

RESEARCH TECHNICAL FINAL REPORT

**LA QUINTA CHANNEL ENVIRONMENTAL
MONITORING PROJECT: BENTHIC DIVERSITY**

Paul A. Montagna, Principal Investigator
and
Christopher Martin

Technical Report Number TR/94-003

THE MARINE SCIENCE LIBRARY
Marine Science Institute
The University of Texas at Austin
P.O. Box 1207
Port Aransas, Texas 78383-1207

RESEARCH TECHNICAL FINAL REPORT

**LA QUINTA CHANNEL ENVIRONMENTAL MONITORING
PROJECT**

BENTHIC DIVERSITY

TO

MR. RAY ALLEN
COASTAL BEND BAYS FOUNDATION, INC.
P.O. Box 23025
CORPUS CHRISTI, TEXAS 78403-3025

BY

PAUL A. MONTAGNA, PH.D.
Principal Investigator
Assistant Professor, Research Scientist

and

CHRISTOPHER MARTIN
Research Scientist Assistant

THE UNIVERSITY OF TEXAS AT AUSTIN
MARINE SCIENCE INSTITUTE
P.O. Box 1267
PORT ARANSAS, TEXAS 78373

University of Texas Marine Science Institute Technical Report Number
TR/94-003

March, 1994

La Quinta Channel Environmental Monitoring Project - Benthic Diversity

TABLE OF CONTENTS

LIST OF FIGURES	ii
LIST OF TABLES	iii
LIST OF APPENDICES	iv
ABSTRACT	1
INTRODUCTION	2
Background	2
Use of Benthic Biodiversity in Applied Studies	2
METHODS	3
Sampling Design and Study Sites	3
Hydrography	6
Sediment	6
Benthic Abundance	6
Benthic Biomass	7
Statistical Analyses	8
Diversity Analyses	8
RESULTS	10
Hydrography	10
Sediment	10
Benthic Abundance	10
Benthic Biomass	11
Benthic Diversity	18
DISCUSSION	25
ACKNOWLEDGEMENTS	30
REFERENCES	31

LIST OF FIGURES

Fig. 1. Map of Corpus Christi Bay	4
Fig. 2. Map of La Quinta Channel	5
Fig. 3. Sediment composition	13
Fig. 4. Vertical distribution of macrofauna density	14
Fig. 5. Mean total of macrofauna density	15
Fig. 6. Vertical distribution of macrofauna biomass	16
Fig. 7. Mean total of macrofauna biomass	17
Fig. 8. Macrofauna diversity	21
Fig. 9. Species dominance curves for macrofauna density	22
Fig. 10. Principal factors analysis	23
Fig. 11. Tree diagram of a cluster analysis.	24

LIST OF TABLES

Table 1. Vertical distribution of macrofauna taxa	34
Table 2: Bay-wide taxa dominance of macrofauna taxa. Mean biomass ($\text{g}\cdot\text{m}^{-2}$) to a depth of 10 cm	36
Table 3: Biomass dominance of taxa at stations to a depth of 10 cm	37
Table 4: Bay-wide taxa dominance. Mean $\text{n}\cdot\text{m}^{-2}$ to a depth of 10 cm	39
Table 5: Abundance dominance of taxa at stations based on mean $\text{n}\cdot\text{m}^{-2}$ to a depth of 10 cm	40
Table 6: Average diversity indices in La Quinta Channel and Corpus Christi Bay	42
Table 7: La Quinta Channel species list	43
Table 8: Corpus Christi Bay species list	50
Table 9. Concentrations of trace metals in the sediment	57

LIST OF APPENDICES

Appendix I: Hydrographic measurements of La Quinta Channel.	58
Appendix II: Sediment grain analysis of La Quinta Channel	60
Appendix III: La Quinta Channel and Corpus Christi Bay species list	61
Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list	120

La Quinta Channel Environmental Monitoring Project - Benthic Diversity

ABSTRACT

Analysis of benthic invertebrate communities have been widely used in pollution detection and monitoring studies. The environment of concern is the La Quinta Channel, which is located in Corpus Christi Bay. La Quinta Channel serves several industrial plants and a naval station. Three stations were chosen in La Quinta Channel and three reference stations were chosen in Corpus Christi Bay. Benthic animals were collected, identified, enumerated, weighed to assess if La Quinta Channel was different from Corpus Christi Bay. The indicators were similar among all study sites, thus indicating a healthy environment in La Quinta Channel.

INTRODUCTION

Background

Man has had a negative effect on estuaries in a variety of ways. The obvious of which is chemical pollutants. The reduced current flow rates in estuaries causes settlement of sediments. Many chemical toxins and suspended wastes settle along with natural sedimentation. Accumulation of these toxins can have a devastating effect that can reach all the way up the food chain to man (Osborne and Grace, 1981).

The Coastal Bend Bays Foundation (CBBF) is a non-profit organization dedicated to the conservation and wise use of our natural resources, especially the bays and estuaries. The CBBF, in a cooperative effort with Occidental Chemical Co. and the Texas Natural Resource Conservation Commission (TNRCC), has initiated a project to perform an environmental assessment of the La Quinta Channel in Corpus Christi Bay, Texas.

There is a need to determine the health of this body of water and to determine the baseline data for an on-going monitoring program. This project could also serve as a model for future expansion of the program to include as many as 20 or more additional sites in future years.

Use of Benthic Biodiversity in Applied Studies

Analysis of benthic (i.e., bottom dwelling) invertebrate communities may be used for many different purposes. One such purpose is the detection of pollution and another is the estimation of overall anthropogenic effects on the environment (Oglesby, 1967). We expect indicator organisms to do for us today what canaries did for miners in the 18th and 19th centuries. Indicator organisms should have characteristics that make them useful in applied research (Soule, 1988). 1) They should direct our attention to qualities of the environment. 2) They should give us a sign that some characteristic is present. 3) They should express a generalization about the environment. 4) They should suggest a cause, outcome or remedy. 5) Finally, they should show a need for action.

Benthic species and communities, rather than fish or planktonic fauna, have often been regarded as being the best indicators of organic pollution (Wass, 1967; Flint, Kalke, and Rabalais, 1981). There are several reasons why these organisms are good indicators of environmental stress. 1) Because of gravity, everything ends up in bottom sediments. Even pollutants in freshwater will be transported to the coastal sea bottoms. 2) Everything dies and ends up in the detrital food chain, which is utilized by the benthos. Pollutants are usually tightly coupled to organic matrices, therefore benthos have great exposure through their niche (food) and habitat (living spaces) to pollutants. 3) Benthos are relatively long-lived and sessile, so they integrate pollutant effects of over long temporal and spatial scales. 4) Benthic invertebrates are sensitive to pollutants. 5) Bioturbation and irrigation of sediments by benthos effect the

mobilization and burial of xenobiotic materials. Because of these characteristics, benthos have been used widely in applied research.

There are also ecological models that provide a scientific basis for interpreting the data generated in benthic monitoring and detection studies. These approaches utilize many single species, community studies, and statistical models. One of the most important concepts is the succession model proposed by Rhoads *et al.* (1978). They applied scientific theories of ecological succession and its relation to productivity to suggest ways that dredge-spoil could be managed to enhance productivity. One important aspect of this theory is that normal sediments will have a diverse assemblage and deeper dwelling organisms than a polluted or disturbed environment. Thus, we have a scientific justification for biological diversity studies. Since this classic study, numerous other studies have demonstrated that benthic biological diversity is an excellent indicator of environmental health. The goal of the present study was to obtain data on benthic abundance, biomass, and community diversity to assist in assessing the environmental condition of the La Quinta Channel. The assessment is based on the applications of ecological principles.

METHODS

Sampling Design and Study Sites

The environment of concern is the La Quinta Channel, which is located in Corpus Christi Bay, Texas. The La Quinta Channel is a spur of the main Corpus Christi Ship Channel, which serves the Port of Corpus Christi. La Quinta Channel serves several industrial plants, including Dupont Chemical, Reynolds Aluminum, and Occidental Chemical Company. Three stations were located in the Channel. Three reference stations were located in Corpus Christi Bay away from any obvious anthropogenic influence. Benthic samples were taken October 1992, January 1993, April 1993, and July 1993. Using three stations in each environment allows us to test for differences between the La Quinta Channel and Corpus Christi Bay.

In the Corpus Christi Bay, the study sites have the designation of NCC, NCD, and NCE (Fig. 1). NCC is located 3,000 m southeast of the Nueces Bay Causeway at a depth of 3.4 m. NCD is located 3,000 m northeast of the mouth of Fish Pass on the bay side of Mustang Island and is 2.7 m deep. NCE, which is 3.4 m deep, is 3,600 m south southwest of Point Mustang. The prefix NC- is used to conform with nomenclature used in other studies (Montagna and Kalke, 1992). NC stands for the Nueces-Corpus Christi Bay system.

The study sites located in La Quinta (LQ) Channel have been designated LQA, LQB, and LQC (Fig. 2). Station LQA is located behind Occidental Chemical Co., Inc. on the south side of the channel; the collections were taken at a depth of 2.5 m. LQB is in Ingleside Cove, about midway through the channel, and is at a depth of 1.8 m. LQC, with a depth of 2.5 m, is about 225 m ESE of Naval Station Ingleside.

Fig. 1. Map of Corpus Christi Bay. Reference site NCC is located near the mouth of Nueces Bay, NCD is located north of the Laguna Madre, and NCE is just south of Point Mustang. All stations are located away from any obvious anthropogenic influences.

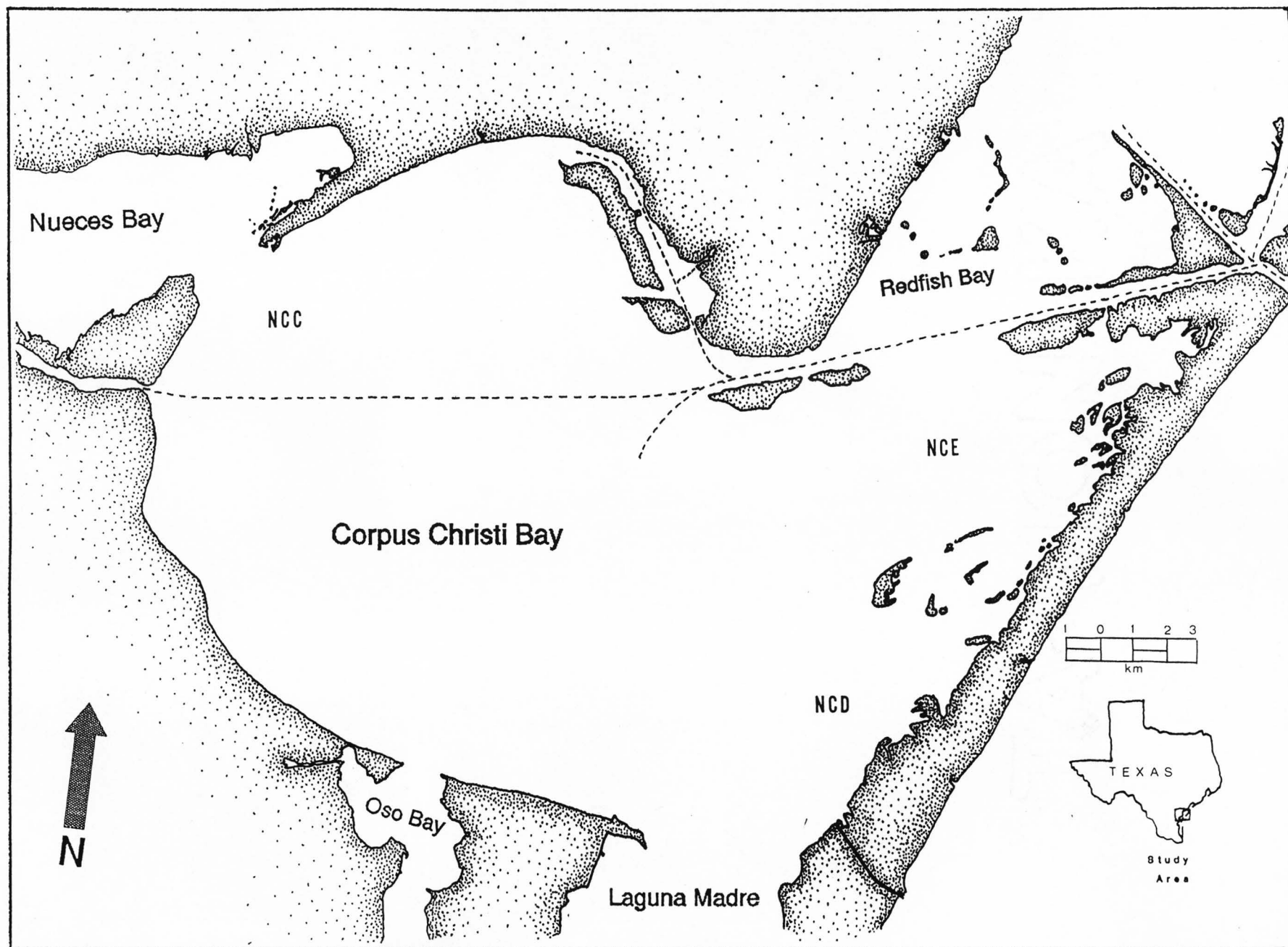
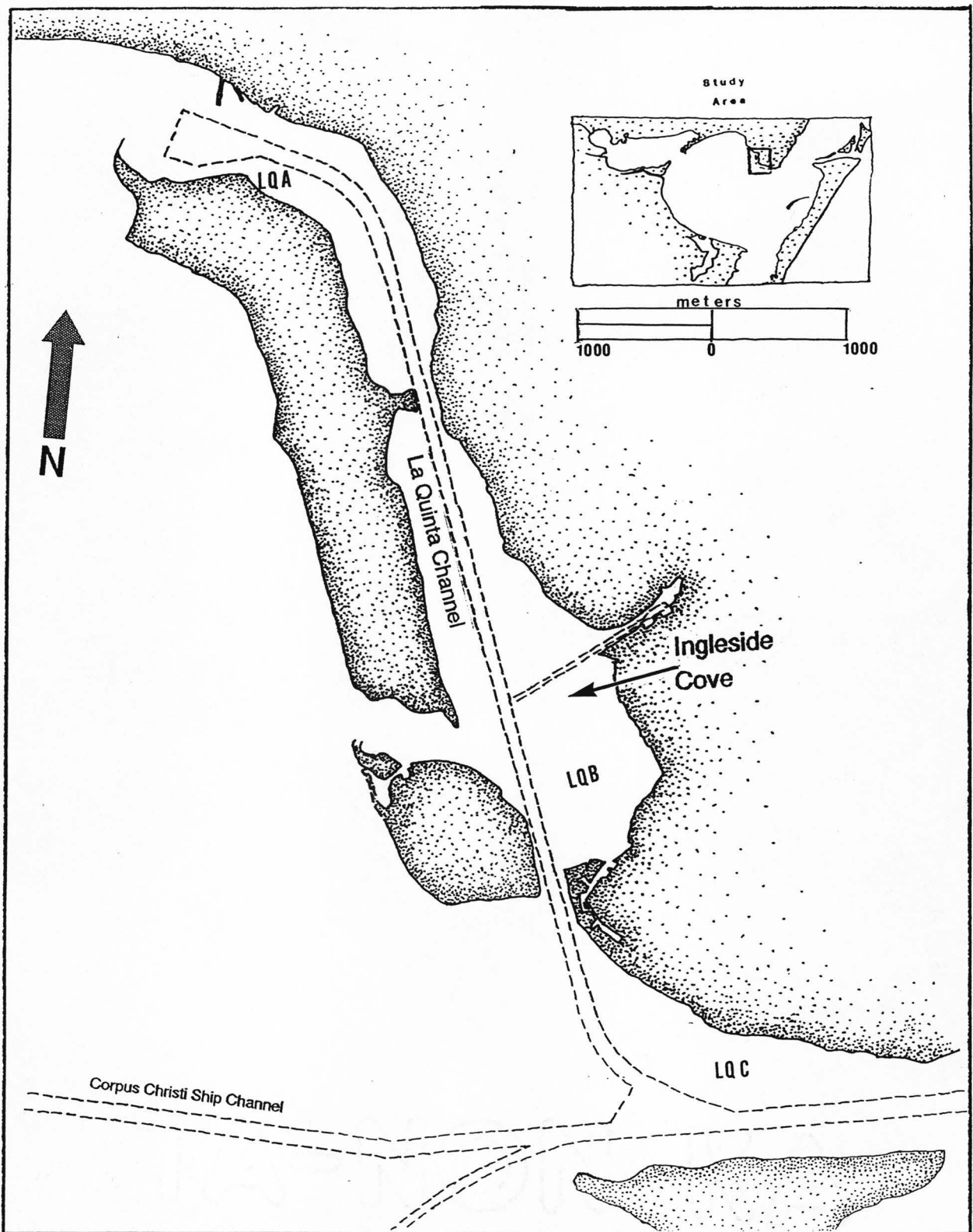


Fig. 2. Map of La Quinta Channel. Station LQA is on the north end of the Channel, LQB is located in Ingleside Cove, and LQC is near the juncture of the La Quinta Ship Channel from the Corpus Christi Ship Channel.



Hydrography

During each collection period hydrographic measurements were taken at each station using a Hydrolab Surveyor II. These measurements were taken just below the water surface and at the bottom of the water column. The information taken consisted of the following parameters (units and accuracy): depth (± 1 m), water temperature (± 0.15 °C), pH (± 0.1 units), dissolved oxygen (± 0.2 mg/l), specific conductivity (± 0.015 -1.5 mmhos/cm depending on range), redox potential (± 0.05 mV), and salinity (ppt). Salinity is automatically corrected to 25 °C. A visual estimate of weather conditions such as wind speed, wind direction, cloud cover, and wave height was also recorded.

Sediment

Using techniques described by Folk (1964) we determined the percent of sand, silt, and clay present at each station from sediment samples taken during the first collection period. These samples were placed in a jar and filled with distilled water and hydrogen peroxide and were allowed to sit for one week to digest organic material in the sample. The samples were then wet filtered through a 62.5 μ m Millipore Hydrosol SST filter using a vacuum pump to separate sand and shell hash from the silt and clay. Sediment that was left on the 62.5 μ m filter was placed in a 50 ml beaker that was previously weighed. That sediment was then dried at 80 °C for 24 h and then weighed. The sediment fraction that flowed through the 62.5 μ m filter was placed in a 1,000 ml graduated cylinder. The temperature of the water in the cylinders was measured to determine how long to let the sediment settle between subsamples. Each graduated cylinder had its contents well mixed and a 20 ml subsample was placed in a preweighed 50 ml beaker. After settling, another 20 ml subsample was taken and placed in a preweighed 50 ml beaker. These fractions were all dried at 80 °C and then the total dry weight of the sediment was calculated.

Benthic Abundance

Benthic abundance and community structure was measured using the standard techniques that Montagna and Kalke (1992) have been using since 1984. The samples were collected using core tubes rather than grabs, because most grabs take a semi-circular "bite" out of the sediment and cause redistribution of the benthic community (Holme and McIntyre, 1971). The core tubes were 6.715 cm in diameter and were taken from the surface of the sediment (0 cm) to a depth of 10 cm, yielding a sample area of 35.4 cm².

Two types of coring methods were used for collecting: a simple corer and the Kalke corer. The simple coring required a diver to insert the coring tube, which was open on both ends, into the sediment. A rubber stopper was placed on the top end, which then acted as a suction device to hold the sample in place as the tube was pulled out and then capped on the bottom end. The Kalke corer used the same basic technique as the simple corer, but does not require a dive. A long pole was used to push the tube into the sediment from the side of a boat. To load the device the tube was clamped onto the end of the pole and then lightly capped by a rubber stopper so

that air could escape but was able to stopper completely when the tube was pulled out of the sediment. The tube was then quickly brought to the surface so that the bottom of the tube could be capped, thus not allowing any of the sample to escape. This technique could not be performed in areas with high sand or shell content.

These cores were then sectioned to depths of 0-3 cm and 3-10 cm to examine the vertical distribution of macrofauna. After sectioning, each individual sediment section was stored in a container filled with 10% formalin and 90% seawater to fix and preserve the live animals. The samples then remained in the formalin mixture until they were ready to be analyzed.

Before analyzing a sample, the contents of the container were swirled and allowed to settle for a few seconds and then slowly poured through a 500 μm sieve. The container was then filled half full with fresh water, swirled, allowed to settle for a few seconds, and then slowly poured through the sieve again. The swirling allowed the finer sediment and the lighter animals to rise to the top so that they could be decanted. The heavier sediment and shells precipitated out and stayed on the bottom. This process was repeated until the majority of "lighter" things had been decanted and all that remained was the shell hash and the larger clay clumps. The sediment that had been decanted was fine enough to flow through the sieve while the animals remained, thus allowing one to carefully rinse the contents of the sieve into a beaker, fill it partially with fresh water and set it aside. The contents remaining in the container were then poured through two sieves (2 mm and 500 μm) that were placed one on top of the other with the 2 mm sieve on top. The clumps of sediment that did not flow through the top sieve was rinsed through with fresh water at low pressure. The remains of the top sieve (usually consisting of worm tubes and shells) were then sorted under a magnifying lens and the preserved animals were picked out and placed in a second beaker, which was set aside with the first beaker. The contents that flowed onto the 500 μm sieve were rinsed with fresh water at low pressure, to wash the remaining sediment through, and then those contents were carefully rinsed into a third beaker. Each beaker was then subsampled into a petri dish for easier study under a dissecting scope where the animals were picked out, identified into their lowest possible taxon (i.e. species), and enumerated. The animals that were identified were cross-referenced with a reference collection that is available for Corpus Christi Bay. The debris that was not picked out of the samples was discarded.

Benthic Biomass

After the species have been identified and enumerated, biomass was determined. Benthic biomass was measured using the standard techniques used by Montagna and Kalke (1992). Mollusk shells were removed by an acidic vaporization technique (Hedges and Stern, 1984). The animals were separated into their major groups: polychaetes, crustaceans, mollusks, rhyncocoels, ophiuroids, sipunculids, and others. Small aluminum pans were then weighed out and each group was placed on its own pan; the purpose for this was to get a dry biomass weight. These pans were then placed into an oven and dried at 50 °C for a minimum of 48 hours, after which another weight was obtained for the pan and animals together. A weight on the animals was calculated by subtracting the pan weight from the pan/animal weight.

These numbers were then logged into a SAS data base, which cross-checked the data to make sure that the number of animals on the identification sheet matched the number of animals on the biomass sheet.

Statistical Analyses

Statistical analyses to reveal differences among sampling periods, stations and sediment depths was performed using general linear model procedures (SAS, 1985). Three-way analysis of variance (ANOVA) models were used where sampling dates, stations, and sediment sections were the three main effects. Two-way ANOVA models will be used where sampling dates and stations were the two main effects. Analyses were run on raw and log-transformed data. The distribution of the residual error terms from the ANOVA models were tested for conformance to normality. Orthogonal linear contrasts were used to test for the specific null hypothesis that La Quinta Channel was different from Corpus Christi Bay. Tukey multiple comparison procedures were used to find *a posteriori* differences among sample means (Kirk, 1982).

Factor analysis with rotated and unrotated factors were used to determine if communities were similar on different sampling dates or stations. Cluster analysis was used to find similar species composition among stations.

Diversity Analyses

Diversity was calculated using Hill's diversity number one (N1) (Hill, 1973). It is a measure of the effective number of species in a sample, and indicates the number of abundant species. It is calculated as the exponentiated form of the Shannon diversity index:

$$N1 = eH' \quad (1)$$

As diversity decreases N1 will tend toward 1. The Shannon index is the average uncertainty per species in an infinite community made up of species with known proportional abundances (Shannon and Weaver, 1971). The Shannon index is calculated by:

$$H' = -\sum_{i=1}^S \left[\left(\frac{n_i}{n} \right) \ln \left(\frac{n_i}{n} \right) \right] \quad (2)$$

Where n_i is the number of individuals belonging to the i th of S species in the sample and n is the total number of individuals in the sample.

Richness is an index of the number of species present. The obvious richness index is simply the total number of all species found in a sample regardless of their abundances. Hill (1973) named this index $N0$. Another well known index of species richness is the Margalef (1958) index ($R1$). $R1$ is based on the relationship between the number of species (S) and the total number of individuals (n) observed:

$$R1 = \frac{S-1}{\ln(n)} \quad (3)$$

Although common, this relationship presupposes that there is a functional relationship between S and n . This assumption may not be justified in all cases.

Evenness is an index that expresses that all species in a sample are equally abundant. Evenness is a component of diversity. Two evenness indices, $E1$ and $E5$, have been calculated. $E1$ is probably the most common, it is the familiar J' of Pielou (1975). It expresses H' relative to the maximum value of H' :

$$E1 = \frac{H'}{\ln(S)} = \frac{\ln(N1)}{\ln(N0)} \quad (4)$$

$E1$ is sensitive to species richness. $E5$ is an index that is not sensitive to species richness. $E5$ is a modified Hill's ratio (Alatalo, 1981):

$$E5 = \frac{(1/\lambda) - 1}{N1 - 1} \quad (5)$$

$$\text{where, } \lambda = \sum_{i=1}^S \frac{n_i(n_i - 1)}{n(n-1)}$$

λ is the Simpson (1949) diversity index. $E5$ approaches zero as a single species becomes more and more dominant.

RESULTS

Hydrography

Hydrographic measurements were taken at all stations during each collection (Appendix I). Refractometer readings dropped from a mean of 30.5 ppt to 23.5 ppt in La Quinta Channel from October, 1992 to July, 1993 due to the amounts of rainfall that occurred during the year, especially in May, 1993. The trend was similar in Corpus Christi Bay, although the salinity was slightly lower. There was a large seasonal drop in temperature, from 24 °C to 13 °C, between October and January, but the temperature went back to 40 °C by July. The pH remained constant and was similar among each of the six stations all year. The dissolved oxygen (DO) concentration in the water had a mean of 7.0 mg/l for all stations except NCC and NCD, which were lower (5.5-6.5 mg/l), during October. In January and April the DO was higher (8.5-9.5 mg/l) for all stations. By July it decreased to 5.0-6.5 mg/l and was similar at all stations except for the bottom of NCD, where the DO was only 1.7 mg/l. The oxidation-redox potential remained constant during the entire year at all stations. Overall, the measurements recorded at each of the stations were very similar to one another.

Sediment

Sand was predominant at most stations (Fig. 3) The sand content was usually greater in the top 3 cm of the samples (Appendix II). This measurement was taken only once in October, 1992 (NCD was taken October, 1991). All of the La Quinta Channel stations had sand making up more than 75% of the sediment. Both layers at NCC consisted mostly of silt and clay, making up 79.7% in the upper section and 89.2% in the lower section, while there was more sand in NCD (82.4%) and NCE (56.7%). Sand made up the largest percentage dry weight for all stations, except for NCC.

Benthic Abundance

There were more individuals in the top 3 cm during each study period, except for July, 1993 (Fig. 4, Appendix III). Polychaetes made up the majority of individuals in the top and bottom sections of all stations sampled (Table 1, Appendix III). Polychaetes made up 77% of the mean total abundance found in the top 3 cm and 90% for the bottom 7 cm of La Quinta Channel and 84% of the total species in the upper section and 90% in the bottom section of Corpus Christi Bay. The percent difference between the polychaetes in the top section and those in the bottom section in La Quinta Channel was lower than that of Corpus Christi Bay. La Quinta Channel had an average percent difference of 4%, in favor of the top section, while in Corpus Christi Bay it was 32%, again in favor of the top 3 cm. There were significant interactions between the sections, dates, and stations for the density ($n \cdot m^{-2}$) as well. The average number of species found in the top section for all stations was 13,024 $n \cdot m^{-2}$, which is 61% of the total average of both sections. The average of 12,126 $n \cdot m^{-2}$ individuals in the top section of LQA, however, was lower than that of bottom section (13,307 $n \cdot m^{-2}$).

Also, October, 1992, and January and April, 1993 had an average mean of 67% density in the upper layer while there was only 41% density in the upper layer for July, 1993. An examination of the residuals was done for density. Here the residuals did conform to a normal distribution. The bell-shaped curve had a coefficient of skewness of only 0.24 and the coefficient of kurtosis was 1.4. The skewness, being so small, had no affect on the boxplot, the median and mode overlapped. The normal probability plot had the raw data converging on the straight line, thus repeating that the distribution was normal.

The mean density of macrofauna taxa at all stations combined to a depth of 10 cm was dominated by polychaetes with a mean of $17,980 \cdot \text{m}^{-2}$ or 84% of the total taxa (Table 2). For the individual stations polychaetes still dominated each station (Table 3). Polychaetes were most abundant at LQA with a mean of $22,691 \cdot \text{m}^{-2}$. The fewest number of polychaetes occurred at NCE with $15,955 \cdot \text{m}^{-2}$. There were significant interactions between the dates and stations for the mean density to 10 cm (Fig. 5). Stations LQA and NCC are significantly different from one another, as seen in the Tukey test for mean density ($\text{n} \cdot \text{m}^{-2}$) to 10 cm:

25,433	21,722	21,060	20,895	20,351	18,295
LQA	NCD	LQB	LQC	NCE	NCC

The residuals of macrofauna taxa density at all stations combined to a depth of 10 cm conformed to a normal distribution. The coefficient of skewness that occurred to the bell-shaped curve had no affect on the overlapping of the median and the mode. The normal probability plot had the raw data converging on the straight line. According to the orthogonal linear contrast, La Quinta Channel was not significantly different ($P=0.0873$) from Corpus Christi Bay. La Quinta Channel had an average of $25,796 \cdot \text{m}^{-2}$ and Corpus Christi Bay had $20,123 \cdot \text{m}^{-2}$. The three stations in La Quinta Channel and NCE in Corpus Christi Bay were similar in the number of species throughout the study periods, while NCD was consistently lower (Fig. 6). The highest number of species, however, was found to be in LQC.

Benthic Biomass

La Quinta Channel and Corpus Christi Bay both had a greater biomass ($\text{g} \cdot \text{m}^{-2}$) in the bottom (3-10 cm) sediment section (Fig. 7). La Quinta Channel had an average of 72% and Corpus Christi Bay averaged 69% of the biomass in the bottom sections. Polychaetes made up the greatest biomass at all stations and sections ranging from 0.8 to $9.3 \text{ g} \cdot \text{m}^{-2}$ (Table 1). The biomass of all of the taxa, except polychaetes, was greater in the top 3 cm than in the bottom 7 cm (Appendix III). The polychaete biomass in the bottom section made the overall average biomass of the bottom section greater than that of the top section. There were significant interactions between the sections, dates, and stations for the biomass. Overall, the percent of biomass found in the top 3 cm was 29%, but composition was different among stations. LQA had 17% in the top section, LQB had 35%, there was 39% at LQC, NCC had 23%, NCD was found to

contain 50%, and NCE had 33% (Table 1). The high percentage of biomass at NCD occurred in January and April, 1993, when NCD had 64% of the biomass in the top 3 cm while the other 2 sampling periods had less than 40% each in the top 3 cm at NCD. After examining the residuals (errors) of the biomass to determine if they conformed to a normal distribution it was determined that they did not. Although they are not normal, they still present a bell-shaped curve. The problem with the bell curve is that it has a small coefficient of skewness (1.1). This skewness was not enough, however, to affect the boxplot where the median and the mode still overlapped. The coefficient of kurtosis is 4.1 and the bell curve was very narrow. Another way to determine how far the bell curve is from normal is to construct a normal probability plot, which draws a straight line and then plots the raw data around it. Although the raw data did not fit the straight line exactly, it never veered far from that line demonstrating that, although the residuals were not normal, they were not bad enough to warrant transformation.

The mean biomass of macrofauna taxa to a depth of 10 cm at all stations was dominated by polychaetes with a mean of $9.9 \text{ g}\cdot\text{m}^{-2}$ or 83% of the total taxa (Table 4). Polychaete biomass to 10 cm was dominant at each station (Table 5). Other than at NCC and NCD, there were no stations that had a taxa that came close to polychaetes in the amount of biomass present. The polychaetes at NCC weighed $6.42 \text{ g}\cdot\text{m}^{-2}$, ophiuroids were next with $4.27 \text{ g}\cdot\text{m}^{-2}$, the mollusks were the third highest but weighed much less with only $0.7 \text{ g}\cdot\text{m}^{-2}$. At NCD, the polychaetes weighed very little, only $1.76 \text{ g}\cdot\text{m}^{-2}$, and the rest of the taxa were between 0.01 and $0.27 \text{ g}\cdot\text{m}^{-2}$. In La Quinta Channel, the polychaete biomass was never less than 83%. For Corpus Christi Bay, the polychaetes were 55%, 72%, and 89% for stations NCC, NCD, and NCE, respectively. There were significant interactions between the dates and stations for the mean biomass to 10 cm (Fig. 8). While station NCE is not significantly different from most of the stations, NCD is significantly different from all of the other stations, a fact that can be seen in the following Tukey test for mean biomass ($\text{g}\cdot\text{m}^{-2}$) to 10 cm at each station:

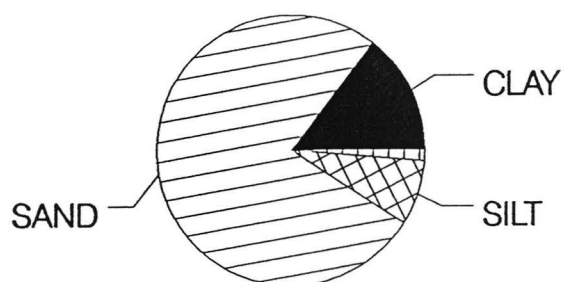
20.1	15.7	11.8	10.9	10.3	2.4
LQA	NCE	NCC	LQB	LQC	NCD

The residuals for the mean biomass to 10 cm did not conform to a normal distribution. There was still a bell-shaped curve that showed a small coefficient of skewness, but did not cause the overlapping of the median and the mode not to occur. The coefficient of kurtosis was also close to normal distribution. All of this was confirmed with the normal probability curve because the raw data veered only slightly from the normality line, but not enough to warrant transformation. Orthogonal linear contrasts that tested for the specific null hypothesis that La Quinta Channel was different from Corpus Christi Bay showed that there was a significant difference ($P=0.0112$) between the two. La Quinta Channel had an average of $13.8 \text{ g}\cdot\text{m}^{-2}$ and Corpus Christi Bay had an average of only $10.0 \text{ g}\cdot\text{m}^{-2}$. Without station NCD being figured into the Corpus Christi Bay average, the average went up to $13.8 \text{ g}\cdot\text{m}^{-2}$.

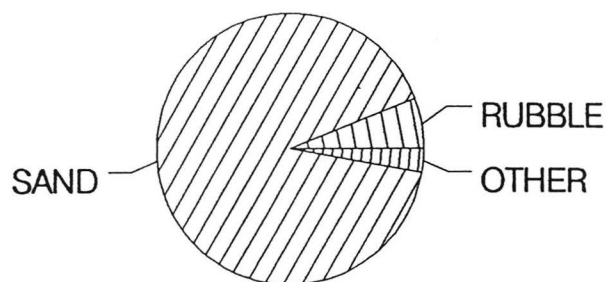
Fig. 3. Sediment composition. Percent dry weight of sediment components in each station. Station NCD sample taken in October, 1991. All other stations were taken in October, 1992.

