

ANCHORAGE EPA 11111 - 11111
RE: SHORELINE SURVEYS OF THE
EXXON VALDEZ OIL SPILL PWS
DEC 10 1989 AND JAN 21, 1990

White notebook

~~11/11/89~~

Shoreline damage assessment via violation of camp sites
permit enforcement via documented damage by shore crews.



Alaska Department of NATURAL RESOURCES

Permits
SCV 8504

Generally Permitted (Allowed) Activities

AS 38.05
AAC 11

"Generally permitted" activities are uses which are authorized on state land and tideland without the issuance of a formal permit. The person using the land is responsible for making sure the activity is confined to state land or water and they are responsible for acquiring any other permits or authorizations that may be necessary.

The following constitutes the list of generally permitted activities which must be of an occasional or intermittent nature:

- Hiking and backpacking, horse or dog-team travel, cross-country skiing, snow machining, camping and warming fires, and mountain climbing.
- Light plane and helicopter landing and use of boats, rafts, and canoes.
- Hunting, fishing, trapping, temporary fishing and hunting camps for one's own use for 15 days or less, and placement of crab and shrimp pots in accordance with fish and game regulations.
- Harvesting a small number of wild plants for personal use; securing dead and down firewood for cooking or warming fires associated with hiking and camping; harvesting mushrooms, berries and other plant material for personal use as food.
- Non-exclusive recreational or other use that is temporary, 15 days or less and has no noticeable effect on vegetation, drainage, or soil stability and does not involve harassment of wildlife other than lawful hunting, trapping, and fishing.
- Recreational gold panning.

Although the following activities are generally permitted on state land and tideland, a written permit from the appropriate agency is required for surface uses of lands designated as part of the state park system, fish and game sanctuaries, refuges, and critical habitat areas, or areas where use is limited by classification or special use designation:

- Mineral prospecting using pick and shovel; hard rock prospecting by backpacking; gold or other mineral recovery utilizing small hand held or floating suction dredging apparatus.

- Brushing survey lines or trails less than three feet wide where there is no disturbance of the root system and when such trails do not constitute a right-of-way.

- A livestock drive of less than 100 animals.
- Anchoring of mooring buoys or construction of private floats and docks by the upland owner for his own personal noncommercial use on state tide or shore lands.
- Use of vehicles such as 4-wheel drive vehicles, pickups and all-terrain vehicles (wheeled and tracked) off established right-of-way easements.

The state status plat must be consulted to determine if the land is a legislatively designated area or if the land use is limited by classification or a special use designation.

"Special use" is a designation indicating that certain surface uses are prohibited or limited. For instance, even though gathering dead and down timber for personal use is a generally permitted activity, it may be desirable to limit quantities in some easily accessible areas. This can be done by designating the conditions of use. The designation must be published and is effective 90 days after publication. It must also be noted on the status plats. Other actions may serve to restrict operations; for instance, a commercial salvage timber sale would serve to close the area to generally permitted harvest of dead or down material. A classification action could restrain a number of otherwise permitted activities. All such actions must be noted on the status plats.

The use of state land for establishing non-commercial fish camps and hunting camps for 15 days or less without permanent structures is a generally permitted activity. The nature of the structure (i.e., temporary versus permanent) and the term of use is important in determining if a permit is required.

Temporary structures are defined as being readily removable within 48 hours notice. This insures that they are constructed of material that may be burned or destroyed without appreciable loss to the owner or that construction is such that the structure can be disassembled and transported from the site within the 48 hour time frame. Examples of temporary structures are: wall tents or tent platforms with sideboards up to three feet in height with fabric roofs.

If the structures are not temporary or the use extends beyond 15 days at one location, then a permit application should be filed. The Division of Land and Water Management will then determine the impact of the use and the appropriate authorization required.

All activities on state land and tideland shall be conducted in a responsible manner that will minimize disturbance to the land and water resources, and must be in compliance with all applicable federal, state and local laws and regulations.

The State shall be indemnified and held harmless from any and all claims, demands, suits, loss, liability and expense from injury to or death of persons and damage to or loss of property arising out of or in connection with the use of state land or tideland.

Applicable statutes and regulations for reference:

A.S. 38.05.035 -- Powers and duties of the director
11 AAC 96.010-.140 -- Provisions for General Land Use Activity

Additional information may be obtained from the local office of the Division of Land and Water Management, Department of Natural Resources.

Southcentral Regional Office
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3601 "C" Street, Tenth Floor
Anchorage, Alaska
Phone: (907) 762-2202
MAILING ADDRESS:
P.O. Box 7005
Anchorage, Alaska 99510-7005

Mat-Su Area Office
OFFICE LOCATION:
Century Plaza, Suite 202
Mile .5 Knik Road
Wasilla, Alaska
Phone: (907) 376-4595
MAILING ADDRESS:
P.O. Box 874008
Wasilla, Alaska 99687

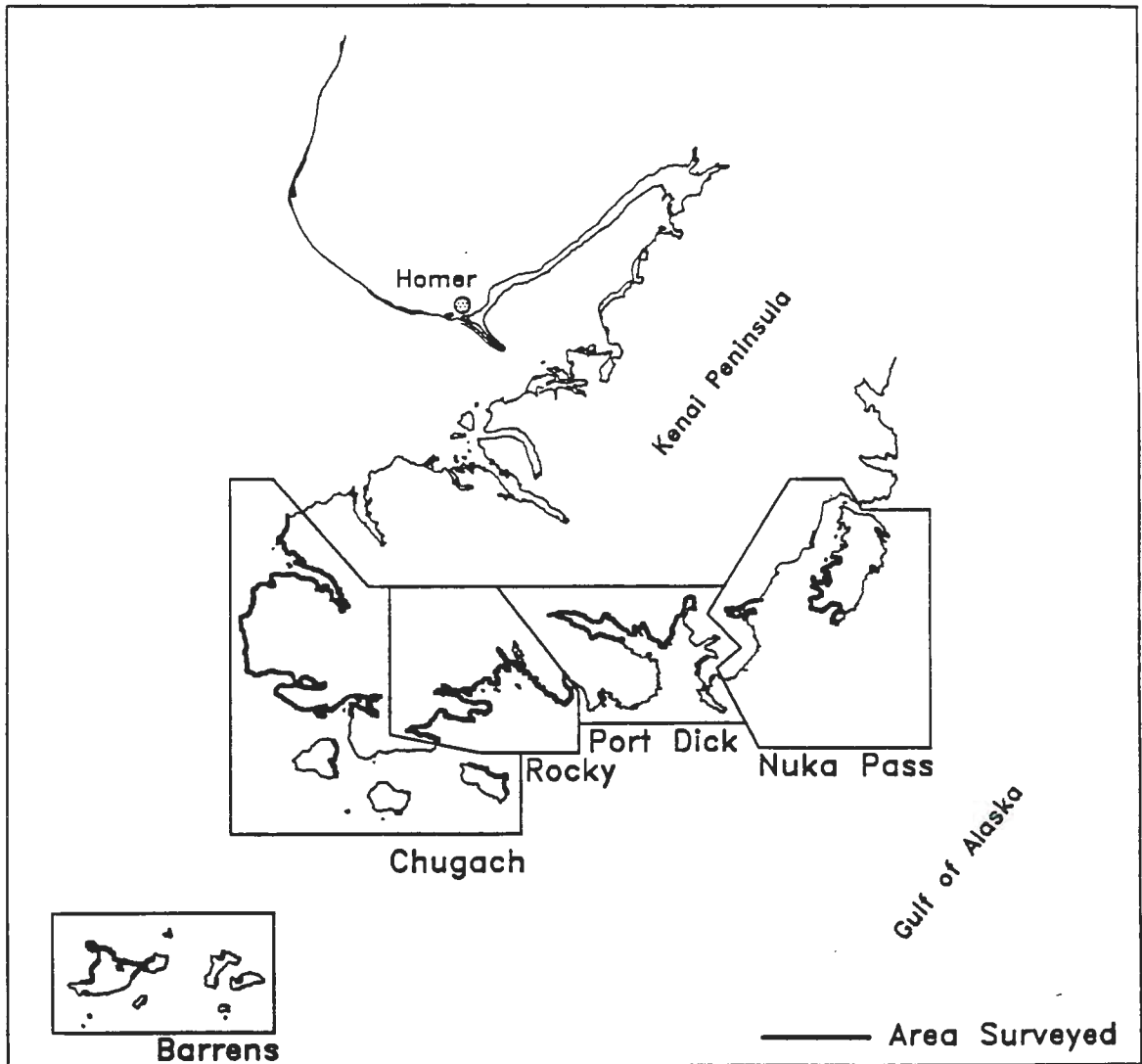
Northern Regional Office
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4420 Airport Way
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Fairbanks, Alaska 99709

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MAILING ADDRESS:
400 Willoughby Avenue, Suite 400
Juneau, Alaska 99801

Parks permitting

Horseshoe Bay Marine Parks

IMPACT MAPS AND SUMMARY REPORTS
OF SHORELINE SURVEYS OF THE
EXXON VALDEZ SPILL SITE
- HOMER AREA -
24 AUGUST - 20 NOVEMBER 1989



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OIL SPILL RESPONSE CENTER

224 Hazelet St.
Valdez, Ak 99686
[907-835-8051]

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[907-235-5322]

21 JANUARY 1990



IMPACT MAPS AND SUMMARY REPORTS
EXXON VALDEZ SPILL SITE - HOMER AREA
24 AUGUST TO 18 NOVEMBER 1989

Prepared by:
Spill Response Staff
Alaska Department of Environmental Conservation
19 January 1990

224 Hazelet Street 509 Sterling Highway
Valdez, Alaska 99686 Homer, Alaska 99603

Introduction

The enclosed maps and data sheets provide a summary of oil concentrations on shorelines within the Homer area after the completion of all major spill treatment in 1989. Oil concentrations and comments concerning the coastal geomorphology are marked on each segment. In the near future, ADEC will be digitizing the results of this survey and providing computer-generated maps. As a note to the user, we have found it extremely useful to hand-color the maps (e.g., heavy=red, moderate=blue, light=green, and very light=yellow) to visually indicate differences in oil levels.

This information is of importance to several different aspects of the Exxon Valdez spill-response effort.

- (1) The maps indicate the condition of Homer shorelines as of September/October 1989 after Exxon-sponsored work crews had ceased cleanup activities.
- (2) The maps also provide an overall view of oil remaining in the Homer area which can assist the extrapolation of results obtained at the limited number of sites studied throughout the winter by various scientific groups.

- (3) The maps clearly define levels of oiling so that attention can be directed to potential problem areas (e.g., sheltered areas having moderate to high oil concentrations) which may need additional treatment during 1990, and away from areas containing little to no remaining oil.

This program was carried out primarily by ground survey utilizing a boat or helicopter for access. Where able, most beaches were walked by a field assessment team consisting of two or three persons. Along unwalkable cliffs and rocky shores, surveys were performed from a helicopter flying at low altitude and slow speed, or from skiffs. For the most part, each field team was provided with a computer-generated map depicting a segment on a single page as well as a summary data form to be filled out. Segment boundaries are those developed during the spill. The scale of the field maps was commonly 1:10,000 or better. The computerized shoreline was derived from digitized 1:63,360 USGS topographic maps.

Field assessment was conducted primarily during low tides. In areas where light to very light oil is found, the team had the option to perform the survey at a mid-tide level since the oil was almost always found along the high-tide swash line. As indicated on the enclosed forms, many of the surveys were performed over several days. The date/time and weather/sea characteristics relate to the last survey performed.

During each survey, the team would mark the following on the field map:

- (1) Oil concentration, where heavy includes a band of surface and/or subsurface oil greater than 6 m wide and having more than 50% coverage within that band, moderate represents an oil band 3 to 6 m wide having at least 10 to 50 percent coverage, light represents a 1 to 3 m band with at least ten percent coverage, and very light is a band less than 1 m wide or a beach having less than 1 percent oil coverage. In cases where only stain was found on the shore, the category was lowered; e.g. a 10 m band of staining was considered as moderate rather than heavy. In general, the heavy category was reserved for areas having fairly significant surface and/or subsurface oiling.
- (2) Depth of oil penetration as determined by digging several pits at each beach.
- (3) Oil thickness on the surface (in mm where 1 represented oil that was equal to or less than 1 mm to avoid difficulties with very thin coatings; layers thicker than 1 mm were estimated in the field). In many cases, direct observation was

not made of oil thickness because the oil was mixed in with sediment. These cases are marked as "no data" on the enclosed forms.

- (4) Type of shoreline (headland, low-lying rocky, beach, cove, lagoon, marsh).
- (5) Sediment type (bedrock, boulder, cobble, gravel, sand, silt).
- (6) Location of photographs or videotapes taken.
- (7) Location of oil or oiled-sediment samples taken.
- (8) The type of oil found: pooled, mousse, sticky, tarry, asphalt or stain. (Pooled = pooled surface oil; Mousse = brown oil-water emulsion; sticky = weathered oil but sticks to one's fingers; tarry = weathered oil but still malleable; asphalt = very weathered oil, pavement-like; stain = very thin oil coating no longer fluid or mobile).
- (9) Location and type of garbage or spill-cleanup equipment remaining in that segment.

On the summary forms, additional information for each segment is recorded concerning:

- (1) Field personnel.
- (2) Survey date and time.
- (3) Survey type: boat, ground, helicopter, and/or floatplane.
- (4) Weather and sea conditions.
- (5) Shoreline types, wave exposure, and sediment types.
- (6) Area of impact on the shore: supratidal, high-intertidal, mid-intertidal, low intertidal, and/or subtidal.
- (7) Maximum oil thickness.
- (8) Maximum oil penetration.
- (9) Approximate percentage of the segment marked as oiled, visually estimated.
- (10) Presence of oily driftwood.
- (11) Presence of obviously damaged seaweed (*Fucus*), either oiled or hot-water treated.
- (12) Presence of oiled, tarred, or stained barnacles.
- (13) Presence of oiled mammals or birds.
- (14) Type and number of localities (one, few, or many) having spill-related debris.

- (15) Number of bags of spill-related debris collected by the survey team and removed from the beach.
- (16) Chain-of-custody numbers given to collected oiled-sediment samples.
- (17) Photograph data concerning photographer, roll and shot number.
- (18) Comments or notes concerning the segment made in the field.

