SAMPLING AT SEA

During the period 1 July 1981 to 30 June 1982, Project personnel conducted or participated in 108 cruises involving 432 man/days. These cruises are described below:

Quarterly trawls in San Pedro Bay and off Orange County. VAN TUNA July 1, 1981

Water samples for measurements of toxicity off Palos Verdes and in Santa Monica Bay. MARINE SURVEYOR July 6, 1981

Take trawls and Van Veen grabs off White Point. July 8, 1981

MARINE SURVEYOR

Search for current meters off White Point

July 13, 1981 SEAS DEE

Examine for trace metals off Catalina Island

July 17, 1981 THUNDERBIRD

Planktonic foodweb survey off Santa Monica.

MARINE SURVEYOR

July 23, 1981

Service current meters off White Point.

SEA S DEE

July 23, 1981

Underwater 35mm photos and bio-dredge off Santa Monica.

MARINE SURVEYOR

July 24, 1981

Service current meters off Orange County.

ENCHANTER IV

July 27, 1981

Underwater 35mm photos off Santa Monica

MARINE SURVEYOR

August 3, 1981

Locate Hyperion sampling stations using LORAN C off Santa Monica. MARINE SURVEYOR

August 5, 1981

Water samples for measurement of toxicity off Palos Verdes and Santa Monica. MARINE SURVEYOR August 10, 1981

Underwater 35mm photos off Santa Monica.

MARINE SURVEYOR

August 17, 1981

Quarterly trawls in San Pedro Channel.

SEA S DEE

August 17, 19, & 20, 1981

Underwater 35mm photos off Santa Monica.

MARINE SURVEYOR

August 20, 1981

Service current meters off White Point.

SEA S DEE

August 21, 1981

Underwater TV at Station 7.5-6 off Santa Monica.

MARINE SURVEYOR

August 24, 1981

Van Veen grabs and micro-crustacea dredge off White Point.

SEA S DEE

September 1, 1981

Service current meters off Orange County.

ENCHANTER IV

September 3, 1981

Water samples for measurements of toxicity and underwater 35mm photos off Palos Verdes and Santa Monica.

MARINE SURVEYOR

September 14, 1981

Trawls off Cabrillo Beach.

MARINE SURVEYOR

September 16, 1981

Recover trawl equipment off Cabrillo Beach.

Boston Whaler

September 18, 1981

Service current meters off White Point.

SEA S DEE

September 22, 1981

Van Veen grabs and trawls for ROMP program off Santa Monica.

MARINE SURVEYOR

September 23, 24 & 28, 1981

Van Veen grabs and trawls for ROMP program off Orange County.

MARINE SURVEYOR

October 5, 1981

Service current meters off Orange County.

ENCHANTER IV

October 6, 1981

Water samples for measurements of toxicity off Palos Verdes and Santa Monica.

MARINE SURVEYOR

October 7, 1981

Color TV test off White Point. SEA S DEE

October 9, 1981

CSDOC Deep grabs, trawls and fathometer survey off Orange County.

WESTWIND

October 12 thru 15, and 19 thru 22, 1981

Color TV off Santa Monica.

MARINE SURVEYOR

November 12, 1981

Trawl demonstration for city officials off Santa Monica.

MARINE SURVEYOR

November 13, 1981

Search for lost current meters off Orange County.

ENCHANTER IV

November 18, 23 & 24, 1981

Van Veen grab replicates and sludge clam collection off Santa Monica.

MARINE SURVEYOR

November 19, 1981

Water samples for measurements of toxicity off Palos Verde, Santa Monica and in Los

Angeles Harbor.

MARINE SURVEYOR

November 30, 1981

December 1, 1981

Deployment method test and placement of three current meters off Orange County.

ENCHANTER IV

December 8, 1981

Test underwater color TV off Santa Monica.

MARINE SURVEYOR

December 10, 1981

Water samples for measurements of toxicity off Palos Verdes, Santa Monica and in Los

Angeles Harbor.

MARINE SURVEYOR

January 11, 1982

Service current meters off Orange County.

ENCHANTER IV

January 12 thru 15, 1982

Trawls, S. T. D., and water samples off Orange County.

VAN TUNA

January 26 & 27, 1982

Ouarterly trawls off Orange County.

VAN TUNA

January 28, 1982

Replicate trawls (ten) in Malibu area.

MARINE SURVEYOR

February 4 & 5, 1982

Replicate Van Veen grabs off Santa Monica.

MARINE SURVEYOR

February 8, 1982

Installation of current meters off Orange County.

ENCHANTER IV

February 11, 1982

STD and salinity test off Orange County.

SEA WATCH

February 17 & 19, 1982

Quarterly trawls in San Pedro Channel.

SEA S DEE

February 22, 1982

Scorpionfish trawls in Malibu area.

MARINE SURVEYOR

February 24, 1982

Trawls for current meters off Orange County.

VAN TUNA

March 4, 1982

Longline fishing off Orange County.

Dory Boat

March 8 and 9, 1982

Verifying all Hyperion monitoring stations with LORAN C off Santa Monica.

MARINE SURVEYOR

March 10, 19 & 25, 1982

Water samples for measurements of toxicity off Palos Verdes, Santa Monica and in Los Angeles Harbor.

MARINE SURVEYOR

March 22 and 24, 1982

Service current meters off Orange County

ENCHANTER IV

March 22, 1982

Replicate trawls and Van Veen grabs and trawls for ROMP program off Pt. Dume.

SEA S DEE

March 29, 1982 April 1 and 6, 1982

ORCOSAN quarterly trawls off Orange County.

VAN TUNA

April 7, 1982

Van Veen grabs and trawls for ROMP program off San Diego.

MONITOR II

April 13, 14 & 15, 1982

Water samples for measurements of toxicity off Palos Verdes, Santa Monica and in Los Angeles Harbor.

MARINE SURVEYOR

April 19, 1982

Service current meters off Orange County.

ENCHANTER IV

April 23 and 26, 1982

Service sculpin cages off White Point.

SEA S DEE

April 23, 1982

Van Veen grabs and trawls for ROMP program off Santa Monica.

MARINE SURVEYOR

April 28 and 29, 1982

Installation of NOAA current meters off Carlsbad.

WESTWIND

May 6, 1982

Service current meters off Orange County.

ENCHANTER IV

May 17 and 19, 1982

Water samples for measurements of toxicity off Palos Verdes, Santa Monica and in Los Angeles Harbor.

MARINE SURVEYOR

May 17, 1982

Replicate trawls (ten) off Santa Monica.

MARINE SURVEYOR

May 26 and 27, 1982

Color TV of outfall off Orange County.

ENCHANTER IV

June 1, 1982

Van Veen grabs and trawls for ROMP program off Ventura.

MARINE SURVEYOR

June 3 and 4, 1982

Service NOAA current meters off Carlsbad.

WESTWIND

June 8, 1982

Service sculpin cages off White Point.

SEA S DEE

June 8, 1982

Trawls, Van Veen grabs, DO and STD off Orange County.

WESTWIND

June 15, 16 and 18, 1982

Recovery of current meters off Orange County.

WESTWIND

June 17, 1982

Zoo and ichthyo-plankton using Auriga net for bottom and Bongo for near bottom.

WESTWIND

June 21, 22, 23 & 28, 1982