LaQuinta Channel Sediment Composition (% dry weight)

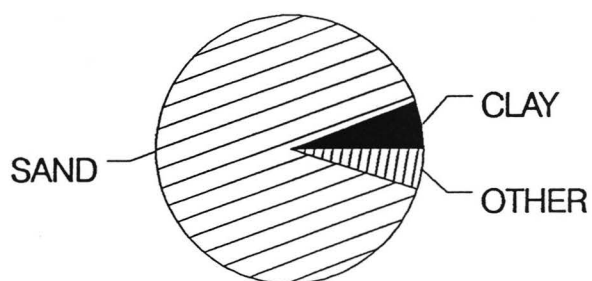
Station = LQA



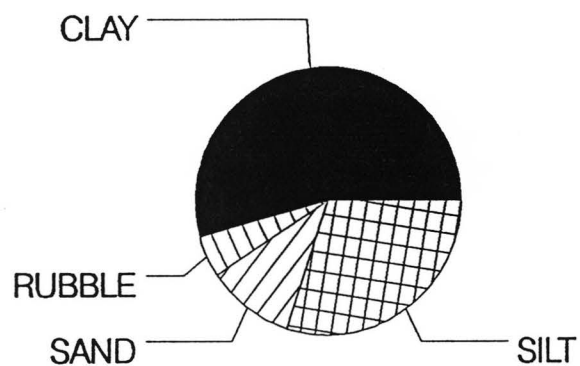
Station = LQB



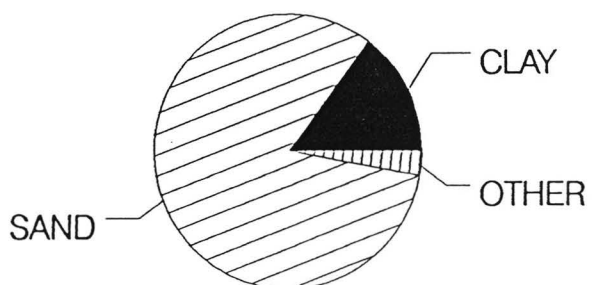
Station = LQC



Station = NCC



Station = NCD



Station = NCE

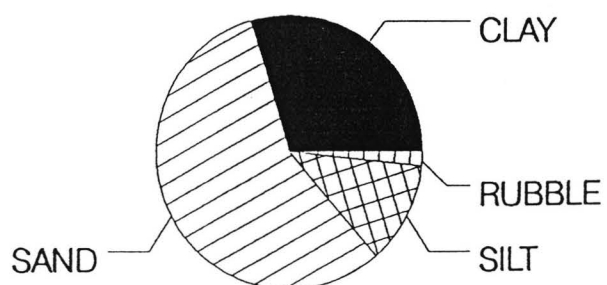


Fig. 4. Vertical distribution of macrofauna density (mean no.·m⁻²) in La Quinta Channel and Corpus Christi Bay for each station and sampling period. Sediment cores were vertically sectioned at 0-3 cm and 3-10 cm intervals.

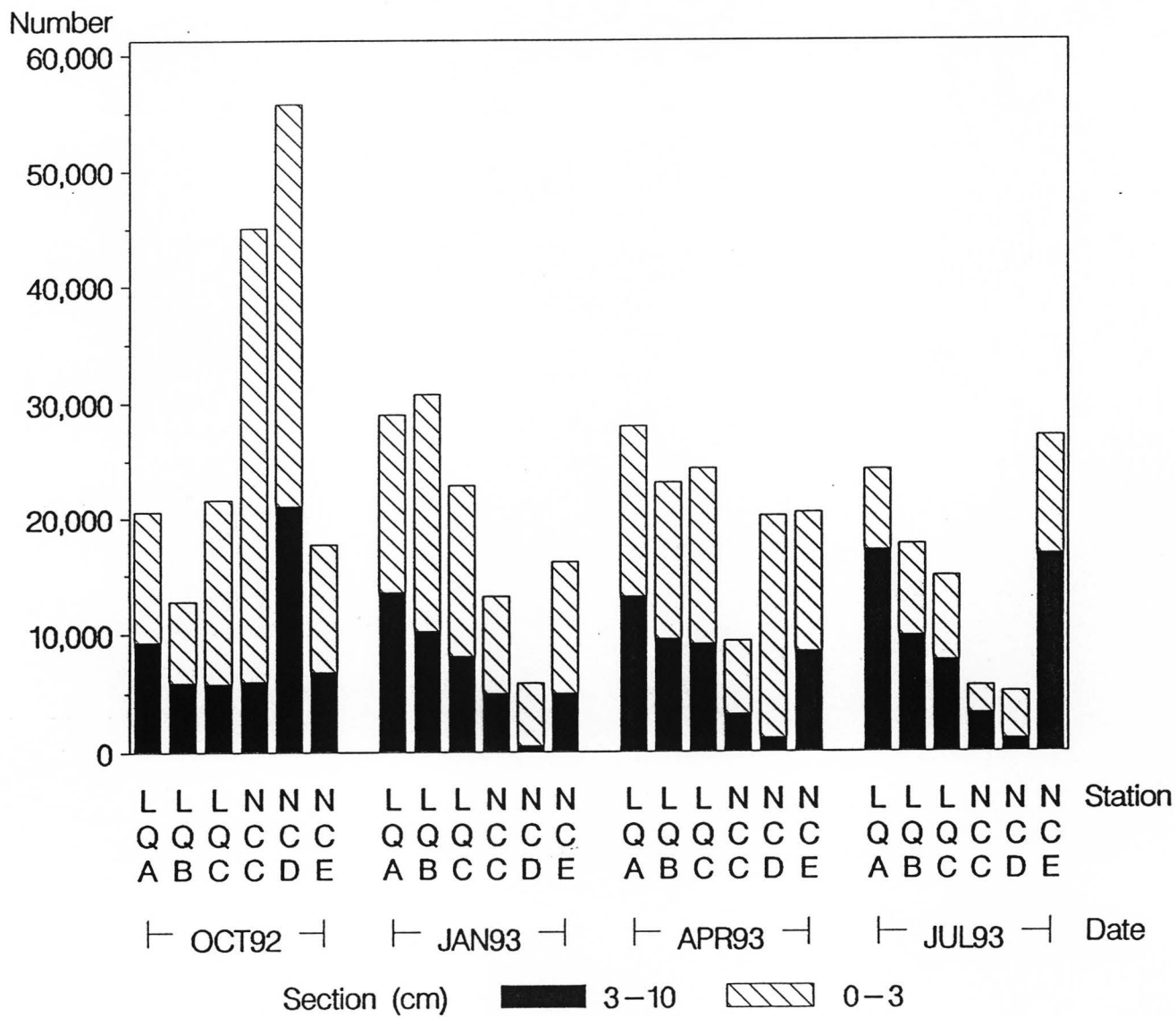
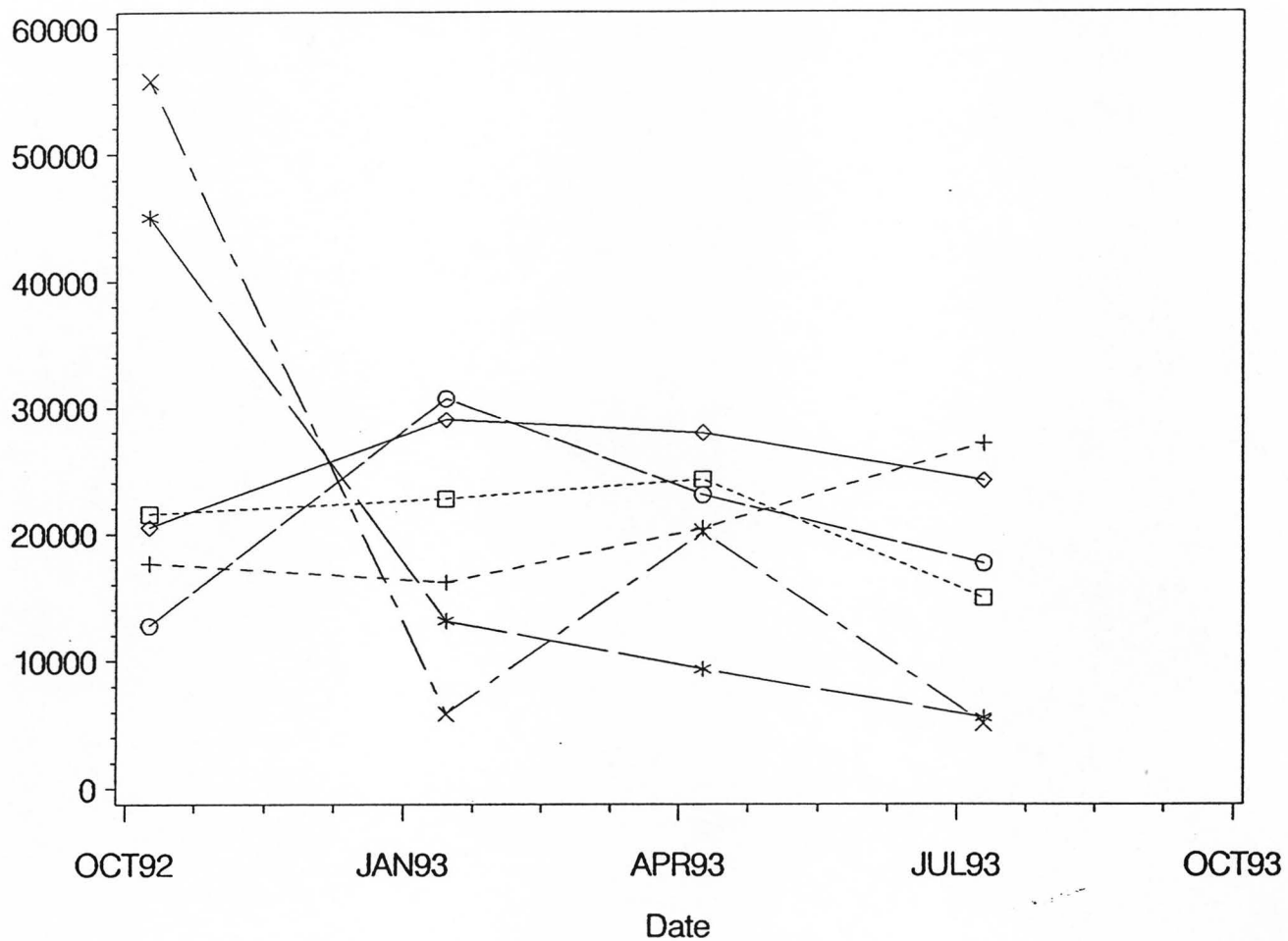
LaQuinta Channel Macrofauna Abundance ($n \cdot m^{-2}$)

Fig. 5. Mean total of macrofauna density in La Quinta Channel and Corpus Christi Bay for each station and sampling period. Mean no.·m⁻² to a depth of 10 cm.

LaQuinta Channel
Macrofauna Abundance ($n \cdot m^{-2}$)



Station	◇-◇-◇	LQA	○-○-○	LQB	□-□-□	LQC
	--*	NCC	×-×-×	NCD	+--+ +	NCE

Fig. 6. Vertical distribution of macrofauna biomass in La Quinta Channel and Corpus Christi Bay for each station and sampling period. Measured as $\text{g}\cdot\text{m}^{-2}$. Sediment cores were vertically sectioned at 0-3 cm and 3-10 cm intervals.

LaQuinta Channel Macrofauna Biomass ($\text{g} \cdot \text{m}^{-2}$)

Dry Wt.

40

30

20

10

0

L L L N N N
Q Q Q C C C
A B C C D E

L L L N N N
Q Q Q C C C
A B C C D E

L L L N N N
Q Q Q C C C
A B C C D E

L L L N N N
Q Q Q C C C
A B C C D E

Station

┌ OCT92 ─┐

┌ JAN93 ─┐

┌ APR93 ─┐

┌ JUL93 ─┐

Date

Section (cm)

3-10

0-3

0-3

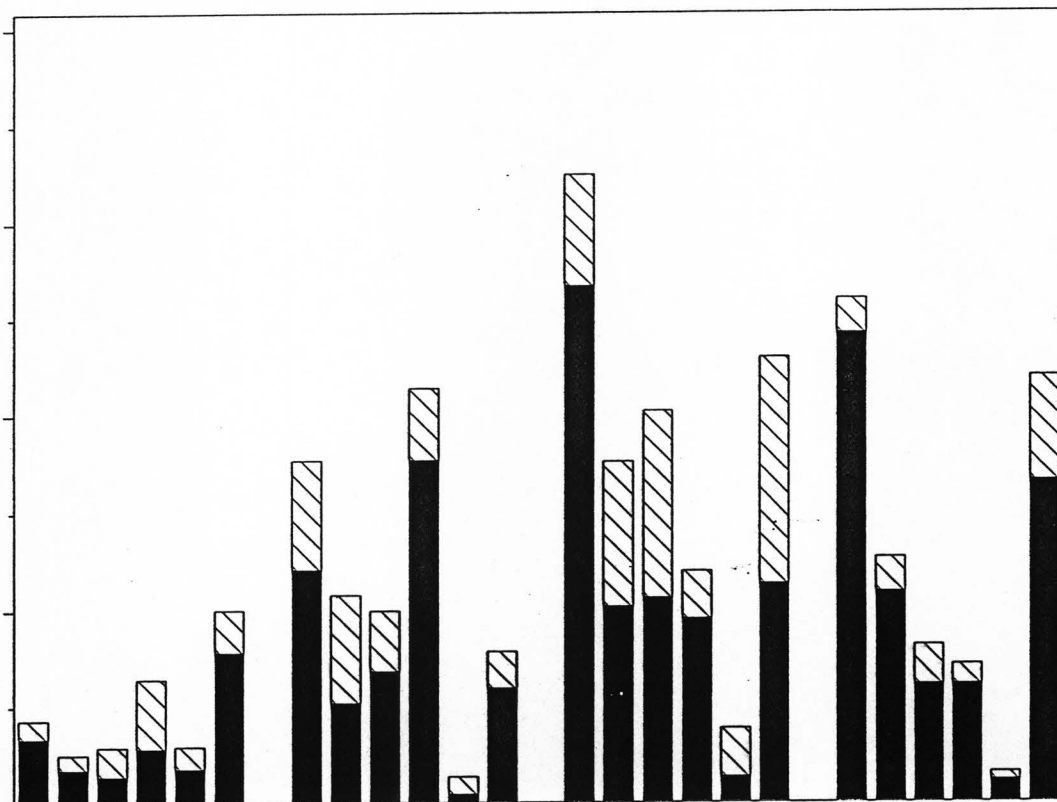
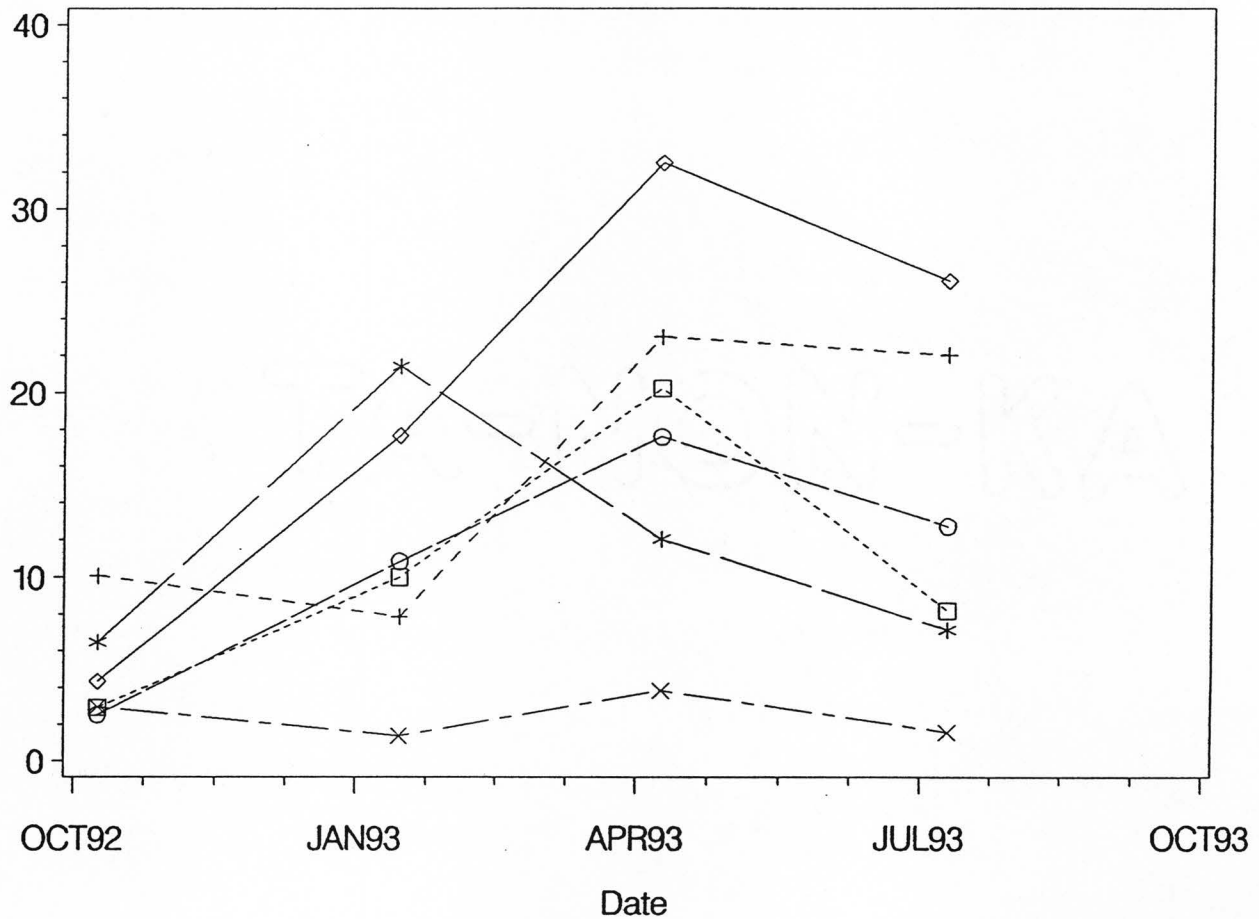


Fig. 7. Mean total of macrofauna biomass in La Quinta Channel and Corpus Christi Bay for each station and sampling period. Mean $\text{g}\cdot\text{m}^{-2}$ to a depth of 10 cm.

LaQuinta Channel
Macrofauna Biomass ($\text{g} \cdot \text{m}^{-2}$)

Biomass



Station	◇-◇-◇ LQA	○-○-○ LQB	□-□-□ LQC
	--* NCC	×-×-× NCD	+--+ NCE

Benthic Diversity

Using R1 to indicate species richness, there is not a significant interaction between date and station. There were differences among the stations ($P=0.0001$) and the dates ($P=0.0001$). There was a significant difference between the stations in La Quinta Channel and in Corpus Christi Bay. The La Quinta Channel stations had an average of 4.6 compared to 3.5 found among Corpus Christi stations (Table 6). The overall mean for R1 is 4.0. The Tukey test for the mean of R1 at each stations is:

5.4	5.0	4.7	3.6	3.2	2.3
<u>LQC</u>	<u>NCE</u>	<u>LQA</u>	<u>LQB</u>	<u>NCC</u>	<u>NCD</u>

Species diversity was calculated with Hill's N0 and N1 (Table 6). N0 simply measures the total number of species in a sample. In this study, the mean N0 for all stations combined was 17.9. There was no significant interaction between dates and stations for N0. There were significant differences among the stations ($P=0.0001$) and the dates ($P=0.0001$). There were significant differences between the mean number of species in La Quinta Channel (20.9) and Corpus Christi Bay (14.9). The Tukey test for mean number of species (N0) at each station for the entire year appeared as follows:

24.2	22.2	22.0	16.7	13.1	9.3
<u>LQC</u>	<u>NCE</u>	<u>LQA</u>	<u>LQB</u>	<u>NCC</u>	<u>NCD</u>

Hill's N1 is an indicator of the number of dominant species in a sample. The mean number of species for N1 was slightly lower with 10.7, because it takes into account only the abundant species. Even though there were no significant differences between the stations and dates for N1, there were significant differences among the dates ($P=0.0001$) and stations ($P=0.0001$) (Fig. 8). There was a significant difference between the two systems; La Quinta Channel had an average mean of 12.4 species and Corpus Christi Bay had an average mean of 9.0 species. The Tukey test that follows is of the mean number of abundant species (N1) at each station:

14.5	14.4	12.9	9.9	8.2	4.5
<u>LQC</u>	<u>NCE</u>	<u>LQA</u>	<u>LQB</u>	<u>NCC</u>	<u>NCD</u>

The variable E1 was chosen to indicate evenness because it is calculated with N0 and N1. When E1 is equal to 1.0 then there is complete evenness. The mean of E1 for all stations combined throughout the year was 0.78, which means that there was a high level of evenness. There were significant interactions between dates and stations ($P=0.0001$). Station NCD had the 2 lowest evenness indices and it was the lowest in evenness 3 out of 4 times (Table 6). During April, however, it had the highest degree of evenness, which was the second highest evenness value overall.

Plotting the Dominance-diversity curves (Fig. 9) presented a graphic illustration that NCD had the least evenness and had a very different curve from all of the other stations. The curves of the other stations were not significantly different from each other and showed a good evenness. Station NCC, which had a curve that was similar to NCD though not as drastic, was not significantly different from the other stations, but did not have a very good evenness. The Tukey test for the mean of E1 for each station has NCD being the only station that is significantly different from the rest and NCE is the station with the most species evenness overall:

0.855	0.822	0.819	0.808	0.795	0.606
NCE	LQA	LQC	LQB	NCC	NCD

Factor analysis indicated that stations LQA, LQB, LQC, and NCE were most similar, while stations NCC and NCD were similar to each other, but different from the rest (Fig. 10, Table 7, Table 8, Appendix IV). Factor 1 analysis explained 81% of the variance, and Factor 2 analysis explained only 19% of the variance. Station NCD separated on the first factor and NCC and NCE separated on the second factor because there were different polychaetes present. A cluster analysis (Fig. 11) demonstrated that NCC and NCE were most alike in species composition. It also demonstrated that station LQC was most like the Corpus Christi Bay stations, while it considered station LQA to be the most unique station.

Polychaetes were the dominant form of benthos at all stations during the entire study period. The most dominant and ubiquitous species throughout entire study was Mediomastus ambiseta, with a combined average of 25,906 individuals·m⁻² from all stations. This subsurface deposit-feeding species was most abundant at NCC (6,264 individuals·m⁻²) (Table 7). All stations, except for NCD, had Mediomastus ambiseta as the dominant polychaete.

Fig. 8. Macrofauna diversity at different stations and times. Total diversity to a depth of 10 cm. Represents each station and sampling period in La Quinta Channel and Corpus Christi Bay.

La Quinta Channel Macrofauna Diversity

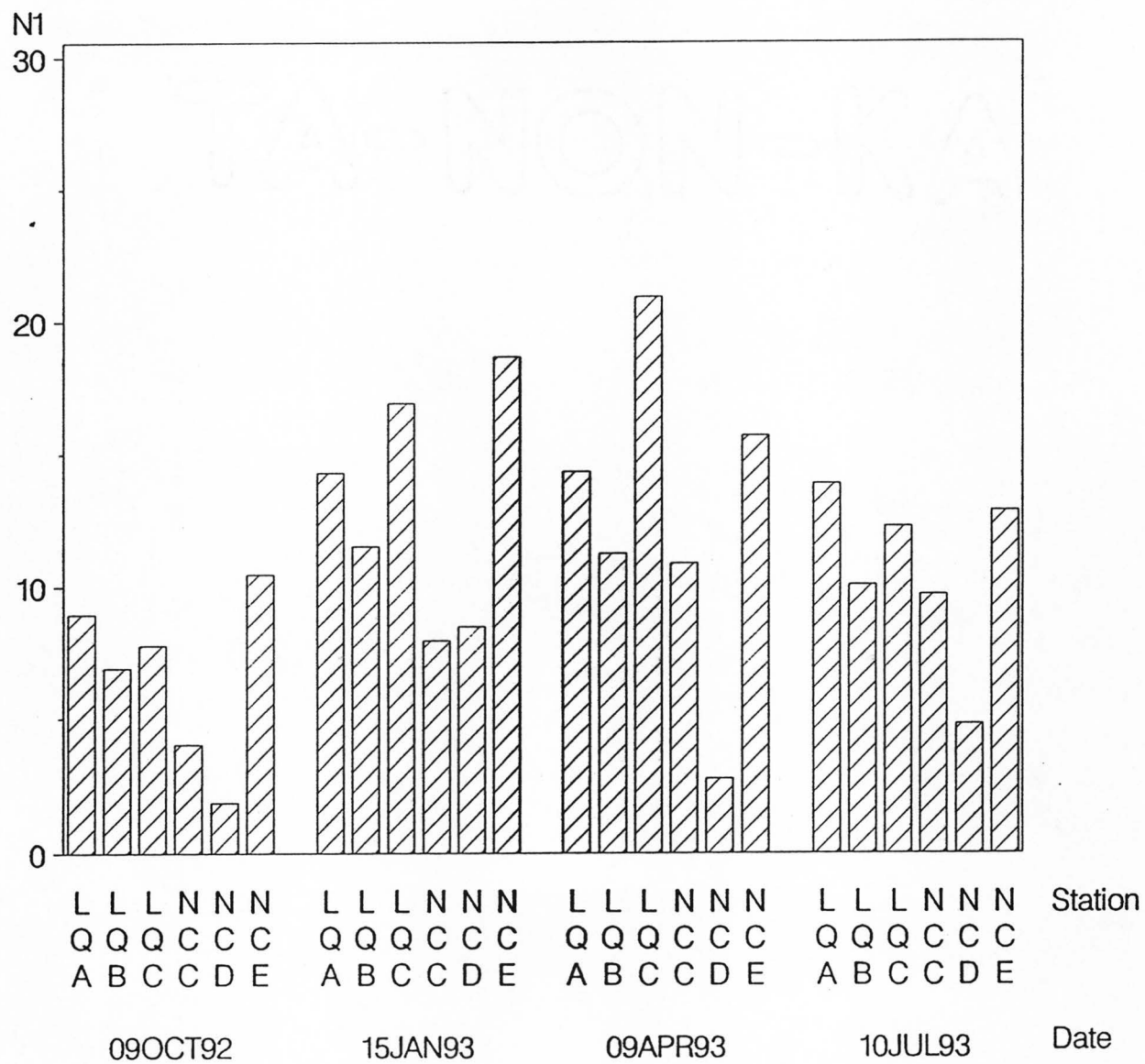


Fig. 9. Species dominance curves for macrofauna density in the La Quinta Channel and Corpus Christi Bay. Percent abundance vs. species rank for all samples combined.

La Quinta Channel and Corpus Christi Bay
Dominance – Diversity Curves (All Data)

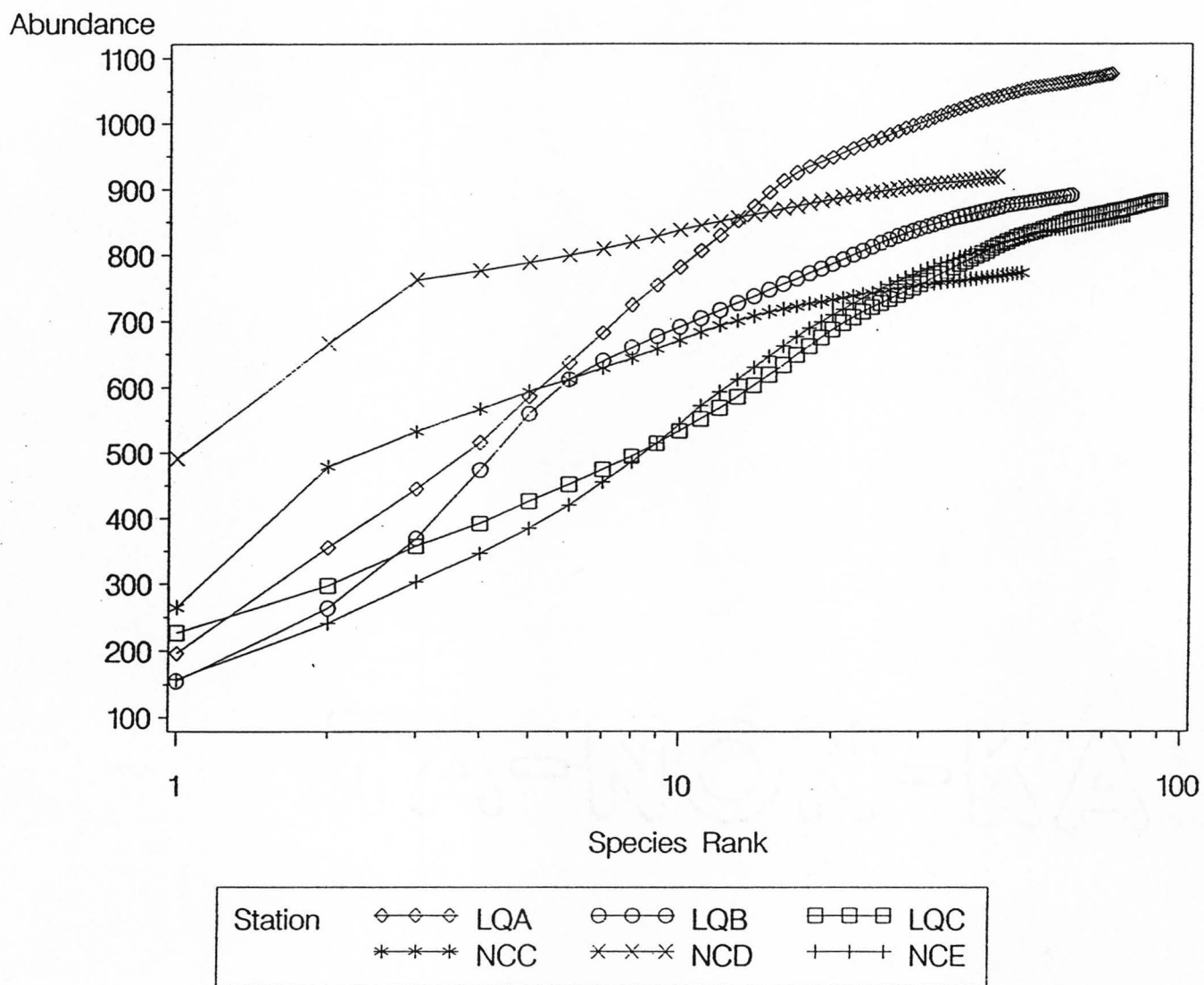


Fig. 10. Principal factors analysis for all stations in the La Quinta Channel and Corpus Christi Bay.

LaQuinta Channel Macrofauna Species
Principal Factors Analysis

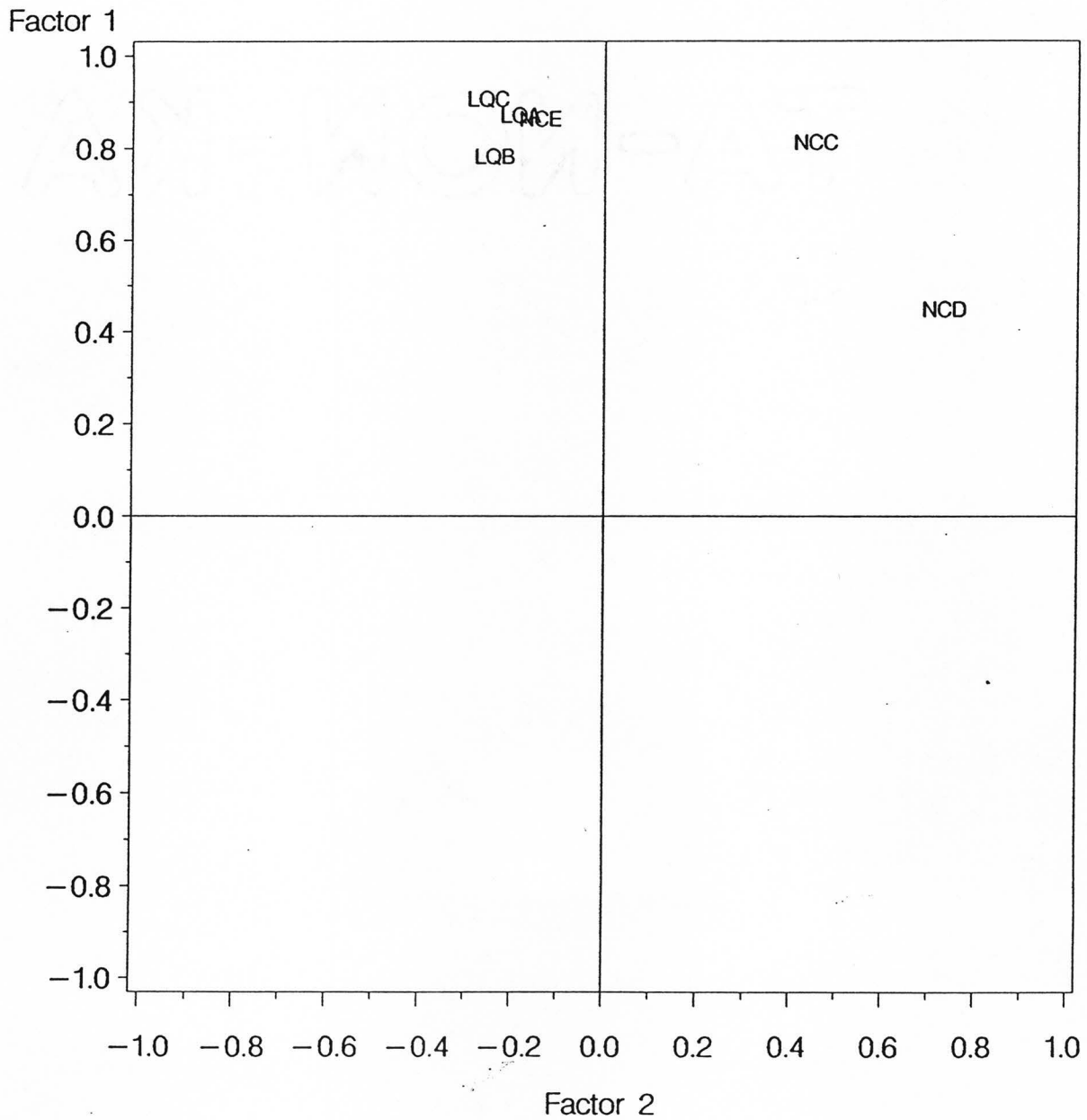
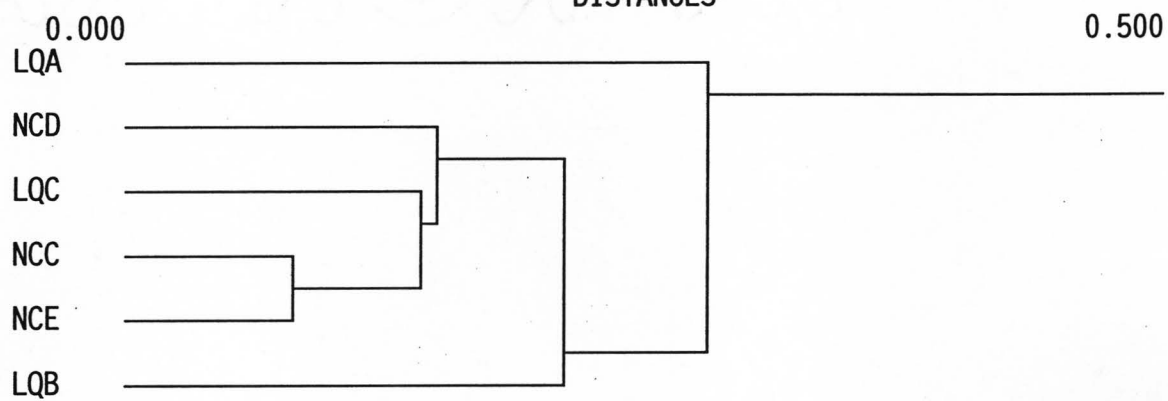


Fig. 11. Tree diagram of a cluster analysis. Single linkage method (nearest neighbor) using 1-Pearson correlation coefficient for all stations in the La Quinta Channel and Corpus Christi Bay.

TREE DIAGRAM

DISTANCES



DISCUSSION

The objective of this study was to determine if La Quinta Channel, an area that has anthropogenic disturbances, has suffered any environmental decline relative to other areas of Corpus Christi Bay that have not had as much anthropogenic influence. The approach was to take sediment samples and analyze benthic community structure and diversity. Benthic organisms can be affected by other influences as well as anthropogenic disturbances. We must examine all the factors that explain or influence the benthos to assess a relative role to anthropogenic disturbance.

Sediment was most similar between stations LQA, LQB, LQC, and NCD, which are all stations in bay margin areas. Shideler (1980) and Flint and Young (1983) noted that the marginal areas of Corpus Christi Bay were made up of muddy and shelly sand. Sand made up greater than 75% of the total sediment composition at these stations. The sand was fine and muddy enough to allow Mediomastus ambiseta to live in these areas. Previous studies performed near the location of LQC show that the sediment is made up primarily of fine sand with small amounts of shell (Flint *et al.*, 1980; Flint and Kalke, 1986). The stations that were located more towards the middle of the bay, NCC and NCE, were mainly muddy, which is also noted in the study done by Shideler (1980). In a previous study (Montagna and Kalke, 1992) NCC had an average of 7.9% sand and NCD had an average of 74.5% sand, which was comparable to the 10.5% and 82.4% found in this study. In general, the sediment characteristics were similar at all stations, except NCD, indicating that differences among stations were probably not due to differences in sediment texture.

