.873
S. D.	0.044	0.157	0.014	4.011	0.257	0.266	0.071	1.949	11.22	0.313	0.121	0.240	0.257	0.488	0.223
LOW	0.070	0.626	0.113	6.393	0.840	0.330	0.155	8.243	24.22	0.140	0.100	0.280	0.376	0.500	0.700
HIGH	0.150	0.940	0.140	12.066	1.203	0.860	0.285	12.140	46.07	0.745	0.340	0.620	0.890	1.190	1.125

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- L8 BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0008	0008	0007	0009	0009	0009	0009	0008	0009	0009	0008	0009	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0003	0000	0001	0000
MEAN	0.125	0.924	0.151	2.993	0.675	0.206	0.338	8.641	26.69	0.415	0.228	0.247	0.438	1.348	0.866
S. D.	0.049	0.444	0.044	0.885	0.299	0.032	0.160	1.836	11.86	0.041	0.134	0.133	0.167	0.269	0.213
LOW	0.020	0.360	0.090	2.225	0.250	0.140	0.140	6.380	9.56	0.355	0.060	0.060	0.300	0.970	0.620
HIGH	0.180	1.630	0.230	4.287	1.250	0.250	0.630	11.110	46.25	0.460	0.500	0.440	0.820	1.780	1.250

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- L8 CLAW MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0000	0000	0000
MEAN	0.125	0.978	0.152	3.776	0.770	0.185	0.250	8.157	28.26	0.403	0.220	0.537	0.368	1.282	0.938
S. D.	0.048	0.400	0.073	1.795	0.448	0.031	0.295	3.762	9.84	0.087	0.000	0.502	0.156	0.294	0.442
LOW	0.080	0.745	0.085	2.012	0.260	0.150	0.010	5.940	20.63	0.330	0.000	0.090	0.250	1.095	0.625
HIGH	0.175	1.440	0.230	5.600	1.100	0.210	0.580	12.500	39.37	0.500	0.220	1.080	0.545	1.620	1.250

CRAB, BLUE — CALLINECTES SAPIDUS — 196001 AREA- GULF — SITE- L8 CLAW & BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0011	0011	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0003	0005	0000	0001	0000
MEAN	0.147	0.676	0.122	4.902	0.515	0.282	0.235	7.877	31.07	0.329	0.203	0.387	0.371	1.148	0.921
S. D.	0.026	0.291	0.051	2.181	0.519	0.120	0.131	4.491	5.65	0.083	0.185	0.170	0.102	0.300	0.167
LOW	0.120	0.300	0.070	1.516	0.130	0.090	0.090	3.305	21.94	0.230	0.060	0.190	0.270	0.810	0.690
HIGH	0.210	1.440	0.260	9.750	1.960	0.500	0.470	20.000	42.19	0.450	0.630	0.690	0.630	1.690	1.205

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- I4 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	1	MEAN	0.114	S. D.	0.000	LOW 0.114 HIGH 0.114

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0000
MEAN	0.000	1.000	0.190	7.125	1.900	0.360	0.310	9.840	43.75	0.750	0.000	0.190	1.500	0.130	0.880
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.000	1.000	0.190	7.125	1.900	0.360	0.310	9.840	43.75	0.750	0.000	0.190	1.500	0.130	0.880

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- N2 — MEAT

LENGTH	NUM	1	MEAN	0.084	S. D.	0.000	LOW 0.084 HIGH 0.084
WEIGHT	NUM	1	MEAN	0.066	S. D.	0.000	LOW 0.066 HIGH 0.066

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0001	0000
MEAN	0.330	0.380	0.140	3.980	0.700	0.130	0.130	4.060	13.75	0.380	0.000	0.000	0.560	0.000	0.410
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.330	0.380	0.140	3.980	0.700	0.130	0.130	4.060	13.75	0.380	0.000	0.000	0.560	0.000	0.410

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- N4 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	1	MEAN	0.096	S. D.	0.000	LOW 0.096 HIGH 0.096

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.240	0.630	0.210	10.583	1.600	0.255	0.275	4.660	39.38	0.890	0.160	0.250	1.345	0.000	0.640
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.240	0.630	0.210	10.583	1.600	0.255	0.275	4.660	39.38	0.890	0.160	0.250	1.345	0.000	0.640

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- N6 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	1	MEAN	0.165	S. D.	0.000	LOW 0.165 HIGH 0.165

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
MEAN	0.140	1.060	0.550	17.525	2.220	0.460	0.310	13.130	51.56	0.690	0.130	0.440	2.940	0.250	0.880
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.140	1.060	0.550	17.525	2.220	0.460	0.310	13.130	51.56	0.690	0.130	0.440	2.940	0.250	0.880

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- N7 — MEAT

LENGTH	NUM	1	MEAN	0.080	S. D.	0.000	LOW 0.080 HIGH 0.080
WEIGHT	NUM	3	MEAN	0.087	S. D.	0.013	LOW 0.072 HIGH 0.097

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0000	0003	0000
MEAN	0.215	0.690	0.277	7.539	1.260	0.458	0.253	7.285	33.75	1.145	0.160	0.280	1.323	0.000	0.787
S. D.	0.052	0.226	0.047	1.627	0.481	0.225	0.125	1.253	11.11	0.145	0.000	0.000	0.371	0.000	0.064
LOW	0.155	0.500	0.240	6.550	0.710	0.240	0.130	5.845	21.25	0.980	0.160	0.000	1.030	0.000	0.750
HIGH	0.250	0.940	0.330	9.416	1.600	0.690	0.380	8.130	42.50	1.250	0.160	0.280	1.740	0.000	0.860

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- O1 — MEAT

LENGTH	NUM	2	MEAN	0.097	S. D.	0.006	LOW 0.092 HIGH 0.101
WEIGHT	NUM	5	MEAN	0.155	S. D.	0.077	LOW 0.086 HIGH 0.285

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000	0004	0000
MEAN	0.169	0.914	0.300	12.058	1.930	0.265	0.286	7.170	40.43	0.708	0.245	0.351	1.067	0.380	0.888
S. D.	0.081	0.111	0.149	4.352	0.293	0.143	0.058	4.059	10.06	0.145	0.076	0.141	0.447	0.000	0.106
LOW	0.050	0.750	0.130	7.625	1.515	0.105	0.190	1.160	29.25	0.500	0.160	0.250	0.550	0.000	0.750
HIGH	0.230	1.060	0.523	19.150	2.250	0.433	0.345	10.463	54.69	0.855	0.355	0.560	1.773	0.380	0.986