In addition to completing the enclosed form and field map, a detailed sketch of the site showing geomorphic characteristics and oil distribution was made in most cases.

Field Organization

The field and office effort put into this survey was substantial and represented the participation of most of the Homer spill-response staff. The Data Management Group at the Valdez spill center prepared the base maps and final report. The ADEC participants in this effort are listed in Table 1. Their assistance and dedication to seeing this project through to completion is most gratefully acknowledged. In addition, helicopter pilots, Cy Asta, Larry Bryce and Chris Smith, and boat skippers, Nathan Chesser (F/V Sally Jo), Gary Mastolier (M/V Ambit Pi) and Kevin Winfield (M/V Miss Minmar), are thanked for their attention to completing the field work in a safe and efficient manner.

Table 1. List of ADEC personnel involved with this study.

Homer Office

Susan Butler
 Clara Crosby
 John Fenske
 Stephen Ferguson
 David Kenagy
 Russel Kunibe
 Gil Marrick
 Dick McKean
 Carrie McNutt
 Mike Miller
 Charles Mortimer
 Julie Noffke
 Lynn Bittner

Valdez Office

Bob Cannone
 Erich Gundlach
 Linda Haines
 Ward Lane
 Marshal Kendziorek
 Meesha Mangiaracina
 Eugene Pavia
 Roxann Peterson
 Joni Piercy
 Nadeem Siddiqui
 Jim Slocomb
 Larry Smith

Summary of Results

Table 2 presents all segments that contain oiled areas, divided into moderate to heavy and very light to light categories. An analysis of the oiled segments indicates that approximately 12.6 miles of shoreline remain moderate to heavily oil, half of which are found in relatively sheltered, low-wave conditions (Table 3). Based on information from several other oil spills, the sheltered, moderately to heavily oiled areas show the longest persistence of spilled oil. It is, therefore, the intention of ADEC to concentrate on these areas and determine the most efficient methods of treatment to use in 1990. A map indicating the location of all moderate to heavily oiled segments is presented in Figure 1 (the oiled areas are found within the marked segments).

Table 2. (Top) All Homer segments with moderate or heavy oiling.
 (Bottom) Segments with very light to light oiling.

SEGMENT#	LOCATION	SECTION	DEGREE OF OILING
BC002	BOOTLEGGER COVE	ROCKY BAY	L,M,H
CB001	CHUGACH BAY	ROCKY BAY	N,VL,L,M,H
CB003	CHUGACH BAY	ROCKY BAY	N,VL,L,H
CB004	CHUGACH BAY	ROCKY BAY	N,VL,L,H
CI001	CHUGACH ISLAND	CHUGACH ISLANDS	VL,L,M,H
EI001	ELIZABETH ISLAND	CHUGACH ISLANDS	VL,L,M
GP1001	GORE POINT	PORT DICK	N,VL,L,M
GP1002	GORE POINT	PORT DICK	VL,L,M
NK001	NUKA ISLAND	NUKA PASS	N,L,M
NK004A,B,C	NUKA ISLAND	NUKA PASS	VL,L,M,H
OH500	ONE HAUL BAY	PORT DICK	L,H
PD001	PORT DICK	PORT DICK	VL,L,M
PD002	PORT DICK	PORT DICK	VL,L,M
PD004	WEST ARM PORT DICK	PORT DICK	N,VL,M,H
PD005	PORT DICK	PORT DICK	VL,L,M
PD010	WEST ARM PORT DICK	PORT DICK	VL,M
PE001	PERL ISLAND	CHUGACH ISLANDS	L,H
PP001	PETROF POINT	NUKA PASS	VL,L,H
RB001	ROCKY BAY	ROCKY BAY	N,M,H
RB005	ROCKY BAY	ROCKY BAY	VL,L,M,H
TB001	TONSINA BAY	NUKA PASS	L,M,H
TB002A	TONSINA BAY	NUKA PASS	VL,L,M,H
TB002B	TONSINA BAY	NUKA PASS	L,M
TB003	TONSINA BAY	NUKA PASS	VL,L,M,H
TB004	TONSINA BAY	NUKA PASS	VL,L,M,H
TB005	TONSINA BAY	NUKA PASS	VL,H
TB006	TONSINA BAY	NUKA PASS	VL,L,H
US001	USHAGAT ISLAND	BARREN ISLANDS	L,M,H
US002	USHAGAT ISLAND	BARREN ISLANDS	L,M,H
US005	USHAGAT ISLAND	BARREN ISLANDS	N,VL,L,H
US008	USHAGAT ISLAND	BARREN ISLANDS	N,L,M,H
US010	USHAGAT ISLAND	BARREN ISLANDS	L,M,H
WA001	WEST AMATULI	BARREN ISLANDS	M,H
WA002	WEST AMATULI	BARREN ISLANDS	M
WB001	WINDY BAY	ROCKY BAY	VL,L,M
WB002	WINDY BAY	ROCKY BAY	L,M,H
WB003	WINDY BAY	ROCKY BAY	N,VL,L,M
WB006	WINDY BAY	ROCKY BAY	L,M
WB007	WINDY BAY	ROCKY BAY	M
WB009	WINDY BAY	ROCKY BAY	L,M,H

SEGMENT#	LOCATION	SECTION	DEGREE OF OILING
CB002	CHUGACH BAY	ROCKY BAY	N,VL
CS001	CHROME SPIT	CHUGACH ISLANDS	VL
EA001	EAST AMATULI	BARREN ISLANDS	N,VL,L
GP1003	GORE POINT	PORT DICK	N,VL
NK005	NUKA ISLAND	NUKA PASS	VL
PD007	PORT DICK	PORT DICK	N,VL
PD008A	PORT DICK	PORT DICK	N,VL
PD011	PORT DICK	PORT DICK	N,VL
RB003A	ROCKY BAY	ROCKY BAY	N,VL,L
RB004	ROCKY BAY	ROCKY BAY	N,VL,L
US003	USHAGAT ISLAND	BARREN ISLANDS	N,VL,L
WB008	WINDY BAY	ROCKY BAY	VL

H=Heavy M=Moderate L=Light VL=Very Light N=None

Printed: 01/21/90

Table 3. All segments containing moderate or heavy oiling.

SHELTERED AREAS				
Segment #	Location	Heavy mi	mod. mi	total
CB003	CHUGACH BAY	0.50	0.00	0.50
CB004	CHUGACH BAY	0.22	0.00	0.22
NK001	NUKA ISLAND	0.00	0.05	0.05
NK004A,B	NUKA ISLAND	0.03	0.03	0.05
PD001	PORT DICK	0.00	0.10	0.10
PD002	PORT DICK	0.03	0.15	0.18
PD004	WEST ARM PORT DICK	0.15	0.33	0.47
RB005	ROCKY BAY	0.05	0.33	0.38
TB001	TONSINA BAY	0.06	0.07	0.13
TB002A	TONSINA BAY	0.11	0.31	0.42
TB002B	TONSINA BAY	0.00	0.09	0.09
TB003	TONSINA BAY	0.48	0.51	0.98
TB004	TONSINA BAY	0.41	0.73	1.14
TB005	TONSINA BAY	0.26	0.00	0.26
TB006	TONSINA BAY	0.11	0.00	0.11
WB002	WINDY BAY	0.28	0.42	0.70
WB003	WINDY BAY	0.00	0.21	0.21
WB006	WINDY BAY	0.00	0.03	0.03
WB007	WINDY BAY	0.00	0.22	0.22
WB009	WINDY BAY	0.05	0.03	0.09
	TOTAL	2.72	3.59	6.31
UNSHeltered AREAS				
Segment #	Location	Heavy mi	mod. mi	total
BC002	BOOTLEGGER COVE	0.27	0.23	0.50
CB001	CHUGACH BAY	0.02	0.49	0.51
CI001	CHUGACH ISLAND	0.18	0.20	0.38
EI001	ELIZABETH ISLAND	0.00	0.28	0.28
GP1001	GORE POINT	0.00	0.01	0.01
GP1002	GORE POINT	0.00	0.12	0.12
OH500	ONE HAUL BAY-STA 403&404	0.02	0.00	0.02
PD005	PORT DICK	0.00	0.09	0.09
PE001	PERL ISLAND	0.17	0.00	0.17
PP001	PETROF POINT	0.07	0.00	0.07
RB001	ROCKY BAY	0.12	0.10	0.22
US001	USHAGAT ISLAND	0.22	0.09	0.31
US002	USHAGAT ISLAND	0.47	0.17	0.65
US005	USHAGAT ISLAND	0.15	0.00	0.15
US008	USHAGAT ISLAND	0.96	0.24	1.20
US010	USHAGAT ISLAND	0.30	0.22	0.52
WA001	WEST AMATULI	0.12	0.21	0.34
WA002	WEST AMATULI	0.00	0.52	0.52
WB001	WINDY BAY	0.00	0.19	0.19
	TOTAL	3.09	3.17	6.26

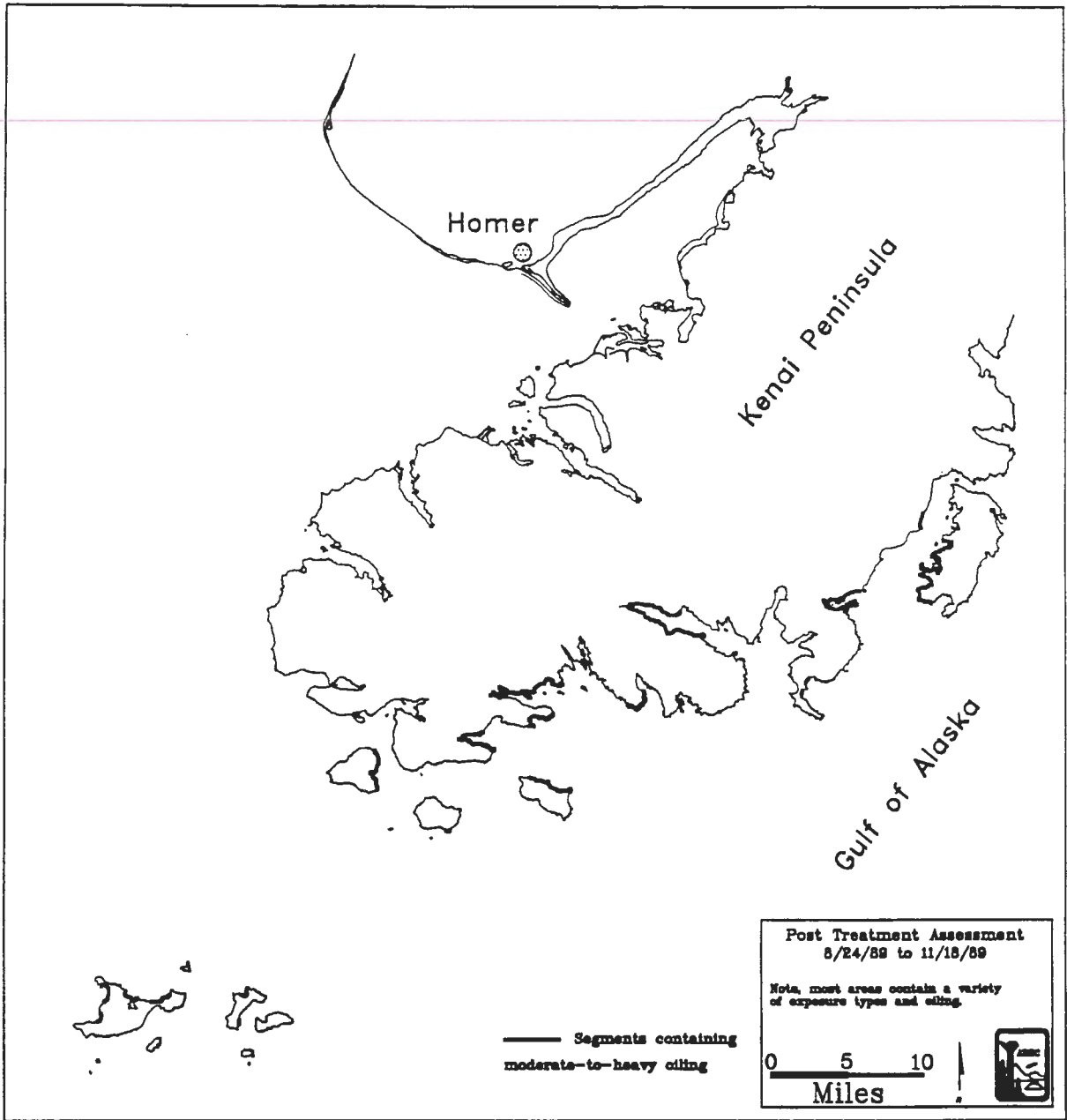
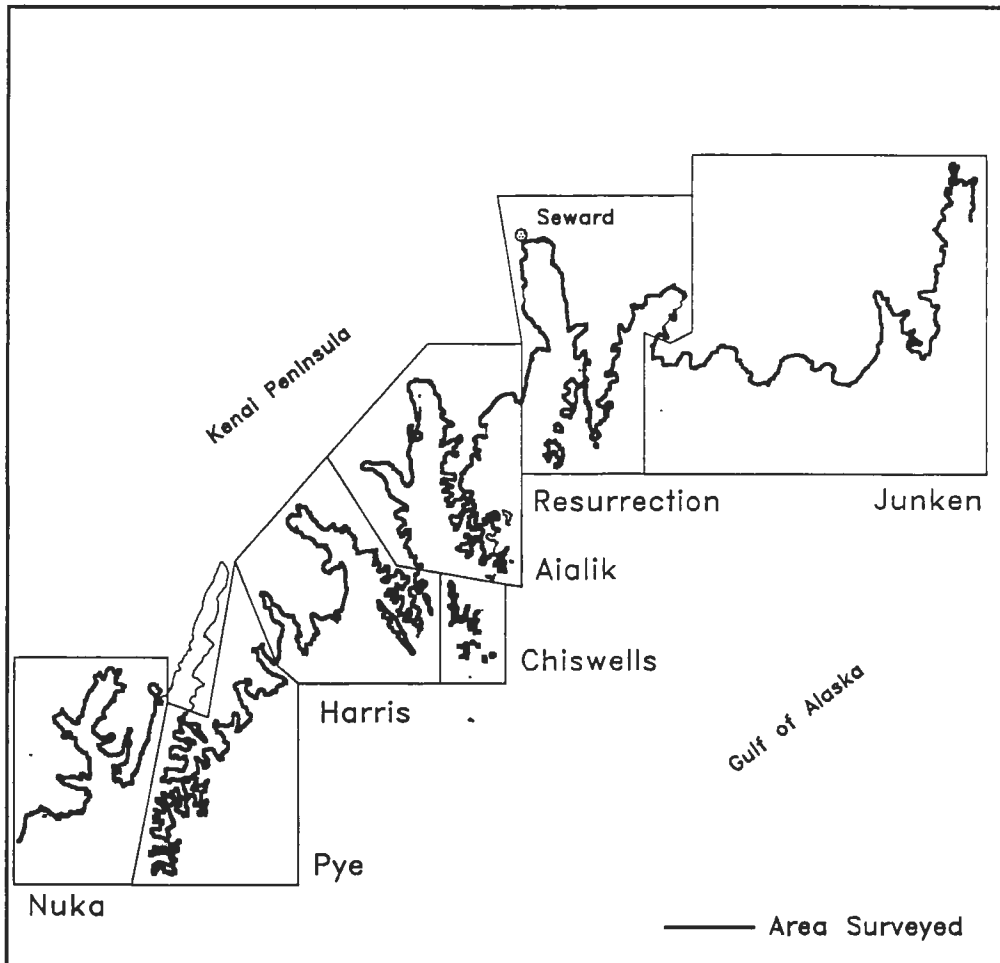


Figure 1. Segments in the Homer Area that contain moderate to heavy oiling (indicated by thick lines). Note that 12.6 miles within the indicated segments are so classified (see Table 3).