Odum (1969) proposed a conceptual model for succession based on terrestrial observations. This succession model has been used in marine ecosystems in later studies (Rhoads *et al.*, 1978; Flint *et al.*, 1980; Flint and Young, 1983; Kennish, 1986; Gray *et al.*, 1988). Odum's model suggests that in the early stages of succession (the time following a recent disturbance) a pioneering species is the first to inhabit the area. These organisms are small and *r*-selected (i.e. they have short life cycles and high rates of reproduction). In the benthos these are suspension feeders or surface deposit-feeders (Rhoads *et al.*, 1978; Flint *et al.*, 1980; Kennish, 1986; Gray *et al.*, 1988). With time, the disturbed area matures and the organisms that move in are larger and *k*-selected (i.e. have longer life cycles and lower rates of reproduction). These are subsurface deposit-feeders in the benthos (Rhoads *et al.*, 1978; Kennish, 1986; Gray *et al.*, 1988). Not only are the organisms of the mature stage larger, they are also found deeper in the sediment (Rhoads *et al.*, 1978; Flint *et al.*, 1980; Kennish, 1986; Gray *et al.*, 1988). This means that the subsurface sediments would have a greater abundance and biomass than the surface sediments in mature sediments. This model gives us a method to interpret benthic community structure data.

Abundance and biomass in the bottom sediment section (3-10 cm) of this study was usually as great or greater than that of the top 3 cm of sediment. This finding is consistent with the succession model. It indicates that there was no disturbance during our study of the La Quinta Channel.

Mediomastus ambiseta is a non-selective subsurface-deposit feeder (Fauchald and Jumars, 1979; Flint *et al.*, 1980; Flint and Kalke, 1986). It is not considered a pioneering species (Fauchald, 1977). It is a *k*-selected species and usually follows a pioneering species that oxygenates the deeper sediment strata by building tubes; M. ambiseta is then able to inhabit the deeper sediments (Flint *et al.*, 1980). Mediomastus ambiseta was the most abundant and ubiquitous species throughout this study. It was the most dominant species at each station during each sampling period, with the exceptions of NCC and NCD in October, 1992 and NCD in April, 1993. This polychaete was compared to the one identified earlier as M. californiensis in previous studies (Holland *et al.*, 1973; Holland *et al.*, 1974; Holland *et al.*, 1975; Flint *et al.*, 1980; Flint *et al.*, 1981; Flint and Young, 1983; Flint *et al.*, 1983; Flint and Kalke, 1986; Montagna and Kalke, 1992) and was determined to be the same species, but had been misidentified until a couple of years ago (Rick Kalke, personal communication). No recent disturbance was visible during any of the sampling periods as indicated by the overall dominance of M. ambiseta.

Pioneering species are those benthic organisms that are *r*-selected and are the first group to colonize an area of recent disturbance, either natural or anthropogenic in nature. Pioneering species were found in small numbers at all stations and have been reported in past studies. Pioneering species that occurred in this study and previous studies (Flint *et al.*, 1980; Flint and Young, 1983; Flint and Kalke, 1986; Montagna and Kalke, 1992) include: Streblospio benedicti, Paraprionospio pinnata, Apoprionospio pygmaea, Minuspio cirrifera, Onuphis eremita oculata, Owenia fusiformis, Mulinia lateralis, and Abra aequalis. There was a possible disturbance at stations NCC and NCD in October, 1992 and with station NCD in April, 1993. High numbers of pioneering species were found at these stations and they may be a possible example of an early succession communities. In October, 1992, there were high numbers of S. benedicti in the surface sediment ($5,000 \cdot \text{m}^{-2}$ at NCC and $11,500 \cdot \text{m}^{-2}$ at NCD) (Fig. 6), but there was very little biomass ($3.46 \text{ g} \cdot \text{m}^{-2}$ at NCC and $1.15 \text{ g} \cdot \text{m}^{-2}$ at NCD) (Fig. 4). Station NCD had another case of a large number of *r*-selected species in April, 1993 when oligochaetes numbered $4,000 \cdot \text{m}^{-2}$, but this time there was no M. ambiseta found in the samples. There are three possibilities for these observations. 1) There may have been a species recruitment in those areas, 2) there may have been a local disturbance (e.g., that caused by a shrimp trawl), or 3) perhaps sampling error (i.e., S. benedicti may be there constantly, but only in a localized area that was never sampled again). Streblospio benedicti was an abundant polychaete on occasion at some of the stations in past studies (Flint *et al.*, 1980; Flint *et al.*, 1983). Since large numbers of any of these pioneering species were not consistently encountered there is no evidence that a recent disturbance took place.

The dominance of deeper-dwelling organisms, M. ambiseta, and the low numbers of pioneering species indicates that Corpus Christi Bay and La Quinta Channel were not disturbed in the short time before each sampling period. However, it would be incorrect to state that there never was a disturbance in these areas. Firstly, the sampling frequency was low (sites were sampled only once every 4 months). Sampling only covered six stations; these stations are then supposed to be representative

of the entire bay. Each sampling area was only 2 m². The sampling in Corpus Christi Bay, which was the control area, took place in areas with little or no anthropogenic influences (i.e. trawling, dumping, or sewage release). No visible anthropogenic influences, such as trawling or boating, were witnessed in the shoal areas of the La Quinta Channel, either, but they could have occurred. The sampling period took place during a wet year. According to Kalke and Montagna (1991), benthos do better during wet years. Lastly, no dredging occurred in the La Quinta Channel during the study period (the last dredging occurred during early- to mid-1991). However, the study done by Flint and Younk (1983) had six stations at the junction of the La Quinta Channel and the Corpus Christi Ship Channel. These stations were sampled every month. Mediomastus ambiseta was one of the dominant species and occurred in every sample, but so was the pioneering species Paraprionospio pinnata. With these caveats in mind, the present data suggests a lack of disturbance.

When a disturbance has not occurred recently then the benthic diversity will be high, however, if an area was disturbed recently then the diversity will be low. Diversity was even at every station except for station NCD. Using H', the mean overall diversity at the La Quinta Channel stations was 2.45 and the Corpus Christi Bay stations had 1.99. The Bay stations without NCD had a diversity index of 2.32. Measures of species diversity (H') in previous studies of the La Quinta Channel averaged 1.74 (Holland *et al.*, 1974), 1.83 (Holland *et al.*, 1975), 3.76 (Flint *et al.*, 1980; Flint and Younk, 1986), and 3.49 (Flint *et al.*, 1983). Corpus Christi Bay averaged 2.89 (Holland *et al.*, 1974), 3.26 (Holland *et al.*, 1975), 1.63 (Flint *et al.*, 1983), and 2.41 (Montagna and Kalke, 1992). The diversity indices of this study were within the range of past studies of the study areas, again supporting the conclusion that La Quinta Channel was not recently disturbed.

The average abundance and biomass to a depth of 10 cm during this study period are analogous to those of previous studies. There was an average of 22,470 individuals·m⁻² and 13.8 g·m⁻² in the La Quinta Channel stations and 20,128 individuals·m⁻² and 9.8 g·m⁻² for Corpus Christi Bay (Table 2, Table 3, Table 7, Table 8). The numbers of individuals found in La Quinta Channel in previous studies (Flint *et al.*, 1980; Flint *et al.*, 1983; Flint and Younk, 1983) were much lower, averaging 9,000 individuals·m⁻². The likely reason our numbers were higher is that we used a core to sample, rather than a Peterson grab. Their biomass was figured as wet weight and cannot be compared. The numbers of individuals found in Corpus Christi Bay by Montagna and Kalke (1992) averaged 20,000 individuals·m⁻² and only 4.4 g·m⁻². Even though the numbers of individuals·m⁻² was the same between the two studies, our biomass was higher because NCC had ophiuroids throughout the sampling period which added 4 g·m⁻² to our total. No ophiuroids were reported by Montagna and Kalke (1992). When the techniques employed for collecting and measuring benthos in this study are similar to those of previous studies, the abundance and biomass are comparable.

The large amounts of individuals and biomass indicates that the sediment was not highly contaminated with pollutants. Sediment was analyzed for trace metals,

volatile organics, and extractable organics by AnalySys, Inc. (1993). They sampled stations 1A, 1B, 2A, 2B, 3A, and 3B. The A stations were in the Channel, while the B stations were located in shoals. AnalySys stations 1B, 2B, and 3B were the same as LQA, LQB, and LQC reported in the present study. The concentrations of all of the volatile organics were below detection limits. Most of the extractable organics concentrations were also below detection limits, except for dibutyl phthalate (*n*-Butyl Phthalate), which has a lower testing limit of 200 $\mu\text{g/Kg}$. Dibutylphthalate, which is used as an insect repellent for the impregnation of clothing and is soluble in 2500 parts water (Budavari, 1989), was present at levels of 650 $\mu\text{g/Kg}$, 1700 $\mu\text{g/Kg}$, and 3900 $\mu\text{g/Kg}$ at stations 1B, 2B, and 3B, respectively. There were several trace metals that were detectable, but not by much (Table 9). After comparing the levels of trace metals with a report written by Long and Morgan (1991), all of the trace metals were considered to be in the "no effect" range. Other studies in Ingleside Cove (Fig. 2) examined concentrations of pollutants in the oyster *Crassostrea virginica* (Presley *et al.*, 1990; Sericano *et al.*, 1990; Sericano *et al.*, 1992; Garcia-Romero *et al.*, 1993). Pesticides, including DDT and non-DDT, PCB's, and chlordane-related pesticides, were at or below the average found along the Texas coast. The pesticide DDT was found at levels of less than 1 $\text{ng}\cdot\text{g}^{-1}$ dry weight, the non-DDT pesticides were found at levels of 1 $\text{ng}\cdot\text{g}^{-1}$ dry weight, and PCB's were measured to be less than 10 $\text{ng}\cdot\text{g}^{-1}$ dry weight (Sericano *et al.*, 1990). The chlordane-related pesticides averaged 8.89 $\text{ng}\cdot\text{g}^{-1}$ dry weight (Sericano *et al.*, 1992). Garcia-Romero *et al.* (1993) determined that an anti-fouling paint (Tributyltin) and its degradants were above the average for the Texas coast with 200 $\text{ng Sn}\cdot\text{g}^{-1}$ for tributyltin, 75 $\text{ng Sn}\cdot\text{g}^{-1}$ for dibutyltin, and 30 $\text{ng Sn}\cdot\text{g}^{-1}$ for monobutyltin. A study by Presley *et al.* (1990) calculated that oysters accumulated 100 ppb of mercury in the Ingleside Cove area, which was lower than average amounts found along the Texas coast. La Quinta Channel, which has some pollution in it, appears to be as clean or cleaner than most bays along the Texas coast.

There was dredging in Corpus Christi Bay from the junction of the La Quinta Channel and the Corpus Christi Ship Channel to Beacon 82 (1 mile south of Harbor Bridge), but there has been no dredging in the La Quinta Channel since July, 1991 (Robert Beggs at Corps of Engineers, Corpus Christi, personal communication). There were 1,011 ships that went through the Inner Channel (part of the Corpus Christi Ship Channel) and 179 that went through the La Quinta Channel in 1992; 1,124 ships went through the Inner Channel and 124 went through the La Quinta Channel in 1993 (Port of Corpus Christi, personal communication). The ship traffic of concern were ships with drafts of over 10 meters. While shrimper traffic has been witnessed during each of the sampling periods, we have no information about how heavy the traffic was during the study year or which specific areas were trawled. Heavy storms, such as hurricanes or tropical storms, did not come through the Corpus Christi Bay system during the sampling period either. Considering the above, apparently no true disturbances took place in the Corpus Christi Bay system during this study.

Throughout the study period, both the La Quinta Channel stations and the Corpus Christi Bay stations had similar benthic diversity, abundance and biomass and community structure. During the study, there was little evidence that disturbances

occurred, except for the simple occasions at NCC and NCD. Based on an analysis of the data from the present study and a comparison with data from previous studies, there is no evidence that the stations sampled in La Quinta Channel are less healthy or undisturbed than the stations sampled in Corpus Christi Bay.

ACKNOWLEDGEMENTS

This project was initiated by the Coastal Bend Bays Foundation, local industries, the Texas Water Commission, and other environmental groups to perform an environmental assessment of the La Quinta Channel in Corpus Christi Bay. This project was partially supported by a grant from the Coastal Bend Bays Foundation to Dr. Paul Montagna, research scientist at UTMSI. Partial support was also provided by the University of Texas Marine Science Institute, the Texas Water Development Board under grant numbers 93-483-352 and 94-483-003, and Texas A&M University, Sea Grant College Program, project number R/ES-57.

Richard D. Kalke, a research associate at UTMSI was instrumental in the collection of the samples and in aiding with the identification and techniques. Antonio Mannino, a M.S. candidate at UT Austin, and Robert Burgess and Robert Rewolinski, research scientist assistants at UTMSI, helped in the collection of the samples. Carol Simanek aided with the computer work and data management.

REFERENCES

- ALATALO, R.V. 1981. Problems in the measurement of evenness in ecology. *Oikos*. 37:199-204.
- ANALYSYS, INC. 1993. La Quinta Channel environmental assessment. Report to Coastal Bend Bays Foundation. 30 p.
- BUDAVARI, S. 1989. *The Merck Index: An encyclopedia of chemicals, drugs, and biologicals*. Merck & Co. Rahway, New Jersey. p. 1606 plus tables and indexes.
- FAUCHALD, K. 1977. The polychaete worms: definitions and keys to the orders, families, and genera. Natural History Museum of Los Angeles County, Science Series. 28:1-190.
- FAUCHALD, K. and P. JUMARS. 1980. The diet of worms: A study of polychaete feeding guilds. *Oceanographic and Marine Biology Annual Reviews*. 17:193-284.
- FLINT, R.W. and R.D. KALKE. 1986. Niche characterization of dominant estuarine benthic species. *Estuarine, Coastal and Shelf Science*. 22:657-674.
- FLINT, R.W. and J.A. YOUNK. 1983. Estuarine benthos: Long-term community structure variations, Corpus Christi Bay, Texas. *Estuaries*. 6(2):126-141.
- FLINT, R.W., R.D. KALKE, and S.C. RABALAIS. 1981. Quantification of extensive freshwater input to estuarine benthos. Contract number IAC(80-81), Texas Department of Water Resources, Austin, Texas. 55 p. plus appendices.
- FLINT, R.W., R.D. KALKE, and M.J. MCCOID. 1983. The Corpus Christi Bay ecosystem: Research applied to management. Report to Texas Department of Water Resources. Contract #IAC (82-83) 1900. 47 p. plus appendices.
- FLINT, R.W., M.J. POFF and J. YOUNK. 1980. A benthic infaunal survey of the Corpus Christi ship channel area near Ingleside, Texas. Final report submitted to Natural Gas Pipeline Company of America, Chicago, Illinois. 80 p. plus appendices.
- FOLK, R.L. 1964. Petrology of sedimentary rocks. Hemphill's Press. Austin, Texas. 155 p.
- GRAY, J.S., M. ASCHAN, M.R. CARR, K.R. CLARKE, R.H. GREEN, T.H. PEARSON, R. ROSENBERG, and R.M. WARWICK. 1988. Analysis of community attributes of the benthic macrofauna of Frierfjord/Langesundfjord and in a mesocosm experiment. Marine Ecology Progress Series. 46:151-165.

- HEDGES, J.I. and J.H. STERN. 1984. Carbon and nitrogen determinations of carbonate-containing solids. *Limnology and Oceanography*. 29:657-663.
- HILL, M. O. 1973. Diversity and evenness: a unifying notation and its consequences. *Ecology*. 54:427-432.
- HOLLAND, J.S., N.J. MACIOLEK, R.D. KALKE, L. MULLINS, C.H. OPPENHEIMER. 1973. A benthos and plankton study of the Corpus Christi, Copano, and Aransas Bay systems I. Report on data collected during the period September, 1972 - June, 1973. Report to Texas Water Development Board. 122 p. plus appendices.
- HOLLAND, J.S., N.J. MACIOLEK, R.D. KALKE, L. MULLINS, C.H. OPPENHEIMER. 1974. A benthos and plankton study of the Corpus Christi, Copano, and Aransas Bay systems II. Report on data collected during the period July, 1973 - April, 1974. Report to Texas Water Development Board. 121 p.
- HOLLAND, J.S., N.J. MACIOLEK, R.D. KALKE, L. MULLINS, C.H. OPPENHEIMER. 1975. A benthos and plankton study of the Corpus Christi, Copano, and Aransas Bay systems III. Report on data collected during the period July, 1974 - May, 1975 and summary of the three-year project. Final report to Texas Water Development Board. 174 p. plus appendices.
- HOLME, N.A. and A.D. MCINTYRE. 1971. Methods for the study of marine benthos. Blackwell Scientific Publications, Oxford. 334 p.
- KENNISH, M.J. 1986. Ecology of estuaries: Volume I: Physical and chemical aspects. CRC Press, Boca Raton, Florida. 254 p.
- KALKE, R. and P.A. MONTAGNA. 1991. The effect of freshwater inflow on macrobenthos in the Lavaca River delta and upper Lavaca Bay, Texas. *Contributions in Marine Science*. 32:49-71.
- KIRK, R.E. 1982. Experimental design. 2nd Ed. Brooks/Cole Publ. Co., Monterey, California. 911 p.
- LONG, E.R. and L.G. MORGAN. 1990. The potential for biological effects of sediment-sorbed contaminants tested in the National Status and Trends Program. NOAA Technical Memorandum NOS OMA 52. U.S. Dept. of Commerce, National Oceanographic and Atmospheric Administration, Seattle, WA. 215 p.
- MARGALEF, R. 1958. Information theory in ecology. *General Systematics*. 3:36-71.

- MONTAGNA, P.A. and R.D. KALKE. 1992. The Effect of freshwater inflow on meiofaunal and macrofaunal populations in the Guadalupe and Nueces Estuaries, Texas. *Estuaries*. 15:266-285.
- ODUM, W.E. 1969. The strategy of ecosystem development. *Science*. 16:262-270
- OGLESBY, R.T. 1967. Biological and physiological basis of indicator organisms and communities: Section I - Biological basis, p. 267-269. *In* T.A. Olson and F.J. Burgess (eds.), *Pollution and Marine Ecology*. Interscience Publishers, New York.
- OSBORNE, T. and L. GRACE. 1981. Estuaries, p. 37-69. *In* C.H. Oppenheimer (ed.), *Marine Ecosystems*. University of Texas at Austin.
- PIELOU, E.C. 1975. Ecological Diversity. Wiley, New York. 165 p.
- RHOADS, D.C., P.L. MCCALL, and J.Y. YINGST. 1978. Disturbance and production on the estuarine seafloor. *American Scientist*. 66:577-586.
- SAS Institute, Incorporated. 1985. SAS/STAT Guide for Personal Computers, Version 6. SAS Institute Inc., Cary, North Carolina. 378 p.
- SHANNON, C.E. and W. WEAVER. 1971. The Mathematical Theory of Communication. University of Illinois Press. Urbana, Illinois. 125 p.
- SHIDELER, G.L. 1980. Reconnaissance observations of some factors influencing the turbidity structure of a restricted estuary: Corpus Christi Bay, Texas. *Texas Journal of Science*. 22:59-71.
- SIMPSON, E.H. 1949. Measurement of diversity. *Nature*. 163:688.
- SOULE, D. F. 1988. Marine organisms as indicators: reality or wishful thinking? p. 1-11. *In* Soule, D. F. and G. S. Kleppel (eds.), *Marine Organisms as Indicators*. Springer-Verlag, New York.
- WASS, M.L. 1967. Biological and physiological basis of indicator organisms and communities: Section II - Indicators of pollution. p. 267-269. *In* T.A. Olson and F.J. Burgess (eds.), *Pollution and Marine Ecology*. Interscience Publishers, New York.

Table 1. Vertical distribution of macrofauna taxa. Mean biomass ($\text{g}\cdot\text{m}^{-2}$) and abundance ($n\cdot\text{m}^{-2}$) of taxonomic categories. SD = Standard Deviation.

Station Taxa		Section (in cm)							
		0-3				3-10			
		$n\cdot\text{m}^{-2}$		$\text{g}\cdot\text{m}^{-2}$		$n\cdot\text{m}^{-2}$		$\text{g}\cdot\text{m}^{-2}$	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
LQA	Crustacea	449	372	0.024	0.021	236	398	0.016	0.033
	Hemichordata	.	.	.	.	24	32	0.020	0.070
	Mollusca	544	573	0.169	0.331	544	901	0.138	0.271
	Rhynchocoela	284	270	0.229	0.513	236	266	0.155	0.326
	Other	142	226	0.024	0.045	165	283	0.602	1.476
	Ophiuroidea	95	140	0.008	0.019	.	.	.	.
	Polychaeta	10,613	4,794	3.049	2.095	12,078	4,846	15.692	9.694
	Sipunculida	.	.	.	.	24	82	0.010	0.033
	TOTAL	12,127	6,375	3.503	3.024	13,307	6,808	16.633	11.903
LQB	Crustacea	473	425	0.027	0.022	142	284	0.012	0.028
	Mollusca	473	677	0.149	0.348	165	352	0.022	0.043
	Rhynchocoela	165	225	0.019	0.028	142	284	0.023	0.042
	Other	2,600	5,259	0.622	1.297	189	425	0.009	0.021
	Ophiuroidea	71	176	0.049	0.162	24	82	0.214	0.743
	Polychaeta	8,367	3,556	3.003	4.595	8,202	3,896	6.764	7.155
	Sipunculida	24	82	0.001	0.004	24	82	0.005	0.016
	TOTAL	12,173	10,400	3.870	6.456	8,888	5,405	7.049	8.048
LQC	Crustacea	780	438	0.064	0.100	118	190	0.027	0.074
	Hemichordata	24	82	0.005	0.018	.	.	.	.
	Mollusca	1,064	757	0.572	1.013	615	896	0.101	0.165
	Rhynchocoela	449	255	0.482	1.228	355	299	0.096	0.085
	Other	567	1,128	0.054	0.114	71	128	0.015	0.032
	Ophiuroidea	165	190	0.190	0.470	24	82	0.005	0.018
	Polychaeta	10,069	3,262	2.613	3.100	6,547	3,456	6.045	4.822
	Sipunculida	47	110	0.072	0.221	.	.	.	.
	TOTAL	13,165	6,222	4.052	6.264	7,730	5,051	6.289	5.196

Table 1. Vertical distribution of macrofauna, continued.

Station Taxa		Section (in cm)							
		0-3				3-10			
		$n \cdot m^{-2}$		$g \cdot m^{-2}$		$n \cdot m^{-2}$		$g \cdot m^{-2}$	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
NCC	Crustacea	449	534	0.014	0.018	118	225	0.015	0.039
	Mollusca	449	534	0.664	1.070	24	82	0.035	0.120
	Rhynchocoela	165	190	0.024	0.036	189	221	0.261	0.584
	Other	47	164	0.002	0.007	24	82	0.002	0.007
	Ophiuroidea	236	237	0.598	1.686	165	190	3.670	6.732
	Polychaeta	12,457	14,698	1.332	0.831	3,876	1,970	5.092	3.592
	Sipunculida	95	185	0.067	0.164	.	.	.	.
	TOTAL	13,898	16,542	2.701	3.812	4,396	2,770	9.075	11.074
NCD	Crustacea	520	754	0.030	0.039	95	221	0.004	0.011
	Mollusca	780	486	0.071	0.118	24	82	0.001	0.004
	Rhynchocoela	260	307	0.046	0.066	.	.	.	.
	Other	71	128	0.243	0.719	.	.	.	.
	Ophiuroidea	24	82	0.014	0.050	71	176	0.256	0.850
	Polychaeta	13,898	14,467	0.806	0.626	5,815	10,316	0.951	0.976
	Sipunculida	165	330	0.010	0.018	.	.	.	.
	TOTAL	15,718	16,554	1.220	1.636	6,005	10,795	1.212	1.841
NCE	Crustacea	1,702	2,739	0.092	0.156	544	534	0.073	0.088
	Mollusca	638	470	0.249	0.427	142	191	0.022	0.039
	Rhynchocoela	307	255	0.071	0.077	189	252	0.294	0.690
	Other	331	433	0.058	0.098	165	190	0.048	0.066
	Ophiuroidea	165	225	0.050	0.101	142	191	0.724	1.357
	Polychaeta	7,847	3,237	4.730	5.817	8,107	5,462	9.316	6.057
	Sipunculida	71	176	0.013	0.041	.	.	.	.
	TOTAL	11,061	7,535	5.263	6.717	9,289	6,820	10.477	8.297

Table 2: Bay-wide taxa dominance of macrofauna taxa. Mean biomass ($\text{g}\cdot\text{m}^{-2}$) to a depth of 10 cm.

TAXA	$\text{g}\cdot\text{m}^{-2}$	PERCENT
Polychaeta	9.90	83.25
Ophiuroidea	0.96	8.10
Mollusca	0.37	3.07
Rhynchocoela	0.28	2.38
Other	0.28	2.35
Crustacea	0.07	0.56
Sipunculida	0.03	0.25
Hemichordata	0.00	0.04
TOTAL	11.89	100.00

Table 3: Biomass dominance of taxa at stations to a depth of 10 cm. Based on mean $\text{g}\cdot\text{m}^{-2}$. STA = Station; PCT = Percent of mean; C = Crustacea; H = Hemichordata; M = Mollusca; R = Rhynchocoela; O = Other; OP = Ophiuroidea; P = Polychaeta; S = Sipunculida.

STA	TAXA	$\text{g}\cdot\text{m}^{-2}$	PCT
LQA	C	0.04	0.20
	H	0.02	0.10
	M	0.31	1.53
	R	0.38	1.90
	O	0.63	3.11
	OP	0.01	0.04
	P	18.74	93.07
	S	0.01	0.05
LQB	C	0.04	0.36
	M	0.17	1.57
	R	0.04	0.39
	O	0.63	5.78
	OP	0.26	2.41
	P	9.77	89.44
	S	0.01	0.05
LQC	C	0.09	0.88
	H	0.01	0.05
	M	0.67	6.51
	R	0.58	5.59
	O	0.07	0.66
	OP	0.20	1.89
	P	8.66	83.73
	S	0.07	0.69

Table 3: Biomass dominance of taxa, continued.

STA	TAXA	g·m ⁻²	PCT
NCC	C	0.03	0.25
	M	0.70	5.93
	R	0.29	2.42
	O	0.00	0.03
	OP	4.27	36.24
	P	6.42	54.55
	S	0.07	0.57
NCD	C	0.03	1.41
	M	0.07	2.96
	R	0.05	1.89
	O	0.24	10.00
	OP	0.27	11.11
	P	1.76	72.23
	S	0.01	0.40
NCE	C	0.17	1.05
	M	0.27	1.72
	R	0.37	2.32
	O	0.11	0.67
	OP	0.77	4.92
	P	14.05	89.23
	S	0.01	0.08

Table 4: Bay-wide taxa dominance. Mean $n \cdot m^{-2}$ to a depth of 10 cm.

TAXA	$n \cdot m^{-2}$	PERCENT
Polychaeta	17979.62	84.44
Crustacea	937.59	4.40
Mollusca	910.01	4.27
Other	728.80	3.42
Rhynchocoela	456.98	2.15
Ophiuroidea	196.97	0.93
Sipunculida	74.85	0.35
Hemichordata	7.88	0.04
TOTAL	21292.70	100.00

Table 5: Abundance dominance of taxa at stations based on mean $n \cdot m^{-2}$ to a depth of 10 cm. STA = Station; PCT = Percent of mean; C = Crustacea; H = Hemichordata; M = Mollusca; R = Rhynchocoelaa; O = Other; OP = Ophiuroidea; P = Polychaeta; S = Sipunculida.

STA	TAXA	$n \cdot m^{-2}$	PCT
LQA	C	685.46	2.70
	H	23.64	0.09
	M	1087.29	4.28
	R	520.01	2.04
	O	307.28	1.21
	OP	94.55	0.37
	P	22691.20	89.22
	S	23.64	0.09
LQB	C	614.55	2.92
	M	638.19	3.03
	R	307.28	1.46
	O	2789.13	13.24
	OP	94.55	0.45
	P	16569.30	78.68
	S	47.27	0.22
LQC	C	898.19	4.30
	H	23.64	0.11
	M	1678.20	8.03
	R	803.65	3.85
	O	638.19	3.05
	OP	189.09	0.90
	P	16616.58	79.52
	S	47.27	0.23

Table 5: Abundance dominance of taxa at stations, continued.

STA	TAXA	n·m ⁻²	PCT
NCC	C	567.28	3.10
	M	472.73	2.58
	R	354.55	1.94
	O	70.91	0.39
	OP	401.82	2.20
	P	16332.94	89.28
	S	94.55	0.52
NCD	C	614.55	2.83
	M	803.65	3.70
	R	260.00	1.20
	O	70.91	0.33
	OP	94.55	0.44
	P	19712.98	90.75
	S	165.46	0.76
NCE	C	2245.48	11.03
	M	780.01	3.83
	R	496.37	2.44
	O	496.37	2.44
	OP	307.28	1.51
	P	15954.75	78.40
	S	70.91	0.35

Table 6: Average diversity indices in La Quinta Channel and Corpus Christi Bay. STA = station; R1 = species richness; N0 = total number of species; N1 = total number of abundant species; E1 = species evenness. Mean of 3 replicates.

DATE	STA	R1	N0	N1	E1
09OCT92	LQA	3.47574	15.6667	8.9591	0.79920
09OCT92	LQB	2.72445	11.3333	6.9239	0.79640
09OCT92	LQC	4.60928	21.0000	7.7833	0.67865
09OCT92	NCC	2.50653	13.6667	4.0431	0.53229
09OCT92	NCD	1.32389	8.0000	1.8895	0.30790
09OCT92	NCE	4.31342	18.6667	10.4603	0.80902
15JAN93	LQA	5.35674	25.6667	14.2853	0.81348
15JAN93	LQB	4.58231	22.3333	11.5281	0.75997
15JAN93	LQC	5.93192	27.0000	16.9306	0.85615
15JAN93	NCC	3.46781	14.3333	7.9525	0.78258
15JAN93	NCD	2.95579	10.0000	8.4955	0.92923
15JAN93	NCE	6.12999	25.3333	18.6676	0.90916
09APR93	LQA	5.34192	25.3333	14.3291	0.82135
09APR93	LQB	3.86165	18.0000	11.2629	0.83710
09APR93	LQC	6.43306	29.6667	20.9114	0.89276
09APR93	NCC	3.52698	13.3333	10.8908	0.92244
09APR93	NCD	2.61831	12.0000	2.7703	0.39444
09APR93	NCE	5.25370	23.3333	15.6772	0.87424
10JUL93	LQA	4.56691	21.3333	13.8824	0.85319
10JUL93	LQB	3.36056	15.0000	10.0510	0.83792
10JUL93	LQC	4.66032	19.0000	12.2708	0.84713
10JUL93	NCC	3.30712	11.0000	9.7165	0.94438
10JUL93	NCD	2.17279	7.3333	4.7813	0.79203
10JUL93	NCE	4.53208	21.6667	12.8690	0.82704

Table 7: La Quinta Channel species list. Average density ($n \cdot m^{-2}$) over entire year.
Totals may vary slightly from totals of other tables due to roundoff errors.

Taxa	Stations		
	LQA	LQB	LQC
Cnidaria			
Anthozoa			
Anthozoa (unidentified)	118	189	95
Platyhelminthes			
Turbellaria			
Turbellaria (unidentified)	71	71	47
Rynchocoela			
Rhynchocoel (unidentified)	520	307	804
Phoronida			
Phoronis architecta	95	47	402
Mollusca			
Mollusca (unidentified)	0	24	118
Gastropoda			
Vitrinellidae			
<i>Vitrinella floridana</i>	47	0	24
Caecidae			
<i>Caecum johnsoni</i>	118	71	118
Truncatellidae			
<i>Truncatella caribaeensis</i>	0	24	0
Pyramidellidae			
<i>Pyrgiscus</i> sp.	0	24	0
Acteonidae			
<i>Rictaxis punctostriatus</i>	24	0	47
Retusidae			
<i>Acteocina canaliculata</i>	0	24	0
Crepidulidae			
<i>Crepidula fornicata</i>	0	24	24
Scaphopoda			
Dentaliidae			
<i>Dentalium texasianum</i>	47	0	0
Pelecypoda			
Nuculanidae			
<i>Nuculana acuta</i>	118	47	71
Arcidae			
<i>Anadara transversa</i>	0	0	47
Lucinidae			
<i>Lucina multilineata</i>	24	47	142
<i>Lucina pectinata</i>	24	0	0

Table 7: La Quinta Channel species list, continued.

Taxa	Stations		
	LQA	LQB	LQC
Leptonidae			
<i>Mysella planulata</i>	47	0	24
Tellinidae			
<i>Macoma tenta</i>	24	0	24
<i>Macoma brevifrons</i>	0	0	0
<i>Tellina</i> sp	24	0	95
<i>Tellina texana</i>	71	142	284
<i>Tellidora cristata</i>	0	0	24
Semelidae			
<i>Abra aequalis</i>	47	0	0
Veneridae			
<i>Mercenaria campechiensis</i>	0	0	0
<i>Chione cancellata</i>	0	0	24
Lyonsiidae			
<i>Lyonsia hyalina floridana</i>	47	0	0
Sportellidae			
<i>Aligena texasiana</i>	165	165	449
Mactridae			
<i>Mulinia lateralis</i>	24	47	118
Periplomatidae			
<i>Periploma</i> cf. <i>orbiculare</i>	213	0	24
<i>Periploma margaritaceum</i>	24	0	24
Annelida			
Polychaeta			
Polynoidae			
<i>Eunoe</i> cf. <i>nodulosa</i>	0	0	47
Sigalionidae			
<i>Sthenelais boa</i>	0	0	0
Palmyridae (= Chrysopetalidae)			
<i>Paleanotus heteroseta</i>	1,064	71	473
Phyllodocidae			
<i>Eteone heteropoda</i>	0	0	95
<i>Eteone lactea</i>	0	0	0
<i>Eumida sanguinea</i>	71	165	95
<i>Paranaitis speciosa</i>	0	0	0
<i>Anaitides erythrophyllus</i>	0	0	71

Table 7: La Quinta Channel species list, continued.

Taxa	Stations		
	LQA	LQB	LQC
Pilargiidae			
<i>Sigambra bassi</i>	0	0	24
<i>Litocorsa stremma</i>	0	0	24
Pilargiidae (unidentified)	0	0	24
Hesionidae			
<i>Gyptis vittata</i>	425	165	355
<i>Podarke obscura</i>	24	47	0
Hesionidae (unidentified)	0	0	24
Syllidae			
<i>Syllis</i> sp.	0	0	24
<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	165	165	402
<i>Sphaerosyllis</i> sp. A	591	331	473
<i>Synsyllis longigularis</i>	0	1,229	355
<i>Opisthosyllis</i> sp.	0	0	142
Syllidae (unidentified)	0	118	0
Nereidae			
<i>Nereis</i> sp. A	0	0	47
<i>Ceratonereis irritabilis</i>	0	0	0
<i>Laeonereis culveri</i>	71	0	47
Nereidae (unidentified)	24	0	24
Nephtyidae			
<i>Nephtys magellanica</i>	0	0	24
Glyceridae			
<i>Glycera americana</i>	520	236	307
Goniadidae			
<i>Glycinde solitaria</i>	165	95	47
<i>Glycinde nordmanni</i>	0	0	0
Onuphidae			
<i>Diopatra cuprea</i>	24	47	118
<i>Onuphis eremita</i>	0	0	71
Lumbrineridae			
<i>Lumbrineris parvapedata</i>	544	24	47
Arabellidae			
<i>Drilonereis magna</i>	95	0	0

Table 7: La Quinta Channel species list, continued.