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- O3 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW 0.000 HIGH 0.000
WEIGHT	NUM	1	MEAN	0.112	S. D.	0.000	LOW 0.112 HIGH 0.112

	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.100	1.000	0.360	14.650	2.550	1.000	0.380	5.380	68.75	0.970	0.190	0.190	0.710	0.000	1.060
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.100	1.000	0.360	14.650	2.550	1.000	0.380	5.380	68.75	0.970	0.190	0.190	0.710	0.000	1.060

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

LOCATION LEVEL 5

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- P1 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.111	S. D.	0.000	LOW	0.111	HIGH	0.111					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.055	0.785	0.335	8.300	1.130	0.325	0.205	5.500	54.06	0.875	0.205	0.410	1.320	0.000	0.660
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.055	0.785	0.335	8.300	1.130	0.325	0.205	5.500	54.06	0.875	0.205	0.410	1.320	0.000	0.660

CRAB, ROCK — CANCER ERRORATUS — 196003 — AREA- NORTH ATLANTIC — SITE- S1 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	1	MEAN	0.107	S. D.	0.000	LOW	0.107	HIGH	0.107					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.100	0.750	0.430	8.850	0.890	0.560	0.190	7.750	30.63	1.180	0.160	0.410	1.780	0.000	0.630
S. D.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
LOW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000
HIGH	0.100	0.750	0.430	8.850	0.890	0.560	0.190	7.750	30.63	1.180	0.160	0.410	1.780	0.000	0.630

CRAB, RED, DEEP SEA — GERYON QUINQUEDENS — 196006 — AREA- NORTH ATLANTIC — SITE- D2 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	5	MEAN	0.274	S. D.	0.040	LOW	0.238	HIGH	0.344					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0005	0000
MEAN	0.151	0.479	0.114	11.857	2.268	0.194	0.252	6.028	32.40	0.451	0.190	0.000	0.454	0.000	0.778
S. D.	0.032	0.113	0.023	3.148	0.353	0.054	0.155	2.763	4.48	0.065	0.000	0.000	0.106	0.000	0.228
LOW	0.100	0.380	0.080	9.175	1.710	0.100	0.130	1.910	27.50	0.380	0.000	0.000	0.360	0.000	0.470
HIGH	0.180	0.630	0.135	16.550	2.650	0.230	0.500	9.380	39.06	0.540	0.190	0.000	0.600	0.000	1.090

CRAB, RED, DEEP SEA — GERYON QUINQUEDENS — 196006 — AREA- NORTH ATLANTIC — SITE- D4 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0019	0020	0020	0020	0019	0019	0020	0020	0019	0020	0020	0020	0020	0020
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0010	0006	0000	0017	0000
MEAN	0.187	0.595	0.146	9.635	1.615	0.171	0.191	6.502	27.50	0.523	0.204	0.276	0.392	0.260	0.702
S. D.	0.088	0.154	0.039	5.070	0.731	0.092	0.086	5.331	7.64	0.227	0.062	0.126	0.223	0.046	0.153
LOW	0.040	0.315	0.100	2.650	0.750	0.050	0.060	1.060	11.44	0.280	0.130	0.100	0.180	0.220	0.410
HIGH	0.300	0.880	0.260	21.750	3.800	0.470	0.425	25.000	40.63	1.130	0.340	0.600	1.185	0.310	0.940

CRAB, DUNGENESS — CANCER MAGISTER — 196011 — AREA- CALIFORNIA — SITE- B2 — MEAT

LENGTH	NUM	10	MEAN	0.190	S. D.	0.000	LOW	0.190	HIGH	0.190					
WEIGHT	NUM	10	MEAN	0.980	S. D.	0.000	LOW	0.980	HIGH	0.980					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0005	0000	0000	0000
MEAN	0.094	0.588	0.098	3.123	0.460	0.126	0.172	8.391	39.31	0.273	0.199	0.730	1.030	0.878	1.089
S. D.	0.036	0.236	0.022	1.715	0.228	0.025	0.060	2.730	14.92	0.039	0.095	0.561	0.327	0.253	0.280
LOW	0.040	0.190	0.070	1.387	0.050	0.070	0.060	4.620	17.88	0.190	0.120	0.090	0.530	0.360	0.560
HIGH	0.160	0.940	0.130	6.775	0.745	0.155	0.250	14.380	71.88	0.320	0.380	1.380	1.510	1.220	1.500

CRAB, DUNGENESS — CANCER MAGISTER — 196011 — AREA- PACIFIC NORTHWEST — SITE- I7 — CLAW & BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0008	0008	0006	0007	0007	0008	0008	0008	0007	0008	0008	0008	0008	0007
N DET.	0000	0000	0002	0000	0000	0000	0000	0000	0000	0001	0003	0004	0000	0003	0000
MEAN	0.111	0.750	0.114	6.514	0.931	0.421	0.231	12.852	33.88	0.394	0.126	0.276	1.125	0.902	0.723
S. D.	0.017	0.398	0.068	2.561	0.170	0.076	0.127	2.402	8.47	0.089	0.060	0.150	0.252	0.325	0.363
LOW	0.080	0.100	0.040	4.560	0.590	0.345	0.050	8.680	25.36	0.280	0.070	0.130	0.710	0.480	0.100
HIGH	0.140	1.500	0.210	11.500	1.090	0.540	0.393	15.710	51.73	0.535	0.220	0.475	1.390	1.296	1.150