IMPACT MAPS AND SUMMARY REPORTS
OF SHORELINE SURVEYS OF THE
EXXON VALDEZ SPILL SITE
- SEWARD AREA -
3 SEPTEMBER - 19 OCTOBER 1989



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OIL SPILL RESPONSE CENTER

224 Hazelet St.
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IMPACT MAPS AND SUMMARY REPORTS
EXXON VALDEZ SPILL SITE - SEWARD AREA
3 SEPTEMBER TO 19 OCTOBER 1989

Prepared by:
Spill Response Staff
Alaska Department of Environmental Conservation
19 January 1990

224 Hazelet Street P.O Box 1689
Valdez, Alaska 99686 Seward, Alaska 99664

Introduction

The enclosed maps and data sheets provide a summary of oil concentrations on shorelines within the Seward area after the completion of all major spill treatment in 1989. Oil concentrations and comments concerning the coastal geomorphology are marked on each segment. In the near future, ADEC will be digitizing the results of this survey and providing computer-generated maps. As a note to the user, we have found it extremely useful to hand-color the maps (e.g., heavy=red, moderate=blue, light=green, and very light=yellow) to visually indicate differences in oil levels.

This information is of importance to several different aspects of the Exxon Valdez spill-response effort.

- (1) The maps indicate the condition of Seward shorelines as of September/October 1989 after Exxon-sponsored work crews had ceased cleanup activities.
- (2) The maps also provide an overall view of oil remaining in the Seward area which can assist the extrapolation of results obtained at the limited sites studied throughout the winter by various scientific groups.

- (3) The maps clearly define levels of oiling so that attention can be directed to potential problem areas (e.g., sheltered areas having moderate to high oil concentrations) which may need additional treatment during 1990, and away from areas containing little to no remaining oil.

This program was carried out primarily by helicopter and ground survey. Where able, most beaches were walked by a field assessment team consisting of two or three persons. Along unwalkable cliffs and rocky shores, surveys were performed from a helicopter flying at low altitude and slow speed. For the most part, each field team was provided with a computer-generated map depicting a segment on a single page as well as a summary data form to be filled out. In a few cases where computer-maps were not available, data were ascribed on nautical charts and later transferred to the maps enclosed in this report. Segment boundaries are those developed during the spill. Where segments were not previously defined, a 500-series designation was used. The scale of the field maps was commonly 1:10,000 or better. The computerized shoreline was derived from digitized 1:63,360 USGS topographic maps.

Field assessment was conducted primarily during low tides. In areas where light to very light oil is found, the team had the option to perform the survey at a mid-tide level since the oil was almost always found along the high-tide swash line.

On the field map, the survey team would mark:

- (1) Oil concentration, where heavy includes a band of surface and/or subsurface oil greater than 6 m wide and having more than 50% coverage within that band, moderate represents an oil band 3 to 6 m wide having at least 10 to 50 percent coverage, light represents a 1 to 3 m band with at least ten percent coverage, and very light is a band less than 1 m wide or a beach having less than 1 percent oil coverage. In cases where only stain was found on the shore, the category was lowered; e.g. a 10 m band of staining was considered as moderate rather than heavy. In general, the heavy category was reserved for areas having fairly significant surface and/or subsurface oiling.
- (2) Depth of oil penetration as determined by digging several pits at each beach. The depth of penetration is not indicated on the form if the segment was analyzed solely from the helicopter.
- (3) Oil thickness on the surface (in mm where 1 represented oil that was equal to

*increase
pits*

or less than 1 mm to avoid difficulties with very thin coatings; layers thicker than 1 mm were estimated in the field). Thickness was not determined if the segment was solely analyzed from the helicopter.

- (4) Type of Shoreline (headland, low-lying rocky, beach, cove, lagoon, marsh).
- (5) Sediment type (gravel, boulder, bedrock, cobble, sand, silt).
- (6) Location of photographs or videotapes taken.
- (7) Location of oil samples taken.
- (8) The type of oil found: mousse, sticky, tarry, asphalt or stain. (Mousse = brown oil-water emulsion; sticky = weathered oil but sticks to one's fingers; tarry = weathered oil but still malleable; asphalt = very weathered oil, pavement-like; stain = very thin oil coating no longer fluid or mobile).
- (9) Location and type of garbage or spill equipment remaining in that segment.

On the summary forms, additional information for each segment is recorded concerning:

- (1) Field personnel.
- (2) Survey date and time.
- (3) Survey type: boat, ground, helicopter, and/or floatplane.
- (4) Weather and sea conditions.
- (5) Shoreline types, exposure, and sediment types.
- (6) Area of impact on the shore: supratidal, high intertidal, mid intertidal, low intertidal, and/or subtidal.
- (7) Maximum oil thickness.
- (8) Maximum oil penetration.
- (9) Approximate percentage of the segment marked as oiled, visually estimated.
- (10) Presence of oily driftwood.
- (11) Presence of obviously damaged seaweed (*Fucus*), either oiled or hot-water treated.
- (12) Presence of oiled, tarred, or stained barnacles.
- (13) Presence of oiled mammals or birds.
- (14) Type and number of localities (one, few, or many) having spill-related debris.
- (15) Number of bags of spill-related debris collected by the survey team and

removed from the beach.

- (16) Chain-of-custody numbers given to collected oiled-sediment samples.
- (17) Photograph data concerning photographer, roll and shot number.
- (18) Comments or notes concerning the segment made in the field.

Field Organization

The field and office effort put into this survey was substantial and represented the participation of most of the Seward spill-response staff. The Data Management Group at the Valdez spill center prepared the base maps and final report. The ADEC participants in this effort are listed in Table 1. Their assistance and dedication to seeing this project through to completion is most gratefully acknowledged. In addition, helicopter pilots, David Pearson and Tim Girard, are thanked for his attention to completing the field work in a safe and efficient manner.

Table 1. List of ADEC personnel involved with this study.

Seward Office

Pam Carpenter
Jill Dale
Angie Gaft
JoAnn Griger
Diana Grimes
Judy Kellogg
Larry (Kurt) Midyett
Doug Lockwood
Julie Noffke
Joseph Ocken
Leslie Pearson
Merle Potter
Chuck Reed
John (Randy) Reed
Cynthia Sheridan
Deborah Walters
Roy Warren

Valdez Office

Bob Cannone
Erich Gundlach
Linda Haines
Ward Lane
Marshal Kendziorek
Meesha Mangiaracina
Roxann Peterson
Joni Piercy
Nadeem Siddiqui
Jim Slocomb
Larry Smith

Summary of Results

Table 2A presents a listing of all segments that contain areas that are moderately to heavily oiled, and Table 2B contains those that are very light to lightly oiled. Most of the remaining oil is within relatively sheltered coves away from direct exposure to

high-wave conditions. Approximately 2.6 miles of shoreline remain moderately to heavily oiled and are located in sheltered areas (Table 3). A map indicating the location of these segments is presented in Figure 1 (the oiled areas are found within the marked segments).

Table 2. (Top) All Seward segments with moderate or heavy oiling.
(Bottom) Segments with very light to light oiling.

SEGMENT#	LOCATION	DEGREE OF OILING
A1003	PONY COVE	N,VL,L,M,H
BM003	BLACK BAY	N,VL,L,M,H
HR005A	NATAO ISLAND	N,VL,L,M,H
HR007C	NATAO ISLAND	N,VL,L,M,H
HR009	HARBOR ISLAND	N,M
MR001	MCCARTHER PASS	N,VL,M
MT001	MATUSHKA IS., W. CENTRAL	N,M
MT003A	MATUSHKA IS., SW END	N,M
MT004A	MATUSHKA IS., EAST. SHORE	N,H
PY001	WILDCAT PASS SE RAGGED IS	N,VL,L,H
PY002	WILDCAT COVE	N,VL,L,M
PY006	HOOF POINT EAST	N,M,H
PY007	NE SIDE OF RAGGED ISLAND	N,L,M,H
PY008	MORNING COVE	N,L,M,H
YG002	YALIK GLACIER BEACH	N,VL,L,M,H

SEGMENT#	LOCATION	DEGREE OF OILING
A1014A	AIALIK CAPE TO PONY COVE	N,VL
BB901	BEAUTY BAY/SHELTER COVE	N,VL
BG001	BEAR GLACIER BEACH	N,VL
BG002	BULLDOG COVE/N BEACH	N,VL,L
BM001	CHANCE COVE	N,VL
BM004	THUNDER BAY	N,VL,L
BM005	TAROKA ARM W. SIDE	N,VL,L
BM006	TAROKA ARM E. SIDE	N,VL
BS504	SW PORT BAINBRIDGE	N,VL
BS505	NE & NW PORT BAINBRIDGE	N,VL
HA001	COVE N OF VERDANT	N,VL
HA002	S VERDANT/N VERDANT	N,VL,L
HR003	HARBOR ISLAND	N,VL
NC001	UNNAMED COVE S-MOONLIGHT	N,VL
PY004	E SHORELINE OUTER ISLAND	N,L
PY005	RAGGED IS UNNAMED C/E WIL	N,VL,L
PY009	NC RABBIT ISLAND	N,VL,L
PY010	SOUTHERN SHORE RAGGED ISL	VL
PY011	SW RAGGED ISLAND	N,VL,L
PY012A	ROARING COVE	N,VL
PY013	COVE N. OF ROARING COVE	N,VL
PY015	N SIDE RAGGED ISLAND	N,VL,L
PY016	OTTER ISLAND	N,L
PY017	SOUTHERN SHORE RABBIT ISL	VL
QB001	QUARTZ BAY	N,VL
RE001	DRIFTWOOD BAY	N,VL
RR504	RENARD OR FOX ISLAND	N,VL
SG500	NORTH ARM OF NUKA BAY	N,VL
YB001	YALIK BAY BEACH	N,VL,L
YB002	YALIK BAY	N,VL
YB005	SC BEACH YALIK BAY	VL
YG004	SHORELINE YALIK G-PETOF P	N,VL,L
YP002	YALIK POINT	N,L
YP004	YALIK PT. NUKA PASSAGE	N,L