Taxa	Stations		
	LQA	LQB	LQC
Dorvilleidae			
<i>Schistomeringos rudolphi</i>	142	71	47
<i>Schistomeringos</i> sp. A	1,205	662	142
<i>Dorvillea rubra</i>	0	0	236
Spionidae			
<i>Polydora ligni</i>	24	0	0
<i>Minuspio cirrifera</i>	284	142	544
<i>Paraprionospio pinnata</i>	165	24	118
<i>Apoprionospio pygmaea</i>	0	0	0
<i>Scolecopsis texana</i>	47	24	0
<i>Spiophanes bombyx</i>	118	236	378
<i>Polydora socialis</i>	24	0	0
<i>Streblospio benedicti</i>	638	284	24
<i>Polydora caulleryi</i>	24	260	0
<i>Spio setosa</i>	24	118	0
Magelonidae			
<i>Magelona pettiboneae</i>	0	24	118
<i>Magelona phyllisae</i>	0	0	71
Chaetopteridae			
<i>Spiochaetopterus costarum</i>	47	24	142
Cirratulidae			
<i>Tharyx setigera</i>	3,782	402	425
Cirratulidae (unidentified)	24	0	0
Cossuridae			
<i>Cossura delta</i>	47	0	0
Orbiniidae			
<i>Haploscoloplos foliosus</i>	0	47	71
<i>Naineris</i> sp. A	0	0	24
Paraonidae			
Paraonidae Grp. A	1,678	2,576	1,418
Paraonidae Grp. B	2,127	2,505	1,678
Opheliidae			
<i>Armandia agilis</i>	24	0	24
<i>Armandia maculata</i>	95	71	95

Table 7: La Quinta Channel species list, continued.

Taxa	Stations		
	LQA	LQB	LQC
Capitellidae			
<i>Capitella capitata</i>	0	24	24
<i>Notomastus latericeus</i>	95	0	0
<i>Mediomastus ambiseta</i>	4,633	3,664	5,366
Maldanidae			
<i>Branchioasychis americana</i>	118	0	0
<i>Clymenella torquata</i>	993	473	402
<i>Asychis elongata</i>	47	0	24
<i>Euclymene</i> sp. B	0	0	0
<i>Axiothella mucosa</i>	709	189	615
Maldanidae (unidentified)	95	0	142
Oweniidae			
<i>Owenia fusiformis</i>	24	0	.47
Pectinariidae			
<i>Pectinaria gouldii</i>	0	24	0
Ampharetidae			
<i>Isolda pulchella</i>	24	0	165
<i>Melinna maculata</i>	0	0	47
Ampharetidae (unidentified)	0	24	0
Terebellidae			
<i>Terebellides stroemi</i>	0	0	24
Sabellidae			
<i>Megalomma bioculatum</i>	0	0	24
Polychaete juv. (unidentified)	0	0	0
Oligochaeta			
Oligochaetes (unidentified)	1,655	2,033	827
Sipuncula			
<i>Phascolion strombi</i>	24	47	47
Crustacea			
Ostracoda			
Myodocopa			
<i>Sarsiella texana</i>	0	142	213

Table 7: La Quinta Channel species list, continued.

Taxa	Stations		
	LQA	LQB	LQC
Copepoda			
Cyclopoida			
Cyclopidae			
<i>Hemicyclops</i> sp.	0	0	0
Malacostraca			
Reptantia			
Porcellanidae			
<i>Euceramus praelongus</i>	0	0	24
Pinnotheridae			
<i>Pinnixa</i> sp.	0	0	0
Brachyuran Larvae			
Brachyuran zoea	0	0	0
Mysidacea			
<i>Mysidopsis bahia</i>	24	0	0
<i>Mysidopsis</i> sp.	0	0	0
Cumacea			
<i>Cyclaspis varians</i>	24	0	24
<i>Leucon</i> sp.	0	0	0
<i>Oxyurostylis salinoi</i>	0	95	95
Amphipoda			
Ampeliscidae			
<i>Ampelisca abdita</i>	71	0	24
<i>Ampelisca verrilli</i>	71	47	307
Oedicerotidae			
<i>Monoculodes</i> sp.	0	0	0
Corophiidae			
<i>Erichthonias brasiliensis</i>	0	24	24
<i>Cerapus tubularis</i>	0	0	0
<i>Microprotopus</i> spp.	0	47	24
<i>Lembos</i> sp.	0	24	0
Liljeborgiidae			
<i>Listriella barnardi</i>	0	0	0
<i>Listriella clymenellae</i>	496	213	118
Caprellidae			
Caprellid	0	0	0

Table 7: La Quinta Channel species list, continued.

Taxa	Stations		
	LQA	LQB	LQC
Amphilochidae			
<i>Amphilochus</i> sp.	0	0	0
Amphithoidae			
<i>Cymadusa compta</i>	0	0	0
Melitidae			
<i>Elasmopus</i> sp.	0	0	0
Isopoda			
Munnidae			
<i>Munna hayesi</i>	0	0	24
Idoteidae			
<i>Edotea montosa</i>	0	0	24
Echinodermata			
Ophiuroidea			
Ophiuroidea (unidentified)	95	95	189
Chordata			
Urochordata			
Ascidiaceae			
<i>Molgula manhattensis</i>	0	2,482	0
Ascidiacea (unidentified)	0	0	95
Hemichordata			
<i>Branchiostoma caribaeum</i>	24	0	0
<i>Schizocardium</i> sp.	24	0	24
TOTAL	25,440	21,063	20,907

Table 8: Corpus Christi Bay species list. Average density (n·m⁻²) over entire year.
Totals may vary slightly from totals of other tables due to roundoff errors.

Taxa	Stations		
	NCC	NCD	NCE
Cnidaria			
Anthozoa			
Anthozoa (unidentified)	24	71	189
Platyhelminthes			
Turbellaria			
Turbellaria (unidentified)	24	0	24
Rynchocoela			
Rhynchocoel (unidentified)	355	260	496
Phoronida			
Phoronis architecta	24	0	165
Mollusca			
Mollusca (unidentified)	0	24	47
Gastropoda			
Vitrinellidae			
<i>Vitrinella floridana</i>	0	0	24
Caecidae			
<i>Caecum johnsoni</i>	0	0	24
Truncatellidae			
<i>Truncatella caribaeensis</i>	0	0	0
Pyramidellidae			
<i>Pyrgiscus</i> sp.	0	0	0
Acteonidae			
<i>Rictaxis punctostriatus</i>	0	284	118
Retusidae			
<i>Acteocina canaliculata</i>	0	95	0
Crepidulidae			
<i>Crepidula fornicata</i>	0	0	0
Scaphopoda			
Dentaliidae			
<i>Dentalium texasianum</i>	0	0	0
Pelecypoda			
Nuculanidae			
<i>Nuculana acuta</i>	71	0	71
Arcidae			
<i>Anadara transversa</i>	0	0	24
Lucinidae			
<i>Lucina multilineata</i>	0	0	0
<i>Lucina pectinata</i>	0	0	0

Table 8: Corpus Christi Bay species list, continued.

Taxa	Stations		
	NCC	NCD	NCE
Leptonidae			
<i>Mysella planulata</i>	0	0	0
Tellinidae			
<i>Macoma tenta</i>	0	0	47
<i>Macoma brevifrons</i>	0	24	0
<i>Tellina</i> sp	0	0	0
<i>Tellina texana</i>	0	0	0
<i>Tellidora cristata</i>	0	0	0
Semelidae			
<i>Abra aequalis</i>	24	0	0
Veneridae			
<i>Mercenaria campechiensis</i>	0	24	0
<i>Chione cancellata</i>	0	0	0
Lyonsiidae			
<i>Lyonsia hyalina floridana</i>	24	0	0
Sportellidae			
<i>Aligena texasiana</i>	0	47	189
Mactridae			
<i>Mulinia lateralis</i>	331	213	142
Periplomatidae			
<i>Periploma</i> cf. <i>orbiculare</i>	24	95	71
<i>Periploma margaritaceum</i>	0	0	0
Annelida			
Polychaeta			
Polynoidae			
<i>Eunoe</i> cf. <i>nodulosa</i>	0	0	0
Sigalionidae			
<i>Sthenelais boa</i>	0	0	24
Palmyridae (= Chrysopetalidae)			
<i>Paleanotus heteroseta</i>	165	0	685
Phyllodocidae			
<i>Eteone heteropoda</i>	24	0	71
<i>Eteone lactea</i>	0	24	47
<i>Eumida sanguinea</i>	0	0	0
<i>Paranaitis speciosa</i>	0	24	0
<i>Anaitides erythrophyllus</i>	0	0	24

Table 8: Corpus Christi Bay species list, continued.

Taxa	Stations		
	NCC	NCD	NCE
Pilargiidae			
<i>Sigambra bassi</i>	0	0	0
<i>Litocorsa stremma</i>	0	0	0
Pilargiidae (unidentified)	0	0	0
Hesionidae			
<i>Gyptis vittata</i>	284	118	827
<i>Podarke obscura</i>	0	24	24
Hesionidae (unidentified)	0	0	0
Syllidae			
<i>Syllis</i> sp.	0	0	0
<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	0	24	24
<i>Sphaerosyllis</i> sp. A	307	142	733
<i>Synsyllis longigularis</i>	47	71	0
<i>Opisthosyllis</i> sp.	0	0	0
Syllidae (unidentified)	0	0	0
Nereidae			
<i>Nereis</i> sp. A	0	0	0
<i>Ceratonereis irritabilis</i>	0	0	118
<i>Laeonereis culveri</i>	0	0	95
Nereidae (unidentified)	0	0	0
Nephtyidae			
<i>Nephtys magellanica</i>	0	0	24
Glyceridae			
<i>Glycera americana</i>	0	24	118
Goniadidae			
<i>Glycinde solitaria</i>	236	236	189
<i>Glycinde nordmanni</i>	32	0	410
Onuphidae			
<i>Diopatra cuprea</i>	47	47	95
<i>Onuphis eremita</i>	0	0	47
Lumbrineridae			
<i>Lumbrineris parvapedata</i>	638	0	331
Arabellidae			
<i>Drilonereis magna</i>	0	0	0

Table 8: Corpus Christi Bay species list, continued.

Taxa	Stations		
	NCC	NCD	NCE
Dorvilleidae			
<i>Schistomeringos rudolphi</i>	47	0	425
<i>Schistomeringos</i> sp. A	0	0	71
<i>Dorvillea rubra</i>	0	0	24
Spionidae			
<i>Polydora ligni</i>	0	0	0
<i>Minuspio cirrifera</i>	0	24	0
<i>Paraprionospio pinnata</i>	425	331	213
<i>Apoprionospio pygmaea</i>	0	213	24
<i>Scolecopsis texana</i>	0	0	0
<i>Spiophanes bombyx</i>	0	0	47
<i>Polydora socialis</i>	0	24	0
<i>Streblospio benedicti</i>	5,082	11,629	236
<i>Polydora caulleryi</i>	71	24	1,016
<i>Spio setosa</i>	0	0	0
Magelonidae			
<i>Magelona pettiboneae</i>	24	0	24
<i>Magelona phyllisae</i>	24	0	47
Chaetopteridae			
<i>Spiochaetopterus costarum</i>	95	47	118
Cirratulidae			
<i>Tharyx setigera</i>	1,276	24	1,489
Cirratulidae (unidentified)	0	0	0
Cossuridae			
<i>Cossura delta</i>	804	0	95
Orbiniidae			
<i>Haploscoloplos foliosus</i>	24	95	236
<i>Naineris</i> sp. A	0	0	0
Paraonidae			
Paraonidae Grp. A	71	71	402
Paraonidae Grp. B	24	0	851
Opheliidae			
<i>Armandia agilis</i>	0	0	0
<i>Armandia maculata</i>	47	24	0

Table 8: Corpus Christi Bay species list, continued.

Taxa	Stations		
	NCC	NCD	NCE
Capitellidae			
<i>Capitella capitata</i>	0	0	0
<i>Notomastus latericeus</i>	0	0	24
<i>Mediomastus ambiseta</i>	6,264	2,269	3,711
Maldanidae			
<i>Branchioasychis americana</i>	71	0	47
<i>Clymenella torquata</i>	24	0	355
<i>Asychis elongata</i>	24	0	47
<i>Euclymene</i> sp. B	0	0	898
<i>Axiothella mucosa</i>	0	0	0
Maldanidae (unidentified)	47	0	24
Oweniidae			
<i>Owenia fusiformis</i>	0	24	24
Pectinariidae			
<i>Pectinaria gouldii</i>	0	0	0
Ampharetidae			
<i>Isolda pulchella</i>	0	0	24
<i>Melinna maculata</i>	0	0	24
Ampharetidae (unidentified)	0	0	0
Terebellidae			
<i>Terebellides stroemi</i>	0	0	0
Sabellidae			
<i>Megalomma bioculatum</i>	0	0	0
Polychaete juv. (unidentified)	0	47	0
Oligochaeta			
Oligochaetes (unidentified)	118	4,136	1,985
Sipuncula			
<i>Phascolion strombi</i>	95	165	71
Crustacea			
Ostracoda			
Myodocopa			
<i>Sarsiella texana</i>	0	47	47

Table 8: Corpus Christi Bay species list, continued.

Taxa	Stations		
	NCC	NCD	NCE
Copepoda			
Cyclopoida			
Cyclopidae			
<i>Hemicyclops</i> sp.	0	0	24
Malacostraca			
Reptantia			
Porcellanidae			
<i>Euceramus praelongus</i>	0	0	0
Pinnotheridae			
<i>Pinnixa</i> sp.	47	0	71
Brachyuran Larvae			
Brachyuran zoea	0	0	24
Mysidacea			
<i>Mysidopsis bahia</i>	0	0	0
<i>Mysidopsis</i> sp.	71	0	0
Cumacea			
<i>Cyclaspis varians</i>	165	47	0
<i>Leucon</i> sp.	0	0	24
<i>Oxyurostylis salinoi</i>	24	236	0
Amphipoda			
Ampeliscidae			
<i>Ampelisca abdita</i>	0	0	0
<i>Ampelisca verrilli</i>	24	47	24
Oedicerotidae			
<i>Monoculodes</i> sp.	24	0	0
Corophiidae			
<i>Erichthonias brasiliensis</i>	0	0	662
<i>Cerapus tubularis</i>	0	0	24
<i>Microprotopus</i> spp.	0	0	71
<i>Lembos</i> sp.	0	0	0
Liljeborgiidae			
<i>Listriella barnardi</i>	142	95	71
<i>Listriella clymenellae</i>	0	0	685
Caprellidae			
Caprellid	47	142	449

Table 8: Corpus Christi Bay species list, continued.

Taxa	Stations		
	NCC	NCD	NCE
Amphilochidae			
<i>Amphilochus</i> sp.	0	0	24
Amphithoidae			
<i>Cymadusa compta</i>	0	0	24
Melitidae			
<i>Elasmopus</i> sp.	0	0	24
Isopoda			
Munnidae			
<i>Munna hayesi</i>	0	0	0
Idoteidae			
<i>Edotea montosa</i>	24	0	0
Echinodermata			
Ophiuroidea			
Ophiuroidea (unidentified)	402	95	307
Chordata			
Urochordata			
Ascidiaceae			
<i>Molgula manhattensis</i>	0	0	47
Ascidiacea (unidentified)	0	0	71
Hemichordata			
<i>Branchiostoma caribaeum</i>	0	0	0
<i>Schizocardium</i> sp.	0	0	0
TOTAL	18,300	21,727	20,356

Table 9. Concentrations of trace metals in the sediment that were measured for in the La Quinta Channel. Stations 1B, 2B, and 3B are identical to stations LQA, LQB, and LQC. This data is summarized from a report to the Coastal Bend Bays Foundation (AnalySys, Inc., 1993).

Parameter	Station 1B	Station 2B	Station 3B	Units
Antimony	<60.00	<60.00	<60.00	$\mu\text{g/Kg}$
Arsenic	1,300.00	1,200.00	690.00	$\mu\text{g/Kg}$
Beryllium	0.21	0.14	<0.10	mg/Kg
Cadmium	0.33	0.29	<0.20	mg/Kg
Chromium	6.70	2.20	4.00	mg/Kg
Copper	4.00	4.00	1.50	mg/Kg
Lead	10.00	8.80	3.20	mg/Kg
Mercury	22.00	26.00	18.00	$\mu\text{g/Kg}$
Nickel	5.40	2.80	2.40	mg/Kg
Selenium	67.00	<40.00	<40.00	$\mu\text{g/Kg}$
Silver	<4.00	<4.00	<4.00	$\mu\text{g/Kg}$
Thallium	<20.00	<20.00	<20.00	$\mu\text{g/Kg}$
Zinc	22.00	14.00	12.00	mg/Kg
Cyanide	<0.02	<0.02	<0.02	mg/Kg

Appendix I: Hydrographic measurements of La Quinta Channel.

Abbreviations: STA=Station, SAL(R)=Salinity by refractometer, SAL(M)=Salinity by meter, COND=Conductivity, TEMP=Temperature, DO=Dissolved oxygen, and ORP=Oxidation redox potential.

Date	STA	Depth (m)	SAL(R) (ppt)	SAL(M) (ppt)	COND (uS/cm)	TEMP (°C)	pH	DO (mg/l)	ORP (mV)
09OCT92	LQA	0.00	35	30.5	47.0	24.91	8.15	7.16	0.329
09OCT92	LQA	2.80	35	30.7	47.0	24.87	8.25	6.88	0.325
09OCT92	LQB	0.00	38	30.2	46.5	24.35	8.45	7.71	0.288
09OCT92	LQB	2.10	38	30.5	47.0	24.14	8.51	7.25	0.288
09OCT92	LQC	0.00	36	29.2	45.3	24.25	8.50	6.94	0.275
09OCT92	LQC	2.80	36	30.4	46.5	23.86	8.52	6.46	0.277
15JAN93	LQA	0.00	30	30.1	46.2	13.37	8.12	9.28	0.187
15JAN93	LQA	2.50	30	30.2	46.3	13.37	8.12	8.66	0.211
15JAN93	LQB	0.00	30	30.2	46.3	13.12	8.18	9.34	0.187
15JAN93	LQB	2.20	30	30.2	46.3	13.08	8.18	8.54	0.241
15JAN93	LQC	0.00	28	27.7	43.0	13.17	8.19	9.80	0.207
15JAN93	LQC	2.60	28	28.8	44.5	13.23	8.20	9.55	0.219
09APR93	LQA	0.00	28	27.0	40.9	21.38	8.02	8.80	0.208
09APR93	LQA	2.40	28	27.2	41.7	21.22	8.02	8.50	0.209
09APR93	LQB	0.00	28	27.2	41.0	21.44	8.04	8.91	0.216
09APR93	LQB	1.80	28	27.5	41.4	21.40	8.04	8.80	0.216
09APR93	LQC	0.00	28	27.1	41.2	21.45	7.99	8.27	0.219
09APR93	LQC	2.60	28	27.2	41.3	21.48	7.99	8.09	0.221
10JUL93	LQA	0.00	24	21.7	34.7	29.82	8.07	6.24	0.203
10JUL93	LQA	2.40	24	21.8	34.8	29.82	8.06	6.03	0.207
10JUL93	LQB	0.00	26	24.1	38.0	30.17	8.04	6.49	0.208
10JUL93	LQB	1.70	26	24.2	38.2	30.12	8.03	6.36	0.210
10JUL93	LQC	0.00	27	25.6	40.2	29.87	8.01	6.62	0.211
10JUL93	LQC	2.60	27	25.9	40.5	29.87	8.01	6.55	0.213
09OCT92	NCC	0.00	37	30.5	46.9	23.50	7.96	6.33	0.419
09OCT92	NCC	4.00	37	30.7	46.8	23.49	8.02	5.50	0.391
09OCT92	NCD	0.00	35	30.7	47.8	22.35	8.31	6.37	0.402
09OCT92	NCD	3.50	35	31.2	47.8	22.35	8.22	6.25	0.390
09OCT92	NCE	0.00	29	27.1	42.3	22.42	8.45	6.73	0.394
09OCT92	NCE	3.20	29	31.1	47.6	23.97	8.26	5.81	0.389
15JAN93	NCE	0.00	27	27.6	43.0	12.71	8.03	8.89	0.239
15JAN93	NCE	3.20	27	27.7	43.1	12.68	8.29	8.43	0.246
15JAN93	NCD	0.00	28	28.9	43.2	12.43	8.02	8.57	0.211
15JAN93	NCD	3.20	28	29.0	44.9	12.59	8.05	8.34	0.228
15JAN93	NCC	0.00	30	30.0	46.1	12.31	8.02	8.21	0.227
15JAN93	NCC	3.70	30	30.1	46.3	12.34	8.04	8.06	0.238

Appendix I: Hydrographic measurements of La Quinta Channel. Continued.

Date	STA	Depth	SAL(R)	SAL(M)	COND	TEMP	pH	DO	ORP
09APR93	NCC	0.00	27	26.6	42.1	20.69	7.93	8.40	0.203
09APR93	NCC	3.90	27	26.7	42.2	20.51	7.89	8.01	0.205
09APR93	NCD	0.00	26	26.3	42.0	20.36	8.01	8.16	0.212
09APR93	NCD	2.40	26	26.3	42.0	20.39	8.01	8.03	0.212
09APR93	NCE	0.00	25	26.0	41.0	20.03	7.95	8.74	0.231
09APR93	NCE	3.00	25	26.1	41.2	20.08	7.94	8.10	0.232
10JUL93	NCE	0.00	24	24.3	38.3	29.25	7.92	5.75	0.151
10JUL93	NCE	2.60	24	24.3	38.4	29.20	7.93	5.44	0.159
10JUL93	NCD	0.00	26	24.4	38.6	29.36	7.87	5.22	0.156
10JUL93	NCD	3.10	26	25.0	39.4	29.35	7.64	1.73	0.169
10JUL93	NCC	0.00	23	21.5	34.3	29.10	7.98	6.31	0.167
10JUL93	NCC	3.70	23	23.3	36.8	28.90	7.89	5.44	0.178

Appendix II: Sediment grain analysis of La Quinta Channel.

Sediment fraction expressed as percent dry weight.

Date	STA	DEPTH (cm)	RUBBLE (%)	SAND (%)	SILT (%)	CLAY (%)
16OCT91	NCD	3	0.6	82.0	0.2	17.3
16OCT91	NCD	10	0.7	82.8	4.3	12.2
09OCT92	LQA	3	0.8	84.6	6.0	8.7
09OCT92	LQA	10	1.7	68.4	9.5	20.4
09OCT92	LQB	3	2.4	94.8	0.8	2.1
09OCT92	LQB	10	9.5	87.8	0.8	2.0
09OCT92	LQC	3	2.3	93.2	1.4	3.1
09OCT92	LQC	10	3.0	85.3	3.2	8.5
09OCT92	NCC	3	6.2	14.0	31.6	48.1
09OCT92	NCC	10	3.7	7.1	28.3	60.9
09OCT92	NCE	3	2.0	57.5	12.2	28.3
09OCT92	NCE	10	1.3	55.7	11.8	31.2

Appendix III: La Quinta Channel and Corpus Christi Bay species list.

Listed according to date, station (STA), replicate number (REP), and section (SEC). Total number (n) per core of each species found in each section. Surface sediment is 0-3 cm (labelled as 3) and bottom sediment is 3-10 cm (labelled as 10). Core size is 6.715 cm in diameter.

Date	STA	REP	SEC	Species	n
09OCT92	LQA	1	3	Rhynchocoel (unidentified)	2
09OCT92	LQA	1	3	Oligochaetes (unidentified)	7
09OCT92	LQA	1	3	<i>Glycinde solitaria</i>	1
09OCT92	LQA	1	3	<i>Streblospio benedicti</i>	9
09OCT92	LQA	1	3	<i>Paraprionospio pinnata</i>	2
09OCT92	LQA	1	3	<i>Minuspio cirrifera</i>	1
09OCT92	LQA	1	3	<i>Tharyx setigera</i>	4
09OCT92	LQA	1	3	<i>Schistomeringos</i> sp. A	2
09OCT92	LQA	1	3	Cirratulidae	1
09OCT92	LQA	1	3	Paraonidae Grp. A	3
09OCT92	LQA	1	3	Ophiuroidea (unidentified)	1
09OCT92	LQA	1	3	<i>Mysidopsis bahia</i>	1
09OCT92	LQA	1	3	<i>Mediomastus ambiseta</i>	17

					51
09OCT92	LQA	1	10	Rhynchocoel (unidentified)	1
09OCT92	LQA	1	10	Oligochaetes (unidentified)	6
09OCT92	LQA	1	10	<i>Paleanotus heteroseta</i>	2
09OCT92	LQA	1	10	<i>Gyptis vittata</i>	1
09OCT92	LQA	1	10	<i>Tharyx setigera</i>	16
09OCT92	LQA	1	10	<i>Clymenella torquata</i>	1
09OCT92	LQA	1	10	<i>Listriella clymenellae</i>	1
09OCT92	LQA	1	10	<i>Schistomeringos</i> sp. A	1
09OCT92	LQA	1	10	Paraonidae Grp. B	25
09OCT92	LQA	1	10	<i>Mediomastus ambiseta</i>	7

					61

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	LQA	2	3	<i>Glycinde solitaria</i>	1
09OCT92	LQA	2	3	<i>Drilonereis magna</i>	1
09OCT92	LQA	2	3	<i>Streblospio benedicti</i>	11
09OCT92	LQA	2	3	<i>Paraprionospio pinnata</i>	1
09OCT92	LQA	2	3	<i>Scolecopsis texana</i>	1
09OCT92	LQA	2	3	<i>Tharyx setigera</i>	5
09OCT92	LQA	2	3	Maldanidae (unidentified)	3
09OCT92	LQA	2	3	Paraonidae Grp. A	4
09OCT92	LQA	2	3	Ophiuroidea (unidentified)	1
09OCT92	LQA	2	3	<i>Mediomastus ambiseta</i>	15

					43
09OCT92	LQA	2	10	Oligochaetes (unidentified)	1
09OCT92	LQA	2	10	<i>Drilonereis magna</i>	1
09OCT92	LQA	2	10	<i>Tharyx setigera</i>	7
09OCT92	LQA	2	10	<i>Cossura delta</i>	1
09OCT92	LQA	2	10	<i>Axiobella mucosa</i>	1
09OCT92	LQA	2	10	Maldanidae (unidentified)	1
09OCT92	LQA	2	10	<i>Schizocardium</i> sp.	1
09OCT92	LQA	2	10	Paraonidae Grp. B	1
09OCT92	LQA	2	10	<i>Mediomastus ambiseta</i>	1

					15
09OCT92	LQA	3	3	Rhynchocoel (unidentified)	1
09OCT92	LQA	3	3	Oligochaetes (unidentified)	1
09OCT92	LQA	3	3	<i>Polydora ligni</i>	1
09OCT92	LQA	3	3	<i>Streblospio benedicti</i>	5
09OCT92	LQA	3	3	<i>Scolecopsis texana</i>	1
09OCT92	LQA	3	3	<i>Minuspia cirrifera</i>	1
09OCT92	LQA	3	3	<i>Tharyx setigera</i>	4
09OCT92	LQA	3	3	<i>Ampelisca abdita</i>	2
09OCT92	LQA	3	3	<i>Phoronis architecta</i>	1
09OCT92	LQA	3	3	<i>Schistomeringos</i> sp. A	1
09OCT92	LQA	3	3	Paraonidae Grp. A	1
09OCT92	LQA	3	3	<i>Mediomastus ambiseta</i>	5

					24

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	LQA	3	10	Rhynchocoel (unidentified)	1
09OCT92	LQA	3	10	Oligochaetes (unidentified)	3
09OCT92	LQA	3	10	<i>Drilonereis magna</i>	2
09OCT92	LQA	3	10	<i>Tharyx setigera</i>	6
09OCT92	LQA	3	10	<i>Phascolion strombi</i>	1
09OCT92	LQA	3	10	Paraonidae Grp. A	5
09OCT92	LQA	3	10	<i>Mediomastus ambiseta</i>	5

					23
09OCT92	LQB	1	3	Rhynchocoel (unidentified)	1
09OCT92	LQB	1	3	Oligochaetes (unidentified)	7
09OCT92	LQB	1	3	<i>Streblospio benedicti</i>	2
09OCT92	LQB	1	3	<i>Scolecopsis texana</i>	1
09OCT92	LQB	1	3	<i>Minuspia cirrifera</i>	2
09OCT92	LQB	1	3	Syllidae (unidentified)	1
09OCT92	LQB	1	3	Paraonidae Grp. A	1
09OCT92	LQB	1	3	<i>Sarsiella texana</i>	1
09OCT92	LQB	1	3	<i>Mediomastus ambiseta</i>	12

					28
09OCT92	LQB	1	10	Rhynchocoel (unidentified)	2
09OCT92	LQB	1	10	<i>Spiophanes bombyx</i>	1
09OCT92	LQB	1	10	<i>Minuspia cirrifera</i>	1
09OCT92	LQB	1	10	<i>Tharyx setigera</i>	1
09OCT92	LQB	1	10	<i>Aligena texasiana</i>	1
09OCT92	LQB	1	10	Syllidae (unidentified)	1
09OCT92	LQB	1	10	Paraonidae Grp. A	6
09OCT92	LQB	1	10	Paraonidae Grp. B	18
09OCT92	LQB	1	10	<i>Mediomastus ambiseta</i>	2

					33

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	LQB	2	3	Oligochaetes (unidentified)	1
09OCT92	LQB	2	3	<i>Streblospio benedicti</i>	4
09OCT92	LQB	2	3	Paraonidae Grp. A	2
09OCT92	LQB	2	3	Ampharetidae	1
09OCT92	LQB	2	3	<i>Microprotopus</i> spp.	1
09OCT92	LQB	2	3	<i>Mediomastus ambiseta</i>	10

					19
09OCT92	LQB	2	10	Oligochaetes (unidentified)	1
09OCT92	LQB	2	10	<i>Spio setosa</i>	1
09OCT92	LQB	2	10	<i>Spiochaetopterus costarum</i>	1
09OCT92	LQB	2	10	Paraonidae Grp. A	8
09OCT92	LQB	2	10	Paraonidae Grp. B	1

					12
09OCT92	LQB	3	3	<i>Schistomeringos rudolphi</i>	1
09OCT92	LQB	3	3	<i>Spio setosa</i>	2
09OCT92	LQB	3	3	<i>Streblospio benedicti</i>	5
09OCT92	LQB	3	3	<i>Minuspio cirrifera</i>	1
09OCT92	LQB	3	3	<i>Capitella capitata</i>	1
09OCT92	LQB	3	3	<i>Mulinia lateralis</i>	1
09OCT92	LQB	3	3	Syllidae (unidentified)	1
09OCT92	LQB	3	3	Paraonidae Grp. A	1
09OCT92	LQB	3	3	Ophiuroidea (unidentified)	2
09OCT92	LQB	3	3	<i>Mediomastus ambiseta</i>	10

					25
09OCT92	LQB	3	10	Oligochaetes (unidentified)	6
09OCT92	LQB	3	10	<i>Tharyx setigera</i>	1
09OCT92	LQB	3	10	Paraonidae Grp. A	6
09OCT92	LQB	3	10	<i>Mediomastus ambiseta</i>	5

					18

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	LQC	1	3	Rhynchocoel (unidentified)	1
09OCT92	LQC	1	3	<i>Eteone heteropoda</i>	2
09OCT92	LQC	1	3	<i>Minuspio cirrifera</i>	2
09OCT92	LQC	1	3	<i>Spiochaetopterus costarum</i>	1
09OCT92	LQC	1	3	<i>Axiothella mucosa</i>	3
09OCT92	LQC	1	3	Maldanidae (unidentified)	3
09OCT92	LQC	1	3	<i>Isolda pulchella</i>	1
09OCT92	LQC	1	3	<i>Macoma tenta</i>	1
09OCT92	LQC	1	3	<i>Ampelisca verrilli</i>	4
09OCT92	LQC	1	3	Ophiuroidea (unidentified)	1
09OCT92	LQC	1	3	<i>Sphaerosyllis</i> sp. A	1
09OCT92	LQC	1	3	<i>Mediomastus ambiseta</i>	34
09OCT92	LQC	1	3	<i>Terebellides stroemi</i>	1

					55
09OCT92	LQC	1	10	Rhynchocoel (unidentified)	4
09OCT92	LQC	1	10	Oligochaetes (unidentified)	4
09OCT92	LQC	1	10	<i>Diopatra cuprea</i>	1
09OCT92	LQC	1	10	<i>Spiophanes bombyx</i>	1
09OCT92	LQC	1	10	<i>Tharyx setigera</i>	1
09OCT92	LQC	1	10	Maldanidae (unidentified)	1
09OCT92	LQC	1	10	<i>Tellina</i> sp	2
09OCT92	LQC	1	10	Pilargiidae (unidentified)	1
09OCT92	LQC	1	10	Hesionidae (unidentified)	1
09OCT92	LQC	1	10	Paraonidae Grp. A	4
09OCT92	LQC	1	10	Paraonidae Grp. B	2
09OCT92	LQC	1	10	<i>Caecum johnsoni</i>	1
09OCT92	LQC	1	10	<i>Mediomastus ambiseta</i>	9

					32

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	LQC	2	3	Rhynchocoel (unidentified)	2
09OCT92	LQC	2	3	<i>Streblospio benedicti</i>	1
09OCT92	LQC	2	3	<i>Minuspio cirrifera</i>	6
09OCT92	LQC	2	3	<i>Spiochaetopterus costarum</i>	1
09OCT92	LQC	2	3	<i>Tharyx setigera</i>	1
09OCT92	LQC	2	3	Maldanidae (unidentified)	1
09OCT92	LQC	2	3	<i>Parvilucina multilineata</i>	1
09OCT92	LQC	2	3	<i>Tellina</i> sp	2
09OCT92	LQC	2	3	<i>Periploma margaritaceum</i>	1
09OCT92	LQC	2	3	<i>Ampelisca verrilli</i>	1
09OCT92	LQC	2	3	<i>Opisthosyllis</i> sp.	5
09OCT92	LQC	2	3	<i>Armandia maculata</i>	2
09OCT92	LQC	2	3	<i>Mediomastus ambiseta</i>	27

					51
09OCT92	LQC	2	10	Rhynchocoel (unidentified)	1
09OCT92	LQC	2	10	Oligochaetes (unidentified)	1
09OCT92	LQC	2	10	<i>Minuspio cirrifera</i>	2
09OCT92	LQC	2	10	<i>Magelona phyllisae</i>	1
09OCT92	LQC	2	10	<i>Tharyx setigera</i>	3
09OCT92	LQC	2	10	Paraonidae Grp. A	3
09OCT92	LQC	2	10	<i>Mediomastus ambiseta</i>	2

					13

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	LQC	3	3	Rhynchocoel (unidentified)	2
09OCT92	LQC	3	3	<i>Diopatra cuprea</i>	1
09OCT92	LQC	3	3	<i>Minuspio cirrifera</i>	3
09OCT92	LQC	3	3	<i>Magelona pettiboneae</i>	1
09OCT92	LQC	3	3	<i>Spiochaetopterus costarum</i>	2
09OCT92	LQC	3	3	<i>Armandia agilis</i>	1
09OCT92	LQC	3	3	<i>Axiothella mucosa</i>	1
09OCT92	LQC	3	3	<i>Owenia fusiformis</i>	1
09OCT92	LQC	3	3	<i>Mulinia lateralis</i>	3
09OCT92	LQC	3	3	<i>Tellina texana</i>	1
09OCT92	LQC	3	3	<i>Oxyurostylis salinoi</i>	1
09OCT92	LQC	3	3	<i>Edotea montosa</i>	1
09OCT92	LQC	3	3	<i>Ampelisca verrilli</i>	1
09OCT92	LQC	3	3	Nereidae (unidentified)	1
09OCT92	LQC	3	3	<i>Opisthosyllis</i> sp.	1
09OCT92	LQC	3	3	<i>Sarsiella texana</i>	1
09OCT92	LQC	3	3	<i>Mediomastus ambiseta</i>	38