CRAB, DUNGENESS — CANCER MAGISTER — 196011 — AREA- PACIFIC NORTHWEST — SITE- M5 — MEAT

LENGTH	NUM	3	MEAN	0.133	S. D.	0.000	LOW	0.133	HIGH	0.133					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0020	0020	0020	0017	0016	0020	0020	0020	0018	0020	0020	0020	0020	0020	0020
N DET.	0000	0000	0000	0000	0000	0002	0002	0000	0000	0001	0011	0012	0000	0004	0000
MEAN	0.282	0.745	0.137	6.776	0.571	0.125	0.230	5.576	52.03	0.710	0.294	0.471	0.688	1.070	0.797
S. D.	0.076	0.282	0.052	4.724	0.201	0.055	0.105	1.549	9.16	0.409	0.257	0.202	0.675	0.597	0.387
LOW	0.170	0.355	0.065	1.847	0.290	0.040	0.100	2.480	33.28	0.150	0.060	0.150	0.110	0.300	0.350
HIGH	0.475	1.375	0.245	21.140	0.960	0.270	0.440	9.110	66.60	1.780	0.870	0.870	2.450	2.530	1.500

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES;
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CRAB, DUNGENESS — CANCER MAGISTER — 196011 — AREA- PACIFIC NORTHWEST — SITE- N1 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0001	0000	0000	0000	0000	0000	0000	0000	0001	0002	0002	0000	0000	0000
MEAN	0.375	0.150	0.175	4.682	1.260	0.325	0.135	5.815	48.96	0.240	0.000	0.000	0.780	1.030	1.125
S. D.	0.064	0.000	0.035	3.208	0.467	0.163	0.078	0.686	14.57	0.000	0.000	0.000	0.156	0.113	0.177
LOW	0.330	0.000	0.150	2.413	0.930	0.210	0.080	5.330	38.65	0.000	0.000	0.000	0.670	0.950	1.000
HIGH	0.420	0.150	0.200	6.950	1.590	0.440	0.190	6.300	59.26	0.240	0.000	0.000	0.890	1.110	1.250

CRAB, DUNGENESS — CANCER MAGISTER — 196011 — AREA- ALASKA — SITE- O8 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0009	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0005	0000	0000	0000
MEAN	0.052	0.553	0.098	5.640	0.649	0.202	0.136	4.357	54.61	0.365	0.170	0.264	0.241	0.980	0.692
S. D.	0.028	0.162	0.023	2.151	0.175	0.059	0.050	1.439	11.74	0.063	0.156	0.115	0.067	0.228	0.238
LOW	0.020	0.345	0.060	3.600	0.430	0.110	0.060	1.680	41.41	0.250	0.060	0.120	0.130	0.720	0.340
HIGH	0.110	0.880	0.140	8.562	0.920	0.320	0.195	7.060	78.12	0.450	0.280	0.380	0.350	1.530	1.140

CRAB, KING — PARALITHODES CAMSCHATICA — 196012 — AREA- ALASKA — SITE- L4 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0003	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0003	0000	0000	0000
MEAN	0.038	0.825	0.226	4.330	0.399	0.095	0.280	14.370	57.45	0.408	0.188	0.450	0.429	1.413	1.677
S. D.	0.012	0.344	0.068	0.935	0.116	0.038	0.123	7.371	31.82	0.159	0.071	0.204	0.122	0.368	0.572
LOW	0.020	0.060	0.160	2.330	0.215	0.060	0.060	5.905	27.50	0.080	0.090	0.190	0.190	0.940	0.640
HIGH	0.050	1.315	0.380	5.386	0.570	0.160	0.500	25.310	118.70	0.655	0.340	0.690	0.650	2.250	2.630

CRAB, KING — PARALITHODES CAMSCHATICA — 196012 — AREA- ALASKA — SITE- N6 — CLAW & BODY MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0008	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009
N DET.	0000	0000	0000	0000	0000	0000	0001	0000	0000	0000	0006	0006	0000	0000	0000
MEAN	0.128	0.461	0.242	5.771	0.443	0.052	0.114	6.116	65.91	0.309	0.123	0.227	0.372	0.803	0.785
S. D.	0.070	0.125	0.045	2.731	0.116	0.009	0.046	1.867	27.67	0.068	0.058	0.119	0.103	0.112	0.237
LOW	0.050	0.375	0.175	3.225	0.340	0.040	0.060	4.380	39.69	0.190	0.090	0.130	0.190	0.643	0.400
HIGH	0.240	0.750	0.310	11.000	0.730	0.065	0.190	9.560	128.12	0.410	0.190	0.360	0.516	1.060	1.160

CRAB, KING — PARALITHODES CAMSCHATICA — 196012 — AREA- ALASKA — SITE- P3 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0002	0004	0000	0000	0000
MEAN	0.108	0.586	0.157	4.528	0.368	0.095	0.268	6.988	55.64	0.287	0.153	0.355	0.226	0.872	1.328
S. D.	0.018	0.209	0.065	1.463	0.191	0.037	0.146	2.617	25.40	0.110	0.050	0.311	0.035	0.209	0.266
LOW	0.080	0.250	0.010	2.475	0.100	0.040	0.105	3.380	30.63	0.110	0.090	0.060	0.175	0.535	0.940
HIGH	0.130	0.845	0.270	6.573	0.650	0.165	0.560	11.880	108.70	0.500	0.250	0.810	0.285	1.130	1.625

CRAB, TANNER (BAIRDI) — CHIONECETES BAIRDI — 196035 — AREA- ALASKA — SITE- H7 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0008
N DET.	0000	0000	0000	0000	0000	0003	0001	0000	0000	0000	0009	0010	0000	0000	0000
MEAN	0.190	0.361	0.299	20.912	0.889	0.039	0.203	2.621	34.32	0.168	0.240	0.000	0.306	0.668	0.671
S. D.	0.117	0.098	0.079	11.727	0.223	0.012	0.149	0.564	6.94	0.047	0.000	0.000	0.060	0.161	0.170
LOW	0.060	0.210	0.240	10.625	0.520	0.030	0.060	1.440	19.38	0.100	0.000	0.000	0.210	0.470	0.380
HIGH	0.380	0.440	0.500	41.250	1.260	0.060	0.500	3.260	42.50	0.220	0.240	0.000	0.380	0.940	0.880