N=None VL=Very Light L=Light M=Moderate H=High

Printed: 01/17/90

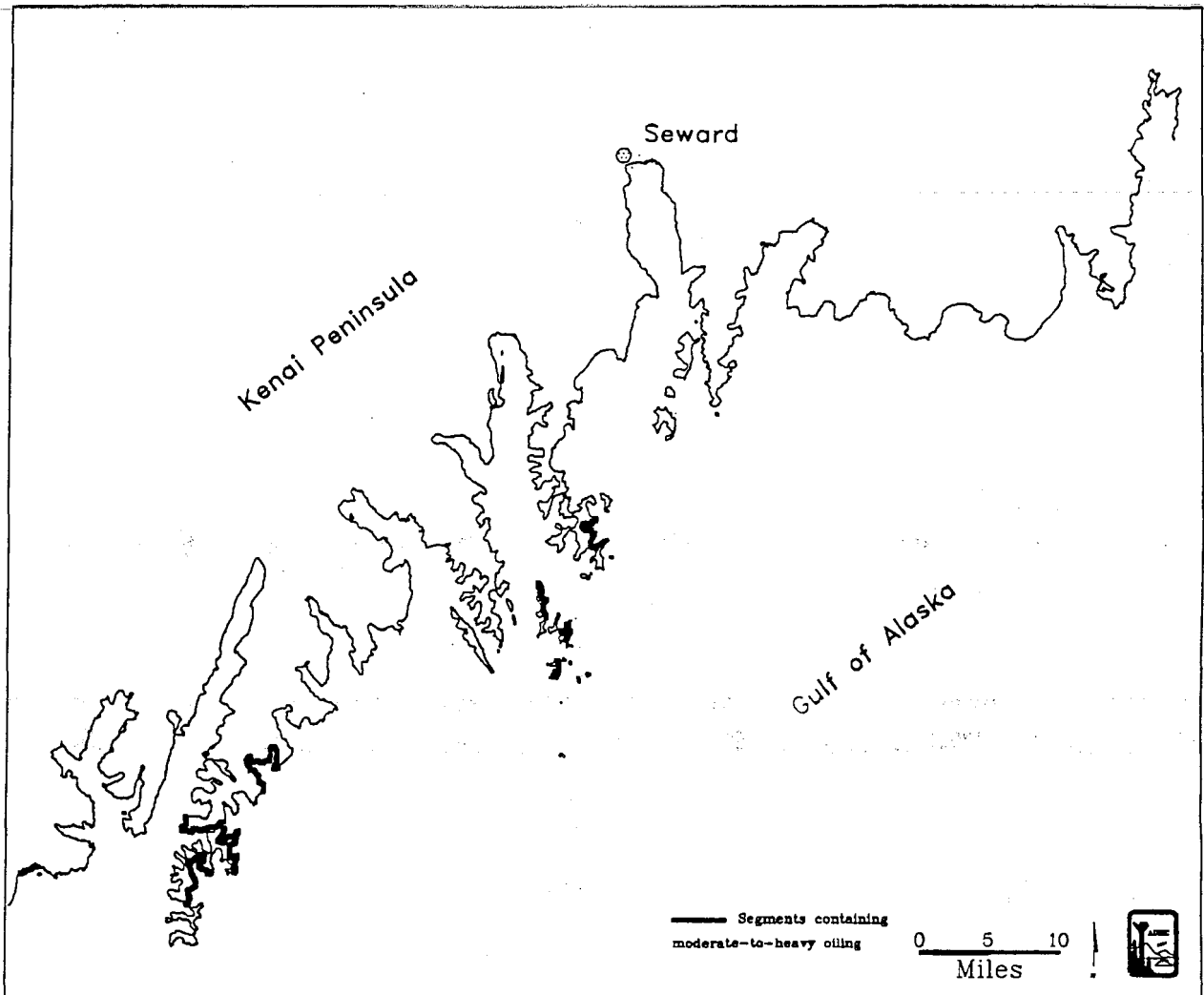
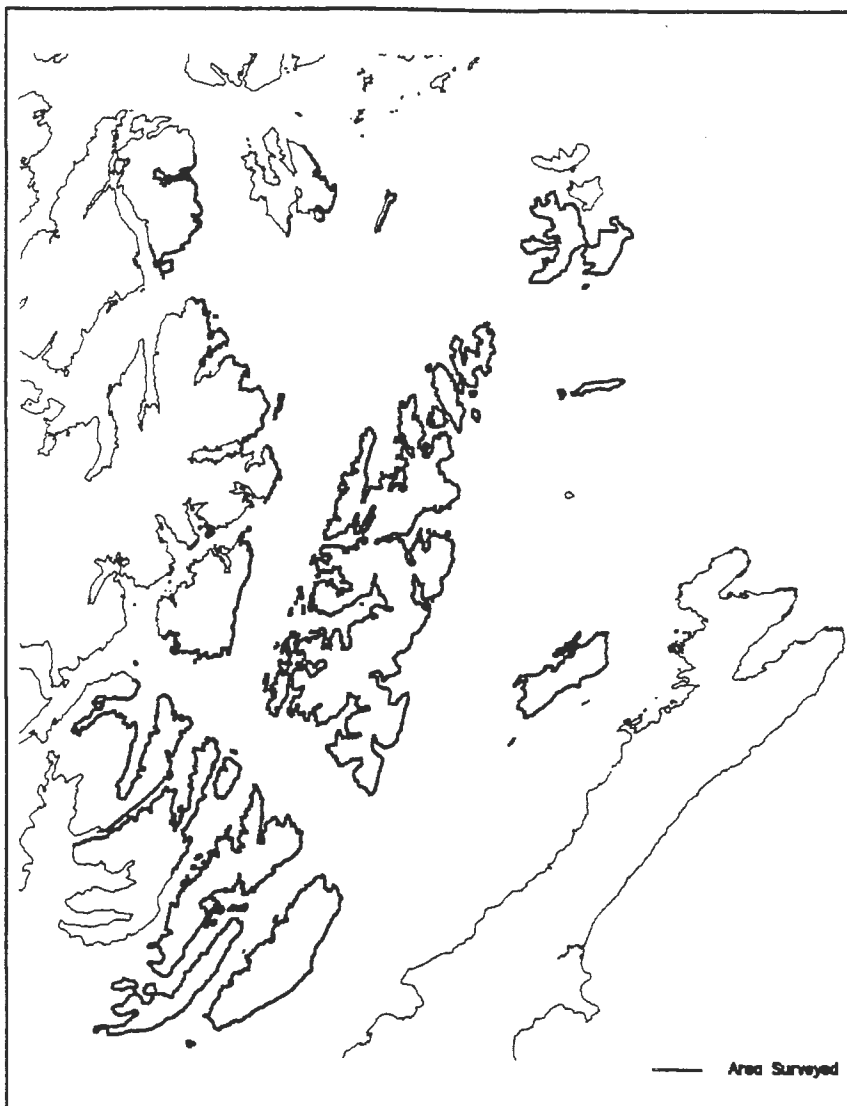


Figure 1. Segments in the Seward Area that contain moderate to heavy oiling (indicated by thick lines). Note that only 3.7 miles within the indicated segments are so classified (see Table 3).

SHELTERED AREAS				
Segment	Location	Heavy mi	mod. mi	total
AI003	PONY COVE, AIALIK	0.24	0.35	0.59
BM003	BLACK BAY	0.00	0.06	0.06
HR005A	NATOA ISLAND	0.20	0.08	0.28
MR001	MCARTHUR PASS	0.07	0.00	0.07
MT004A	MATUSHKA ISL. EAST SHORE	0.07	0.00	0.07
PY002	WILDCAT COVE, PYE IS.	0.00	0.24	0.24
PY007	N.E. SIDE RAGGED IS.	0.02	0.00	0.02
PY008	MORNING COVE, PYE IS.	0.89	0.37	1.27
YG002	YALIK GLACIER BEACH	0.02	0.00	0.02
	TOTAL	1.53	1.10	2.63
UNSHELTERED AREAS				
Segment	Location	Heavy mi	mod. mi	total
HR007C	NATAO IS.	0.08	0.00	0.08
HR009	HARBOR IS.	0.31	0.00	0.31
MT003A	MATUSHKA IS. SW END	0.00	0.04	0.04
PY001	WILDCAT PASS, SE RAGGED IS.	0.32	0.00	0.32
PY006	HOOF POINT EAST	0.21	0.09	0.30
	TOTAL	0.92	0.13	1.06

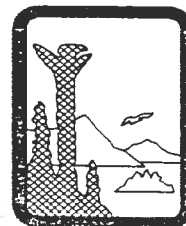
Table 3. All segments containing moderate or heavy oiling.

IMPACT MAPS AND SUMMARY REPORTS
OF SHORELINE SURVEYS OF THE
EXXON VALDEZ SPILL SITE
— PRINCE WILLIAM SOUND —
11 SEPTEMBER — 19 OCTOBER 1989



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OIL SPILL RESPONSE CENTER
224 Hazelet St., Valdez, Alaska 99686
[907-835-8051]

10 DECEMBER 1989



VOLUME 2 CONTENTS: SEGMENTS IN - WH

SEGMENT#	LOCATION
IN020	UPPER PASSAGE, INGOT I.
IN021	UPPER PASSAGE, INGOT I.
IN022	UPPER PASSAGE, INGOT I.
IN023	UPPER PASSAGE, INGOT I.
IN024	LOWER PASSAGE, INGOT I.
IN028	LOWER PASSAGE, INGOT I.
IN029	LOWER PASSAGE, INGOT I.
IN030	LOWER PASSAGE, INGOT I.
IN031	LOWER PASSAGE, INGOT I.
IN032	LOWER PASSAGE, INGOT I.
IN033	UPPER PASSAGE, INGOT I.
IN034	ISLAND OFF W INGOT I.
KN004	BAY OF ISLES, KNIGHT I.
KN005	BAY OF ISLES, KNIGHT I.
KN006	NE KNIGHT ISLAND
KN007	BAY OF ISLES, KNIGHT I.
KN008	BAY OF ISLES, KNIGHT I.
KN009	BAY OF ISLES, KNIGHT I.
KN010	BAY OF ISLES, KNIGHT I.
KN011	BAY OF ISLES, KNIGHT I.
KN012	S BAY OF ISLES, KNIGHT I.
KN013	S BAY OF ISLES, KNIGHT I.
KN014	S BAY OF ISLES, KNIGHT I.
KN015	S BAY OF ISLES, KNIGHT I.
KN017	S BAY OF ISLES, KNIGHT I.
KN018	N BAY OF ISLES, KNIGHT I.
KN019	N BAY OF ISLES, KNIGHT I.
KN020	NE KNIGHT ISLAND
KN021	ISLAND OFF NE KNIGHT I.
KN024	S BAY OF ISLES, KNIGHT I.
KN025	NE KNIGHT ISLAND
KN026	BAY OF ISLES, KNIGHT I.
KN101	NE KNIGHT ISLAND
KN102	LOWER PASSAGE, KNIGHT I.
KN103	LOWER PASSAGE, KNIGHT I.
KN104	LOWER PASSAGE, KNIGHT I.
KN105	LOWER PASSAGE, KNIGHT I.
KN106	LOUIS BAY, KNIGHT ISLAND
KN107	LOWER PASSAGE, KNIGHT I.
KN108	NW KNIGHT ISLAND
KN109	NW KNIGHT ISLAND
KN110	NW KNIGHT ISLAND
KN111	NW KNIGHT ISLAND
KN112	NW KNIGHT ISLAND
KN113	NW KNIGHT ISLAND
KN114	NE HERRING BAY, KNIGHT I.
KN115	NE HERRING BAY, KNIGHT I.
KN116	NE HERRING BAY, KNIGHT I.
KN117	NE HERRING BAY, KNIGHT I.
KN118	NE HERRING BAY, KNIGHT I.
KN119	NE HERRING BAY, KNIGHT I.
KN120	NE HERRING BAY, KNIGHT I.
KN121	SE HERRING BAY
KN122	E HERRING BAY, KNIGHT I.
KN123 A,B	E HERRING BAY, KNIGHT I.
KN124	S HERRING BAY, KNIGHT I.
KN125	S HERRING BAY, KNIGHT I.

VOLUME 2 CONTENTS: SEGMENTS IN - WH

SEGMENT#	LOCATION
KN126	S HERRING BAY, KNIGHT I.
KN127	S HERRING BAY, KNIGHT I.
KN128	S HERRING BAY, KNIGHT I.
KN129	SE HERRING BAY, KNIGHT I.
KN130	SE HERRING BAY, KNIGHT I.
KN131	SE HERRING BAY, KNIGHT I.
KN132	SE HERRING BAY, KNIGHT I.
KN134	SW BAY OF ISLS, KNIGHT I.
KN135	SW BAY OF ISLES, KNIGHT I.
KN136	SE BAY OF ISLES, KNIGHT I.
KN141	E HERRING BAY, KNIGHT I.
KN144	E HERRING BAY, KNIGHT I.
KN200	W BAY OF ISLES, KNIGHT I.
KN201	W BAY OF ISLES, KNIGHT I.
KN202	W BAY OF ISLES, KNIGHT I.
KN203	W BAY OF ISLES, KNIGHT I.
KN204	W BAY OF ISLES, KNIGHT I.
KN205	W BAY OF ISLES, KNIGHT I.
KN206	S BAY OF ISLES, KNIGHT I.
KN207	SE BAY OF ISLES, KNIGHT I.
KN208	W BAY OF ISLES, KNIGHT I.
KN210	NE KNIGHT ISLAND
KN211	NE KNIGHT ISLAND
KN212	E CENTRAL KNIGHT ISLAND
KN213	E CENTRAL KNIGHT ISLAND
KN214	E CENTRAL KNIGHT ISLAND
KN300	E HERRING BAY, KNIGHT I.
KN301	E HERRING BAY, KNIGHT I.
KN400	N SNUG HARBOR, KNIGHT I.
KN401	W SNUG HARBOR, KNIGHT I.
KN402	W SNUG HARBOR, KNIGHT I.
KN403	W SNUG HARBOR, KNIGHT I.
KN404	SE KNIGHT ISLAND
KN405	PT. HELENS, KNIGHT ISLAND
KN406	SE KNIGHT ISLAND
KN407	SE SNUG HARBOR, KNIGHT I.
KN408	S SNUG HARBOR, KNIGHT I.
KN409	SE SNUG HARBOR, KNIGHT I.
KN410	W HOGAN BAY, KNIGHT I.
KN411	NW HOGAN BAY, KNIGHT I.
KN412	N HOGAN BAY, KNIGHT I.
KN413	NE HOGAN BAY, KNIGHT I.
KN500	N KNIGHT ISLAND PASSAGE
KN5000	SE HERRING BAY, KNIGHT I.
KN5001	SE HERRING BAY, KNIGHT I.
KN5002	SE HERRING BAY, KNIGHT I.
KN5003	SE HERRING BAY, KNIGHT I.
KN5004	SE HERRING BAY, KNIGHT I.
KN5005	SE HERRING BAY, KNIGHT I.
KN5006	SE HERRING BAY, KNIGHT I.
KN5007	SE HERRING BAY, KNIGHT I.
KN5008	SE HERRING BAY, KNIGHT I.
KN5009	SE HERRING BAY, KNIGHT I.
KN501	N KNIGHT ISLAND PASSAGE
KN5010	S HERRING BAY, KNIGHT I.
KN5011	SE HERRING BAY, KNIGHT I.
KN5012	SE HERRING BAY, KNIGHT I.