					60
09OCT92	LQC	3	10	Rhynchocoel (unidentified)	1
09OCT92	LQC	3	10	Oligochaetes (unidentified)	2
09OCT92	LQC	3	10	<i>Magelona phyllisae</i>	1
09OCT92	LQC	3	10	<i>Tharyx setigera</i>	1
09OCT92	LQC	3	10	<i>Litocorsa stremma</i>	1
09OCT92	LQC	3	10	<i>Clymenella torquata</i>	1
09OCT92	LQC	3	10	<i>Isolda pulchella</i>	1
09OCT92	LQC	3	10	Paraonidae Grp. B	3
09OCT92	LQC	3	10	<i>Mediomastus ambiseta</i>	6

					17

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	NCC	1	3	Rhynchocoel (unidentified)	1
09OCT92	NCC	1	3	<i>Gyptis vittata</i>	1
09OCT92	NCC	1	3	<i>Diopatra cuprea</i>	2
09OCT92	NCC	1	3	<i>Streblospio benedicti</i>	69
09OCT92	NCC	1	3	<i>Paraprionospio pinnata</i>	1
09OCT92	NCC	1	3	<i>Cossura delta</i>	2
09OCT92	NCC	1	3	<i>Mulinia lateralis</i>	2
09OCT92	NCC	1	3	<i>Cyclaspis varians</i>	3
09OCT92	NCC	1	3	Ophiuroidea (unidentified)	2
09OCT92	NCC	1	3	<i>Mysidopsis</i> sp.	3
09OCT92	NCC	1	3	<i>Mediomastus ambiseta</i>	63

					149
09OCT92	NCC	1	10	Rhynchocoel (unidentified)	2
09OCT92	NCC	1	10	<i>Lumbrineris parvapedata</i>	2
09OCT92	NCC	1	10	<i>Streblospio benedicti</i>	1
09OCT92	NCC	1	10	<i>Tharyx setigera</i>	5
09OCT92	NCC	1	10	<i>Cossura delta</i>	1
09OCT92	NCC	1	10	<i>Listriella barnardi</i>	2
09OCT92	NCC	1	10	Ophiuroidea (unidentified)	1
09OCT92	NCC	1	10	<i>Mediomastus ambiseta</i>	9

					23
09OCT92	NCC	2	3	Anthozoa (unidentified)	1
09OCT92	NCC	2	3	Rhynchocoel (unidentified)	1
09OCT92	NCC	2	3	<i>Streblospio benedicti</i>	62
09OCT92	NCC	2	3	<i>Paraprionospio pinnata</i>	1
09OCT92	NCC	2	3	<i>Cossura delta</i>	1
09OCT92	NCC	2	3	<i>Mulinia lateralis</i>	2
09OCT92	NCC	2	3	<i>Edotea montosa</i>	1
09OCT92	NCC	2	3	<i>Phascolion strombi</i>	1
09OCT92	NCC	2	3	<i>Phoronis architecta</i>	1
09OCT92	NCC	2	3	<i>Listriella barnardi</i>	3
09OCT92	NCC	2	3	Ophiuroidea (unidentified)	1
09OCT92	NCC	2	3	<i>Mediomastus ambiseta</i>	40

					115

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	NCC	2	10	Rhynchocoel (unidentified)	1
09OCT92	NCC	2	10	<i>Lumbrineris parvapedata</i>	2
09OCT92	NCC	2	10	<i>Paraprionospio pinnata</i>	1
09OCT92	NCC	2	10	<i>Tharyx setigera</i>	5
09OCT92	NCC	2	10	<i>Cossura delta</i>	1
09OCT92	NCC	2	10	Maldanidae (unidentified)	1
09OCT92	NCC	2	10	<i>Listriella barnardi</i>	1
09OCT92	NCC	2	10	<i>Mediomastus ambiseta</i>	9

					21
09OCT92	NCC	3	3	Rhynchocoel (unidentified)	1
09OCT92	NCC	3	3	<i>Lumbrineris parvapedata</i>	1
09OCT92	NCC	3	3	<i>Streblospio benedicti</i>	80
09OCT92	NCC	3	3	<i>Paraprionospio pinnata</i>	4
09OCT92	NCC	3	3	<i>Tharyx setigera</i>	1
09OCT92	NCC	3	3	<i>Cossura delta</i>	3
09OCT92	NCC	3	3	<i>Mulinia lateralis</i>	3
09OCT92	NCC	3	3	<i>Cyclaspis varians</i>	1
09OCT92	NCC	3	3	<i>Monoculodes</i> sp.	1
09OCT92	NCC	3	3	Ophiuroidea (unidentified)	1
09OCT92	NCC	3	3	<i>Sphaerosyllis</i> sp. A	1
09OCT92	NCC	3	3	<i>Mediomastus ambiseta</i>	52

					149
09OCT92	NCC	3	10	Rhynchocoel (unidentified)	2
09OCT92	NCC	3	10	<i>Streblospio benedicti</i>	3
09OCT92	NCC	3	10	<i>Tharyx setigera</i>	2
09OCT92	NCC	3	10	<i>Mediomastus ambiseta</i>	13

					20
09OCT92	NCD	1	3	<i>Streblospio benedicti</i>	72
09OCT92	NCD	1	3	<i>Aligena texasiana</i>	1
09OCT92	NCD	1	3	<i>Mulinia lateralis</i>	2
09OCT92	NCD	1	3	<i>Acteocina canaliculata</i>	1
09OCT92	NCD	1	3	<i>Mediomastus ambiseta</i>	21

					97

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	NCD	1	10	<i>Streblospio benedicti</i>	90
09OCT92	NCD	1	10	<i>Paraprionospio pinnata</i>	3
09OCT92	NCD	1	10	<i>Listriella barnardi</i>	2

					95
09OCT92	NCD	2	3	Rhynchocoel (unidentified)	1
09OCT92	NCD	2	3	<i>Glycinde solitaria</i>	1
09OCT92	NCD	2	3	<i>Streblospio benedicti</i>	140
09OCT92	NCD	2	3	<i>Mulinia lateralis</i>	4
09OCT92	NCD	2	3	<i>Mediomastus ambiseta</i>	21

					167
09OCT92	NCD	2	10	<i>Streblospio benedicti</i>	21
09OCT92	NCD	2	10	<i>Paraprionospio pinnata</i>	2
09OCT92	NCD	2	10	<i>Minuspio cirrifera</i>	1
09OCT92	NCD	2	10	<i>Mediomastus ambiseta</i>	1

					25
09OCT92	NCD	3	3	Rhynchocoel (unidentified)	1
09OCT92	NCD	3	3	<i>Streblospio benedicti</i>	74
09OCT92	NCD	3	3	<i>Mulinia lateralis</i>	3
09OCT92	NCD	3	3	<i>Oxyurostylis salinoi</i>	1
09OCT92	NCD	3	3	Mollusca (unidentified)	1
09OCT92	NCD	3	3	<i>Mediomastus ambiseta</i>	23

					103
09OCT92	NCD	3	10	<i>Podarke obscura</i>	1
09OCT92	NCD	3	10	<i>Streblospio benedicti</i>	95
09OCT92	NCD	3	10	<i>Spiochaetopterus costarum</i>	2
09OCT92	NCD	3	10	<i>Listriella barnardi</i>	2
09OCT92	NCD	3	10	Paraonidae Grp. A	1
09OCT92	NCD	3	10	<i>Mediomastus ambiseta</i>	2

					103

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	NCE	1	3	<i>Sthenelais boa</i>	1
09OCT92	NCE	1	3	<i>Streblospio benedicti</i>	3
09OCT92	NCE	1	3	<i>Spiochaetopterus costarum</i>	1
09OCT92	NCE	1	3	<i>Mulinia lateralis</i>	3
09OCT92	NCE	1	3	<i>Listriella clymenellae</i>	1
09OCT92	NCE	1	3	Paraonidae Grp. B	1
09OCT92	NCE	1	3	<i>Asychis elongata</i>	1
09OCT92	NCE	1	3	<i>Mediomastus ambiseta</i>	19
09OCT92	NCE	1	3	<i>Euclymene</i> sp. B	2

					32
09OCT92	NCE	1	10	Rhynchocoel (unidentified)	2
09OCT92	NCE	1	10	Oligochaetes (unidentified)	7
09OCT92	NCE	1	10	<i>Paleanotus heteroseta</i>	2
09OCT92	NCE	1	10	<i>Gyptis vittata</i>	1
09OCT92	NCE	1	10	<i>Dorvillea rubra</i>	1
09OCT92	NCE	1	10	<i>Paraprionospio pinnata</i>	1
09OCT92	NCE	1	10	<i>Magelona pettiboneae</i>	1
09OCT92	NCE	1	10	<i>Tharyx setigera</i>	10
09OCT92	NCE	1	10	<i>Clymenella torquata</i>	1
09OCT92	NCE	1	10	<i>Listriella clymenellae</i>	1
09OCT92	NCE	1	10	<i>Phoronis architecta</i>	2
09OCT92	NCE	1	10	Paraonidae Grp. A	1
09OCT92	NCE	1	10	Paraonidae Grp. B	3
09OCT92	NCE	1	10	<i>Euclymene</i> sp. B	1

					34
09OCT92	NCE	2	3	Rhynchocoel (unidentified)	1
09OCT92	NCE	2	3	<i>Polydora caulleryi</i>	4
09OCT92	NCE	2	3	<i>Streblospio benedicti</i>	1
09OCT92	NCE	2	3	<i>Branchioasychis americana</i>	1
09OCT92	NCE	2	3	<i>Listriella clymenellae</i>	1
09OCT92	NCE	2	3	<i>Microtopopus</i> spp.	1
09OCT92	NCE	2	3	<i>Mediomastus ambiseta</i>	10

					19

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	NCE	2	10	Rhynchocoel (unidentified)	1
09OCT92	NCE	2	10	<i>Paleanotus heteroseta</i>	2
09OCT92	NCE	2	10	<i>Spiophanes bombyx</i>	1
09OCT92	NCE	2	10	<i>Magelona phyllisae</i>	1
09OCT92	NCE	2	10	<i>Tharyx setigera</i>	2
09OCT92	NCE	2	10	<i>Listriella clymenellae</i>	1
09OCT92	NCE	2	10	<i>Phoronis architecta</i>	1
09OCT92	NCE	2	10	<i>Pinnixa</i> sp.	1
09OCT92	NCE	2	10	<i>Mediomastus ambiseta</i>	1

					11
09OCT92	NCE	3	3	Oligochaetes (unidentified)	5
09OCT92	NCE	3	3	<i>Gyptis vittata</i>	1
09OCT92	NCE	3	3	<i>Polydora caulleryi</i>	1
09OCT92	NCE	3	3	<i>Streblospio benedicti</i>	5
09OCT92	NCE	3	3	<i>Paraprionospio pinnata</i>	1
09OCT92	NCE	3	3	<i>Spiochaetopterus costarum</i>	1
09OCT92	NCE	3	3	<i>Branchioasychis americana</i>	1
09OCT92	NCE	3	3	<i>Clymenella torquata</i>	2
09OCT92	NCE	3	3	<i>Mulinia lateralis</i>	3
09OCT92	NCE	3	3	<i>Listriella barnardi</i>	2
09OCT92	NCE	3	3	Paraonidae Grp. A	2
09OCT92	NCE	3	3	Paraonidae Grp. B	4
09OCT92	NCE	3	3	Ophiuroidea (unidentified)	1
09OCT92	NCE	3	3	<i>Sphaerosyllis</i> sp. A	1
09OCT92	NCE	3	3	<i>Leucon</i> sp.	1
09OCT92	NCE	3	3	<i>Cymadusa compta</i>	1
09OCT92	NCE	3	3	<i>Mediomastus ambiseta</i>	28
09OCT92	NCE	3	3	<i>Euclymene</i> sp. B	4

					64

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09OCT92	NCE	3	10	Oligochaetes (unidentified)	12
09OCT92	NCE	3	10	<i>Paleanotus heteroseta</i>	2
09OCT92	NCE	3	10	<i>Glycera americana</i>	1
09OCT92	NCE	3	10	<i>Polydora caulleryi</i>	2
09OCT92	NCE	3	10	<i>Paraprionospio pinnata</i>	1
09OCT92	NCE	3	10	<i>Spiochaetopterus costarum</i>	1
09OCT92	NCE	3	10	<i>Tharyx setigera</i>	1
09OCT92	NCE	3	10	Paraonidae Grp. B	1
09OCT92	NCE	3	10	Ophiuroidea (unidentified)	1
09OCT92	NCE	3	10	<i>Pinnixa</i> sp.	1
09OCT92	NCE	3	10	<i>Hemicyclops</i> sp.	1
09OCT92	NCE	3	10	<i>Mediomastus ambiseta</i>	3

					27
15JAN93	LQA	1	3	Rhynchocoel (unidentified)	1
15JAN93	LQA	1	3	Oligochaetes (unidentified)	8
15JAN93	LQA	1	3	<i>Glycera americana</i>	1
15JAN93	LQA	1	3	<i>Lumbrineris parvapedata</i>	1
15JAN93	LQA	1	3	<i>Tharyx setigera</i>	3
15JAN93	LQA	1	3	<i>Axiothella mucosa</i>	2
15JAN93	LQA	1	3	<i>Clymenella torquata</i>	2
15JAN93	LQA	1	3	<i>Dentalium texasianum</i>	2
15JAN93	LQA	1	3	<i>Nuculana acuta</i>	1
15JAN93	LQA	1	3	<i>Parvilucina multilineata</i>	1
15JAN93	LQA	1	3	<i>Tellina texana</i>	1
15JAN93	LQA	1	3	<i>Lyonsia hyalina floridana</i>	1
15JAN93	LQA	1	3	<i>Listriella clymenellae</i>	2
15JAN93	LQA	1	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	1
15JAN93	LQA	1	3	<i>Schistomeringos</i> sp. A	8
15JAN93	LQA	1	3	Paraonidae Grp. A	8
15JAN93	LQA	1	3	<i>Armandia maculata</i>	2
15JAN93	LQA	1	3	<i>Sphaerosyllis</i> sp. A	1
15JAN93	LQA	1	3	<i>Mediomastus ambiseta</i>	33

					79

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQA	1	10	Rhynchocoel (unidentified)	2
15JAN93	LQA	1	10	Oligochaetes (unidentified)	8
15JAN93	LQA	1	10	<i>Gyptis vittata</i>	2
15JAN93	LQA	1	10	<i>Lumbrineris parvapedata</i>	1
15JAN93	LQA	1	10	<i>Schistomeringos rudolphi</i>	1
15JAN93	LQA	1	10	<i>Tharyx setigera</i>	5
15JAN93	LQA	1	10	<i>Branchioasychis americana</i>	1
15JAN93	LQA	1	10	<i>Axiothella mucosa</i>	1
15JAN93	LQA	1	10	<i>Clymenella torquata</i>	3
15JAN93	LQA	1	10	<i>Mysella planulata</i>	1
15JAN93	LQA	1	10	<i>Schistomeringos</i> sp. A	4
15JAN93	LQA	1	10	<i>Rictaxis punctostriatus</i>	1
15JAN93	LQA	1	10	<i>Mediomastus ambiseta</i>	7

					37
15JAN93	LQA	2	3	Rhynchocoel (unidentified)	1
15JAN93	LQA	2	3	Oligochaetes (unidentified)	3
15JAN93	LQA	2	3	<i>Paleanotus heteroseta</i>	4
15JAN93	LQA	2	3	<i>Eumida sanguinea</i>	1
15JAN93	LQA	2	3	<i>Glycera americana</i>	1
15JAN93	LQA	2	3	<i>Glycinde solitaria</i>	1
15JAN93	LQA	2	3	<i>Spiophanes bombyx</i>	1
15JAN93	LQA	2	3	<i>Paraprionospio pinnata</i>	1
15JAN93	LQA	2	3	<i>Minuspio cirrifera</i>	4
15JAN93	LQA	2	3	<i>Tharyx setigera</i>	2
15JAN93	LQA	2	3	<i>Axiothella mucosa</i>	1
15JAN93	LQA	2	3	<i>Clymenella torquata</i>	3
15JAN93	LQA	2	3	<i>Mulinia lateralis</i>	1
15JAN93	LQA	2	3	<i>Tellina texana</i>	2
15JAN93	LQA	2	3	<i>Lyonsia hyalina floridana</i>	1
15JAN93	LQA	2	3	<i>Ampelisca verrilli</i>	1
15JAN93	LQA	2	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	1
15JAN93	LQA	2	3	<i>Schistomeringos</i> sp. A	1
15JAN93	LQA	2	3	Paraonidae Grp. A	8
15JAN93	LQA	2	3	<i>Mediomastus ambiseta</i>	9

					47

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQA	2	10	<i>Oligochaetes</i> (unidentified)	5
15JAN93	LQA	2	10	<i>Paleanotus heteroseta</i>	4
15JAN93	LQA	2	10	<i>Gyptis vittata</i>	3
15JAN93	LQA	2	10	<i>Schistomeringos rudolphi</i>	1
15JAN93	LQA	2	10	<i>Spiophanes bombyx</i>	1
15JAN93	LQA	2	10	<i>Tharyx setigera</i>	11
15JAN93	LQA	2	10	<i>Axiothella mucosa</i>	1
15JAN93	LQA	2	10	<i>Clymenella torquata</i>	5
15JAN93	LQA	2	10	<i>Vitrinella floridana</i>	1
15JAN93	LQA	2	10	<i>Aligena texasiana</i>	1
15JAN93	LQA	2	10	<i>Phoronis architecta</i>	1
15JAN93	LQA	2	10	<i>Schistomeringos</i> sp. A	3
15JAN93	LQA	2	10	Paraonidae Grp. B	18
15JAN93	LQA	2	10	<i>Laeonereis culveri</i>	1
15JAN93	LQA	2	10	<i>Mediomastus ambiseta</i>	9

					65
15JAN93	LQA	3	3	Rhynchocoel (unidentified)	3
15JAN93	LQA	3	3	<i>Eumida sanguinea</i>	2
15JAN93	LQA	3	3	<i>Glycera americana</i>	2
15JAN93	LQA	3	3	<i>Lumbrineris parvapedata</i>	1
15JAN93	LQA	3	3	<i>Polydora socialis</i>	1
15JAN93	LQA	3	3	<i>Spiophanes bombyx</i>	1
15JAN93	LQA	3	3	<i>Tharyx setigera</i>	2
15JAN93	LQA	3	3	<i>Armandia agilis</i>	1
15JAN93	LQA	3	3	<i>Axiothella mucosa</i>	3
15JAN93	LQA	3	3	<i>Clymenella torquata</i>	2
15JAN93	LQA	3	3	<i>Owenia fusiformis</i>	1
15JAN93	LQA	3	3	<i>Periploma margaritaceum</i>	1
15JAN93	LQA	3	3	Paraonidae Grp. A	7
15JAN93	LQA	3	3	Ophiuroidea (unidentified)	1
15JAN93	LQA	3	3	<i>Armandia maculata</i>	1
15JAN93	LQA	3	3	<i>Mediomastus ambiseta</i>	9

					38

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQA	3	10	Rhynchocoel (unidentified)	3
15JAN93	LQA	3	10	Oligochaetes (unidentified)	5
15JAN93	LQA	3	10	<i>Paleanotus heteroseta</i>	1
15JAN93	LQA	3	10	<i>Gyptis vittata</i>	3
15JAN93	LQA	3	10	<i>Lumbrineris parvapedata</i>	5
15JAN93	LQA	3	10	<i>Polydora caulleryi</i>	1
15JAN93	LQA	3	10	<i>Tharyx setigera</i>	10
15JAN93	LQA	3	10	<i>Notomastus latericeus</i>	1
15JAN93	LQA	3	10	<i>Clymenella torquata</i>	1
15JAN93	LQA	3	10	<i>Isolda pulchella</i>	1
15JAN93	LQA	3	10	<i>Listriella clymenellae</i>	1
15JAN93	LQA	3	10	<i>Schistomeringos</i> sp. A	1
15JAN93	LQA	3	10	Paraonidae Grp. B	3
15JAN93	LQA	3	10	<i>Laeonereis culveri</i>	1
15JAN93	LQA	3	10	<i>Mediomastus ambiseta</i>	4

					41

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQB	1	3	Anthozoa (unidentified)	1
15JAN93	LQB	1	3	Rhynchocoel (unidentified)	2
15JAN93	LQB	1	3	Oligochaetes (unidentified)	5
15JAN93	LQB	1	3	<i>Glycinde solitaria</i>	2
15JAN93	LQB	1	3	<i>Lumbrineris parvapedata</i>	1
15JAN93	LQB	1	3	<i>Spiophanes bombyx</i>	2
15JAN93	LQB	1	3	<i>Spio setosa</i>	1
15JAN93	LQB	1	3	<i>Streblospio benedicti</i>	1
15JAN93	LQB	1	3	<i>Tharyx setigera</i>	1
15JAN93	LQB	1	3	<i>Haploscoloplos foliosus</i>	1
15JAN93	LQB	1	3	<i>Axiothella mucosa</i>	1
15JAN93	LQB	1	3	<i>Clymenella torquata</i>	1
15JAN93	LQB	1	3	<i>Nuculana acuta</i>	1
15JAN93	LQB	1	3	<i>Parvilucina multilineata</i>	1
15JAN93	LQB	1	3	<i>Mulinia lateralis</i>	1
15JAN93	LQB	1	3	<i>Tellina texana</i>	4
15JAN93	LQB	1	3	<i>Acteocina canaliculata</i>	1
15JAN93	LQB	1	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	2
15JAN93	LQB	1	3	<i>Schistomeringos</i> sp. A	2
15JAN93	LQB	1	3	Paraonidae Grp. B	6
15JAN93	LQB	1	3	<i>Sarsiella texana</i>	1
15JAN93	LQB	1	3	<i>Sphaerosyllis</i> sp. A	1
15JAN93	LQB	1	3	<i>Molgula manhattensis</i>	8
15JAN93	LQB	1	3	<i>Mediomastus ambiseta</i>	13
15JAN93	LQB	1	3	<i>Synsyllis longigularis</i>	13

					73

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQB	1	10	<i>Oligochaetes</i> (unidentified)	4
15JAN93	LQB	1	10	<i>Gyptis vittata</i>	1
15JAN93	LQB	1	10	<i>Tharyx setigera</i>	3
15JAN93	LQB	1	10	<i>Axiothella mucosa</i>	1
15JAN93	LQB	1	10	<i>Clymenella torquata</i>	2
15JAN93	LQB	1	10	<i>Aligena texasiana</i>	1
15JAN93	LQB	1	10	<i>Schistomeringos</i> sp. A	3
15JAN93	LQB	1	10	Paraonidae Grp. A	6
15JAN93	LQB	1	10	Paraonidae Grp. B	4
15JAN93	LQB	1	10	<i>Caecum johnsoni</i>	3
15JAN93	LQB	1	10	<i>Mediomastus ambiseta</i>	3
15JAN93	LQB	1	10	<i>Synsyllis longigularis</i>	2

					33
15JAN93	LQB	2	3	Rhynchocoel (unidentified)	1
15JAN93	LQB	2	3	<i>Oligochaetes</i> (unidentified)	1
15JAN93	LQB	2	3	<i>Eumida sanguinea</i>	1
15JAN93	LQB	2	3	<i>Glycinde solitaria</i>	1
15JAN93	LQB	2	3	<i>Clymenella torquata</i>	1
15JAN93	LQB	2	3	<i>Aligena texasiana</i>	2
15JAN93	LQB	2	3	<i>Tellina texana</i>	1
15JAN93	LQB	2	3	<i>Schistomeringos</i> sp. A	1
15JAN93	LQB	2	3	Paraonidae Grp. A	4
15JAN93	LQB	2	3	Paraonidae Grp. B	5
15JAN93	LQB	2	3	<i>Armandia maculata</i>	2
15JAN93	LQB	2	3	<i>Sarsiella texana</i>	1
15JAN93	LQB	2	3	<i>Molgula manhattensis</i>	61
15JAN93	LQB	2	3	<i>Mediomastus ambiseta</i>	6
15JAN93	LQB	2	3	<i>Synsyllis longigularis</i>	4

					92

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQB	2	10	Anthozoa (unidentified)	1
15JAN93	LQB	2	10	Rhynchocoel (unidentified)	3
15JAN93	LQB	2	10	Oligochaetes (unidentified)	4
15JAN93	LQB	2	10	<i>Gyptis vittata</i>	2
15JAN93	LQB	2	10	<i>Clymenella torquata</i>	2
15JAN93	LQB	2	10	<i>Schistomeringos</i> sp. A	1
15JAN93	LQB	2	10	Paraonidae Grp. A	4
15JAN93	LQB	2	10	Paraonidae Grp. B	10
15JAN93	LQB	2	10	<i>Molgula manhattensis</i>	4
15JAN93	LQB	2	10	<i>Mediomastus ambiseta</i>	3
15JAN93	LQB	2	10	<i>Synsyllis longigularis</i>	4

					38
15JAN93	LQB	3	3	<i>Eumida sanguinea</i>	1
15JAN93	LQB	3	3	<i>Spiophanes bombyx</i>	1
15JAN93	LQB	3	3	<i>Paraprionospio pinnata</i>	1
15JAN93	LQB	3	3	<i>Clymenella torquata</i>	3
15JAN93	LQB	3	3	<i>Aligena texasiana</i>	1
15JAN93	LQB	3	3	<i>Tellina texana</i>	1
15JAN93	LQB	3	3	<i>Oxyurostylis salinoi</i>	2
15JAN93	LQB	3	3	<i>Pyrgiscus</i> sp.	1
15JAN93	LQB	3	3	Paraonidae Grp. B	3
15JAN93	LQB	3	3	<i>Truncatella caribaeensis</i>	1
15JAN93	LQB	3	3	<i>Molgula manhattensis</i>	30
15JAN93	LQB	3	3	<i>Lembos</i> sp.	1
15JAN93	LQB	3	3	Turbellaria (unidentified)	1
15JAN93	LQB	3	3	<i>Mediomastus ambiseta</i>	2
15JAN93	LQB	3	3	<i>Synsyllis longigularis</i>	3

					52

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQB	3	10	Oligochaetes (unidentified)	5
15JAN93	LQB	3	10	<i>Glycinde solitaria</i>	1
15JAN93	LQB	3	10	<i>Spio setosa</i>	1
15JAN93	LQB	3	10	<i>Minuspio cirrifera</i>	1
15JAN93	LQB	3	10	<i>Tharyx setigera</i>	3
15JAN93	LQB	3	10	Paraonidae Grp. A	6
15JAN93	LQB	3	10	Paraonidae Grp. B	9
15JAN93	LQB	3	10	<i>Molgula manhattensis</i>	2
15JAN93	LQB	3	10	<i>Mediomastus ambiseta</i>	4
15JAN93	LQB	3	10	<i>Synsyllis longigularis</i>	5

					37
15JAN93	LQC	1	3	Anthozoa (unidentified)	1
15JAN93	LQC	1	3	Oligochaetes (unidentified)	1
15JAN93	LQC	1	3	<i>Eumida sanguinea</i>	2
15JAN93	LQC	1	3	<i>Schistomeringos rudolphi</i>	1
15JAN93	LQC	1	3	<i>Minuspio cirrifera</i>	3
15JAN93	LQC	1	3	<i>Spiochaetopterus costarum</i>	1
15JAN93	LQC	1	3	<i>Tharyx setigera</i>	1
15JAN93	LQC	1	3	<i>Axiothella mucosa</i>	1
15JAN93	LQC	1	3	<i>Mulinia lateralis</i>	2
15JAN93	LQC	1	3	<i>Ampelisca verrilli</i>	2
15JAN93	LQC	1	3	<i>Phoronis architecta</i>	1
15JAN93	LQC	1	3	<i>Tellidora cristata</i>	1
15JAN93	LQC	1	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	3
15JAN93	LQC	1	3	Paraonidae Grp. A	7
15JAN93	LQC	1	3	Paraonidae Grp. B	9
15JAN93	LQC	1	3	Ophiuroidea (unidentified)	1
15JAN93	LQC	1	3	<i>Sarsiella texana</i>	1
15JAN93	LQC	1	3	<i>Rictaxis punctostriatus</i>	1
15JAN93	LQC	1	3	<i>Mediomastus ambiseta</i>	9
15JAN93	LQC	1	3	<i>Synsyllis longigularis</i>	1

					49

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQC	1	10	Rhynchocoel (unidentified)	1
15JAN93	LQC	1	10	<i>Gyptis vittata</i>	1
15JAN93	LQC	1	10	<i>Magelona pettiboneae</i>	2
15JAN93	LQC	1	10	<i>Axiothella mucosa</i>	1
15JAN93	LQC	1	10	<i>Isolda pulchella</i>	1
15JAN93	LQC	1	10	<i>Aligena texasiana</i>	1
15JAN93	LQC	1	10	Paraonidae Grp. A	6
15JAN93	LQC	1	10	<i>Mediomastus ambiseta</i>	6

					19
15JAN93	LQC	2	3	Anthozoa (unidentified)	1
15JAN93	LQC	2	3	Rhynchocoel (unidentified)	2
15JAN93	LQC	2	3	Oligochaetes (unidentified)	2
15JAN93	LQC	2	3	<i>Eumida sanguinea</i>	2
15JAN93	LQC	2	3	<i>Glycinde solitaria</i>	1
15JAN93	LQC	2	3	<i>Spiophanes bombyx</i>	1
15JAN93	LQC	2	3	<i>Minuspio cirrifera</i>	4
15JAN93	LQC	2	3	<i>Haploscoloplos foliosus</i>	3
15JAN93	LQC	2	3	<i>Isolda pulchella</i>	1
15JAN93	LQC	2	3	<i>Parvilucina multilineata</i>	1
15JAN93	LQC	2	3	<i>Aligena texasiana</i>	3
15JAN93	LQC	2	3	<i>Tellina texana</i>	1
15JAN93	LQC	2	3	<i>Ampelisca verrilli</i>	1
15JAN93	LQC	2	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	1
15JAN93	LQC	2	3	Paraonidae Grp. A	1
15JAN93	LQC	2	3	Paraonidae Grp. B	4
15JAN93	LQC	2	3	Ophiuroidea (unidentified)	1
15JAN93	LQC	2	3	<i>Armandia maculata</i>	2
15JAN93	LQC	2	3	<i>Sarsiella texana</i>	1
15JAN93	LQC	2	3	<i>Sphaerosyllis</i> sp. A	6
15JAN93	LQC	2	3	<i>Mediomastus ambiseta</i>	3
15JAN93	LQC	2	3	<i>Synsyllis longigularis</i>	7

					49

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQC	2	10	Rhynchocoel (unidentified)	2
15JAN93	LQC	2	10	Oligochaetes (unidentified)	2
15JAN93	LQC	2	10	<i>Gyptis vittata</i>	1
15JAN93	LQC	2	10	<i>Glycera americana</i>	1
15JAN93	LQC	2	10	<i>Spiophanes bombyx</i>	1
15JAN93	LQC	2	10	<i>Clymenella torquata</i>	1
15JAN93	LQC	2	10	<i>Aligena texasiana</i>	3
15JAN93	LQC	2	10	<i>Tellina texana</i>	1
15JAN93	LQC	2	10	<i>Ampelisca verrilli</i>	1
15JAN93	LQC	2	10	<i>Phoronis architecta</i>	1
15JAN93	LQC	2	10	<i>Schistomeringos</i> sp. A	2
15JAN93	LQC	2	10	Paraonidae Grp. A	14
15JAN93	LQC	2	10	Paraonidae Grp. B	4
15JAN93	LQC	2	10	Ophiuroidea (unidentified)	1
15JAN93	LQC	2	10	<i>Mediomastus ambiseta</i>	3

					38

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	LQC	3	3	Anthozoa (unidentified)	2
15JAN93	LQC	3	3	Rhynchocoel (unidentified)	2
15JAN93	LQC	3	3	Oligochaetes (unidentified)	2
15JAN93	LQC	3	3	<i>Gyptis vittata</i>	1
15JAN93	LQC	3	3	<i>Glycinde solitaria</i>	1
15JAN93	LQC	3	3	<i>Spiochaetopterus costarum</i>	1
15JAN93	LQC	3	3	<i>Tharyx setigera</i>	1
15JAN93	LQC	3	3	<i>Axiothella mucosa</i>	2
15JAN93	LQC	3	3	<i>Clymenella torquata</i>	4
15JAN93	LQC	3	3	<i>Nuculana acuta</i>	1
15JAN93	LQC	3	3	<i>Parvilucina multilineata</i>	1
15JAN93	LQC	3	3	<i>Aligena texasiana</i>	2
15JAN93	LQC	3	3	<i>Tellina texana</i>	3
15JAN93	LQC	3	3	<i>Phoronis architecta</i>	12
15JAN93	LQC	3	3	Paraonidae Grp. A	1
15JAN93	LQC	3	3	Paraonidae Grp. B	4
15JAN93	LQC	3	3	<i>Sarsiella texana</i>	1
15JAN93	LQC	3	3	<i>Microprotopus</i> spp.	1
15JAN93	LQC	3	3	<i>Sphaerosyllis</i> sp. A	8
15JAN93	LQC	3	3	<i>Laeonereis culveri</i>	1
15JAN93	LQC	3	3	<i>Rictaxis punctostriatus</i>	1
15JAN93	LQC	3	3	<i>Mediomastus ambiseta</i>	5

					57
15JAN93	LQC	3	10	Rhynchocoel (unidentified)	1
15JAN93	LQC	3	10	<i>Glycera americana</i>	1
15JAN93	LQC	3	10	<i>Onuphis eremita</i>	1
15JAN93	LQC	3	10	<i>Magelona pettiboneae</i>	1
15JAN93	LQC	3	10	<i>Tharyx setigera</i>	2
15JAN93	LQC	3	10	<i>Capitella capitata</i>	1
15JAN93	LQC	3	10	<i>Melinna maculata</i>	1
15JAN93	LQC	3	10	<i>Isolda pulchella</i>	1
15JAN93	LQC	3	10	<i>Phoronis architecta</i>	1
15JAN93	LQC	3	10	Paraonidae Grp. A	13
15JAN93	LQC	3	10	Paraonidae Grp. B	4
15JAN93	LQC	3	10	<i>Mediomastus ambiseta</i>	1
15JAN93	LQC	3	10	<i>Synsyllis longigularis</i>	1

					29

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCC	1	3	Rhynchocoel (unidentified)	1
15JAN93	NCC	1	3	<i>Gyptis vittata</i>	2
15JAN93	NCC	1	3	<i>Glycinde solitaria</i>	1
15JAN93	NCC	1	3	<i>Paraprionospio pinnata</i>	2
15JAN93	NCC	1	3	<i>Nuculana acuta</i>	1
15JAN93	NCC	1	3	<i>Mulinia lateralis</i>	3
15JAN93	NCC	1	3	<i>Phascolion strombi</i>	1
15JAN93	NCC	1	3	Ophiuroidea (unidentified)	1
15JAN93	NCC	1	3	<i>Sphaerosyllis</i> sp. A	1
15JAN93	NCC	1	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
15JAN93	NCC	1	3	<i>Mediomastus ambiseta</i>	11

					25
15JAN93	NCC	1	10	Oligochaetes (unidentified)	1
15JAN93	NCC	1	10	<i>Gyptis vittata</i>	1
15JAN93	NCC	1	10	<i>Lumbrineris parvapedata</i>	1
15JAN93	NCC	1	10	<i>Polydora caulleryi</i>	1
15JAN93	NCC	1	10	<i>Tharyx setigera</i>	16
15JAN93	NCC	1	10	<i>Cossura delta</i>	2
15JAN93	NCC	1	10	<i>Abra aequalis</i>	1
15JAN93	NCC	1	10	Paraonidae Grp. A	1
15JAN93	NCC	1	10	Ophiuroidea (unidentified)	1
15JAN93	NCC	1	10	<i>Mediomastus ambiseta</i>	7

					32
15JAN93	NCC	2	3	<i>Gyptis vittata</i>	1
15JAN93	NCC	2	3	<i>Glycinde solitaria</i>	2
15JAN93	NCC	2	3	<i>Paraprionospio pinnata</i>	1
15JAN93	NCC	2	3	<i>Tharyx setigera</i>	1
15JAN93	NCC	2	3	<i>Cossura delta</i>	1
15JAN93	NCC	2	3	Maldanidae (unidentified)	1
15JAN93	NCC	2	3	<i>Nuculana acuta</i>	1
15JAN93	NCC	2	3	<i>Mulinia lateralis</i>	4
15JAN93	NCC	2	3	Ophiuroidea (unidentified)	2
15JAN93	NCC	2	3	<i>Armandia maculata</i>	1
15JAN93	NCC	2	3	<i>Mediomastus ambiseta</i>	15
15JAN93	NCC	2	3	<i>Glycinde nordmanni</i>	1