CRAB, TANNER (BAIRDI) — CHIONECETES BAIRDI — 196035 — AREA- ALASKA — SITE- K3 — MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0007	0005	0000	0000	0000
MEAN	0.055	0.462	0.155	7.204	0.787	0.122	0.123	6.622	30.12	0.269	0.093	0.284	0.557	0.694	0.704
S. D.	0.041	0.094	0.029	2.190	0.197	0.034	0.062	1.337	2.86	0.063	0.058	0.179	0.126	0.125	0.151
LOW	0.020	0.345	0.105	3.820	0.480	0.080	0.060	4.850	25.63	0.190	0.060	0.190	0.320	0.610	0.460
HIGH	0.150	0.630	0.203	10.040	1.090	0.200	0.250	8.940	35.00	0.390	0.160	0.600	0.765	1.000	0.940

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

CRAB, TANNER (BAIRDI) CHIONECETES BAIRDI 196035 AREA- ALASKA SITE- D4 MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0007	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0007
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0005	0000	0000	0000
MEAN	0.208	0.477	0.271	8.585	0.619	0.184	0.168	8.290	39.14	0.317	0.170	0.314	0.527	0.931	0.906
S. D.	0.084	0.193	0.093	4.847	0.216	0.061	0.111	6.862	2.76	0.122	0.014	0.097	0.416	0.303	0.278
LOW	0.100	0.280	0.140	3.333	0.265	0.090	0.060	3.285	33.75	0.170	0.160	0.190	0.190	0.560	0.630
HIGH	0.320	0.790	0.420	19.900	0.800	0.310	0.440	25.000	43.59	0.565	0.180	0.440	1.460	1.500	1.310

CRAB, TANNER (BAIRDI) CHIONECETES BAIRDI 196035 AREA- ALASKA SITE- D7 MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0000	0000	0000	0000	0000	0008	0008	0000	0000	0000
MEAN	0.152	0.475	0.230	5.484	0.419	0.180	0.149	4.160	32.82	0.365	0.130	0.250	0.186	1.036	0.546
S. D.	0.122	0.177	0.061	2.123	0.154	0.069	0.072	1.174	7.06	0.161	0.000	0.085	0.043	0.253	0.104
LOW	0.020	0.310	0.150	2.825	0.190	0.090	0.060	2.160	16.88	0.130	0.130	0.190	0.110	0.630	0.310
HIGH	0.270	0.880	0.320	10.150	0.710	0.340	0.320	6.520	43.75	0.650	0.130	0.310	0.240	1.560	0.660

CRAB, TANNER (BAIRDI) CHIONECETES BAIRDI 196035 AREA- ALASKA SITE- Q5 MEAT

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM.	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0008	0010	0010	0010	0010	0008	0010	0010	0010	0010	0010	0010	0009	0008
N DET.	0003	0000	0000	0000	0000	0001	0001	0000	0000	0000	0010	0009	0000	0000	0000
MEAN	0.126	0.481	0.140	9.078	0.705	0.042	0.114	1.557	24.83	0.136	0.000	0.430	0.227	0.501	0.619
S. D.	0.103	0.216	0.029	5.212	0.278	0.019	0.046	0.220	6.76	0.048	0.000	0.000	0.071	0.169	0.236
LOW	0.020	0.250	0.090	3.100	0.330	0.010	0.060	1.210	12.06	0.060	0.000	0.000	0.140	0.190	0.380
HIGH	0.290	0.810	0.190	16.950	1.170	0.070	0.190	2.000	35.94	0.200	0.000	0.430	0.340	0.830	1.130

LADYFISH ELOPS SAURUS 200002 AREA- GULF SITE- D5 MUSCLE

LENGTH	NUM	2	MEAN	0.406	S. D.	0.000	LOW	0.406	HIGH	0.406					
WEIGHT	NUM	2	MEAN	0.908	S. D.	0.000	LOW	0.908	HIGH	0.908					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0001	0001	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0001	0000	0000	0001	0000	0000	0000	0000	0002	0002	0000	0000	0000
MEAN	1.180	0.330	0.160	8.666	0.993	0.035	0.433	0.644	13.98	0.632	0.000	0.000	0.225	0.323	0.252
S. D.	0.339	0.255	0.000	0.000	0.000	0.000	0.067	0.221	8.99	0.054	0.000	0.000	0.035	0.103	0.059
LOW	0.940	0.150	0.000	0.000	0.000	0.000	0.385	0.487	7.62	0.593	0.000	0.000	0.200	0.250	0.210
HIGH	1.420	0.510	0.160	8.666	0.993	0.035	0.480	0.800	20.33	0.670	0.000	0.000	0.250	0.396	0.293

TARPON MEGALOPS ATLANTICA 200003 AREA- GULF SITE- L5 MUSCLE

LENGTH	NUM	3	MEAN	1.441	S. D.	0.201	LOW	1.250	HIGH	1.650					
WEIGHT	NUM	3	MEAN	26.502	S. D.	8.687	LOW	16.500	HIGH	32.163					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003	0003
N DET.	0000	0000	0001	0000	0000	0003	0000	0000	0000	0000	0003	0002	0000	0001	0000
MEAN	1.533	0.449	0.095	11.423	0.507	0.000	0.236	0.380	12.79	0.293	0.000	0.450	0.165	0.445	0.530
S. D.	0.480	0.128	0.035	6.197	0.307	0.000	0.135	0.147	3.37	0.161	0.000	0.000	0.074	0.346	0.108
LOW	0.980	0.303	0.070	6.270	0.180	0.000	0.092	0.210	9.10	0.110	0.000	0.000	0.085	0.200	0.440
HIGH	1.840	0.543	0.120	18.300	0.790	0.000	0.360	0.470	15.71	0.410	0.000	0.450	0.230	0.690	0.650

TARPON MEGALOPS ATLANTICA 200003 AREA- GULF SITE- L5 LIVER

LENGTH	NUM	2	MEAN	1.535	S. D.	0.163	LOW	1.420	HIGH	1.650					
WEIGHT	NUM	2	MEAN	31.504	S. D.	0.933	LOW	30.844	HIGH	32.163					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002	0002
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0001	0000	0000	0001	0000
MEAN	12.950	0.620	8.675	26.698	3.815	0.360	0.275	64.405	165.25	2.060	0.310	1.205	0.790	0.690	0.725
S. D.	9.263	0.170	9.412	25.353	1.237	0.438	0.035	19.848	113.22	0.000	0.000	0.559	0.226	0.000	0.035
LOW	6.400	0.500	2.020	8.770	2.940	0.050	0.250	50.370	85.19	0.000	0.000	0.810	0.630	0.000	0.700
HIGH	19.500	0.740	15.330	44.625	4.690	0.670	0.300	78.440	245.31	2.060	0.310	1.600	0.950	0.690	0.750