VOLUME 2 CONTENTS: SEGMENTS IN - WH

SEGMENT#	LOCATION
KN126	S HERRING BAY, KNIGHT I.
KN127	S HERRING BAY, KNIGHT I.
KN128	S HERRING BAY, KNIGHT I.
KN129	SE HERRING BAY, KNIGHT I.
KN130	SE HERRING BAY, KNIGHT I.
KN131	SE HERRING BAY, KNIGHT I.
KN132	SE HERRING BAY, KNIGHT I.
KN134	SW BAY OF ISLS, KNIGHT I.
KN135	SW BAY OF ISLES, KNIGHT I.
KN136	SE BAY OF ISLES, KNIGHT I.
KN141	E HERRING BAY, KNIGHT I.
KN144	E HERRING BAY, KNIGHT I.
KN200	W BAY OF ISLES, KNIGHT I.
KN201	W BAY OF ISLES, KNIGHT I.
KN202	W BAY OF ISLES, KNIGHT I.
KN203	W BAY OF ISLES, KNIGHT I.
KN204	W BAY OF ISLES, KNIGHT I.
KN205	W BAY OF ISLES, KNIGHT I.
KN206	S BAY OF ISLES, KNIGHT I.
KN207	SE BAY OF ISLES, KNIGHT I.
KN208	W BAY OF ISLES, KNIGHT I.
KN210	NE KNIGHT ISLAND
KN211	NE KNIGHT ISLAND
KN212	E CENTRAL KNIGHT ISLAND
KN213	E CENTRAL KNIGHT ISLAND
KN214	E CENTRAL KNIGHT ISLAND
KN300	E HERRING BAY, KNIGHT I.
KN301	E HERRING BAY, KNIGHT I.
KN400	N SNUG HARBOR, KNIGHT I.
KN401	W SNUG HARBOR, KNIGHT I.
KN402	W SNUG HARBOR, KNIGHT I.
KN403	W SNUG HARBOR, KNIGHT I.
KN404	SE KNIGHT ISLAND
KN405	PT. HELENS, KNIGHT ISLAND
KN406	SE KNIGHT ISLAND
KN407	SE SNUG HARBOR, KNIGHT I.
KN408	S SNUG HARBOR, KNIGHT I.
KN409	SE SNUG HARBOR, KNIGHT I.
KN410	W HOGAN BAY, KNIGHT I.
KN411	NW HOGAN BAY, KNIGHT I.
KN412	N HOGAN BAY, KNIGHT I.
KN413	NE HOGAN BAY, KNIGHT I.
KN500	N KNIGHT ISLAND PASSAGE
KN5000	SE HERRING BAY, KNIGHT I.
KN5001	SE HERRING BAY, KNIGHT I.
KN5002	SE HERRING BAY, KNIGHT I.
KN5003	SE HERRING BAY, KNIGHT I.
KN5004	SE HERRING BAY, KNIGHT I.
KN5005	SE HERRING BAY, KNIGHT I.
KN5006	SE HERRING BAY, KNIGHT I.
KN5007	SE HERRING BAY, KNIGHT I.
KN5008	SE HERRING BAY, KNIGHT I.
KN5009	SE HERRING BAY, KNIGHT I.
KN501	N KNIGHT ISLAND PASSAGE
KN5010	S HERRING BAY, KNIGHT I.
KN5011	SE HERRING BAY, KNIGHT I.
KN5012	SE HERRING BAY, KNIGHT I.

VOLUME 2 CONTENTS: SEGMENTS IN - WH

SEGMENT#	LOCATION
KN502	N KNIGHT ISLAND PASSAGE
KN503	N KNIGHT ISLAND PASSAGE
KN504	N KNIGHT ISLAND PASSAGE
KN505	N KNIGHT ISLAND PASSAGE
KN506	N KNIGHT ISLAND PASSAGE
KN507	N KNIGHT ISLAND PASSAGE
KN508	N KNIGHT ISLAND PASSAGE
KN509	N KNIGHT ISLAND PASSAGE
KN510	N KNIGHT ISLAND PASSAGE
KN551	L. HERRING BAY, KNIGHT I.
KN552	L. HERRING BAY, KNIGHT I.
KN553	W KNIGHT ISLAND
KN554	W KNIGHT ISLAND
KN574	W KNIGHT ISLAND
KN575A	N DRIER BAY, KNIGHT I.
KN575B	N DRIER BAY, KNIGHT I.
KN576	SW DRIER BAY, KNIGHT I.
KN577	KNIGHT ISLAND
KN578	SW KNIGHT ISLAND
KN600	SW KNIGHT ISLAND
KN601	S KNIGHT ISLAND
KN602	S KNIGHT ISLAND
KN603	S KNIGHT ISLAND
KN604	S KNIGHT ISLAND
KN605	MUMMY BAY, KNIGHT ISLAND
KN606	S KNIGHT ISLAND
KN607	S KNIGHT ISLAND
KN608	S KNIGHT ISLAND
KN700	S MARSHA BAY, KNIGHT I.
KN701	S MARSHA BAY, KNIGHT I.
KN702	S MARSHA BAY, KNIGHT I.
KN703	W MARSHA BAY, KNIGHT I.
KN704	NW MARSHA BAY, KNIGHT I.
KN705	E CENTRAL KNIGHT ISLAND
KN706	NE SNUG HARBOR, KNIGHT I.
LA015	NE LATOUCHE ISLAND
LA016	SLEEPY BAY, LATOUCHE I.
LA017	SLEEPY BAY, LATOUCHE I.
LA018	SLEEPY BAY, LATOUCHE I.
LA019	SLEEPY BAY, LATOUCHE I.
LA020	SLEEPY BAY, LATOUCHE I.
LA021	NW LATOUCHE ISLAND
LA022	NW LATOUCHE ISLAND
LA023	NW LATOUCHE ISLAND
LA024	NW LATOUCHE ISLAND
LA025	SE LATOUCHE ISLAND
LA026	SE LATOUCHE ISLAND
LA028	NE LATOUCHE ISLAND
LA029	NE LATOUCHE ISLAND
LA030	NE LATOUCHE ISLAND
LA031	NE LATOUCHE ISLAND
LA032	ISLAND OFF W LATOUCHE I.
LA033	ISLAND OFF W LATOUCHE I.
LA034	NW LATOUCHE ISLAND
LA035	NW LATOUCHE ISLAND
LA036	NW LATOUCHE ISLAND
LA037	SW LATOUCHE ISLAND

VOLUME 2 CONTENTS: SEGMENTS IN - WH

SEGMENT#	LOCATION
LA038	SW LATOUCHE ISLAND
LA039	SW LATOUCHE ISLAND
LA040	SW LATOUCHE ISLAND
LA041	SW LATOUCHE ISLAND
LA042	S LATOUCHE ISLAND
LA500	SW LATOUCHE ISLAND
LN001	N LONE ISLAND
LN002	NE LONE ISLAND
LN003	NE LONE ISLAND
LN004	E LONE ISLAND
LN005	E LONE ISLAND
LN006	E LONE ISLAND
LN007	SE LONE ISLAND
LN008	S LONE ISLAND
LN009	S LONE ISLAND
LN010	SW LONE ISLAND
LN012	NW LONE ISLAND
LS049	N LITTLE SMITH ISLAND
LS060	W LITTLE SMITH ISLAND
LS061	E LITTLE SMITH ISLAND
MA001	MAINLAND N OF MAIN BAY
MA002A	ISLAND N OF MAIN BAY
MA002B	ISLAND N OF MAIN BAY
MA002C	ISLAND N OF MAIN BAY
MA002D	ISLAND N OF MAIN BAY
MA003	N OF MAIN BAY
MA004	N OF MAIN BAY
MA005	W MAIN BAY
MA006	W MAIN BAY
MA007	W MAIN BAY
MA008	E MAIN BAY
MA009	S OF MAIN BAY
MA010	S OF MAIN BAY
MN001	NW MONTAGUE ISLAND
MN002	NW MONTAGUE ISLAND
MN004	NW MONTAGUE ISLAND
MN005	ISLAND N MONTAGUE ISLAND
MN500	N MONTAGUE ISLAND
MN501	N MONTAGUE ISLAND
MJ001A	ISLAND W OF KNIGHT I.
MJ001B	ISLAND W OF KNOGHT I.
MJ002A	ISLAND W OF KNIGHT I.
MJ002B	ISLAND W OF KNIGHT I.
MJ002C	ISLAND W OF KNIGHT I.
MJ002D	ISLAND W OF KNIGHT I.
MJ003 A,B,C	ISLAND W OF KNIGHT I.
NA005	N NAKED ISLAND
NA006-1	McPHERSON BAY, NAKED I.
NA006-2	McPHERSON BAY, NAKED I.
NA020	N NAKED ISLAND
NA021	N NAKED ISLAND
NA022	N NAKED ISLAND
NA023	N NAKED ISLAND
NA024	CABIN BAY, NAKED ISLAND
NA026	SW NAKED ISLAND
NA027	S NAKED ISLAND
NA028	NE NAKED ISLAND

VOLUME 2 CONTENTS: SEGMENTS IN - WH

SEGMENT#	LOCATION
NY001	ISLANDS W OF KNIGHT I.
PK001	PEAK ISLAND
PN001	POINT NEWELL
PN002	POINT NOWELL
PN003	POINT NOWELL
PN004	POINT NOWELL
PN005	POINT NOWELL
PR002	SE PERRY ISLAND
PR003	SE PERRY ISLAND
PR004	NE PERRY ISLAND
PR005	NE PERRY ISLAND
PR006	NE PERRY ISLAND
PR007	NE PERRY ISLAND
PR008	NE PERRY ISLAND
PR009	N PERRY ISLAND
PR016	SE PERRY ISLAND
SL001	SQUIRREL ISLAND
SM005	N SMITH ISLAND
SM006	N SMITH ISLAND
SM007	SE SMITH ISLAND
SM047	E SMITH ISLAND
SP019,043,044	SPHINX ISLANDS
SQ001	ISLAND SW OF KNIGHT I.
SQ002	ISLAND SW OF KNIGHT I.
SQ003	ISLAND SW OF KNIGHT I.
SQ004	ISLAND SW OF KNIGHT I.
SQ005	ISLAND SW OF KNIGHT I.
WH001	WHALE BAY
WH002	WHALE BAY
WH003	WHALE BAY
WH500	WHALE BAY
WH501	WHALE BAY
WH502	WHALE BAY
WH503	WHALE BAY
WH504	WHALE BAY
WH505	WHALE BAY
WH506	WHALE BAY

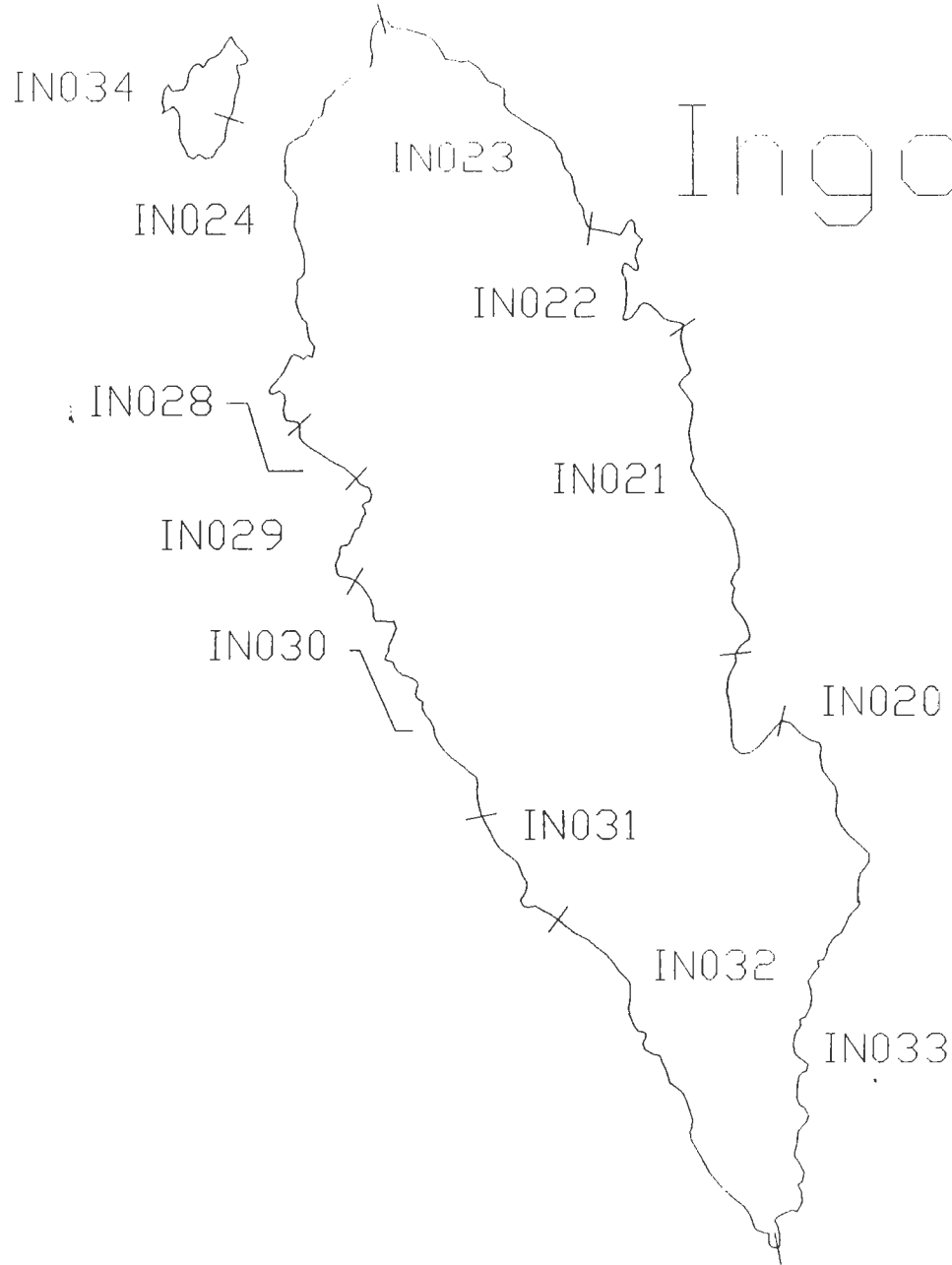
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IN - KN134