					31

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCC	2	10	<i>Tharyx setigera</i>	4
15JAN93	NCC	2	10	Ophiuroidea (unidentified)	1
15JAN93	NCC	2	10	<i>Mediomastus ambiseta</i>	1

					6
15JAN93	NCC	3	3	Rhynchocoel (unidentified)	1
15JAN93	NCC	3	3	<i>Paleanotus heteroseta</i>	1
15JAN93	NCC	3	3	<i>Eteone heteropoda</i>	1
15JAN93	NCC	3	3	<i>Paraprionospio pinnata</i>	2
15JAN93	NCC	3	3	<i>Tharyx setigera</i>	2
15JAN93	NCC	3	3	<i>Cossura delta</i>	2
15JAN93	NCC	3	3	<i>Phascolion strombi</i>	2
15JAN93	NCC	3	3	Ophiuroidea (unidentified)	2
15JAN93	NCC	3	3	<i>Sphaerosyllis</i> sp. A	5
15JAN93	NCC	3	3	<i>Mediomastus ambiseta</i>	12

					30
15JAN93	NCC	3	10	Rhynchocoel (unidentified)	1
15JAN93	NCC	3	10	<i>Lumbrineris parvapedata</i>	3
15JAN93	NCC	3	10	<i>Schistomeringos rudolphi</i>	1
15JAN93	NCC	3	10	<i>Tharyx setigera</i>	1
15JAN93	NCC	3	10	<i>Cossura delta</i>	1
15JAN93	NCC	3	10	Ophiuroidea (unidentified)	2
15JAN93	NCC	3	10	<i>Armandia maculata</i>	1
15JAN93	NCC	3	10	<i>Mediomastus ambiseta</i>	5

					15
15JAN93	NCD	1	3	Anthozoa (unidentified)	1
15JAN93	NCD	1	3	Rhynchocoel (unidentified)	1
15JAN93	NCD	1	3	<i>Glycinde solitaria</i>	1
15JAN93	NCD	1	3	<i>Paraprionospio pinnata</i>	1
15JAN93	NCD	1	3	<i>Oxyurostylis salinoi</i>	2
15JAN93	NCD	1	3	<i>Phascolion strombi</i>	3
15JAN93	NCD	1	3	<i>Rictaxis punctostriatus</i>	4
15JAN93	NCD	1	3	<i>Mediomastus ambiseta</i>	1

					14

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCD	1	10	<i>Mediomastus ambiseta</i>	1
15JAN93	NCD	2	3	Rhynchocoel (unidentified)	3
15JAN93	NCD	2	3	<i>Glycinde solitaria</i>	4
15JAN93	NCD	2	3	<i>Paraprionospio pinnata</i>	1
15JAN93	NCD	2	3	<i>Tharyx setigera</i>	1
15JAN93	NCD	2	3	<i>Cyclaspis varians</i>	1
15JAN93	NCD	2	3	<i>Oxyurostylis salinoi</i>	2
15JAN93	NCD	2	3	<i>Ampelisca verrilli</i>	1
15JAN93	NCD	2	3	Caprellid	5
15JAN93	NCD	2	3	<i>Phascolion strombi</i>	3
15JAN93	NCD	2	3	<i>Sphaerosyllis</i> sp. A	2
15JAN93	NCD	2	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
15JAN93	NCD	2	3	<i>Rictaxis punctostriatus</i>	3
15JAN93	NCD	2	3	<i>Mediomastus ambiseta</i>	1

					28
15JAN93	NCD	2	10	Polychaete juv. (unidentified)	1
15JAN93	NCD	3	3	Anthozoa (unidentified)	1
15JAN93	NCD	3	3	Rhynchocoel (unidentified)	3
15JAN93	NCD	3	3	<i>Haploscoloplos foliosus</i>	2
15JAN93	NCD	3	3	Caprellid	1
15JAN93	NCD	3	3	Paraonidae Grp. A	2
15JAN93	NCD	3	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
15JAN93	NCD	3	3	<i>Rictaxis punctostriatus</i>	4

					14
15JAN93	NCD	3	10	<i>Paraprionospio pinnata</i>	3
15JAN93	NCD	3	10	<i>Rictaxis punctostriatus</i>	1

					4

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCE	1	3	Anthozoa (unidentified)	1
15JAN93	NCE	1	3	Rhynchocoel (unidentified)	1
15JAN93	NCE	1	3	Oligochaetes (unidentified)	5
15JAN93	NCE	1	3	<i>Eteone heteropoda</i>	1
15JAN93	NCE	1	3	<i>Gyptis vittata</i>	1
15JAN93	NCE	1	3	<i>Glycera americana</i>	1
15JAN93	NCE	1	3	<i>Glycinde solitaria</i>	1
15JAN93	NCE	1	3	<i>Lumbrineris parvapedata</i>	2
15JAN93	NCE	1	3	<i>Tharyx setigera</i>	3
15JAN93	NCE	1	3	<i>Clymenella torquata</i>	1
15JAN93	NCE	1	3	<i>Melinna maculata</i>	1
15JAN93	NCE	1	3	<i>Nuculana acuta</i>	1
15JAN93	NCE	1	3	Paraonidae Grp. A	4
15JAN93	NCE	1	3	<i>Sarsiella texana</i>	1
15JAN93	NCE	1	3	<i>Sphaerosyllis</i> sp. A	1
15JAN93	NCE	1	3	Asciadiacea	1
15JAN93	NCE	1	3	<i>Molgula manhattensis</i>	1
15JAN93	NCE	1	3	<i>Asychis elongata</i>	1
15JAN93	NCE	1	3	<i>Laeonereis culveri</i>	1
15JAN93	NCE	1	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
15JAN93	NCE	1	3	<i>Caecum johnsoni</i>	1
15JAN93	NCE	1	3	Mollusca (unidentified)	1
15JAN93	NCE	1	3	<i>Rictaxis punctostriatus</i>	1
15JAN93	NCE	1	3	<i>Mediomastus ambiseta</i>	4

					37
15JAN93	NCE	1	10	Oligochaetes (unidentified)	1
15JAN93	NCE	1	10	<i>Magelona phyllisae</i>	1
15JAN93	NCE	1	10	<i>Cossura delta</i>	1
15JAN93	NCE	1	10	Paraonidae Grp. A	1
15JAN93	NCE	1	10	Paraonidae Grp. B	1
15JAN93	NCE	1	10	Ophiuroidea (unidentified)	1
15JAN93	NCE	1	10	<i>Mediomastus ambiseta</i>	1

					7

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCE	2	3	Rhynchocoel (unidentified)	1
15JAN93	NCE	2	3	<i>Anaitides erythrophyllus</i>	1
15JAN93	NCE	2	3	<i>Gyptis vittata</i>	1
15JAN93	NCE	2	3	<i>Glycinde solitaria</i>	4
15JAN93	NCE	2	3	<i>Lumbrineris parvapedata</i>	1
15JAN93	NCE	2	3	<i>Spiochaetopterus costarum</i>	1
15JAN93	NCE	2	3	<i>Nuculana acuta</i>	1
15JAN93	NCE	2	3	<i>Phascolion strombi</i>	1
15JAN93	NCE	2	3	<i>Phoronis architecta</i>	1
15JAN93	NCE	2	3	Paraonidae Grp. A	1
15JAN93	NCE	2	3	Ophiuroidea (unidentified)	2
15JAN93	NCE	2	3	<i>Sphaerosyllis</i> sp. A	2
15JAN93	NCE	2	3	<i>Molgula manhattensis</i>	1
15JAN93	NCE	2	3	<i>Rictaxis punctostriatus</i>	2
15JAN93	NCE	2	3	<i>Mediomastus ambiseta</i>	4
15JAN93	NCE	2	3	<i>Euclymene</i> sp. B	1

					25
15JAN93	NCE	2	10	Oligochaetes (unidentified)	1
15JAN93	NCE	2	10	<i>Notomastus latericeus</i>	1
15JAN93	NCE	2	10	<i>Phoronis architecta</i>	1
15JAN93	NCE	2	10	<i>Schistomeringos</i> sp. A	3
15JAN93	NCE	2	10	Paraonidae Grp. A	3
15JAN93	NCE	2	10	<i>Mediomastus ambiseta</i>	1

					10

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCE	3	3	Anthozoa (unidentified)	1
15JAN93	NCE	3	3	Rhynchocoel (unidentified)	3
15JAN93	NCE	3	3	Oligochaetes (unidentified)	4
15JAN93	NCE	3	3	<i>Paleanotus heteroseta</i>	2
15JAN93	NCE	3	3	<i>Eteone heteropoda</i>	1
15JAN93	NCE	3	3	<i>Gyptis vittata</i>	3
15JAN93	NCE	3	3	<i>Tharyx setigera</i>	2
15JAN93	NCE	3	3	<i>Clymenella torquata</i>	1
15JAN93	NCE	3	3	<i>Nuculana acuta</i>	1
15JAN93	NCE	3	3	<i>Phascolion strombi</i>	2
15JAN93	NCE	3	3	<i>Erichthonias brasiliensis</i>	17
15JAN93	NCE	3	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	1
15JAN93	NCE	3	3	Paraonidae Grp. B	2
15JAN93	NCE	3	3	Ophiuroidea (unidentified)	2
15JAN93	NCE	3	3	<i>Cerapus tubularis</i>	1
15JAN93	NCE	3	3	<i>Sarsiella texana</i>	1
15JAN93	NCE	3	3	<i>Sphaerosyllis</i> sp. A	2
15JAN93	NCE	3	3	<i>Laeonereis culveri</i>	1
15JAN93	NCE	3	3	<i>Rictaxis punctostriatus</i>	2
15JAN93	NCE	3	3	<i>Mediomastus ambiseta</i>	4
15JAN93	NCE	3	3	<i>Euclymene</i> sp. B	2
15JAN93	NCE	3	3	<i>Glycinde nordmanni</i>	1

					56

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
15JAN93	NCE	3	10	Rhynchocoel (unidentified)	2
15JAN93	NCE	3	10	Oligochaetes (unidentified)	7
15JAN93	NCE	3	10	<i>Paleanotus heteroseta</i>	3
15JAN93	NCE	3	10	<i>Gyptis vittata</i>	3
15JAN93	NCE	3	10	<i>Glycera americana</i>	1
15JAN93	NCE	3	10	<i>Diopatra cuprea</i>	1
15JAN93	NCE	3	10	<i>Lumbrineris parvapedata</i>	1
15JAN93	NCE	3	10	<i>Tharyx setigera</i>	4
15JAN93	NCE	3	10	<i>Cossura delta</i>	1
15JAN93	NCE	3	10	<i>Clymenella torquata</i>	1
15JAN93	NCE	3	10	<i>Aligena texasiana</i>	1
15JAN93	NCE	3	10	<i>Listriella clymenellae</i>	2
15JAN93	NCE	3	10	Paraonidae Grp. A	3
15JAN93	NCE	3	10	Ophiuroidea (unidentified)	2
15JAN93	NCE	3	10	<i>Sphaerosyllis</i> sp. A	1
15JAN93	NCE	3	10	<i>Mediomastus ambiseta</i>	3

					36
09APR93	LQA	1	3	Anthozoa (unidentified)	1
09APR93	LQA	1	3	Rhynchocoel (unidentified)	1
09APR93	LQA	1	3	<i>Glycera americana</i>	4
09APR93	LQA	1	3	<i>Glycinde solitaria</i>	3
09APR93	LQA	1	3	<i>Lumbrineris parvapedata</i>	1
09APR93	LQA	1	3	<i>Streblospio benedicti</i>	2
09APR93	LQA	1	3	<i>Paraprionospio pinnata</i>	1
09APR93	LQA	1	3	<i>Minuspio cirrifera</i>	2
09APR93	LQA	1	3	<i>Spiochaetopterus costarum</i>	1
09APR93	LQA	1	3	<i>Axiothella mucosa</i>	5
09APR93	LQA	1	3	<i>Clymenella torquata</i>	1
09APR93	LQA	1	3	<i>Nuculana acuta</i>	1
09APR93	LQA	1	3	<i>Schistomeringos</i> sp. A	1
09APR93	LQA	1	3	Paraonidae Grp. A	6
09APR93	LQA	1	3	<i>Sphaerosyllis</i> sp. A	13
09APR93	LQA	1	3	<i>Mediomastus ambiseta</i>	13

					56

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQA	1	10	Rhynchocoel (unidentified)	1
09APR93	LQA	1	10	Oligochaetes (unidentified)	2
09APR93	LQA	1	10	<i>Paleanotus heteroseta</i>	2
09APR93	LQA	1	10	<i>Glycera americana</i>	1
09APR93	LQA	1	10	<i>Lumbrineris parvapedata</i>	2
09APR93	LQA	1	10	<i>Tharyx setigera</i>	4
09APR93	LQA	1	10	<i>Notomastus latericeus</i>	1
09APR93	LQA	1	10	<i>Branchioasychis americana</i>	1
09APR93	LQA	1	10	<i>Axiothella mucosa</i>	1
09APR93	LQA	1	10	<i>Clymenella torquata</i>	3
09APR93	LQA	1	10	<i>Listriella clymenellae</i>	1
09APR93	LQA	1	10	<i>Schistomeringos</i> sp. A	21
09APR93	LQA	1	10	Paraonidae Grp. B	16
09APR93	LQA	1	10	<i>Periploma</i> cf. <i>orbitulare</i>	1
09APR93	LQA	1	10	<i>Mediomastus ambiseta</i>	9

					66
09APR93	LQA	2	3	Rhynchocoel (unidentified)	1
09APR93	LQA	2	3	Oligochaetes (unidentified)	1
09APR93	LQA	2	3	<i>Gyptis vittata</i>	1
09APR93	LQA	2	3	<i>Glycera americana</i>	4
09APR93	LQA	2	3	<i>Glycinde solitaria</i>	1
09APR93	LQA	2	3	<i>Minuspio cirrifera</i>	1
09APR93	LQA	2	3	<i>Tharyx setigera</i>	1
09APR93	LQA	2	3	<i>Branchioasychis americana</i>	1
09APR93	LQA	2	3	<i>Axiothella mucosa</i>	3
09APR93	LQA	2	3	<i>Clymenella torquata</i>	1
09APR93	LQA	2	3	<i>Nuculana acuta</i>	1
09APR93	LQA	2	3	<i>Tellina</i> sp.	1
09APR93	LQA	2	3	<i>Cyclaspis varians</i>	1
09APR93	LQA	2	3	<i>Phoronis architecta</i>	1
09APR93	LQA	2	3	Paraonidae Grp. A	4
09APR93	LQA	2	3	Ophiuroidea (unidentified)	1
09APR93	LQA	2	3	<i>Sphaerosyllis</i> sp. A	6
09APR93	LQA	2	3	Turbellaria (unidentified)	1
09APR93	LQA	2	3	<i>Periploma</i> cf. <i>orbitulare</i>	1
09APR93	LQA	2	3	<i>Mediomastus ambiseta</i>	8

					40

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQA	2	10	Oligochaetes (unidentified)	1
09APR93	LQA	2	10	<i>Gyptis vittata</i>	1
09APR93	LQA	2	10	<i>Glycera americana</i>	1
09APR93	LQA	2	10	<i>Diopatra cuprea</i>	1
09APR93	LQA	2	10	<i>Lumbrineris parvapedata</i>	3
09APR93	LQA	2	10	<i>Schistomeringos rudolphi</i>	1
09APR93	LQA	2	10	<i>Tharyx setigera</i>	14
09APR93	LQA	2	10	<i>Cossura delta</i>	1
09APR93	LQA	2	10	<i>Clymenella torquata</i>	1
09APR93	LQA	2	10	<i>Schistomeringos</i> sp. A	1
09APR93	LQA	2	10	Paraonidae Grp. A	1
09APR93	LQA	2	10	Paraonidae Grp. B	3
09APR93	LQA	2	10	<i>Asychis elongata</i>	1
09APR93	LQA	2	10	Turbellaria (unidentified)	2
09APR93	LQA	2	10	<i>Mediomastus ambiseta</i>	4

					36
09APR93	LQA	3	3	Anthozoa (unidentified)	1
09APR93	LQA	3	3	Rhynchocoel (unidentified)	2
09APR93	LQA	3	3	Oligochaetes (unidentified)	4
09APR93	LQA	3	3	<i>Gyptis vittata</i>	1
09APR93	LQA	3	3	<i>Glycera americana</i>	5
09APR93	LQA	3	3	<i>Lumbrineris parvapedata</i>	3
09APR93	LQA	3	3	<i>Tharyx setigera</i>	4
09APR93	LQA	3	3	<i>Notomastus latericeus</i>	2
09APR93	LQA	3	3	<i>Axiothella mucosa</i>	4
09APR93	LQA	3	3	<i>Nuculana acuta</i>	2
09APR93	LQA	3	3	<i>Macoma tenta</i>	1
09APR93	LQA	3	3	<i>Abra aequalis</i>	1
09APR93	LQA	3	3	<i>Ampelisca abdita</i>	1
09APR93	LQA	3	3	<i>Listriella clymenellae</i>	1
09APR93	LQA	3	3	<i>Phoronis architecta</i>	1
09APR93	LQA	3	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	5
09APR93	LQA	3	3	Paraonidae Grp. A	4
09APR93	LQA	3	3	Paraonidae Grp. B	3
09APR93	LQA	3	3	<i>Armandia maculata</i>	1
09APR93	LQA	3	3	<i>Mediomastus ambiseta</i>	15

					61

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQA	3	10	<i>Gyptis vittata</i>	1
09APR93	LQA	3	10	<i>Schistomeringos rudolphi</i>	1
09APR93	LQA	3	10	<i>Tharyx setigera</i>	23
09APR93	LQA	3	10	<i>Clymenella torquata</i>	3
09APR93	LQA	3	10	<i>Aligena texasiana</i>	1
09APR93	LQA	3	10	Nereidae (unidentified)	1
09APR93	LQA	3	10	<i>Asychis elongata</i>	1
09APR93	LQA	3	10	<i>Mediomastus ambiseta</i>	6

					37
09APR93	LQB	1	3	Rhynchocoel (unidentified)	2
09APR93	LQB	1	3	Oligochaetes (unidentified)	2
09APR93	LQB	1	3	<i>Eumida sanguinea</i>	5
09APR93	LQB	1	3	<i>Gyptis vittata</i>	1
09APR93	LQB	1	3	<i>Glycera americana</i>	2
09APR93	LQB	1	3	<i>Diopatra cuprea</i>	1
09APR93	LQB	1	3	<i>Spiophanes bombyx</i>	1
09APR93	LQB	1	3	<i>Oxyurostylis salinoi</i>	1
09APR93	LQB	1	3	<i>Listriella clymenellae</i>	2
09APR93	LQB	1	3	<i>Phascolion strombi</i>	1
09APR93	LQB	1	3	<i>Phoronis architecta</i>	1
09APR93	LQB	1	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	1
09APR93	LQB	1	3	Paraonidae Grp. A	8
09APR93	LQB	1	3	Paraonidae Grp. B	5
09APR93	LQB	1	3	<i>Armandia maculata</i>	1
09APR93	LQB	1	3	<i>Sphaerosyllis</i> sp. A	4
09APR93	LQB	1	3	<i>Mediomastus ambiseta</i>	10

					48

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQB	1	10	Oligochaetes (unidentified)	7
09APR93	LQB	1	10	<i>Spiophanes bombyx</i>	1
09APR93	LQB	1	10	<i>Tharyx setigera</i>	3
09APR93	LQB	1	10	<i>Clymenella torquata</i>	3
09APR93	LQB	1	10	<i>Phascolion strombi</i>	1
09APR93	LQB	1	10	<i>Phoronis architecta</i>	1
09APR93	LQB	1	10	<i>Schistomeringos</i> sp. A	4
09APR93	LQB	1	10	Paraonidae Grp. A	5
09APR93	LQB	1	10	Paraonidae Grp. B	3
09APR93	LQB	1	10	<i>Mediomastus ambiseta</i>	4

					32
09APR93	LQB	2	3	Oligochaetes (unidentified)	5
09APR93	LQB	2	3	<i>Glycera americana</i>	3
09APR93	LQB	2	3	<i>Spiophanes bombyx</i>	1
09APR93	LQB	2	3	<i>Axiothella mucosa</i>	2
09APR93	LQB	2	3	<i>Clymenella torquata</i>	1
09APR93	LQB	2	3	<i>Pectinaria gouldii</i>	1
09APR93	LQB	2	3	Syllidae (unidentified)	2
09APR93	LQB	2	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	4
09APR93	LQB	2	3	Paraonidae Grp. A	6
09APR93	LQB	2	3	Paraonidae Grp. B	3
09APR93	LQB	2	3	<i>Sphaerosyllis</i> sp. A	2
09APR93	LQB	2	3	Turbellaria (unidentified)	1
09APR93	LQB	2	3	<i>Mediomastus ambiseta</i>	18

					49
09APR93	LQB	2	10	Oligochaetes (unidentified)	3
09APR93	LQB	2	10	<i>Glycera americana</i>	1
09APR93	LQB	2	10	<i>Spiophanes bombyx</i>	1
09APR93	LQB	2	10	<i>Listriella clymenellae</i>	2
09APR93	LQB	2	10	Paraonidae Grp. A	3
09APR93	LQB	2	10	Paraonidae Grp. B	5
09APR93	LQB	2	10	<i>Mediomastus ambiseta</i>	1

					16

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQB	3	3	Anthozoa (unidentified)	3
09APR93	LQB	3	3	Oligochaetes (unidentified)	8
09APR93	LQB	3	3	<i>Glycera americana</i>	3
09APR93	LQB	3	3	<i>Schistomeringos rudolphi</i>	1
09APR93	LQB	3	3	<i>Polydora caulleryi</i>	3
09APR93	LQB	3	3	<i>Minuspio cirrifera</i>	1
09APR93	LQB	3	3	<i>Haploscoloplos foliosus</i>	1
09APR93	LQB	3	3	<i>Crepidula fornicata</i>	1
09APR93	LQB	3	3	<i>Oxyurostylis salinoi</i>	1
09APR93	LQB	3	3	<i>Erichthonias brasiliensis</i>	1
09APR93	LQB	3	3	Paraonidae Grp. A	9
09APR93	LQB	3	3	Paraonidae Grp. B	3
09APR93	LQB	3	3	<i>Microtopus</i> spp.	1
09APR93	LQB	3	3	Turbellaria (unidentified)	1
09APR93	LQB	3	3	Mollusca (unidentified)	1
09APR93	LQB	3	3	<i>Mediomastus ambiseta</i>	8

					46
09APR93	LQB	3	10	Oligochaetes (unidentified)	8
09APR93	LQB	3	10	<i>Polydora caulleryi</i>	8
09APR93	LQB	3	10	<i>Spiophanes bombyx</i>	1
09APR93	LQB	3	10	<i>Tharyx setigera</i>	1
09APR93	LQB	3	10	<i>Clymenella torquata</i>	1
09APR93	LQB	3	10	<i>Schistomeringos</i> sp. A	11
09APR93	LQB	3	10	Paraonidae Grp. A	3
09APR93	LQB	3	10	Paraonidae Grp. B	16
09APR93	LQB	3	10	<i>Mediomastus ambiseta</i>	4

					53

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQC	1	3	Rhynchocoel (unidentified)	2
09APR93	LQC	1	3	<i>Anaitides erythrophyllus</i>	1
09APR93	LQC	1	3	<i>Nereis</i> sp. A	2
09APR93	LQC	1	3	<i>Glycera americana</i>	3
09APR93	LQC	1	3	<i>Diopatra cuprea</i>	2
09APR93	LQC	1	3	<i>Schistomeringos rudolphi</i>	1
09APR93	LQC	1	3	<i>Spiophanes bombyx</i>	3
09APR93	LQC	1	3	<i>Paraprionospio pinnata</i>	2
09APR93	LQC	1	3	<i>Minuspio cirrifera</i>	2
09APR93	LQC	1	3	<i>Axiothella mucosa</i>	7
09APR93	LQC	1	3	<i>Owenia fusiformis</i>	1
09APR93	LQC	1	3	<i>Isolda pulchella</i>	1
09APR93	LQC	1	3	<i>Crepidula fornicata</i>	1
09APR93	LQC	1	3	<i>Nuculana acuta</i>	1
09APR93	LQC	1	3	<i>Parvilucina multilineata</i>	1
09APR93	LQC	1	3	<i>Aligena texasiana</i>	1
09APR93	LQC	1	3	<i>Tellina texana</i>	1
09APR93	LQC	1	3	<i>Cyclaspis varians</i>	1
09APR93	LQC	1	3	<i>Eucерamus praelongus</i>	1
09APR93	LQC	1	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	5
09APR93	LQC	1	3	Paraonidae Grp. A	2
09APR93	LQC	1	3	Ophiuroidea (unidentified)	1
09APR93	LQC	1	3	<i>Sarsiella texana</i>	4
09APR93	LQC	1	3	<i>Sphaerosyllis</i> sp. A	1
09APR93	LQC	1	3	Ascidacea	4
09APR93	LQC	1	3	<i>Chione cancellata</i>	1
09APR93	LQC	1	3	Mollusca (unidentified)	2
09APR93	LQC	1	3	<i>Mediomastus ambiseta</i>	13

67

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQC	1	10	Oligochaetes (unidentified)	5
09APR93	LQC	1	10	<i>Dorvillea rubra</i>	6
09APR93	LQC	1	10	<i>Tharyx setigera</i>	2
09APR93	LQC	1	10	<i>Axiothella mucosa</i>	1
09APR93	LQC	1	10	<i>Clymenella torquata</i>	4
09APR93	LQC	1	10	<i>Isolda pulchella</i>	1
09APR93	LQC	1	10	<i>Aligena texasiana</i>	2
09APR93	LQC	1	10	<i>Phoronis architecta</i>	1
09APR93	LQC	1	10	Paraonidae Grp. A	1
09APR93	LQC	1	10	Paraonidae Grp. B	3
09APR93	LQC	1	10	Mollusca (unidentified)	2
09APR93	LQC	1	10	<i>Mediomastus ambiseta</i>	3

					31
09APR93	LQC	2	3	Oligochaetes (unidentified)	1
09APR93	LQC	2	3	<i>Eunoe cf. nodulosa</i>	2
09APR93	LQC	2	3	<i>Eteone heteropoda</i>	2
09APR93	LQC	2	3	<i>Glycera americana</i>	2
09APR93	LQC	2	3	<i>Diopatra cuprea</i>	1
09APR93	LQC	2	3	<i>Spiophanes bombyx</i>	1
09APR93	LQC	2	3	<i>Paraprionospio pinnata</i>	1
09APR93	LQC	2	3	<i>Axiothella mucosa</i>	3
09APR93	LQC	2	3	<i>Clymenella torquata</i>	1
09APR93	LQC	2	3	<i>Vitrinella floridana</i>	1
09APR93	LQC	2	3	<i>Nuculana acuta</i>	1
09APR93	LQC	2	3	<i>Tellina texana</i>	1
09APR93	LQC	2	3	<i>Oxyurostylis salinoi</i>	2
09APR93	LQC	2	3	<i>Phascolion strombi</i>	1
09APR93	LQC	2	3	<i>Schizocardium</i> sp.	1
09APR93	LQC	2	3	<i>Erichthonias brasiliensis</i>	1
09APR93	LQC	2	3	<i>Sphaerosyllis cf. sublaevis</i>	6
09APR93	LQC	2	3	Ophiuroidea (unidentified)	2
09APR93	LQC	2	3	<i>Munna hayesi</i>	1
09APR93	LQC	2	3	<i>Syllis</i> sp.	1
09APR93	LQC	2	3	Mollusca (unidentified)	1
09APR93	LQC	2	3	<i>Mediomastus ambiseta</i>	10

					43

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQC	2	10	Rhynchocoel (unidentified)	1
09APR93	LQC	2	10	Oligochaetes (unidentified)	5
09APR93	LQC	2	10	<i>Paleanotus heteroseta</i>	6
09APR93	LQC	2	10	<i>Gyptis vittata</i>	4
09APR93	LQC	2	10	<i>Dorvillea rubra</i>	4
09APR93	LQC	2	10	<i>Spiophanes bombyx</i>	3
09APR93	LQC	2	10	<i>Tharyx setigera</i>	1
09APR93	LQC	2	10	<i>Axiothella mucosa</i>	2
09APR93	LQC	2	10	<i>Clymenella torquata</i>	2
09APR93	LQC	2	10	<i>Aligena texasiana</i>	4
09APR93	LQC	2	10	<i>Tellina texana</i>	3
09APR93	LQC	2	10	<i>Listriella clymenellae</i>	2
09APR93	LQC	2	10	Paraonidae Grp. A	1
09APR93	LQC	2	10	Paraonidae Grp. B	7
09APR93	LQC	2	10	<i>Caecum johnsoni</i>	4
09APR93	LQC	2	10	<i>Mediomastus ambiseta</i>	4

					53
09APR93	LQC	3	3	Rhynchocoel (unidentified)	2
09APR93	LQC	3	3	Oligochaetes (unidentified)	1
09APR93	LQC	3	3	<i>Anaitides erythrophyllus</i>	1
09APR93	LQC	3	3	<i>Nephtys magellanica</i>	1
09APR93	LQC	3	3	<i>Glycera americana</i>	5
09APR93	LQC	3	3	<i>Spiophanes bombyx</i>	4
09APR93	LQC	3	3	<i>Minuspio cirrifera</i>	1
09APR93	LQC	3	3	<i>Tharyx setigera</i>	1
09APR93	LQC	3	3	<i>Axiothella mucosa</i>	5
09APR93	LQC	3	3	<i>Anadara transversa</i>	2
09APR93	LQC	3	3	<i>Mysella planulata</i>	1
09APR93	LQC	3	3	<i>Tellina texana</i>	1
09APR93	LQC	3	3	<i>Oxyurostylis salinoi</i>	1
09APR93	LQC	3	3	<i>Ampelisca abdita</i>	1
09APR93	LQC	3	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	2
09APR93	LQC	3	3	Paraonidae Grp. A	2
09APR93	LQC	3	3	Paraonidae Grp. B	5
09APR93	LQC	3	3	<i>Sarsiella texana</i>	1
09APR93	LQC	3	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
09APR93	LQC	3	3	<i>Mediomastus ambiseta</i>	12

					50

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	LQC	3	10	Rhynchocoel (unidentified)	1
09APR93	LQC	3	10	<i>Anaitides erythrophyllus</i>	1
09APR93	LQC	3	10	<i>Gyptis vittata</i>	1
09APR93	LQC	3	10	<i>Clymenella torquata</i>	2
09APR93	LQC	3	10	<i>Aligena texasiana</i>	1
09APR93	LQC	3	10	Paraonidae Grp. A	1
09APR93	LQC	3	10	Paraonidae Grp. B	4
09APR93	LQC	3	10	<i>Mediomastus ambiseta</i>	2

					13
09APR93	NCC	1	3	<i>Paleanotus heteroseta</i>	2
09APR93	NCC	1	3	<i>Gyptis vittata</i>	2
09APR93	NCC	1	3	<i>Glycinde solitaria</i>	1
09APR93	NCC	1	3	<i>Lumbrineris parvapedata</i>	1
09APR93	NCC	1	3	<i>Schistomeringos rudolphi</i>	1
09APR93	NCC	1	3	<i>Paraprionospio pinnata</i>	1
09APR93	NCC	1	3	<i>Tharyx setigera</i>	1
09APR93	NCC	1	3	<i>Cossura delta</i>	1
09APR93	NCC	1	3	<i>Lyonsia hyalina floridana</i>	1
09APR93	NCC	1	3	<i>Cyclaspis varians</i>	2
09APR93	NCC	1	3	<i>Sphaerosyllis</i> sp. A	1
09APR93	NCC	1	3	<i>Asychis elongata</i>	1
09APR93	NCC	1	3	<i>Mediomastus ambiseta</i>	3

					18
09APR93	NCC	1	10	<i>Lumbrineris parvapedata</i>	4
09APR93	NCC	1	10	<i>Tharyx setigera</i>	1
09APR93	NCC	1	10	<i>Cossura delta</i>	4
09APR93	NCC	1	10	<i>Sphaerosyllis</i> sp. A	1
09APR93	NCC	1	10	<i>Mediomastus ambiseta</i>	2

					12

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	NCC	2	3	Rhynchocoel (unidentified)	2
09APR93	NCC	2	3	Oligochaetes (unidentified)	2
09APR93	NCC	2	3	<i>Gyptis vittata</i>	2
09APR93	NCC	2	3	<i>Lumbrineris parvapedata</i>	1
09APR93	NCC	2	3	<i>Spiochaetopterus costarum</i>	2
09APR93	NCC	2	3	<i>Tharyx setigera</i>	2
09APR93	NCC	2	3	<i>Cossura delta</i>	2
09APR93	NCC	2	3	<i>Branchioasychis americana</i>	1
09APR93	NCC	2	3	<i>Nuculana acuta</i>	1
09APR93	NCC	2	3	Caprellid	2
09APR93	NCC	2	3	<i>Sphaerosyllis</i> sp. A	1
09APR93	NCC	2	3	<i>Mediomastus ambiseta</i>	5

					23
09APR93	NCC	2	10	Rhynchocoel (unidentified)	1
09APR93	NCC	2	10	Oligochaetes (unidentified)	1
09APR93	NCC	2	10	<i>Lumbrineris parvapedata</i>	1
09APR93	NCC	2	10	<i>Tharyx setigera</i>	3
09APR93	NCC	2	10	<i>Cossura delta</i>	2
09APR93	NCC	2	10	<i>Mediomastus ambiseta</i>	2

					10
09APR93	NCC	3	3	<i>Glycinde solitaria</i>	3
09APR93	NCC	3	3	<i>Lumbrineris parvapedata</i>	1
09APR93	NCC	3	3	<i>Paraprionospio pinnata</i>	3
09APR93	NCC	3	3	<i>Spiochaetopterus costarum</i>	1
09APR93	NCC	3	3	<i>Tharyx setigera</i>	2
09APR93	NCC	3	3	<i>Cossura delta</i>	2
09APR93	NCC	3	3	<i>Oxyurostylis salinoides</i>	1
09APR93	NCC	3	3	<i>Ampelisca verrilli</i>	1
09APR93	NCC	3	3	Ophiuroidea (unidentified)	1
09APR93	NCC	3	3	<i>Sphaerosyllis</i> sp. A	3
09APR93	NCC	3	3	<i>Mediomastus ambiseta</i>	6

					24

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	NCC	3	10	Rhynchocoel (unidentified)	1
09APR93	NCC	3	10	<i>Paleanotus heteroseta</i>	1
09APR93	NCC	3	10	<i>Lumbrineris parvapedata</i>	1
09APR93	NCC	3	10	<i>Tharyx setigera</i>	2
09APR93	NCC	3	10	<i>Haploscoloplos foliosus</i>	1
09APR93	NCC	3	10	<i>Cossura delta</i>	1
09APR93	NCC	3	10	Ophiuroidea (unidentified)	1
09APR93	NCC	3	10	<i>Mediomastus ambiseta</i>	2
09APR93	NCC	3	10	<i>Synsyllis longigularis</i>	2

					12
09APR93	NCD	1	3	Rhynchocoel (unidentified)	1
09APR93	NCD	1	3	Oligochaetes (unidentified)	44
09APR93	NCD	1	3	<i>Paranaitis speciosa</i>	1
09APR93	NCD	1	3	<i>Haploscoloplos foliosus</i>	1
09APR93	NCD	1	3	<i>Owenia fusiformis</i>	1
09APR93	NCD	1	3	<i>Cyclaspis varians</i>	1
09APR93	NCD	1	3	<i>Phascolion strombi</i>	1

					50
09APR93	NCD	1	10	Oligochaetes (unidentified)	1
09APR93	NCD	1	10	<i>Gyptis vittata</i>	1
09APR93	NCD	1	10	<i>Polydora socialis</i>	1
09APR93	NCD	1	10	<i>Sphaerosyllis</i> sp. A	1
09APR93	NCD	1	10	<i>Synsyllis longigularis</i>	1