TARPON MEGALOPS ATLANTICA 200003 AREA- GULF SITE- L9 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0009	0008	0009
N DET.	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0006	0005	0000	0001	0000
MEAN	0.930	0.559	0.079	29.336	0.618	0.025	0.246	0.237	7.80	0.204	0.147	0.305	0.097	0.875	0.545
S. D.	0.183	0.271	0.048	25.596	0.388	0.011	0.151	0.142	2.11	0.057	0.075	0.103	0.026	0.205	0.157
LOW	0.640	0.250	0.030	5.100	0.180	0.010	0.090	0.060	3.94	0.140	0.060	0.190	0.060	0.500	0.340
HIGH	1.150	1.060	0.190	73.375	1.295	0.040	0.585	0.500	11.06	0.310	0.190	0.440	0.130	1.095	0.870

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS
IN RESOURCE SURVEY SPECIES:
BY TISSUE AND LOCATION

LOCATION LEVEL 5

OCTOPUS (MARMURATUS) POLYPUS MARMURATUS 205001 AREA- HAWAII SITE- D6 WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	4	MEAN	0.929	S. D.	0.122	LOW	0.765	HIGH	1.021					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0003
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	0000
MEAN	0.023	0.645	0.688	16.563	0.716	0.381	0.119	15.903	14.53	0.463	0.226	0.135	0.444	1.010	0.888
S. D.	0.006	0.072	0.392	9.721	0.330	0.249	0.013	3.307	3.26	0.124	0.083	0.070	0.131	0.153	0.173
LOW	0.020	0.595	0.250	3.276	0.350	0.210	0.105	11.000	11.62	0.365	0.145	0.060	0.365	0.905	0.720
HIGH	0.030	0.750	1.200	26.500	1.075	0.750	0.130	18.210	18.93	0.640	0.340	0.200	0.640	1.185	1.065

OCTOPUS (MARMURATUS) POLYPUS MARMURATUS 205001 AREA- HAWAII SITE- D6 MANTLE, SKINLESS

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	35	MEAN	2.094	S. D.	0.574	LOW	1.362	HIGH	3.260					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0036	0035	0035	0034	0036	0036	0036	0036	0035	0036	0036	0036	0035	0036	0034
N DET.	0017	0000	0000	0000	0000	0000	0001	0000	0000	0000	0029	0031	0000	0004	0000
MEAN	0.058	0.604	0.308	17.195	0.403	0.154	0.166	9.051	14.01	0.340	0.564	0.592	0.282	0.898	0.851
S. D.	0.056	0.418	0.504	10.270	0.242	0.235	0.093	14.335	4.54	0.205	0.347	0.204	0.142	0.295	0.373
LOW	0.020	0.130	0.030	1.540	0.030	0.030	0.030	0.210	5.60	0.130	0.130	0.330	0.140	0.250	0.440
HIGH	0.250	2.100	1.810	38.250	1.000	0.980	0.380	78.130	34.38	1.170	1.060	0.810	0.690	1.630	2.000

MILKFISH CHANOS CHANOS 206001 AREA- HAWAII SITE- D6 MUSCLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	40	MEAN	6.345	S. D.	1.694	LOW	2.722	HIGH	13.608					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0040	0040	0040	0040	0040	0040	0040	0040	0039	0040	0040	0040	0040	0039	0038
N DET.	0014	0001	0003	0000	0000	0016	0001	0000	0000	0001	0036	0033	0000	0004	0000
MEAN	0.071	0.487	0.069	2.942	0.564	0.029	0.197	0.334	8.17	0.172	0.424	0.226	0.153	0.615	0.737
S. D.	0.050	0.307	0.024	1.522	0.271	0.009	0.141	0.145	2.55	0.060	0.467	0.096	0.035	0.256	1.390
LOW	0.020	0.120	0.030	0.350	0.060	0.010	0.060	0.070	0.44	0.070	0.130	0.120	0.090	0.050	0.160
HIGH	0.200	1.630	0.140	6.635	1.190	0.040	0.565	0.750	14.28	0.375	1.120	0.370	0.250	1.370	9.000

CLAM, SOFT MYA ARENARIA 242001 AREA- NORTH ATLANTIC SITE- M8 SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0019	0019	0019	0019	0019	0018	0019	0019	0019	0019	0019	0019	0019	0019
N DET.	0011	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0019	0000
MEAN	0.086	0.590	0.226	2.015	0.895	0.053	0.265	4.227	15.36	0.560	0.280	0.454	6.448	0.000	0.519
S. D.	0.116	0.158	0.033	1.245	0.322	0.032	0.074	1.071	1.60	0.128	0.083	0.131	1.520	0.000	0.118
LOW	0.020	0.370	0.180	0.430	0.130	0.020	0.130	2.393	10.92	0.410	0.120	0.250	4.190	0.000	0.280
HIGH	0.360	0.940	0.290	5.000	1.800	0.140	0.405	5.875	17.50	0.880	0.410	0.750	9.250	0.000	0.705

CLAM, RAZOR SILIQUA PATULA 243002 AREA- PACIFIC NORTHWEST SITE- M2 SHUCKED

LENGTH	NUM	10	MEAN	0.076	S. D.	0.000	LOW	0.076	HIGH	0.076					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0010	0010	0010	0010	0010	0009	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0000	0000	0000	0004	0000	0000	0000	0001	0006	0002	0000	0002	0000
MEAN	0.042	0.530	0.094	2.027	0.536	0.050	0.240	0.552	20.07	0.511	0.298	0.343	2.533	0.876	1.486
S. D.	0.033	0.314	0.041	1.052	0.279	0.015	0.085	0.111	4.85	0.174	0.382	0.125	0.988	0.333	0.703
LOW	0.020	0.190	0.040	0.383	0.235	0.030	0.140	0.410	13.75	0.300	0.080	0.120	0.990	0.360	0.965
HIGH	0.100	1.085	0.180	4.350	1.260	0.070	0.390	0.695	26.92	0.750	0.870	0.490	3.890	1.365	3.310