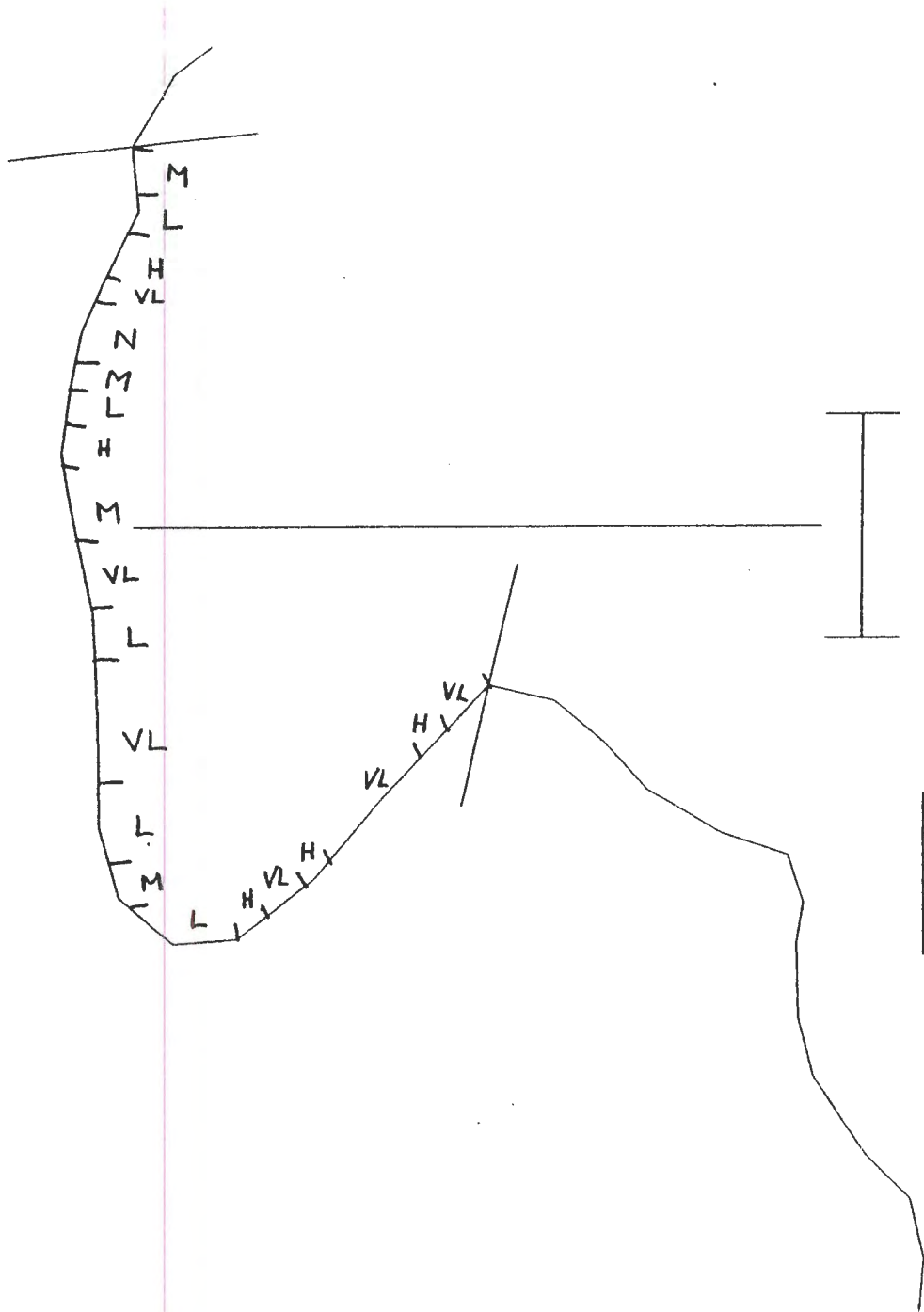
SECTION CONTENTS — INGOT ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
IN020	UPPER PASSAGE, INGOT I.
IN021	UPPER PASSAGE, INGOT I.
IN022	UPPER PASSAGE, INGOT I.
IN023	UPPER PASSAGE, INGOT I.
IN024	LOWER PASSAGE, INGOT I.
IN028	LOWER PASSAGE, INGOT I.
IN029	LOWER PASSAGE, INGOT I.
IN030	LOWER PASSAGE, INGOT I.
IN031	LOWER PASSAGE, INGOT I.
IN032	LOWER PASSAGE, INGOT I.
IN033	UPPER PASSAGE, INGOT I.
IN034	ISLAND OFF W INGOT I.

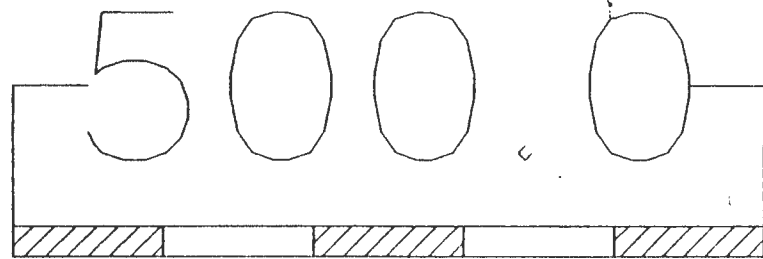
Printed: 12/12/89



Ingot Island



INO20



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN021 DATE: 09/15/89
LOCATION: UPPER PASSAGE, INGOT I. TIME: 11:26

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, G. Winter, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 35 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 98%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: IN022-1 / IN022-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

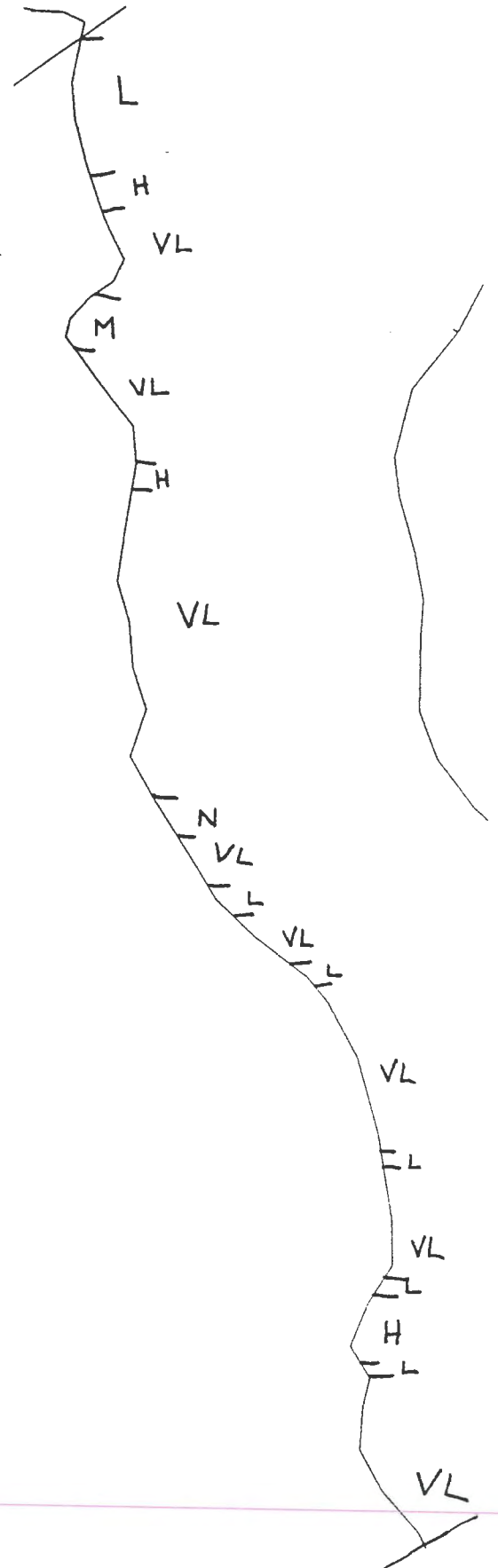
Type: Few localities; cleanup debris
Bags Collected: 1

Draft

Printed: 12/12/89 11:26

IN021

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN022 DATE: 09/15/89
LOCATION: UPPER PASSAGE, INGOT I. TIME: 18:30

Survey Type: Boat, Ground
Team: L. Gresehover, B. Fitzsimons, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NE
Sea State: Calm Knots: 0-15

Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: IN022-1 / 1022-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

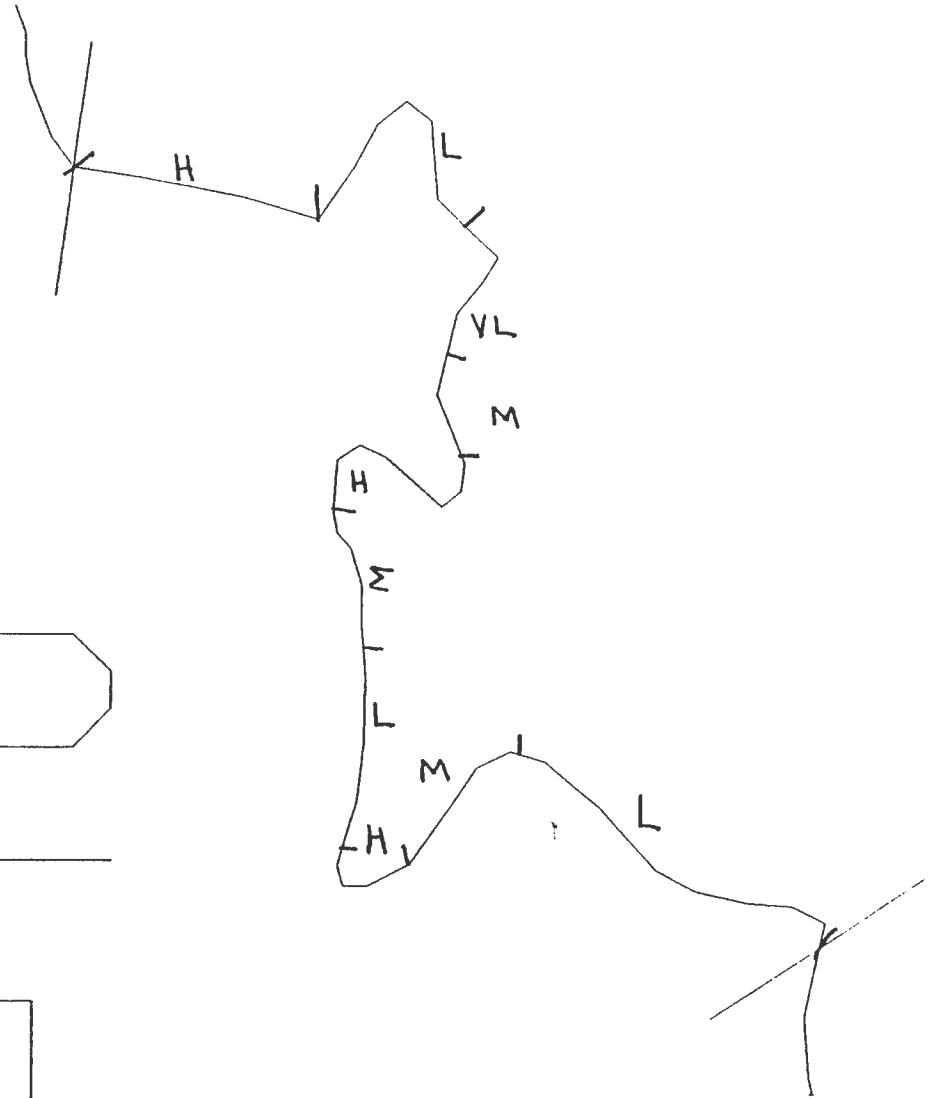
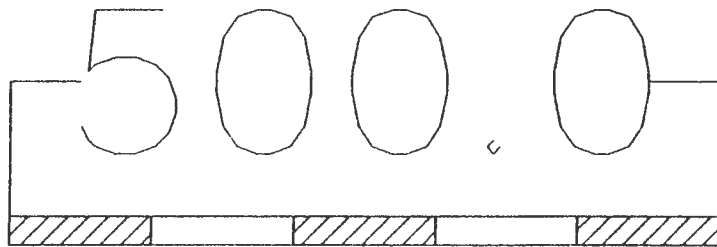
SOLID WASTE FOUND

Type: Few localities
Bags Collected: 0

Draft

Printed: 12/12/89 11:26

IN022



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN023 DATE: 09/15/89
 LOCATION: UPPER PASSAGE, INGOT I. TIME: 17:50

Survey Type: Boat, Ground
 Team: L. Gresehover, B. Fitzsimons, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NE
 Sea State: Calm Knots: 0-15

Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
 Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

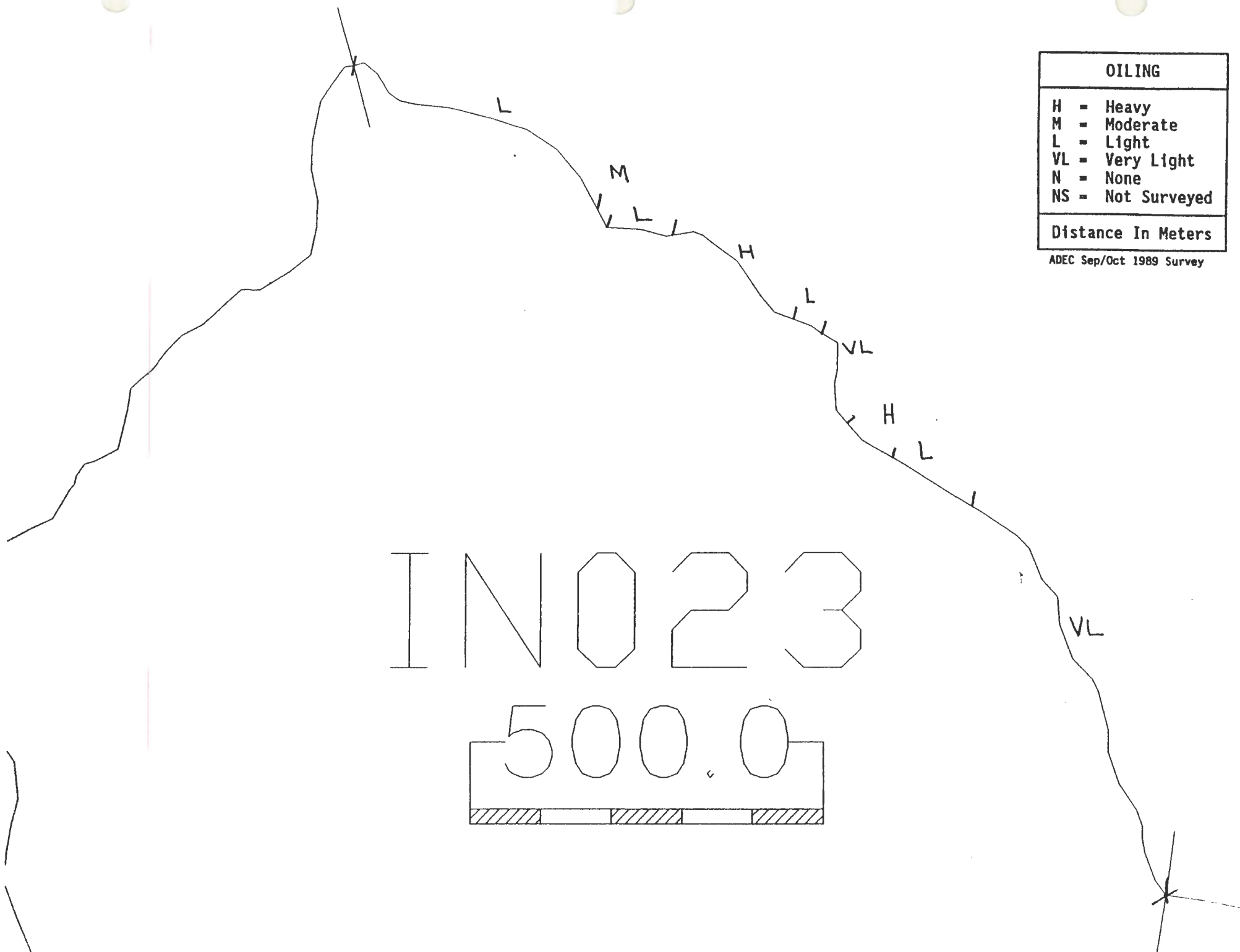
Samples: IN023-1 / IN023-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
 Bags Collected: 0