					5

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	NCD	2	3	Anthozoa (unidentified)	1
09APR93	NCD	2	3	Rhynchocoel (unidentified)	1
09APR93	NCD	2	3	Oligochaetes (unidentified)	38
09APR93	NCD	2	3	<i>Gyptis vittata</i>	2
09APR93	NCD	2	3	<i>Glycinde solitaria</i>	1
09APR93	NCD	2	3	<i>Aligena texasiana</i>	1
09APR93	NCD	2	3	<i>Oxyurostylis salinoi</i>	2
09APR93	NCD	2	3	<i>Acteocina canaliculata</i>	2
09APR93	NCD	2	3	<i>Sphaerosyllis</i> cf. <i>sublaevis</i>	1
09APR93	NCD	2	3	<i>Armandia maculata</i>	1
09APR93	NCD	2	3	<i>Sphaerosyllis</i> sp. A	2

					52
09APR93	NCD	2	10	Oligochaetes (unidentified)	1
09APR93	NCD	2	10	<i>Gyptis vittata</i>	1
09APR93	NCD	2	10	<i>Paraprionospio pinnata</i>	1
09APR93	NCD	2	10	<i>Synsyllis longigularis</i>	1

					4
09APR93	NCD	3	3	Oligochaetes (unidentified)	86
09APR93	NCD	3	3	<i>Eteone lactea</i>	1
09APR93	NCD	3	3	<i>Glycinde solitaria</i>	1
09APR93	NCD	3	3	<i>Apoprionospio pygmaea</i>	1
09APR93	NCD	3	3	<i>Oxyurostylis salinoi</i>	3
09APR93	NCD	3	3	<i>Mercenaria campechiensis</i>	1
09APR93	NCD	3	3	<i>Sarsiella texana</i>	2
09APR93	NCD	3	3	<i>Sphaerosyllis</i> sp. A	1
09APR93	NCD	3	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
09APR93	NCD	3	3	<i>Synsyllis longigularis</i>	1

					98
09APR93	NCD	3	10	Oligochaetes (unidentified)	2
09APR93	NCD	3	10	<i>Gyptis vittata</i>	1
09APR93	NCD	3	10	<i>Glycera americana</i>	1

					4

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	NCE	1	3	<i>Oligochaetes</i> (unidentified)	1
09APR93	NCE	1	3	<i>Eteone heteropoda</i>	1
09APR93	NCE	1	3	<i>Glycera americana</i>	1
09APR93	NCE	1	3	<i>Diopatra cuprea</i>	3
09APR93	NCE	1	3	<i>Lumbrineris parvapedata</i>	4
09APR93	NCE	1	3	<i>Streblospio benedicti</i>	1
09APR93	NCE	1	3	<i>Spiochaetopterus costarum</i>	1
09APR93	NCE	1	3	<i>Anadara transversa</i>	1
09APR93	NCE	1	3	<i>Aligena texasiana</i>	2
09APR93	NCE	1	3	Caprellid	19
09APR93	NCE	1	3	<i>Erichthonias brasiliensis</i>	11
09APR93	NCE	1	3	<i>Amphilocus</i> sp.	1
09APR93	NCE	1	3	<i>Elasmopus</i> sp.	1
09APR93	NCE	1	3	Paraonidae Grp. A	2
09APR93	NCE	1	3	<i>Sphaerosyllis</i> sp. A	16
09APR93	NCE	1	3	Asciacea	1
09APR93	NCE	1	3	<i>Mediomastus ambiseta</i>	3
09APR93	NCE	1	3	<i>Euclymene</i> sp. B	6

					75
09APR93	NCE	1	10	<i>Paleanotus heteroseta</i>	1
09APR93	NCE	1	10	<i>Gyptis vittata</i>	2
09APR93	NCE	1	10	<i>Nephtys magellanica</i>	1
09APR93	NCE	1	10	<i>Lumbrineris parvapedata</i>	1
09APR93	NCE	1	10	<i>Schistomeringos rudolphi</i>	3
09APR93	NCE	1	10	<i>Tharyx setigera</i>	4
09APR93	NCE	1	10	<i>Clymenella torquata</i>	2
09APR93	NCE	1	10	<i>Aligena texasiana</i>	1
09APR93	NCE	1	10	Paraonidae Grp. B	2
09APR93	NCE	1	10	<i>Mediomastus ambiseta</i>	2
09APR93	NCE	1	10	<i>Euclymene</i> sp. B	1

					20

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	NCE	2	3	Rhynchocoel (unidentified)	2
09APR93	NCE	2	3	Oligochaetes (unidentified)	1
09APR93	NCE	2	3	<i>Gyptis vittata</i>	1
09APR93	NCE	2	3	<i>Glycera americana</i>	1
09APR93	NCE	2	3	<i>Aligena texasiana</i>	1
09APR93	NCE	2	3	<i>Macoma tenta</i>	1
09APR93	NCE	2	3	Ophiuroidea (unidentified)	1
09APR93	NCE	2	3	<i>Microtopus</i> spp.	1
09APR93	NCE	2	3	<i>Sphaerosyllis</i> sp. A	3
09APR93	NCE	2	3	<i>Mediomastus ambiseta</i>	8
09APR93	NCE	2	3	<i>Euclymene</i> sp. B	1

					21
09APR93	NCE	2	10	Anthozoa (unidentified)	1
09APR93	NCE	2	10	<i>Eteone lactea</i>	1
09APR93	NCE	2	10	<i>Gyptis vittata</i>	1
09APR93	NCE	2	10	<i>Lumbrineris parvapedata</i>	1
09APR93	NCE	2	10	<i>Schistomeringos rudolphi</i>	1
09APR93	NCE	2	10	<i>Polydora caulleryi</i>	10
09APR93	NCE	2	10	<i>Tharyx setigera</i>	5
09APR93	NCE	2	10	<i>Haploscoloplos foliosus</i>	7
09APR93	NCE	2	10	<i>Clymenella torquata</i>	1
09APR93	NCE	2	10	<i>Vitrinella floridana</i>	1
09APR93	NCE	2	10	<i>Listriella clymenellae</i>	1
09APR93	NCE	2	10	Paraonidae Grp. B	3
09APR93	NCE	2	10	Ophiuroidea (unidentified)	1
09APR93	NCE	2	10	<i>Laeonereis culveri</i>	1
09APR93	NCE	2	10	<i>Euclymene</i> sp. B	1

					36

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
09APR93	NCE	3	3	Rhynchocoel (unidentified)	1
09APR93	NCE	3	3	Oligochaetes (unidentified)	1
09APR93	NCE	3	3	<i>Paleanotus heteroseta</i>	1
09APR93	NCE	3	3	<i>Gyptis vittata</i>	1
09APR93	NCE	3	3	<i>Glycinde solitaria</i>	2
09APR93	NCE	3	3	<i>Schistomeringos rudolphi</i>	1
09APR93	NCE	3	3	<i>Paraprionospio pinnata</i>	1
09APR93	NCE	3	3	<i>Tharyx setigera</i>	2
09APR93	NCE	3	3	<i>Aligena texasiana</i>	2
09APR93	NCE	3	3	<i>Macoma tenta</i>	1
09APR93	NCE	3	3	Paraonidae Grp. B	2
09APR93	NCE	3	3	<i>Microtopopus</i> spp.	1
09APR93	NCE	3	3	<i>Sphaerosyllis</i> sp. A	4
09APR93	NCE	3	3	<i>Laeonereis culveri</i>	1
09APR93	NCE	3	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
09APR93	NCE	3	3	<i>Mediomastus ambiseta</i>	5
09APR93	NCE	3	3	<i>Euclymene</i> sp. B	3

					30
09APR93	NCE	3	10	Rhynchocoel (unidentified)	1
09APR93	NCE	3	10	Oligochaetes (unidentified)	4
09APR93	NCE	3	10	<i>Eteone lactea</i>	1
09APR93	NCE	3	10	<i>Gyptis vittata</i>	3
09APR93	NCE	3	10	<i>Schistomeringos rudolphi</i>	7
09APR93	NCE	3	10	<i>Polydora caulleryi</i>	1
09APR93	NCE	3	10	<i>Tharyx setigera</i>	5
09APR93	NCE	3	10	<i>Clymenella torquata</i>	2
09APR93	NCE	3	10	<i>Isolda pulchella</i>	1
09APR93	NCE	3	10	<i>Aligena texasiana</i>	1
09APR93	NCE	3	10	<i>Listriella clymenellae</i>	2
09APR93	NCE	3	10	Paraonidae Grp. B	3
09APR93	NCE	3	10	<i>Mediomastus ambiseta</i>	3

					34

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQA	1	3	Oligochaetes (unidentified)	8
10JUL93	LQA	1	3	<i>Glycera americana</i>	1
10JUL93	LQA	1	3	<i>Spio setosa</i>	1
10JUL93	LQA	1	3	<i>Paraprionospio pinnata</i>	2
10JUL93	LQA	1	3	<i>Tharyx setigera</i>	1
10JUL93	LQA	1	3	<i>Axiothella mucosa</i>	1
10JUL93	LQA	1	3	<i>Clymenella torquata</i>	1
10JUL93	LQA	1	3	<i>Listriella clymenellae</i>	3
10JUL93	LQA	1	3	Paraonidae Grp. A	6
10JUL93	LQA	1	3	<i>Sphaerosyllis</i> sp. A	3
10JUL93	LQA	1	3	<i>Laeonereis culveri</i>	1
10JUL93	LQA	1	3	<i>Mediomastus ambiseta</i>	8

					36
10JUL93	LQA	1	10	Anthozoa (unidentified)	1
10JUL93	LQA	1	10	Oligochaetes (unidentified)	5
10JUL93	LQA	1	10	<i>Paleanotus heteroseta</i>	8
10JUL93	LQA	1	10	<i>Gyptis vittata</i>	4
10JUL93	LQA	1	10	<i>Lumbrineris parvapedata</i>	2
10JUL93	LQA	1	10	<i>Spiophanes bombyx</i>	1
10JUL93	LQA	1	10	<i>Minuspio cirrifera</i>	2
10JUL93	LQA	1	10	<i>Spiochaetopterus costarum</i>	1
10JUL93	LQA	1	10	<i>Tharyx setigera</i>	7
10JUL93	LQA	1	10	<i>Axiothella mucosa</i>	1
10JUL93	LQA	1	10	<i>Clymenella torquata</i>	7
10JUL93	LQA	1	10	<i>Mysella planulata</i>	1
10JUL93	LQA	1	10	<i>Aligena texasiana</i>	4
10JUL93	LQA	1	10	<i>Abra aequalis</i>	1
10JUL93	LQA	1	10	<i>Listriella clymenellae</i>	1
10JUL93	LQA	1	10	Paraonidae Grp. B	14
10JUL93	LQA	1	10	<i>Periploma</i> cf. <i>orbiculare</i>	3
10JUL93	LQA	1	10	<i>Mediomastus ambiseta</i>	1

					64

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQA	2	3	<i>Paleanotus heteroseta</i>	2
10JUL93	LQA	2	3	<i>Glycera americana</i>	1
10JUL93	LQA	2	3	<i>Axiothella mucosa</i>	1
10JUL93	LQA	2	3	<i>Ampelisca verrilli</i>	1
10JUL93	LQA	2	3	<i>Listriella clymenellae</i>	2
10JUL93	LQA	2	3	<i>Lucina pectinata</i>	1
10JUL93	LQA	2	3	Paraonidae Grp. A	7
10JUL93	LQA	2	3	<i>Sphaerosyllis</i> sp. A	2
10JUL93	LQA	2	3	<i>Periploma</i> cf. <i>orbiculare</i>	2
10JUL93	LQA	2	3	<i>Mediomastus ambiseta</i>	3

					22
10JUL93	LQA	2	10	Rhynchocoel (unidentified)	1
10JUL93	LQA	2	10	Oligochaetes (unidentified)	2
10JUL93	LQA	2	10	<i>Paleanotus heteroseta</i>	3
10JUL93	LQA	2	10	<i>Spiophanes bombyx</i>	1
10JUL93	LQA	2	10	<i>Tharyx setigera</i>	20
10JUL93	LQA	2	10	<i>Branchioasychis americana</i>	1
10JUL93	LQA	2	10	<i>Axiothella mucosa</i>	3
10JUL93	LQA	2	10	<i>Clymenella torquata</i>	2
10JUL93	LQA	2	10	<i>Listriella clymenellae</i>	1
10JUL93	LQA	2	10	Paraonidae Grp. A	2
10JUL93	LQA	2	10	<i>Mediomastus ambiseta</i>	1

					37
10JUL93	LQA	3	3	<i>Paleanotus heteroseta</i>	1
10JUL93	LQA	3	3	<i>Podarke obscura</i>	1
10JUL93	LQA	3	3	<i>Axiothella mucosa</i>	1
10JUL93	LQA	3	3	<i>Clymenella torquata</i>	1
10JUL93	LQA	3	3	<i>Ampelisca verrilli</i>	1
10JUL93	LQA	3	3	<i>Listriella clymenellae</i>	3
10JUL93	LQA	3	3	Paraonidae Grp. A	5
10JUL93	LQA	3	3	<i>Periploma</i> cf. <i>orbiculare</i>	1
10JUL93	LQA	3	3	<i>Mediomastus ambiseta</i>	2

					16

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQA	3	10	Anthozoa (unidentified)	2
10JUL93	LQA	3	10	Rhynchocoel (unidentified)	1
10JUL93	LQA	3	10	<i>Paleanotus heteroseta</i>	18
10JUL93	LQA	3	10	<i>Gyptis vittata</i>	1
10JUL93	LQA	3	10	<i>Glycera americana</i>	1
10JUL93	LQA	3	10	<i>Lumbrineris parvapedata</i>	4
10JUL93	LQA	3	10	<i>Schistomeringos rudolphi</i>	2
10JUL93	LQA	3	10	<i>Minuspio cirrifera</i>	1
10JUL93	LQA	3	10	<i>Tharyx setigera</i>	11
10JUL93	LQA	3	10	<i>Branchioasychis americana</i>	1
10JUL93	LQA	3	10	<i>Axiothella mucosa</i>	1
10JUL93	LQA	3	10	<i>Clymenella torquata</i>	5
10JUL93	LQA	3	10	<i>Vitrinella floridana</i>	1
10JUL93	LQA	3	10	<i>Aligena texasiana</i>	1
10JUL93	LQA	3	10	<i>Listriella clymenellae</i>	5
10JUL93	LQA	3	10	<i>Branchiostoma caribaeum</i>	1
10JUL93	LQA	3	10	<i>Schistomeringos</i> sp. A	7
10JUL93	LQA	3	10	Paraonidae Grp. B	7
10JUL93	LQA	3	10	<i>Periploma</i> cf. <i>orbiculare</i>	1
10JUL93	LQA	3	10	<i>Caecum johnsoni</i>	5
10JUL93	LQA	3	10	<i>Mediomastus ambiseta</i>	5

					81
10JUL93	LQB	1	3	Anthozoa (unidentified)	3
10JUL93	LQB	1	3	Oligochaetes (unidentified)	1
10JUL93	LQB	1	3	<i>Podarke obscura</i>	1
10JUL93	LQB	1	3	<i>Axiothella mucosa</i>	2
10JUL93	LQB	1	3	<i>Nuculana acuta</i>	1
10JUL93	LQB	1	3	<i>Schistomeringos</i> sp. A	3
10JUL93	LQB	1	3	Paraonidae Grp. A	5
10JUL93	LQB	1	3	Ophiuroidea (unidentified)	1
10JUL93	LQB	1	3	<i>Sphaerosyllis</i> sp. A	1
10JUL93	LQB	1	3	<i>Mediomastus ambiseta</i>	10
10JUL93	LQB	1	3	<i>Synsyllis longigularis</i>	9

					37

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQB	1	10	<i>Oligochaetes</i> (unidentified)	7
10JUL93	LQB	1	10	<i>Paleanotus heteroseta</i>	1
10JUL93	LQB	1	10	<i>Podarke obscura</i>	1
10JUL93	LQB	1	10	<i>Schistomeringos rudolphi</i>	1
10JUL93	LQB	1	10	<i>Clymenella torquata</i>	1
10JUL93	LQB	1	10	<i>Listriella clymenellae</i>	1
10JUL93	LQB	1	10	<i>Schistomeringos</i> sp. A	1
10JUL93	LQB	1	10	Paraonidae Grp. A	8
10JUL93	LQB	1	10	Ophiuroidea (unidentified)	1
10JUL93	LQB	1	10	<i>Sphaerosyllis</i> sp. A	2
10JUL93	LQB	1	10	<i>Mediomastus ambiseta</i>	3
10JUL93	LQB	1	10	<i>Synsyllis longigularis</i>	2

					29
10JUL93	LQB	2	3	Rhynchocoel (unidentified)	1
10JUL93	LQB	2	3	Paraonidae Grp. A	4
10JUL93	LQB	2	3	Paraonidae Grp. B	2
10JUL93	LQB	2	3	<i>Sarsiella texana</i>	1
10JUL93	LQB	2	3	<i>Mediomastus ambiseta</i>	12

					20
10JUL93	LQB	2	10	<i>Oligochaetes</i> (unidentified)	3
10JUL93	LQB	2	10	<i>Schistomeringos</i> sp. A	2
10JUL93	LQB	2	10	Paraonidae Grp. A	4
10JUL93	LQB	2	10	Paraonidae Grp. B	2
10JUL93	LQB	2	10	<i>Sphaerosyllis</i> sp. A	1
10JUL93	LQB	2	10	<i>Mediomastus ambiseta</i>	2
10JUL93	LQB	2	10	<i>Synsyllis longigularis</i>	1

					15

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQB	3	3	Oligochaetes (unidentified)	2
10JUL93	LQB	3	3	<i>Tharyx setigera</i>	1
10JUL93	LQB	3	3	<i>Axiothella mucosa</i>	1
10JUL93	LQB	3	3	<i>Clymenella torquata</i>	1
10JUL93	LQB	3	3	<i>Parvilucina multilineata</i>	1
10JUL93	LQB	3	3	<i>Ampelisca verrilli</i>	2
10JUL93	LQB	3	3	<i>Listriella clymenellae</i>	1
10JUL93	LQB	3	3	Paraonidae Grp. A	4
10JUL93	LQB	3	3	<i>Sarsiella texana</i>	2
10JUL93	LQB	3	3	<i>Mediomastus ambiseta</i>	11

					26
10JUL93	LQB	3	10	Rhynchocoel (unidentified)	1
10JUL93	LQB	3	10	Oligochaetes (unidentified)	6
10JUL93	LQB	3	10	<i>Paleanotus heteroseta</i>	2
10JUL93	LQB	3	10	<i>Gyptis vittata</i>	3
10JUL93	LQB	3	10	<i>Glycera americana</i>	1
10JUL93	LQB	3	10	<i>Diopatra cuprea</i>	1
10JUL93	LQB	3	10	<i>Spiophanes bombyx</i>	1
10JUL93	LQB	3	10	<i>Magelona pettiboneae</i>	1
10JUL93	LQB	3	10	<i>Tharyx setigera</i>	3
10JUL93	LQB	3	10	<i>Axiothella mucosa</i>	1
10JUL93	LQB	3	10	<i>Clymenella torquata</i>	4
10JUL93	LQB	3	10	<i>Aligena texasiana</i>	2
10JUL93	LQB	3	10	<i>Listriella clymenellae</i>	3
10JUL93	LQB	3	10	Paraonidae Grp. A	6
10JUL93	LQB	3	10	Paraonidae Grp. B	11
10JUL93	LQB	3	10	<i>Sphaerosyllis</i> sp. A	3
10JUL93	LQB	3	10	<i>Mediomastus ambiseta</i>	2
10JUL93	LQB	3	10	<i>Synsyllis longigularis</i>	9

					60

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQC	1	3	Rhynchocoel (unidentified)	1
10JUL93	LQC	1	3	<i>Paleanotus heteroseta</i>	5
10JUL93	LQC	1	3	<i>Gyptis vittata</i>	2
10JUL93	LQC	1	3	<i>Lumbrineris parvapedata</i>	1
10JUL93	LQC	1	3	<i>Paraprionospio pinnata</i>	1
10JUL93	LQC	1	3	Maldanidae (unidentified)	1
10JUL93	LQC	1	3	<i>Parvilucina multilineata</i>	2
10JUL93	LQC	1	3	<i>Ampelisca verrilli</i>	2
10JUL93	LQC	1	3	Paraonidae Grp. A	2
10JUL93	LQC	1	3	<i>Mediomastus ambiseta</i>	9

					26
10JUL93	LQC	1	10	Oligochaetes (unidentified)	1
10JUL93	LQC	1	10	<i>Paleanotus heteroseta</i>	1
10JUL93	LQC	1	10	<i>Glycera americana</i>	1
10JUL93	LQC	1	10	<i>Magelona pettiboneae</i>	1
10JUL93	LQC	1	10	<i>Melinna maculata</i>	1
10JUL93	LQC	1	10	<i>Aligena texasiana</i>	1
10JUL93	LQC	1	10	Paraonidae Grp. A	1
10JUL93	LQC	1	10	Paraonidae Grp. B	1
10JUL93	LQC	1	10	<i>Mediomastus ambiseta</i>	3

					11
10JUL93	LQC	2	3	Rhynchocoel (unidentified)	2
10JUL93	LQC	2	3	Oligochaetes (unidentified)	1
10JUL93	LQC	2	3	<i>Paleanotus heteroseta</i>	2
10JUL93	LQC	2	3	<i>Onuphis eremita</i>	1
10JUL93	LQC	2	3	<i>Magelona phyllisae</i>	1
10JUL93	LQC	2	3	<i>Megalomma bioculatum</i>	1
10JUL93	LQC	2	3	<i>Ampelisca verrilli</i>	1
10JUL93	LQC	2	3	Paraonidae Grp. B	1
10JUL93	LQC	2	3	Ophiuroidea (unidentified)	1
10JUL93	LQC	2	3	<i>Sphaerosyllis</i> sp. A	2
10JUL93	LQC	2	3	Turbellaria (unidentified)	1
10JUL93	LQC	2	3	<i>Mediomastus ambiseta</i>	14
10JUL93	LQC	2	3	<i>Euclymene</i> sp. B	2

					30

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQC	2	10	Rhynchocoel (unidentified)	2
10JUL93	LQC	2	10	Oligochaetes (unidentified)	6
10JUL93	LQC	2	10	<i>Paleanotus heteroseta</i>	6
10JUL93	LQC	2	10	<i>Sigambra bassi</i>	1
10JUL93	LQC	2	10	<i>Gyptis vittata</i>	4
10JUL93	LQC	2	10	<i>Tharyx setigera</i>	3
10JUL93	LQC	2	10	<i>Clymenella torquata</i>	1
10JUL93	LQC	2	10	<i>Aligena texasiana</i>	1
10JUL93	LQC	2	10	<i>Listriella clymenellae</i>	1
10JUL93	LQC	2	10	<i>Schistomeringos</i> sp. A	4
10JUL93	LQC	2	10	Paraonidae Grp. B	18
10JUL93	LQC	2	10	<i>Mediomastus ambiseta</i>	5
10JUL93	LQC	2	10	<i>Euclymene</i> sp. B	2

					54
10JUL93	LQC	3	3	Rhynchocoel (unidentified)	3
10JUL93	LQC	3	3	<i>Spiophanes bombyx</i>	2
10JUL93	LQC	3	3	<i>Listriella clymenellae</i>	1
10JUL93	LQC	3	3	<i>Phascolion strombi</i>	1
10JUL93	LQC	3	3	<i>Phoronis architecta</i>	1
10JUL93	LQC	3	3	<i>Sphaerosyllis</i> sp. A	2
10JUL93	LQC	3	3	<i>Laeonereis culveri</i>	1
10JUL93	LQC	3	3	Turbellaria (unidentified)	1
10JUL93	LQC	3	3	<i>Mediomastus ambiseta</i>	6
10JUL93	LQC	3	3	<i>Euclymene</i> sp. B	2

					20

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	LQC	3	10	Rhynchocoel (unidentified)	1
10JUL93	LQC	3	10	Oligochaetes (unidentified)	1
10JUL93	LQC	3	10	<i>Gyptis vittata</i>	1
10JUL93	LQC	3	10	<i>Onuphis eremita</i>	1
10JUL93	LQC	3	10	<i>Lumbrineris parvapedata</i>	1
10JUL93	LQC	3	10	<i>Paraprionospio pinnata</i>	1
10JUL93	LQC	3	10	<i>Tharyx setigera</i>	1
10JUL93	LQC	3	10	<i>Clymenella torquata</i>	1
10JUL93	LQC	3	10	<i>Listriella clymenellae</i>	1
10JUL93	LQC	3	10	Paraonidae Grp. A	1
10JUL93	LQC	3	10	Paraonidae Grp. B	2
10JUL93	LQC	3	10	<i>Asychis elongata</i>	1
10JUL93	LQC	3	10	<i>Naineris</i> sp. A	1
10JUL93	LQC	3	10	<i>Mediomastus ambiseta</i>	3

					17
10JUL93	NCC	1	3	Oligochaetes (unidentified)	1
10JUL93	NCC	1	3	<i>Gyptis vittata</i>	1
10JUL93	NCC	1	3	<i>Glycinde solitaria</i>	1
10JUL93	NCC	1	3	<i>Lumbrineris parvapedata</i>	1
10JUL93	NCC	1	3	<i>Paraprionospio pinnata</i>	1
10JUL93	NCC	1	3	<i>Magelona pettiboneae</i>	1
10JUL93	NCC	1	3	<i>Cossura delta</i>	1
10JUL93	NCC	1	3	<i>Branchioasychis americana</i>	1
10JUL93	NCC	1	3	<i>Cyclaspis varians</i>	1

					9

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	NCC	1	10	<i>Lumbrineris parvapedata</i>	2
10JUL93	NCC	1	10	<i>Polydora caulleryi</i>	2
10JUL93	NCC	1	10	<i>Paraprionospio pinnata</i>	1
10JUL93	NCC	1	10	<i>Tharyx setigera</i>	3
10JUL93	NCC	1	10	<i>Cossura delta</i>	3
10JUL93	NCC	1	10	<i>Branchioasychis americana</i>	1
10JUL93	NCC	1	10	<i>Clymenella torquata</i>	1
10JUL93	NCC	1	10	Paraonidae Grp. A	1
10JUL93	NCC	1	10	Ophiuroidea (unidentified)	1
10JUL93	NCC	1	10	<i>Pinnixa</i> sp.	2
10JUL93	NCC	1	10	Turbellaria (unidentified)	1
10JUL93	NCC	1	10	<i>Mediomastus ambiseta</i>	2

					20
10JUL93	NCC	2	3	<i>Glycinde solitaria</i>	1
10JUL93	NCC	2	3	<i>Cossura delta</i>	3
10JUL93	NCC	2	3	<i>Mediomastus ambiseta</i>	3

					7
10JUL93	NCC	2	10	<i>Lumbrineris parvapedata</i>	3
10JUL93	NCC	2	10	<i>Tharyx setigera</i>	2
10JUL93	NCC	2	10	Paraonidae Grp. A	1
10JUL93	NCC	2	10	Paraonidae Grp. B	1
10JUL93	NCC	2	10	<i>Mediomastus ambiseta</i>	1

					8
10JUL93	NCC	3	3	<i>Paleanotus heteroseta</i>	1
10JUL93	NCC	3	3	<i>Gyptis vittata</i>	2
10JUL93	NCC	3	3	<i>Glycinde solitaria</i>	1
10JUL93	NCC	3	3	<i>Lumbrineris parvapedata</i>	1
10JUL93	NCC	3	3	<i>Magelona phyllisae</i>	1
10JUL93	NCC	3	3	<i>Spiochaetopterus costarum</i>	1
10JUL93	NCC	3	3	<i>Mediomastus ambiseta</i>	1

					8

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	NCC	3	10	<i>Paleanotus heteroseta</i>	2
10JUL93	NCC	3	10	<i>Lumbrineris parvapedata</i>	2
10JUL93	NCC	3	10	<i>Tharyx setigera</i>	1
10JUL93	NCC	3	10	<i>Cossura delta</i>	1
10JUL93	NCC	3	10	<i>Mediomastus ambiseta</i>	1

					7
10JUL93	NCD	1	3	<i>Oligochaetes (unidentified)</i>	1
10JUL93	NCD	1	3	<i>Paraprionospio pinnata</i>	1
10JUL93	NCD	1	3	<i>Mediomastus ambiseta</i>	5

					7
10JUL93	NCD	1	10	<i>Oligochaetes (unidentified)</i>	1
10JUL93	NCD	1	10	<i>Apoprionospio pygmaea</i>	6
10JUL93	NCD	1	10	<i>Ophiuroidea (unidentified)</i>	2

					9
10JUL93	NCD	2	3	<i>Oligochaetes (unidentified)</i>	1
10JUL93	NCD	2	3	<i>Glycinde solitaria</i>	1
10JUL93	NCD	2	3	<i>Diopatra cuprea</i>	1
10JUL93	NCD	2	3	<i>Macoma brevifrons</i>	1
10JUL93	NCD	2	3	<i>Ampelisca verrilli</i>	1
10JUL93	NCD	2	3	<i>Mediomastus ambiseta</i>	10

					15
10JUL93	NCD	2	10	<i>Polychaete juv. (unidentified)</i>	1

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	NCD	3	3	<i>Glycinde solitaria</i>	1
10JUL93	NCD	3	3	<i>Diopatra cuprea</i>	1
10JUL93	NCD	3	3	<i>Polydora caulleryi</i>	1
10JUL93	NCD	3	3	<i>Paraprionospio pinnata</i>	1
10JUL93	NCD	3	3	<i>Apoprionospio pygmaea</i>	2
10JUL93	NCD	3	3	<i>Haploscoloplos foliosus</i>	1
10JUL93	NCD	3	3	<i>Acteocina canaliculata</i>	1
10JUL93	NCD	3	3	Ophiuroidea (unidentified)	1
10JUL93	NCD	3	3	<i>Periploma cf. orbiculare</i>	1
10JUL93	NCD	3	3	<i>Mediomastus ambiseta</i>	10

					20
10JUL93	NCD	3	10	<i>Paraprionospio pinnata</i>	1
10JUL93	NCD	3	10	Ophiuroidea (unidentified)	1

					2
10JUL93	NCE	1	3	Anthozoa (unidentified)	1
10JUL93	NCE	1	3	Rhynchocoel (unidentified)	2
10JUL93	NCE	1	3	<i>Gyptis vittata</i>	1
10JUL93	NCE	1	3	<i>Schistomeringos rudolphi</i>	3
10JUL93	NCE	1	3	<i>Paraprionospio pinnata</i>	1
10JUL93	NCE	1	3	<i>Tharyx setigera</i>	1
10JUL93	NCE	1	3	<i>Cossura delta</i>	1
10JUL93	NCE	1	3	<i>Owenia fusiformis</i>	1
10JUL93	NCE	1	3	<i>Listriella clymenellae</i>	6
10JUL93	NCE	1	3	Paraonidae Grp. B	1
10JUL93	NCE	1	3	<i>Sphaerosyllis</i> sp. A	1
10JUL93	NCE	1	3	<i>Mediomastus ambiseta</i>	17
10JUL93	NCE	1	3	<i>Euclymene</i> sp. B	6

					42

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	NCE	1	10	<i>Oligochaetes</i> (unidentified)	2
10JUL93	NCE	1	10	<i>Paleanotus heteroseta</i>	6
10JUL93	NCE	1	10	<i>Gyptis vittata</i>	4
10JUL93	NCE	1	10	<i>Lumbrineris parvapedata</i>	1
10JUL93	NCE	1	10	<i>Paraprionospio pinnata</i>	1
10JUL93	NCE	1	10	<i>Tharyx setigera</i>	8
10JUL93	NCE	1	10	<i>Clymenella torquata</i>	1
10JUL93	NCE	1	10	Maldanidae (unidentified)	1
10JUL93	NCE	1	10	<i>Listriella clymenellae</i>	6
10JUL93	NCE	1	10	Paraonidae Grp. B	1
10JUL93	NCE	1	10	Turbellaria (unidentified)	1
10JUL93	NCE	1	10	<i>Mediomastus ambiseta</i>	4
10JUL93	NCE	1	10	<i>Euclymene</i> sp. B	1

					37
10JUL93	NCE	2	3	Rhynchocoel (unidentified)	1
10JUL93	NCE	2	3	<i>Oligochaetes</i> (unidentified)	2
10JUL93	NCE	2	3	<i>Glycinde solitaria</i>	1
10JUL93	NCE	2	3	<i>Schistomeringos rudolphi</i>	1
10JUL93	NCE	2	3	<i>Polydora caulleryi</i>	1
10JUL93	NCE	2	3	<i>Paraprionospio pinnata</i>	3
10JUL93	NCE	2	3	<i>Apoprionospio pygmaea</i>	1
10JUL93	NCE	2	3	<i>Ampelisca verrilli</i>	1
10JUL93	NCE	2	3	<i>Listriella clymenellae</i>	1
10JUL93	NCE	2	3	Paraonidae Grp. B	1
10JUL93	NCE	2	3	Ophiuroidea (unidentified)	1
10JUL93	NCE	2	3	Ascidacea	1
10JUL93	NCE	2	3	<i>Mediomastus ambiseta</i>	11
10JUL93	NCE	2	3	<i>Euclymene</i> sp. B	2

					28

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	NCE	2	10	Oligochaetes (unidentified)	19
10JUL93	NCE	2	10	<i>Gyptis vittata</i>	4
10JUL93	NCE	2	10	<i>Ceratonereis irritabilis</i>	2
10JUL93	NCE	2	10	<i>Onuphis eremita</i>	1
10JUL93	NCE	2	10	<i>Lumbrineris parvapedata</i>	2
10JUL93	NCE	2	10	<i>Polydora caulleryi</i>	17
10JUL93	NCE	2	10	<i>Spiophanes bombyx</i>	1
10JUL93	NCE	2	10	<i>Tharyx setigera</i>	6
10JUL93	NCE	2	10	<i>Listriella clymenellae</i>	2
10JUL93	NCE	2	10	<i>Phoronis architecta</i>	1
10JUL93	NCE	2	10	Paraonidae Grp. B	3
10JUL93	NCE	2	10	Ophiuroidea (unidentified)	1
10JUL93	NCE	2	10	<i>Periploma cf. orbiculare</i>	1
10JUL93	NCE	2	10	<i>Mediomastus ambiseta</i>	6
10JUL93	NCE	2	10	<i>Euclymene</i> sp. B	1

					67
10JUL93	NCE	3	3	Anthozoa (unidentified)	4
10JUL93	NCE	3	3	Rhynchocoel (unidentified)	1
10JUL93	NCE	3	3	<i>Paleanotus heteroseta</i>	1
10JUL93	NCE	3	3	<i>Gyptis vittata</i>	2
10JUL93	NCE	3	3	<i>Podarke obscura</i>	1
10JUL93	NCE	3	3	<i>Polydora caulleryi</i>	2
10JUL93	NCE	3	3	<i>Listriella clymenellae</i>	2
10JUL93	NCE	3	3	<i>Phoronis architecta</i>	1
10JUL93	NCE	3	3	<i>Listriella barnardi</i>	1
10JUL93	NCE	3	3	Paraonidae Grp. B	1
10JUL93	NCE	3	3	Mollusca (unidentified)	1
10JUL93	NCE	3	3	<i>Mediomastus ambiseta</i>	18
10JUL93	NCE	3	3	<i>Euclymene</i> sp. B	4

					39

Appendix III: La Quinta Channel and Corpus Christi Bay species list. Continued.