CLAM, RAZOR SILIQUA PATULA 243002 AREA- PACIFIC NORTHWEST SITE- M6 SHUCKED

LENGTH	NUM	10	MEAN	0.089	S. D.	0.000	LOW	0.089	HIGH	0.089					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0010	0010	0010	0009	0009	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
N DET.	0005	0000	0002	0000	0000	0003	0000	0000	0000	0001	0007	0000	0000	0004	0000
MEAN	0.046	0.529	0.120	4.038	0.432	0.055	0.262	1.035	11.06	0.554	0.410	0.709	2.808	0.976	1.326
S. D.	0.042	0.285	0.071	1.885	0.099	0.026	0.137	0.148	1.95	0.162	0.404	0.248	0.578	0.368	1.036
LOW	0.020	0.250	0.030	1.600	0.225	0.030	0.106	0.860	8.57	0.360	0.110	0.295	2.125	0.450	0.453
HIGH	0.120	1.186	0.250	7.016	0.530	0.090	0.540	1.370	15.71	0.890	0.870	1.015	3.790	1.500	3.750

CLAM, RAZOR SILIQUA PATULA 243002 AREA- ALASKA SITE- H7 SHUCKED

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0009
N DET.	0008	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0000	0000	0000	0000
MEAN	0.083	0.767	0.165	2.349	0.449	0.103	0.400	0.896	11.05	0.469	0.181	0.950	2.409	1.125	2.091
S. D.	0.057	0.215	0.042	0.743	0.151	0.036	0.181	0.346	2.07	0.103	0.081	0.430	1.362	0.272	1.220
LOW	0.020	0.440	0.090	1.400	0.230	0.055	0.210	0.495	8.81	0.350	0.060	0.310	0.855	0.750	0.250
HIGH	0.130	1.120	0.240	4.247	0.720	0.160	0.750	1.370	15.00	0.710	0.310	1.780	5.985	1.690	3.875

TABLE 5. SUMMARY OF TRACE ELEMENT LEVELS IN RESOURCE SURVEY SPECIES; BY TISSUE AND LOCATION

REPORT MF17

LOCATION LEVEL 5

CLAM, RAZOR — SILIQUA PATULA — 243002 — AREA- ALASKA — SITE- U8 — SHUCKED

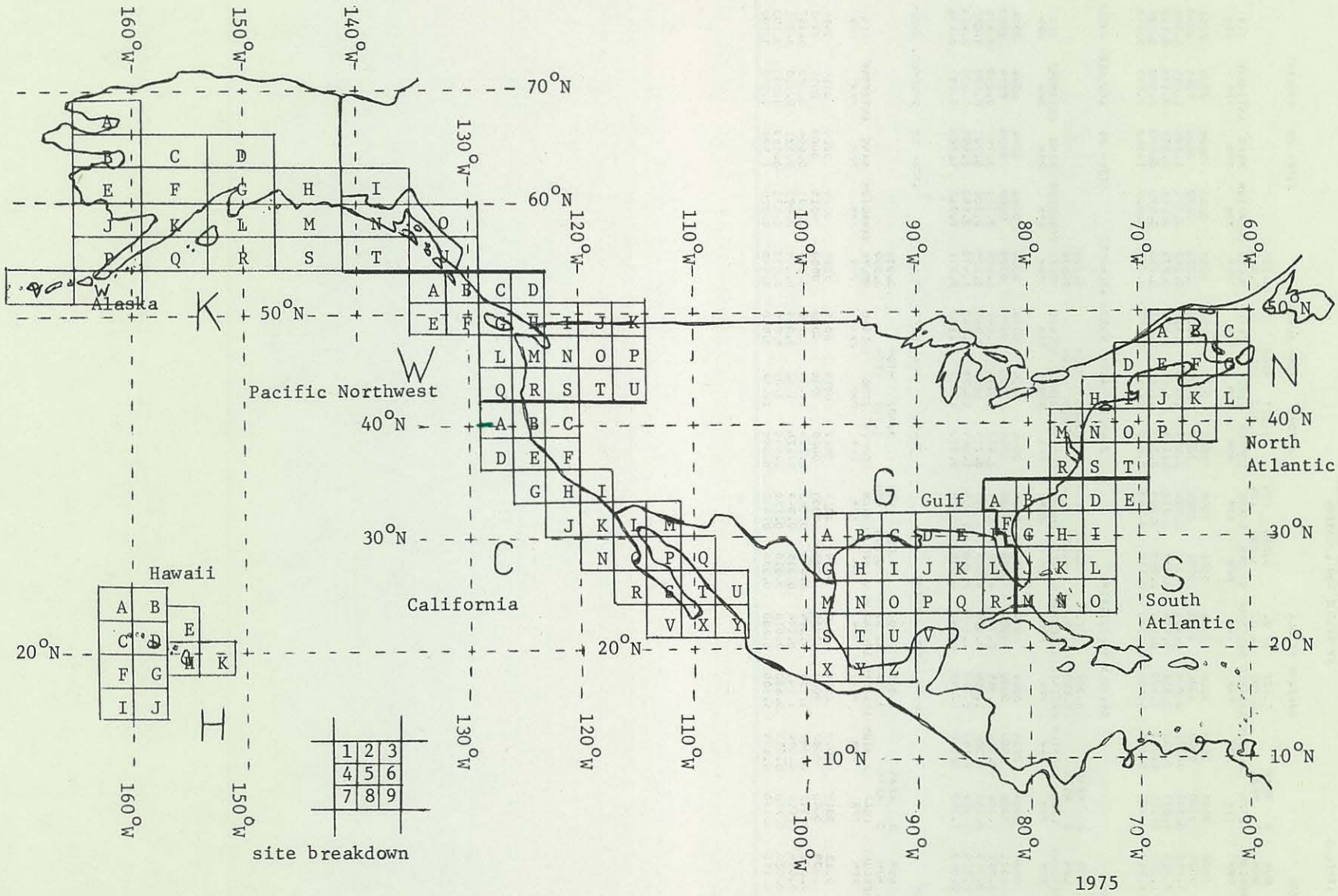
LENGTH	NUM	8	MEAN	0.127	S. D.	0.000	LOW	0.127	HIGH	0.127					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0008	0007	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008	0008
N DET.	0004	0000	0000	0000	0000	0001	0000	0000	0000	0000	0003	0000	0000	0001	0000
MEAN	0.035	0.335	0.102	2.806	0.353	0.072	0.286	0.459	15.90	0.416	0.240	0.381	1.305	1.095	0.599
S. D.	0.013	0.077	0.042	1.311	0.156	0.028	0.212	0.113	4.05	0.185	0.273	0.198	0.293	0.535	0.215
LOW	0.020	0.210	0.040	0.970	0.140	0.040	0.060	0.320	11.82	0.195	0.060	0.090	0.890	0.500	0.300
HIGH	0.050	0.405	0.170	4.400	0.500	0.110	0.760	0.670	24.64	0.790	0.720	0.680	1.660	2.000	0.940