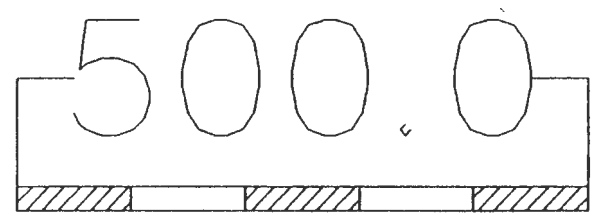


OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

IN 023



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN024 DATE: 09/14/89
LOCATION: LOWER PASSAGE, INGOT I. TIME: 17:00

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaricina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Calm Knots: 0-15

Low Tide: 7:16 Feet: -1. High Tide: 13:35 Feet: 12.2
Low Tide: 19:29 Feet: 0.48 High Tide: 0:50 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

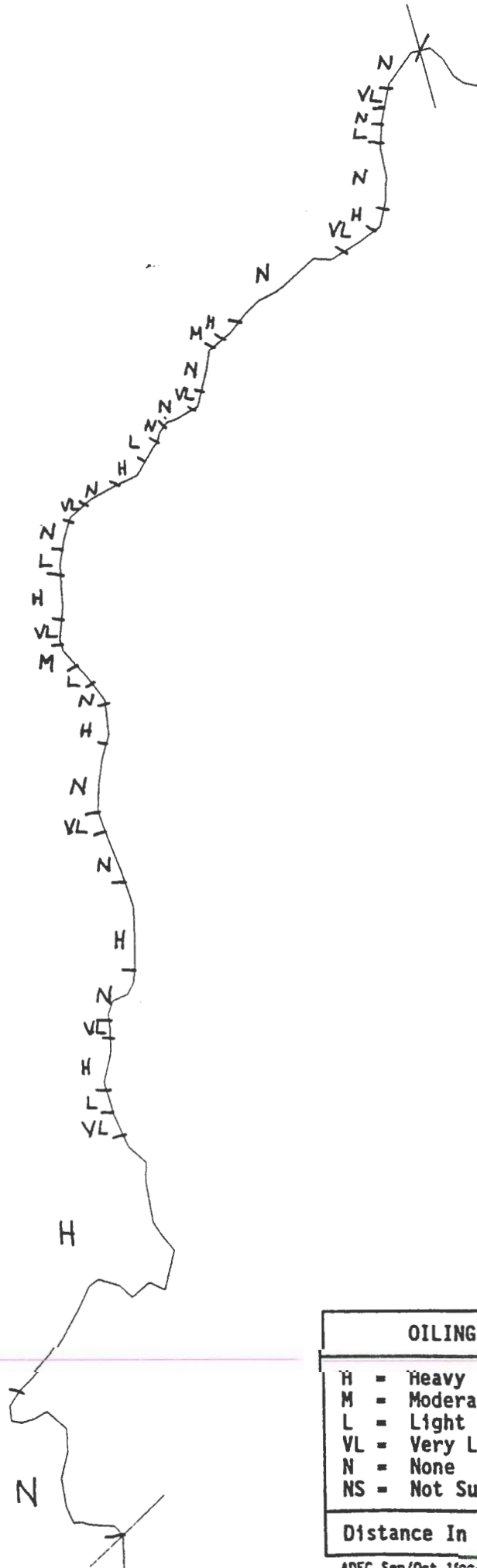
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

IN024

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN028 DATE: 09/16/89
LOCATION: LOWER PASSAGE, INGOT I. TIME: 17:25

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher, G. Winter, C. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: variable
Sea State: Calm Knots: 0-15
Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 1 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

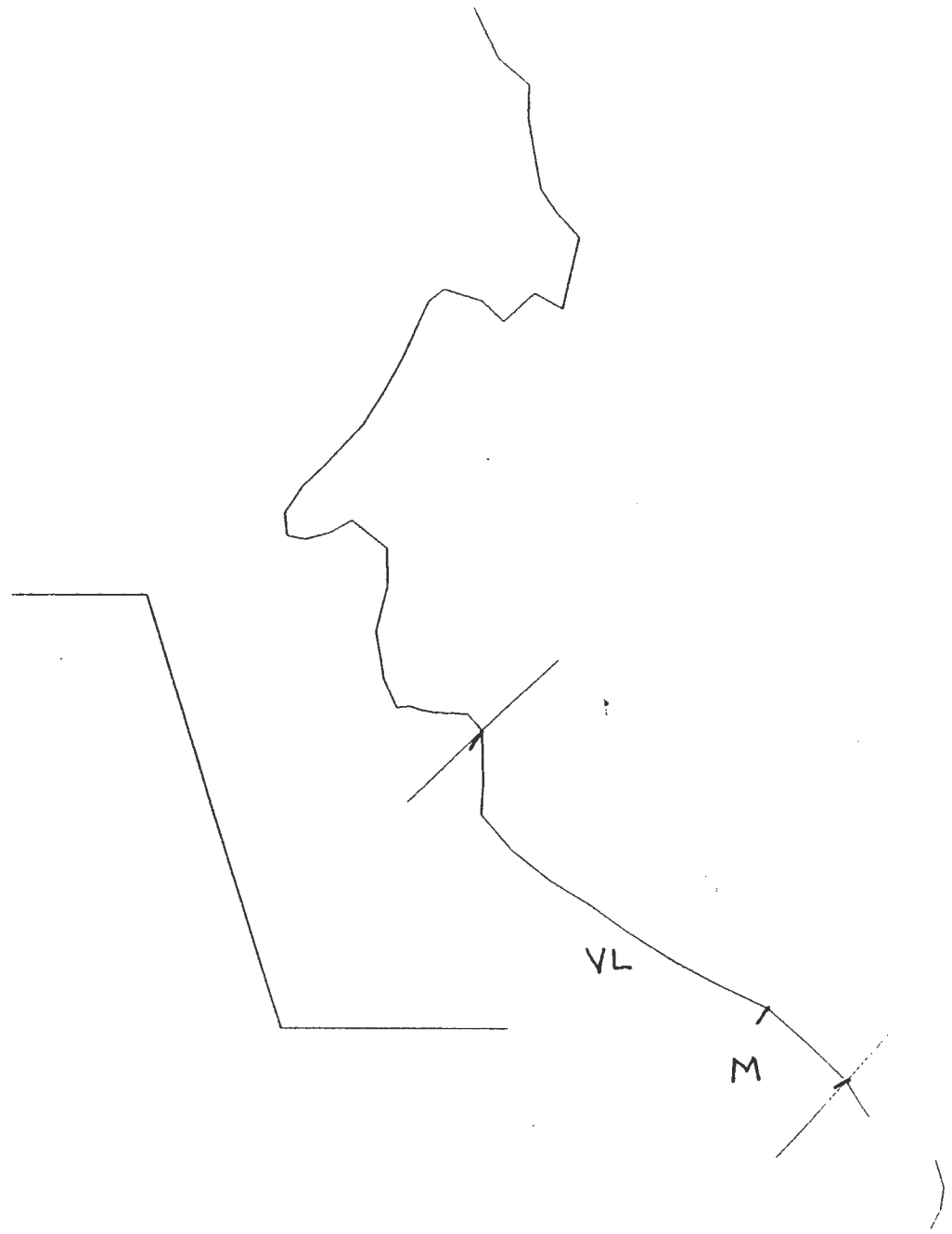
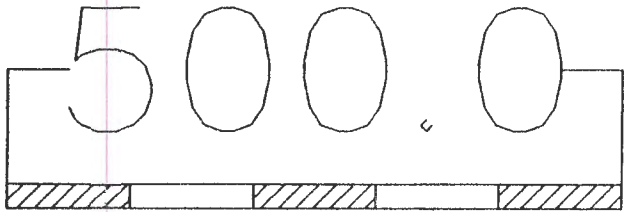
Type: None
Bags Collected: 0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

INO28



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN029 DATE: 09/16/89
LOCATION: LOWER PASSAGE, INGOT I. TIME: 10:50

Survey Type: Boat, Ground
Team: K. Dutcher, J. Kreiger, C. Pavia, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0
Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 90%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: IN029-1 / IN029-2 / none / none

DAMAGED OR OILED ORGANISMS

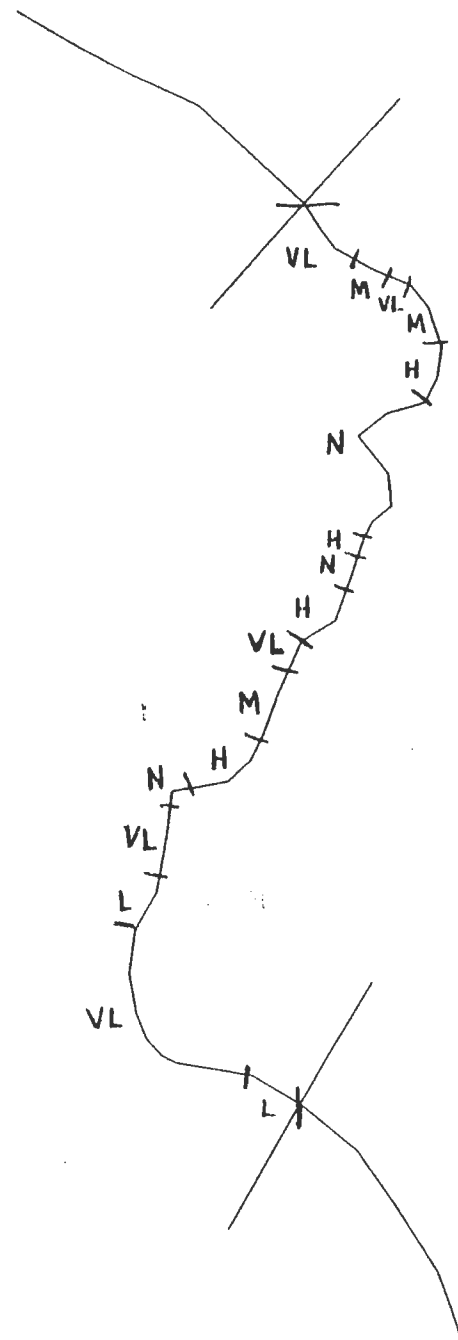
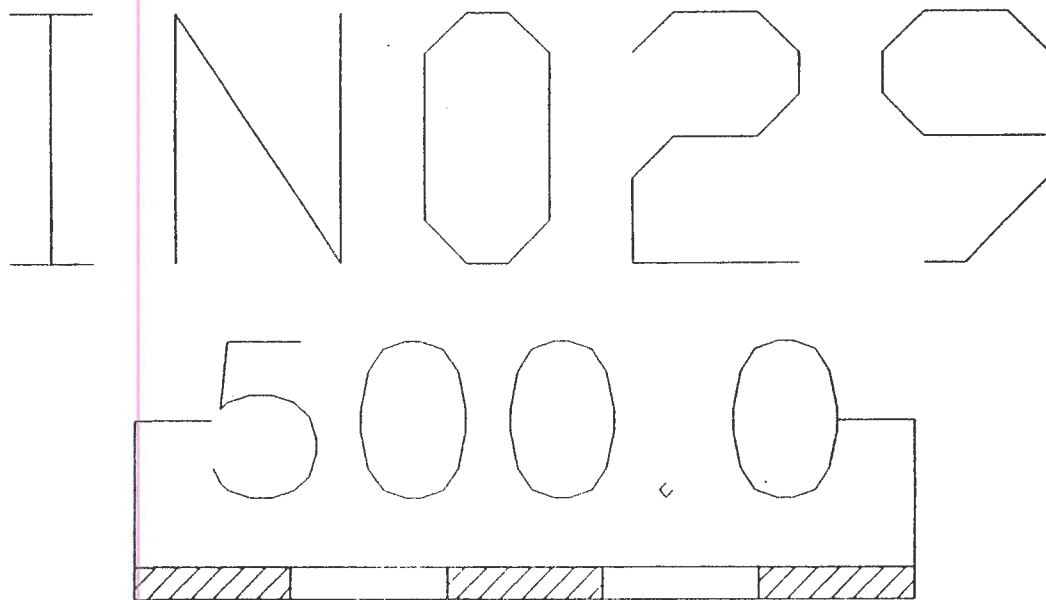
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN030 DATE: 09/16/89
LOCATION: LOWER PASSAGE, INGOT I. TIME: 9:35

Survey Type: Boat, Ground
Team: C. Pavia, G. Winter, J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(N=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