Date	STA	REP	SEC	Species	n
10JUL93	NCE	3	10	Rhynchocoel (unidentified)	2
10JUL93	NCE	3	10	Oligochaetes (unidentified)	12
10JUL93	NCE	3	10	<i>Paleanotus heteroseta</i>	9
10JUL93	NCE	3	10	<i>Gyptis vittata</i>	6
10JUL93	NCE	3	10	<i>Ceratonereis irritabilis</i>	3
10JUL93	NCE	3	10	<i>Onuphis eremita</i>	1
10JUL93	NCE	3	10	<i>Lumbrineris parvapedata</i>	1
10JUL93	NCE	3	10	<i>Schistomeringos rudolphi</i>	2
10JUL93	NCE	3	10	<i>Polydora caulleryi</i>	5
10JUL93	NCE	3	10	<i>Tharyx setigera</i>	10
10JUL93	NCE	3	10	<i>Haploscoloplos foliosus</i>	3
10JUL93	NCE	3	10	<i>Cossura delta</i>	1
10JUL93	NCE	3	10	<i>Clymenella torquata</i>	3
10JUL93	NCE	3	10	<i>Listriella clymenellae</i>	3
10JUL93	NCE	3	10	Paraonidae Grp. B	7
10JUL93	NCE	3	10	<i>Pinnixa</i> sp.	1
10JUL93	NCE	3	10	Brachyuran zoea	1
10JUL93	NCE	3	10	<i>Mediomastus ambiseta</i>	2
10JUL93	NCE	3	10	<i>Euclymene</i> sp. B	2

					74

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list.

Total number (n) of individuals and dry biomass weight (mg) of each group. Listed according to date, station (STA), replicate number (REP), and section (SEC).

Date	STA	REP	SEC	Taxa	n	mg
09OCT92	LQA	1	3	Crustacea	1	0.17
09OCT92	LQA	1	3	Rhynchocoela	2	0.04
09OCT92	LQA	1	3	Ophiuroidea	1	0.03
09OCT92	LQA	1	3	Polychaeta	47	3.46
					-----	-----
					51	3.70
09OCT92	LQA	1	10	Crustacea	1	0.07
09OCT92	LQA	1	10	Rhynchocoela	1	0.04
09OCT92	LQA	1	10	Polychaeta	59	20.83
					-----	-----
					61	20.94
09OCT92	LQA	2	3	Ophiuroidea	1	0.04
09OCT92	LQA	2	3	Polychaeta	42	5.29
					-----	-----
					43	5.33
09OCT92	LQA	2	10	Hemicordata	1	0.86
09OCT92	LQA	2	10	Polychaeta	14	6.42
					-----	-----
					15	7.28
09OCT92	LQA	3	3	Crustacea	2	0.13
09OCT92	LQA	3	3	Rhynchocoela	1	0.17
09OCT92	LQA	3	3	Other	1	0.02
09OCT92	LQA	3	3	Polychaeta	20	0.99
					-----	-----
					24	1.31
09OCT92	LQA	3	10	Rhynchocoela	1	0.28
09OCT92	LQA	3	10	Polychaeta	21	6.57
09OCT92	LQA	3	10	Sipunculida	1	0.40
					-----	-----
					23	7.25

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09OCT92	LQB	1	3	Crustacea	1	0.07
09OCT92	LQB	1	3	Rhynchocoela	1	0.12
09OCT92	LQB	1	3	Polychaeta	26	1.28
					-----	-----
					28	1.47
09OCT92	LQB	1	10	Mollusca	1	0.41
09OCT92	LQB	1	10	Rhynchocoela	2	0.37
09OCT92	LQB	1	10	Polychaeta	30	6.72
					-----	-----
					33	7.50
09OCT92	LQB	2	3	Crustacea	1	0.09
09OCT92	LQB	2	3	Polychaeta	18	0.85
					-----	-----
					19	0.94
09OCT92	LQB	2	10	Polychaeta	12	7.19
09OCT92	LQB	3	3	Mollusca	1	4.26
09OCT92	LQB	3	3	Ophiuroidea	2	0.09
09OCT92	LQB	3	3	Polychaeta	22	1.34
					-----	-----
					25	5.69
09OCT92	LQB	3	10	Polychaeta	18	3.82
09OCT92	LQC	1	3	Crustacea	4	0.63
09OCT92	LQC	1	3	Mollusca	1	3.95
09OCT92	LQC	1	3	Rhynchocoela	1	0.17
09OCT92	LQC	1	3	Ophiuroidea	1	0.03
09OCT92	LQC	1	3	Polychaeta	48	6.09
					-----	-----
					55	10.87
09OCT92	LQC	1	10	Mollusca	3	1.07
09OCT92	LQC	1	10	Rhynchocoela	4	0.08
09OCT92	LQC	1	10	Polychaeta	25	4.14
					-----	-----
					32	5.29

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09OCT92	LQC	2	3	Crustacea	1	0.03
09OCT92	LQC	2	3	Mollusca	4	0.25
09OCT92	LQC	2	3	Rhynchocoela	2	0.25
09OCT92	LQC	2	3	Polychaeta	44	1.81
					-----	-----
					51	2.34
09OCT92	LQC	2	10	Rhynchocoela	1	0.97
09OCT92	LQC	2	10	Polychaeta	12	4.26
					-----	-----
					13	5.23
09OCT92	LQC	3	3	Crustacea	4	0.11
09OCT92	LQC	3	3	Mollusca	4	0.52
09OCT92	LQC	3	3	Rhynchocoela	2	0.54
09OCT92	LQC	3	3	Polychaeta	50	1.84
					-----	-----
					60	3.01
09OCT92	LQC	3	10	Rhynchocoela	1	0.25
09OCT92	LQC	3	10	Polychaeta	16	3.83
					-----	-----
					17	4.08
09OCT92	NCC	1	3	Crustacea	6	0.12
09OCT92	NCC	1	3	Mollusca	2	8.33
09OCT92	NCC	1	3	Rhynchocoela	1	0.13
09OCT92	NCC	1	3	Ophiuroidea	2	0.20
09OCT92	NCC	1	3	Polychaeta	138	3.16
					-----	-----
					149	11.94
09OCT92	NCC	1	10	Crustacea	2	0.10
09OCT92	NCC	1	10	Rhynchocoela	2	6.72
09OCT92	NCC	1	10	Ophiuroidea	1	1.99
09OCT92	NCC	1	10	Polychaeta	18	5.73
					-----	-----
					23	14.54

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09OCT92	NCC	2	3	Crustacea	4	0.20
09OCT92	NCC	2	3	Mollusca	2	4.96
09OCT92	NCC	2	3	Rhynchocoela	1	0.04
09OCT92	NCC	2	3	Other	2	0.08
09OCT92	NCC	2	3	Ophiuroidea	1	2.04
09OCT92	NCC	2	3	Polychaeta	104	2.10
09OCT92	NCC	2	3	Sipunculida	1	1.96
					-----	-----
					115	11.38
09OCT92	NCC	2	10	Crustacea	1	0.06
09OCT92	NCC	2	10	Rhynchocoela	1	0.34
09OCT92	NCC	2	10	Polychaeta	19	6.24
					-----	-----
					21	6.64
09OCT92	NCC	3	3	Crustacea	2	0.05
09OCT92	NCC	3	3	Mollusca	3	11.05
09OCT92	NCC	3	3	Rhynchocoela	1	0.13
09OCT92	NCC	3	3	Ophiuroidea	1	0.03
09OCT92	NCC	3	3	Polychaeta	142	3.82
					-----	-----
					149	15.08
09OCT92	NCC	3	10	Rhynchocoela	2	0.34
09OCT92	NCC	3	10	Polychaeta	18	8.53
					-----	-----
					20	8.87
09OCT92	NCD	1	3	Mollusca	4	0.17
09OCT92	NCD	1	3	Polychaeta	93	2.84
					-----	-----
					97	3.01
09OCT92	NCD	1	10	Crustacea	2	0.07
09OCT92	NCD	1	10	Polychaeta	93	7.59
					-----	-----
					95	7.66

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09OCT92	NCD	2	3	Mollusca	4	0.10
09OCT92	NCD	2	3	Rhynchocoela	1	0.07
09OCT92	NCD	2	3	Polychaeta	162	6.16
					----	-----
					167	6.33
09OCT92	NCD	2	10	Polychaeta	25	4.12
09OCT92	NCD	3	3	Crustacea	1	0.12
09OCT92	NCD	3	3	Mollusca	4	0.12
09OCT92	NCD	3	3	Rhynchocoela	1	0.08
09OCT92	NCD	3	3	Polychaeta	97	2.46
					----	-----
					103	2.78
09OCT92	NCD	3	10	Crustacea	2	0.12
09OCT92	NCD	3	10	Polychaeta	101	7.20
					----	-----
					103	7.32
09OCT92	NCE	1	3	Crustacea	1	0.04
09OCT92	NCE	1	3	Mollusca	3	0.11
09OCT92	NCE	1	3	Polychaeta	28	9.38
					----	-----
					32	9.53
09OCT92	NCE	1	10	Crustacea	1	0.09
09OCT92	NCE	1	10	Rhynchocoela	2	8.51
09OCT92	NCE	1	10	Other	2	0.31
09OCT92	NCE	1	10	Polychaeta	29	19.32
					----	-----
					34	28.23
09OCT92	NCE	2	3	Crustacea	2	0.02
09OCT92	NCE	2	3	Rhynchocoela	1	0.08
09OCT92	NCE	2	3	Polychaeta	16	2.96
					----	-----
					19	3.06

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09OCT92	NCE	2	10	Crustacea	2	0.90
09OCT92	NCE	2	10	Rhynchocoela	1	1.46
09OCT92	NCE	2	10	Other	1	0.43
09OCT92	NCE	2	10	Polychaeta	7	27.56
					----	-----
					11	30.35
09OCT92	NCE	3	3	Crustacea	4	0.09
09OCT92	NCE	3	3	Mollusca	3	1.93
09OCT92	NCE	3	3	Ophiuroidea	1	0.01
09OCT92	NCE	3	3	Polychaeta	56	8.46
					----	-----
					64	10.49
09OCT92	NCE	3	10	Crustacea	2	0.19
09OCT92	NCE	3	10	Ophiuroidea	1	11.20
09OCT92	NCE	3	10	Polychaeta	24	13.30
					----	-----
					27	24.69
15JAN93	LQA	1	3	Crustacea	2	0.03
15JAN93	LQA	1	3	Mollusca	6	1.20
15JAN93	LQA	1	3	Rhynchocoela	1	0.03
15JAN93	LQA	1	3	Polychaeta	70	14.72
					----	-----
					79	15.98
15JAN93	LQA	1	10	Mollusca	2	0.09
15JAN93	LQA	1	10	Rhynchocoela	2	0.26
15JAN93	LQA	1	10	Polychaeta	33	28.66
					----	-----
					37	29.01
15JAN93	LQA	2	3	Crustacea	1	0.18
15JAN93	LQA	2	3	Mollusca	4	0.13
15JAN93	LQA	2	3	Rhynchocoela	1	0.13
15JAN93	LQA	2	3	Polychaeta	41	18.60
					----	-----
					47	19.04

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
15JAN93	LQA	2	10	Mollusca	2	0.17
15JAN93	LQA	2	10	Other	1	0.16
15JAN93	LQA	2	10	Polychaeta	62	44.98
					----	-----
					65	45.31
15JAN93	LQA	3	3	Mollusca	1	0.04
15JAN93	LQA	3	3	Rhynchocoela	3	3.21
15JAN93	LQA	3	3	Ophiuroidea	1	0.04
15JAN93	LQA	3	3	Polychaeta	33	19.93
					----	-----
					38	23.22
15JAN93	LQA	3	10	Crustacea	1	0.05
15JAN93	LQA	3	10	Rhynchocoela	3	4.03
15JAN93	LQA	3	10	Polychaeta	37	50.10
					----	-----
					41	54.18
15JAN93	LQB	1	3	Crustacea	1	0.24
15JAN93	LQB	1	3	Mollusca	8	1.24
15JAN93	LQB	1	3	Rhynchocoela	2	0.25
15JAN93	LQB	1	3	Other	9	15.14
15JAN93	LQB	1	3	Polychaeta	53	10.33
					----	-----
					73	27.20
15JAN93	LQB	1	10	Mollusca	4	0.36
15JAN93	LQB	1	10	Polychaeta	29	16.76
					----	-----
					33	17.12
15JAN93	LQB	2	3	Crustacea	1	0.11
15JAN93	LQB	2	3	Mollusca	3	0.09
15JAN93	LQB	2	3	Rhynchocoela	1	0.23
15JAN93	LQB	2	3	Other	61	7.11
15JAN93	LQB	2	3	Polychaeta	26	5.84
					----	-----
					92	13.38

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
15JAN93	LQB	2	10	Rhynchocoela	3	0.32
15JAN93	LQB	2	10	Other	5	0.24
15JAN93	LQB	2	10	Polychaeta	30	27.45
					----	-----
					38	28.01
15JAN93	LQB	3	3	Crustacea	3	0.09
15JAN93	LQB	3	3	Mollusca	4	0.26
15JAN93	LQB	3	3	Other	31	2.65
15JAN93	LQB	3	3	Polychaeta	14	15.84
					----	-----
					52	18.84
15JAN93	LQB	3	10	Other	2	0.04
15JAN93	LQB	3	10	Polychaeta	35	9.97
					----	-----
					37	10.01
15JAN93	LQC	1	3	Crustacea	3	1.17
15JAN93	LQC	1	3	Mollusca	4	11.97
15JAN93	LQC	1	3	Other	2	0.13
15JAN93	LQC	1	3	Ophiuroidea	1	1.88
15JAN93	LQC	1	3	Polychaeta	39	5.61
					----	-----
					49	20.76
15JAN93	LQC	1	10	Mollusca	1	0.20
15JAN93	LQC	1	10	Rhynchocoela	1	0.06
15JAN93	LQC	1	10	Polychaeta	17	18.97
					----	-----
					19	19.23
15JAN93	LQC	2	3	Crustacea	2	0.07
15JAN93	LQC	2	3	Mollusca	5	0.46
15JAN93	LQC	2	3	Rhynchocoela	2	0.08
15JAN93	LQC	2	3	Other	1	0.02
15JAN93	LQC	2	3	Ophiuroidea	1	0.34
15JAN93	LQC	2	3	Polychaeta	38	3.93
					----	-----
					49	4.90

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
15JAN93	LQC	2	10	Crustacea	1	0.92
15JAN93	LQC	2	10	Mollusca	4	0.35
15JAN93	LQC	2	10	Rhynchocoela	2	0.54
15JAN93	LQC	2	10	Other	1	0.33
15JAN93	LQC	2	10	Ophiuroidea	1	0.22
15JAN93	LQC	2	10	Polychaeta	29	30.68
					-----	-----
					38	33.04
15JAN93	LQC	3	3	Crustacea	2	0.06
15JAN93	LQC	3	3	Mollusca	8	1.03
15JAN93	LQC	3	3	Rhynchocoela	2	0.95
15JAN93	LQC	3	3	Other	14	0.75
15JAN93	LQC	3	3	Polychaeta	31	4.44
					-----	-----
					57	7.23
15JAN93	LQC	3	10	Rhynchocoela	1	0.32
15JAN93	LQC	3	10	Other	1	0.24
15JAN93	LQC	3	10	Polychaeta	27	20.05
					-----	-----
					29	20.61
15JAN93	NCC	1	3	Mollusca	5	2.10
15JAN93	NCC	1	3	Rhynchocoela	1	0.06
15JAN93	NCC	1	3	Ophiuroidea	1	0.96
15JAN93	NCC	1	3	Polychaeta	17	1.67
15JAN93	NCC	1	3	Sipunculida	1	0.19
					-----	-----
					25	4.98
15JAN93	NCC	1	10	Mollusca	1	1.47
15JAN93	NCC	1	10	Ophiuroidea	1	25.27
15JAN93	NCC	1	10	Polychaeta	30	19.11
					-----	-----
					32	45.85

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
15JAN93	NCC	2	3	Mollusca	5	1.23
15JAN93	NCC	2	3	Ophiuroidea	2	0.33
15JAN93	NCC	2	3	Polychaeta	24	5.89
					----	-----
					31	7.45
15JAN93	NCC	2	10	Ophiuroidea	1	3.73
15JAN93	NCC	2	10	Polychaeta	5	33.66
					----	-----
					6	37.39
15JAN93	NCC	3	3	Rhynchocoela	1	0.38
15JAN93	NCC	3	3	Ophiuroidea	2	20.88
15JAN93	NCC	3	3	Polychaeta	25	4.93
15JAN93	NCC	3	3	Sipunculida	2	0.70
					----	-----
					30	26.89
15JAN93	NCC	3	10	Rhynchocoela	1	0.12
15JAN93	NCC	3	10	Ophiuroidea	2	65.37
15JAN93	NCC	3	10	Polychaeta	12	38.47
					----	-----
					15	103.96
15JAN93	NCD	1	3	Crustacea	2	0.25
15JAN93	NCD	1	3	Mollusca	4	0.23
15JAN93	NCD	1	3	Rhynchocoela	1	0.25
15JAN93	NCD	1	3	Other	1	1.26
15JAN93	NCD	1	3	Polychaeta	3	2.51
15JAN93	NCD	1	3	Sipunculida	3	0.14
					----	-----
					14	4.64
15JAN93	NCD	1	10	Polychaeta	1	0.01

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
15JAN93	NCD	2	3	Crustacea	9	0.37
15JAN93	NCD	2	3	Mollusca	4	0.15
15JAN93	NCD	2	3	Rhynchocoela	3	0.41
15JAN93	NCD	2	3	Polychaeta	9	1.46
15JAN93	NCD	2	3	Sipunculida	3	0.14
					-----	-----
					28	2.53
15JAN93	NCD	2	10	Polychaeta	1	0.04
15JAN93	NCD	3	3	Crustacea	1	0.01
15JAN93	NCD	3	3	Mollusca	5	0.18
15JAN93	NCD	3	3	Rhynchocoela	3	0.26
15JAN93	NCD	3	3	Other	1	0.21
15JAN93	NCD	3	3	Polychaeta	4	1.46
					-----	-----
					14	2.12
15JAN93	NCD	3	10	Mollusca	1	0.05
15JAN93	NCD	3	10	Polychaeta	3	5.04
					-----	-----
					4	5.09
15JAN93	NCE	1	3	Crustacea	1	0.01
15JAN93	NCE	1	3	Mollusca	5	0.50
15JAN93	NCE	1	3	Rhynchocoela	1	0.31
15JAN93	NCE	1	3	Other	3	1.16
15JAN93	NCE	1	3	Polychaeta	27	2.05
					-----	-----
					37	4.03
15JAN93	NCE	1	10	Ophiuroidea	1	0.96
15JAN93	NCE	1	10	Polychaeta	6	7.58
					-----	-----
					7	8.54

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
15JAN93	NCE	2	3	Mollusca	3	0.07
15JAN93	NCE	2	3	Rhynchocoela	1	0.17
15JAN93	NCE	2	3	Other	2	0.03
15JAN93	NCE	2	3	Ophiuroidea	2	0.17
15JAN93	NCE	2	3	Polychaeta	16	6.70
15JAN93	NCE	2	3	Sipunculida	1	0.04
					----	-----
					25	7.18
15JAN93	NCE	2	10	Other	1	0.62
15JAN93	NCE	2	10	Polychaeta	9	1.13
					----	-----
					10	1.75
15JAN93	NCE	3	3	Crustacea	19	1.71
15JAN93	NCE	3	3	Mollusca	3	0.13
15JAN93	NCE	3	3	Rhynchocoela	3	0.96
15JAN93	NCE	3	3	Other	1	0.04
15JAN93	NCE	3	3	Ophiuroidea	2	1.12
15JAN93	NCE	3	3	Polychaeta	26	4.28
15JAN93	NCE	3	3	Sipunculida	2	0.50
					----	-----
					56	8.74
15JAN93	NCE	3	10	Crustacea	2	0.23
15JAN93	NCE	3	10	Mollusca	1	0.43
15JAN93	NCE	3	10	Rhynchocoela	2	1.80
15JAN93	NCE	3	10	Ophiuroidea	2	1.16
15JAN93	NCE	3	10	Polychaeta	29	49.59
					----	-----
					36	53.21
09APR93	LQA	1	3	Mollusca	1	0.12
09APR93	LQA	1	3	Rhynchocoela	1	0.03
09APR93	LQA	1	3	Other	1	0.16
09APR93	LQA	1	3	Polychaeta	53	20.69
					----	-----
					56	21.00

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09APR93	LQA	1	10	Crustacea	1	0.06
09APR93	LQA	1	10	Mollusca	1	1.01
09APR93	LQA	1	10	Rhynchocoela	1	0.98
09APR93	LQA	1	10	Polychaeta	63	101.09
					-----	-----
					66	103.14
09APR93	LQA	2	3	Crustacea	1	0.04
09APR93	LQA	2	3	Mollusca	3	0.18
09APR93	LQA	2	3	Rhynchocoela	1	0.29
09APR93	LQA	2	3	Other	2	0.38
09APR93	LQA	2	3	Ophiuroidea	1	0.24
09APR93	LQA	2	3	Polychaeta	32	10.07
					-----	-----
					40	11.20
09APR93	LQA	2	10	Other	2	1.06
09APR93	LQA	2	10	Polychaeta	34	75.93
					-----	-----
					36	76.99
09APR93	LQA	3	3	Crustacea	2	0.03
09APR93	LQA	3	3	Mollusca	4	3.93
09APR93	LQA	3	3	Rhynchocoela	2	5.77
09APR93	LQA	3	3	Other	2	0.44
09APR93	LQA	3	3	Polychaeta	51	18.51
					-----	-----
					61	28.68
09APR93	LQA	3	10	Mollusca	1	0.07
09APR93	LQA	3	10	Polychaeta	36	102.77
					-----	-----
					37	102.84
09APR93	LQB	1	3	Crustacea	3	0.03
09APR93	LQB	1	3	Rhynchocoela	2	0.17
09APR93	LQB	1	3	Other	1	0.02
09APR93	LQB	1	3	Polychaeta	41	8.06
09APR93	LQB	1	3	Sipunculida	1	0.05
					-----	-----
					48	8.33

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09APR93	LQB	1	10	Other	1	0.11
09APR93	LQB	1	10	Polychaeta	30	50.11
09APR93	LQB	1	10	Sipunculida	1	0.20
					----	-----
					32	50.42
09APR93	LQB	2	3	Crustacea	1	0.04
09APR93	LQB	2	3	Other	1	0.09
09APR93	LQB	2	3	Polychaeta	47	60.21
					----	-----
					49	60.34
09APR93	LQB	2	10	Crustacea	2	0.28
09APR93	LQB	2	10	Polychaeta	14	20.99
					----	-----
					16	20.07
09APR93	LQB	3	3	Crustacea	3	0.22
09APR93	LQB	3	3	Mollusca	2	0.13
09APR93	LQB	3	3	Other	4	0.52
09APR93	LQB	3	3	Polychaeta	37	8.16
					----	-----
					46	9.03
09APR93	LQB	3	10	Polychaeta	53	36.70
09APR93	LQC	1	3	Crustacea	6	0.02
09APR93	LQC	1	3	Mollusca	8	5.33
09APR93	LQC	1	3	Rhynchocoela	2	0.30
09APR93	LQC	1	3	Other	4	1.28
09APR93	LQC	1	3	Ophiuroidea	1	5.66
09APR93	LQC	1	3	Polychaeta	46	41.15
					----	-----
					67	53.74
09APR93	LQC	1	10	Mollusca	4	0.61
09APR93	LQC	1	10	Other	1	0.05
09APR93	LQC	1	10	Polychaeta	26	18.12
					----	-----
					31	18.78

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09APR93	LQC	2	3	Crustacea	4	0.05
09APR93	LQC	2	3	Hemicordata	1	0.22
09APR93	LQC	2	3	Mollusca	4	0.06
09APR93	LQC	2	3	Ophiuroidea	2	0.07
09APR93	LQC	2	3	Polychaeta	31	10.28
09APR93	LQC	2	3	Sipunculida	1	2.71
					----	-----
					43	13.39
09APR93	LQC	2	10	Crustacea	2	0.08
09APR93	LQC	2	10	Mollusca	11	1.88
09APR93	LQC	2	10	Rhynchocoela	1	0.56
09APR93	LQC	2	10	Polychaeta	39	64.56
					----	-----
					53	67.08
09APR93	LQC	3	3	Crustacea	3	0.40
09APR93	LQC	3	3	Mollusca	5	0.47
09APR93	LQC	3	3	Rhynchocoela	2	15.34
09APR93	LQC	3	3	Polychaeta	40	17.39
					----	-----
					50	33.60
09APR93	LQC	3	10	Mollusca	1	0.06
09APR93	LQC	3	10	Rhynchocoela	1	0.57
09APR93	LQC	3	10	Polychaeta	11	26.82
					----	-----
					13	27.45
09APR93	NCC	1	3	Crustacea	2	0.04
09APR93	NCC	1	3	Mollusca	1	0.34
09APR93	NCC	1	3	Polychaeta	15	4.65
					----	-----
					18	5.03
09APR93	NCC	1	10	Polychaeta	12	11.06

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09APR93	NCC	2	3	Crustacea	2	0.04
09APR93	NCC	2	3	Mollusca	1	0.07
09APR93	NCC	2	3	Rhynchocoela	2	0.28
09APR93	NCC	2	3	Polychaeta	18	7.94
					-----	-----
					23	8.33
09APR93	NCC	2	10	Rhynchocoela	1	3.38
09APR93	NCC	2	10	Polychaeta	9	15.36
					-----	-----
					10	18.74
09APR93	NCC	3	3	Crustacea	2	0.13
09APR93	NCC	3	3	Ophiuroidea	1	0.84
09APR93	NCC	3	3	Polychaeta	21	11.44
					-----	-----
					24	12.41
09APR93	NCC	3	10	Rhynchocoela	1	0.15
09APR93	NCC	3	10	Ophiuroidea	1	57.21
09APR93	NCC	3	10	Polychaeta	10	14.43
					-----	-----
					12	71.79
09APR93	NCD	1	3	Crustacea	1	0.01
09APR93	NCD	1	3	Rhynchocoela	1	0.11
09APR93	NCD	1	3	Polychaeta	47	6.66
09APR93	NCD	1	3	Sipunculida	1	0.13
					-----	-----
					50	6.91
09APR93	NCD	1	10	Polychaeta	5	2.51
09APR93	NCD	2	3	Crustacea	2	0.06
09APR93	NCD	2	3	Mollusca	3	0.18
09APR93	NCD	2	3	Rhynchocoela	1	0.77
09APR93	NCD	2	3	Other	1	8.82
09APR93	NCD	2	3	Polychaeta	45	3.25
					-----	-----
					52	13.08

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09APR93	NCD	2	10	Polychaeta	4	1.96
09APR93	NCD	3	3	Crustacea	5	0.33
09APR93	NCD	3	3	Mollusca	2	0.18
09APR93	NCD	3	3	Polychaeta	91	5.63
					----	-----
					98	6.14
09APR93	NCD	3	10	Polychaeta	4	10.09
09APR93	NCE	1	3	Crustacea	32	1.18
09APR93	NCE	1	3	Mollusca	3	0.38
09APR93	NCE	1	3	Other	1	0.23
09APR93	NCE	1	3	Polychaeta	39	76.95
					----	-----
					75	78.74
09APR93	NCE	1	10	Mollusca	1	0.17
09APR93	NCE	1	10	Polychaeta	19	50.86
					----	-----
					20	51.03
09APR93	NCE	2	3	Crustacea	1	0.02
09APR93	NCE	2	3	Mollusca	2	2.55
09APR93	NCE	2	3	Rhynchocoela	2	0.20
09APR93	NCE	2	3	Ophiuroidea	1	0.68
09APR93	NCE	2	3	Polychaeta	15	12.06
					----	-----
					21	15.51
09APR93	NCE	2	10	Crustacea	1	0.06
09APR93	NCE	2	10	Mollusca	1	0.05
09APR93	NCE	2	10	Other	1	0.10
09APR93	NCE	2	10	Ophiuroidea	1	3.55
09APR93	NCE	2	10	Polychaeta	32	33.30
					----	-----
					36	37.06

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
09APR93	NCE	3	3	Crustacea	1	0.06
09APR93	NCE	3	3	Mollusca	4	4.85
09APR93	NCE	3	3	Rhynchocoela	1	0.34
09APR93	NCE	3	3	Polychaeta	24	23.07
					-----	-----
					30	2832
09APR93	NCE	3	10	Crustacea	2	0.74
09APR93	NCE	3	10	Mollusca	2	0.25
09APR93	NCE	3	10	Rhynchocoela	1	0.23
09APR93	NCE	3	10	Polychaeta	29	31.48
					-----	-----
					34	32.70
10JUL93	LQA	1	3	Crustacea	3	0.13
10JUL93	LQA	1	3	Polychaeta	33	9.03
					-----	-----
					36	9.16
10JUL93	LQA	1	10	Crustacea	1	0.08
10JUL93	LQA	1	10	Mollusca	9	3.16
10JUL93	LQA	1	10	Other	1	17.46
10JUL93	LQA	1	10	Polychaeta	53	69.74
					-----	-----
					64	90.44
10JUL93	LQA	2	3	Crustacea	3	0.17
10JUL93	LQA	2	3	Mollusca	3	1.52
10JUL93	LQA	2	3	Polychaeta	16	4.90
					-----	-----
					22	6.59
10JUL93	LQA	2	10	Crustacea	1	0.02
10JUL93	LQA	2	10	Rhynchocoela	1	0.89
10JUL93	LQA	2	10	Polychaeta	35	77.93
					-----	-----
					37	78.84

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
10JUL93	LQA	3	3	Crustacea	4	0.15
10JUL93	LQA	3	3	Mollusca	1	0.03
10JUL93	LQA	3	3	Polychaeta	11	2.79
					----	-----
					16	2.97
10JUL93	LQA	3	10	Crustacea	5	0.41
10JUL93	LQA	3	10	Mollusca	8	1.36
10JUL93	LQA	3	10	Rhynchocoela	1	0.07
10JUL93	LQA	3	10	Other	3	6.79
10JUL93	LQA	3	10	Polychaeta	64	78.88
					----	-----
					81	87.51
10JUL93	LQB	1	3	Mollusca	1	0.23
10JUL93	LQB	1	3	Other	3	0.78
10JUL93	LQB	1	3	Ophiuroidea	1	1.99
10JUL93	LQB	1	3	Polychaeta	32	6.32
					----	-----
					37	9.32
10JUL93	LQB	1	10	Crustacea	1	0.02
10JUL93	LQB	1	10	Ophiuroidea	1	9.07
10JUL93	LQB	1	10	Polychaeta	27	14.95
					----	-----
					29	24.04
10JUL93	LQB	2	3	Crustacea	1	0.09
10JUL93	LQB	2	3	Rhynchocoela	1	0.03
10JUL93	LQB	2	3	Polychaeta	18	4.23
					----	-----
					20	4.35
10JUL93	LQB	2	10	Polychaeta	15	1.77
10JUL93	LQB	3	3	Crustacea	5	0.15
10JUL93	LQB	3	3	Mollusca	1	0.10
10JUL93	LQB	3	3	Polychaeta	20	4.59
					----	-----
					26	4.84

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
10JUL93	LQB	3	10	Crustacea	3	0.22
10JUL93	LQB	3	10	Mollusca	2	0.16
10JUL93	LQB	3	10	Rhynchocoela	1	0.29
10JUL93	LQB	3	10	Polychaeta	54	89.75
					----	-----
					60	90.42
10JUL93	LQC	1	3	Crustacea	2	0.10
10JUL93	LQC	1	3	Mollusca	2	0.15
10JUL93	LQC	1	3	Rhynchocoela	1	0.33
10JUL93	LQC	1	3	Polychaeta	21	3.55
					----	-----
					26	4.13
10JUL93	LQC	1	10	Mollusca	1	0.07
10JUL93	LQC	1	10	Polychaeta	10	25.02
					----	-----
					11	25.09
10JUL93	LQC	2	3	Crustacea	1	0.04
10JUL93	LQC	2	3	Rhynchocoela	2	0.52
10JUL93	LQC	2	3	Other	1	0.06
10JUL93	LQC	2	3	Ophiuroidea	1	0.06
10JUL93	LQC	2	3	Polychaeta	25	5.90
					----	-----
					30	6.58
10JUL93	LQC	2	10	Crustacea	1	0.12
10JUL93	LQC	2	10	Mollusca	1	0.03
10JUL93	LQC	2	10	Rhynchocoela	2	0.53
10JUL93	LQC	2	10	Polychaeta	50	8.18
					----	-----
					54	8.86
10JUL93	LQC	3	3	Crustacea	1	0.02
10JUL93	LQC	3	3	Rhynchocoela	3	1.92
10JUL93	LQC	3	3	Other	2	0.03
10JUL93	LQC	3	3	Polychaeta	13	8.55
10JUL93	LQC	3	3	Sipunculida	1	0.33
					----	-----
					20	10.85

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
10JUL93	LQC	3	10	Crustacea	1	0.02
10JUL93	LQC	3	10	Rhynchocoela	1	0.17
10JUL93	LQC	3	10	Polychaeta	15	31.10
					----	-----
					17	31.29
10JUL93	NCC	1	3	Crustacea	1	0.03
10JUL93	NCC	1	3	Polychaeta	8	6.56
					----	-----
					9	6.59
10JUL93	NCC	1	10	Crustacea	2	0.48
10JUL93	NCC	1	10	Other	1	0.09
10JUL93	NCC	1	10	Ophiuroidea	1	1.69
10JUL93	NCC	1	10	Polychaeta	16	40.41
					----	-----
					20	42.67
10JUL93	NCC	2	3	Polychaeta	7	2.77
10JUL93	NCC	2	10	Polychaeta	8	16.59
10JUL93	NCC	3	3	Polychaeta	8	1.42
10JUL93	NCC	3	10	Polychaeta	7	5.83
10JUL93	NCD	1	3	Polychaeta	7	0.30
10JUL93	NCD	1	10	Ophiuroidea	2	10.41
10JUL93	NCD	1	10	Polychaeta	7	0.29
					----	-----
					9	10.70
10JUL93	NCD	2	3	Crustacea	1	0.11
10JUL93	NCD	2	3	Mollusca	1	1.55
10JUL93	NCD	2	3	Polychaeta	13	0.35
					----	-----
					15	2.01
10JUL93	NCD	2	10	Polychaeta	1	0.20

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
10JUL93	NCD	3	3	Mollusca	2	0.14
10JUL93	NCD	3	3	Ophiuroidea	1	0.61
10JUL93	NCD	3	3	Polychaeta	17	1.01
					----	-----
					20	1.76
10JUL93	NCD	3	10	Ophiuroidea	1	0.41
10JUL93	NCD	3	10	Polychaeta	1	1.19
					----	-----
					2	1.60
10JUL93	NCE	1	3	Crustacea	6	0.28
10JUL93	NCE	1	3	Rhynchocoela	2	0.51
10JUL93	NCE	1	3	Other	1	0.52
10JUL93	NCE	1	3	Polychaeta	33	17.17
					----	-----
					42	18.48
10JUL93	NCE	1	10	Crustacea	6	0.22
10JUL93	NCE	1	10	Other	1	0.06
10JUL93	NCE	1	10	Polychaeta	30	48.20
					----	-----
					37	48.48
10JUL93	NCE	2	3	Crustacea	2	0.04
10JUL93	NCE	2	3	Rhynchocoela	1	0.17
10JUL93	NCE	2	3	Other	1	0.09
10JUL93	NCE	2	3	Ophiuroidea	1	0.14
10JUL93	NCE	2	3	Polychaeta	23	9.90
					----	-----
					28	10.34
10JUL93	NCE	2	10	Crustacea	2	0.08
10JUL93	NCE	2	10	Mollusca	1	0.03
10JUL93	NCE	2	10	Other	1	0.51
10JUL93	NCE	2	10	Ophiuroidea	1	13.77
10JUL93	NCE	2	10	Polychaeta	62	35.01
					----	-----
					67	49.40

Appendix IV: La Quinta Channel and Corpus Christi Bay biomass list. Continued.

Date	STA	REP	SEC	Taxa	n	mg
10JUL93	NCE	3	3	Crustacea	3	0.46
10JUL93	NCE	3	3	Mollusca	1	0.03
10JUL93	NCE	3	3	Rhynchocoela	1	0.27
10JUL93	NCE	3	3	Other	5	0.39
10JUL93	NCE	3	3	Polychaeta	29	27.13
					-----	-----
					39	28.28
10JUL93	NCE	3	10	Crustacea	5	0.59
10JUL93	NCE	3	10	Rhynchocoela	2	0.45
10JUL93	NCE	3	10	Polychaeta	67	76.80
					-----	-----
					74	77.84