CLAM, SURF — SPISULA SOLIDISSIMA — 244005 — AREA- NORTH ATLANTIC — SITE- H9 — SHUCKED, WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004	0004
N DET.	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0004	0000
MEAN	0.037	1.096	0.110	3.963	0.705	0.088	0.641	2.457	16.44	1.091	0.625	0.721	3.762	0.000	0.474
S. D.	0.015	0.158	0.008	1.609	0.027	0.005	0.095	0.759	1.62	0.069	0.135	0.206	0.702	0.000	0.052
LOW	0.020	0.875	0.100	2.200	0.676	0.080	0.505	1.565	15.27	1.040	0.470	0.550	2.990	0.000	0.410
HIGH	0.050	1.250	0.120	6.090	0.740	0.090	0.720	3.310	18.75	1.190	0.775	1.000	4.380	0.000	0.530

CLAM, SURF — SPISULA SOLIDISSIMA — 244005 — AREA- NORTH ATLANTIC — SITE- R3 — SHUCKED, WHOLE

LENGTH	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
WEIGHT	NUM	0	MEAN	0.000	S. D.	0.000	LOW	0.000	HIGH	0.000					
	MERCURY PPM	LEAD PPM	CADMIUM PPM	ARSENIC PPM	SELENIUM PPM	SILVER PPM	CHROM PPM	COPPER PPM	ZINC PPM	NICKEL PPM	MOLYB PPM	VANADIUM PPM	MANG PPM	ANTIMONY PPM	TIN PPM
NUMBER	0019	0018	0019	0019	0019	0019	0019	0019	0019	0019	0019	0019	0019	0019	0019
N DET.	0009	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0015	0000	0019	0000
MEAN	0.070	0.398	0.099	1.758	0.324	0.043	0.262	0.285	11.97	0.392	0.255	0.193	0.604	0.000	0.387
S. D.	0.039	0.156	0.094	1.147	0.174	0.015	0.099	0.126	1.66	0.065	0.075	0.021	0.321	0.000	0.091
LOW	0.020	0.190	0.050	0.680	0.010	0.010	0.120	0.090	9.00	0.270	0.130	0.170	0.180	0.000	0.190
HIGH	0.150	0.750	0.475	5.500	0.680	0.080	0.440	0.660	14.56	0.510	0.440	0.220	1.585	0.000	0.500



Appendix Figure 1.—Map of Microconstituent Data Bank areas and site.

NOAA FORM 88T
(10–72)

DOC – NOAA – NMFS
FISH DATA LABEL

(Do not use ink; use a soft lead pencil)

DATE OF SAMPLING

COLLECTOR'S SAMPLE #	TISSUE

COMMON NAME

SCIENTIFIC NAME

YEAR CLASS	WEIGHT (specify #, oz, g)

SEX	DEPTH (f)	LENGTH (mm)

LOCATION (Long.) (Lat.) (Other)

BOAT	CAPTAIN

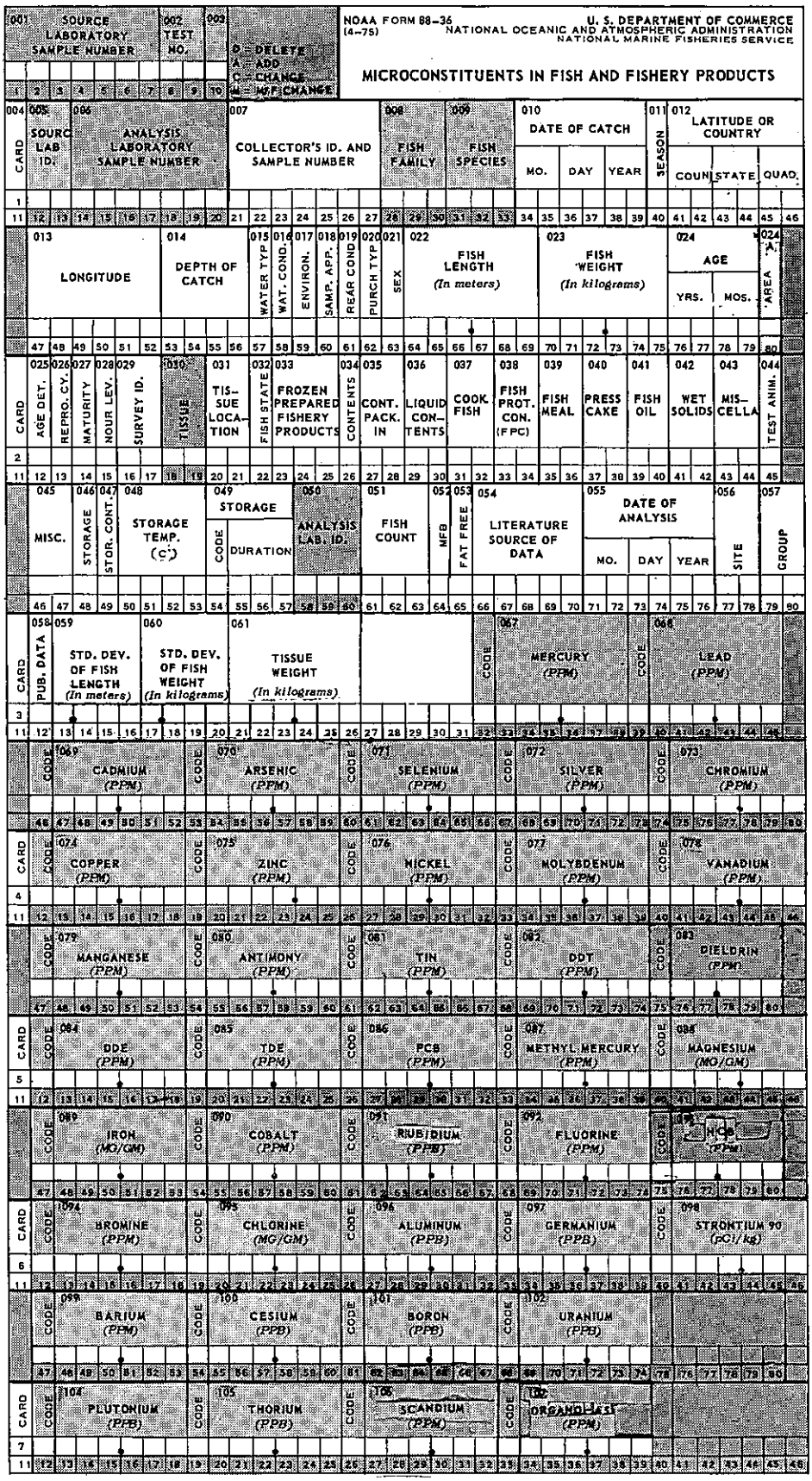
COLLECTOR

BUSINESS ADDRESS OF COLLECTOR

REMARKS

OTHER PERTINENT INFORMATION WILL BE WELCOMED.

Appendix Figure 2.—Fish data label.



Appendix Figure 3.—Coding Form
NOAA 88-36.

Appendix Table 1.—National Marine Fisheries Services' laboratories and agents supplying and preparing samples for the Resource Survey.

Laboratories responsible for collection and preparation:	
SEFC	College Park, Md.
NWAFC	Seattle, Wash.
Laboratories responsible for and assisting in collection:	
NEFC	Woods Holde, Mass.
NEFC	Gloucester, Mass.
NEFC	Narragansett, R.I.
NEFC	Milford, Conn.
NEFC	Sandy Hook, N.J.
NEFC	Oxford, Md.
SEFC	Beaufort, N.C.
SEFC	Brunswick, Ga.
SEFC	Miami, Fla.
SEFC	St. Petersburg, Fla.
SEFC	Panama City, Fla.
SEFC	Pascagoula, Miss.
SEFC	Galveston, Tex.
SEFC	Port Aransas, Tex.
SWFC	LaJolla, Calif.
SWFC	Tiberon, Calif.
SWFC	Honolulu, Hawaii
NWAFC	Seattle, Wash.
NWAFC	Auke Bay, Alas.

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672. Seasonal occurrence of young Guld menhaden and other fishes in a northwestern Florida estuary. By Marlin E. Tagatz and E. Peter H. Wilkins. August 1973, iii + 14 p., 1 fig., 4 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

673. Abundance and distribution of inshore benthic fauna off southwestern Long Island, N.Y. By Frank W. Steimle, Jr. and Richard B. Stone. December 1973, iii + 50 p., 2 figs., 5 app. tables.

674. Lake Erie bottom trawl explorations, 1962-66. By Edgar W. Bowman. January 1974, iv + 21 p., 9 figs., 1 table, 7 app. tables.

675. Proceedings of the International Billfish Symposium, Kailua-Kona, Hawaii, 9-12 August 1972. Part 1. Report of the Symposium. March 1975, iii + 33 p.; Part 2. Review and contributed papers. July 1974, iv + 355 p. (38 papers); Part 3. Species synopses. June 1975, iii + 159 p. (8 papers). Richard S. Shomura and Francis Williams (editors). For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

676. Price spreads and cost analyses for finfish and shellfish products at different marketing levels. By Erwin S. Penn. March 1974, vi + 74 p., 15 figs., 12 tables, 12 app. figs., 14 app. tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

677. Abundance of benthic macroinvertebrates in natural and altered estuarine areas. By Gill Gilmore and Lee Trent. April 1974, iii + 13 p., 11 figs., 3 tables, 2 app. tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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679. Kinds and abundance of zooplankton collected by the USCG icebreaker *Glacier* in the eastern Chukchi Sea, September-October 1970. By Bruce L. Wing. August 1974, iv + 18 p., 14 figs., 6 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

680. Pelagic amphipod crustaceans from the southeastern Bering Sea, June 1971. By Gerald A. Sanger. July 1974, iii + 8 p., 3 figs., 3 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

681. Physiological response of the cunner, *Tautogolabrus adspersus*, to cadmium. October 1974, iv + 33 p., 6 papers, various authors. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

682. Heat exchange between ocean and atmosphere in the eastern North Pacific for 1961-71. By N. E. Clark, L. Eber, R. M. Laurs, J. A. Renner, and J. F. T. Saur. December 1974, iii + 108 p., 2 figs., 1 table, 5 plates.

683. Bioeconomic relationships for the Maine lobster fishery with consideration of alternative management schemes. By Robert L. Dow, Frederick W. Bell, and Donald M. Harriman. March 1975, v + 44 p., 20 figs., 25 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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687. Annotated bibliography on the biology of the menhadens, Genus *Brevoortia*, 1963-1973. By John W. Reintjes and Peggy M. Keney. April 1975, 92 p. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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689. Ocean distribution of stocks of Pacific salmon, *Oncorhynchus* spp., and steelhead trout, *Salmo gairdnerii*, as shown by tagging experiments. Charts of tag recoveries by Canada, Japan, and the United States, 1956-69. By Robert R. French, Richard G. Bakkala, and Doyle F. Sutherland. June 1975, viii + 89 p., 117 figs., 2 tables. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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