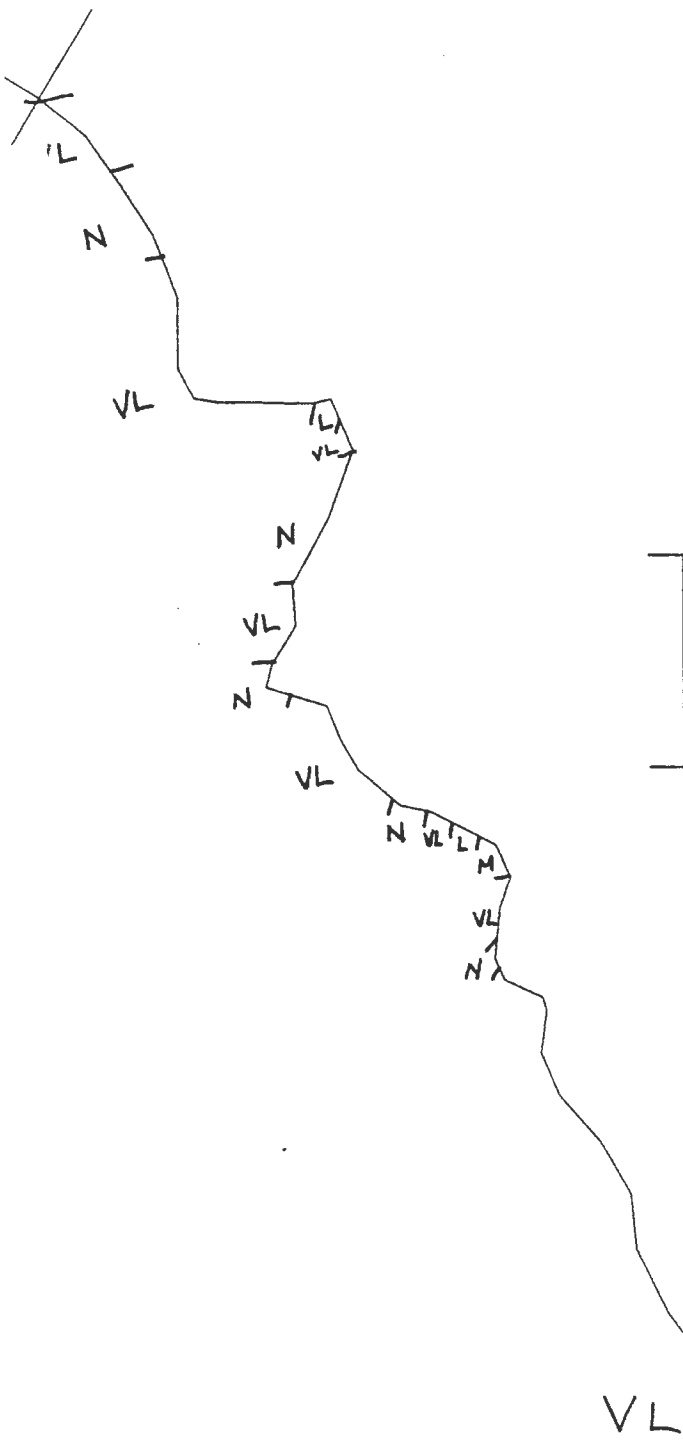
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: IN030-1 / IN030-2 / none / none

DAMAGED OR OILED ORGANISMS

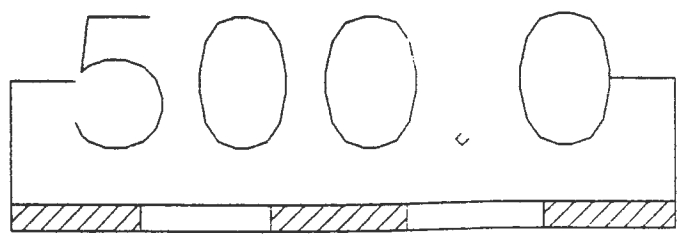
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

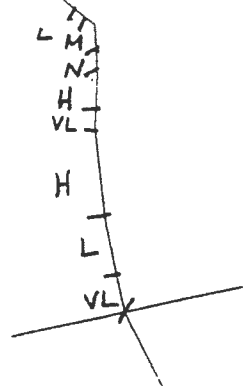
Type: None
Bags Collected: 0



I N O 3 0



VL



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN031

DATE: 09/16/89

LOCATION: LOWER PASSAGE, INGOT I.

TIME: 8:40

Survey Type: Boat, Ground

Team: C. Pavia, G. Winter, K. Dutcher, J. Krieger

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C

(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G

(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H

(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M

(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: IN031-1 / IN031-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y

Dead Mammals: 0 Dead Birds: 0

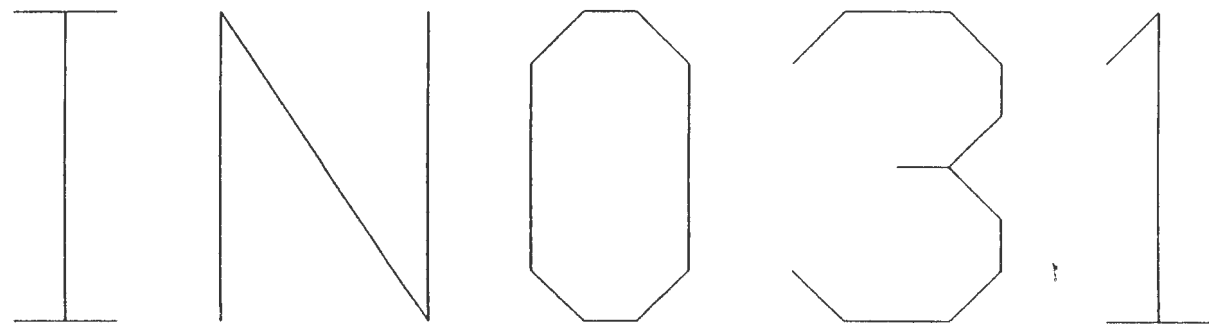
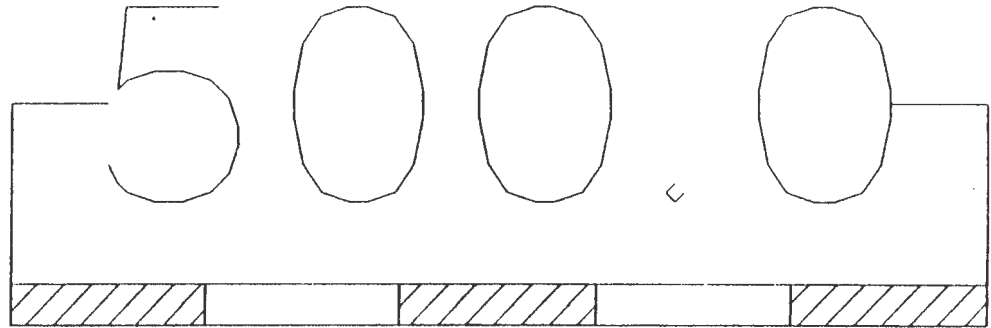
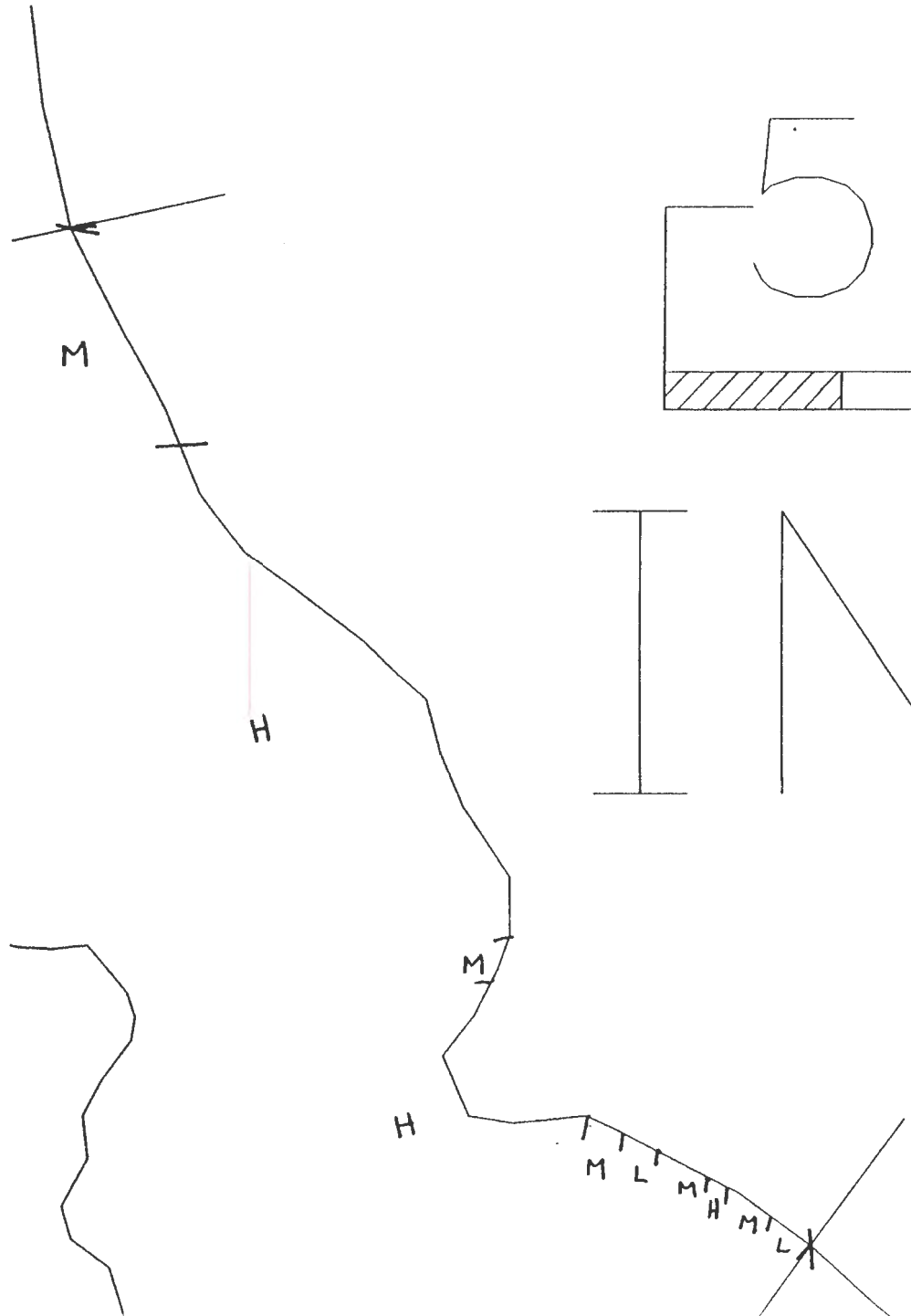
SOLID WASTE FOUND

Type: None

Bags Collected: 0

Draft

Printed: 12/12/89 11:27



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN032 DATE: 09/15/89
 LOCATION: LOWER PASSAGE, INGOT I. TIME: 17:30

Survey Type: Boat, Ground
 Team: G. Winter, J. Krieger

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
 Sea State: Calm Knots: 0
 Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
 Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 5 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: IN032-1 / IN032-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, cleanup debris
 Bags Collected: 0

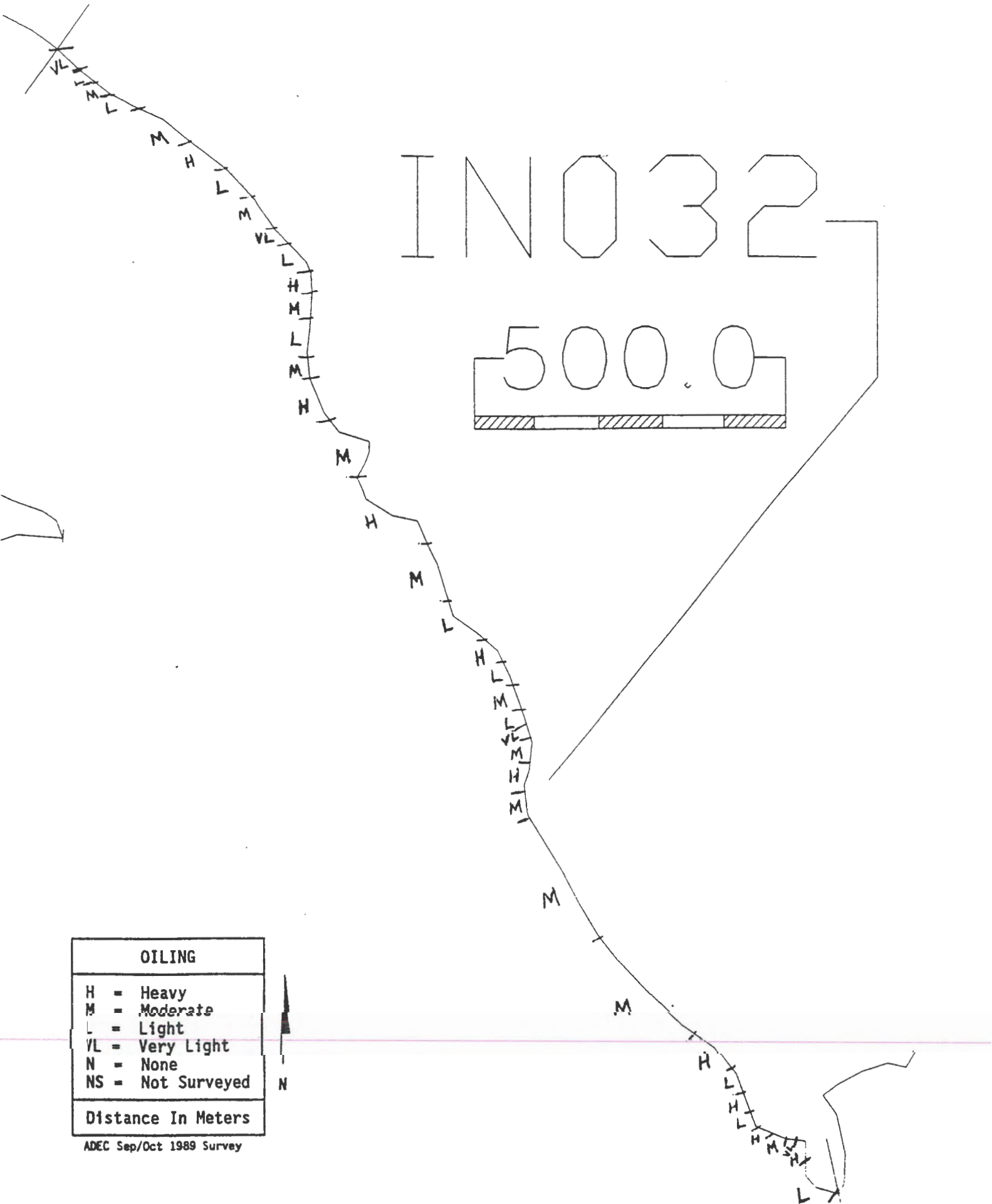
IN032

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OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN033 DATE: 09/15/89
 LOCATION: UPPER PASSAGE, INGOT I. TIME: 8:30

Survey Type: Helicopter
 Team: E. Gundlach, G. Winter, C. Pavia, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: variable
 Sea State: Calm Knots: 0-15
 Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
 Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 20 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: M,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: IN033-1 / IN033-2 / none / none

DAMAGED OR OILED ORGANISMS

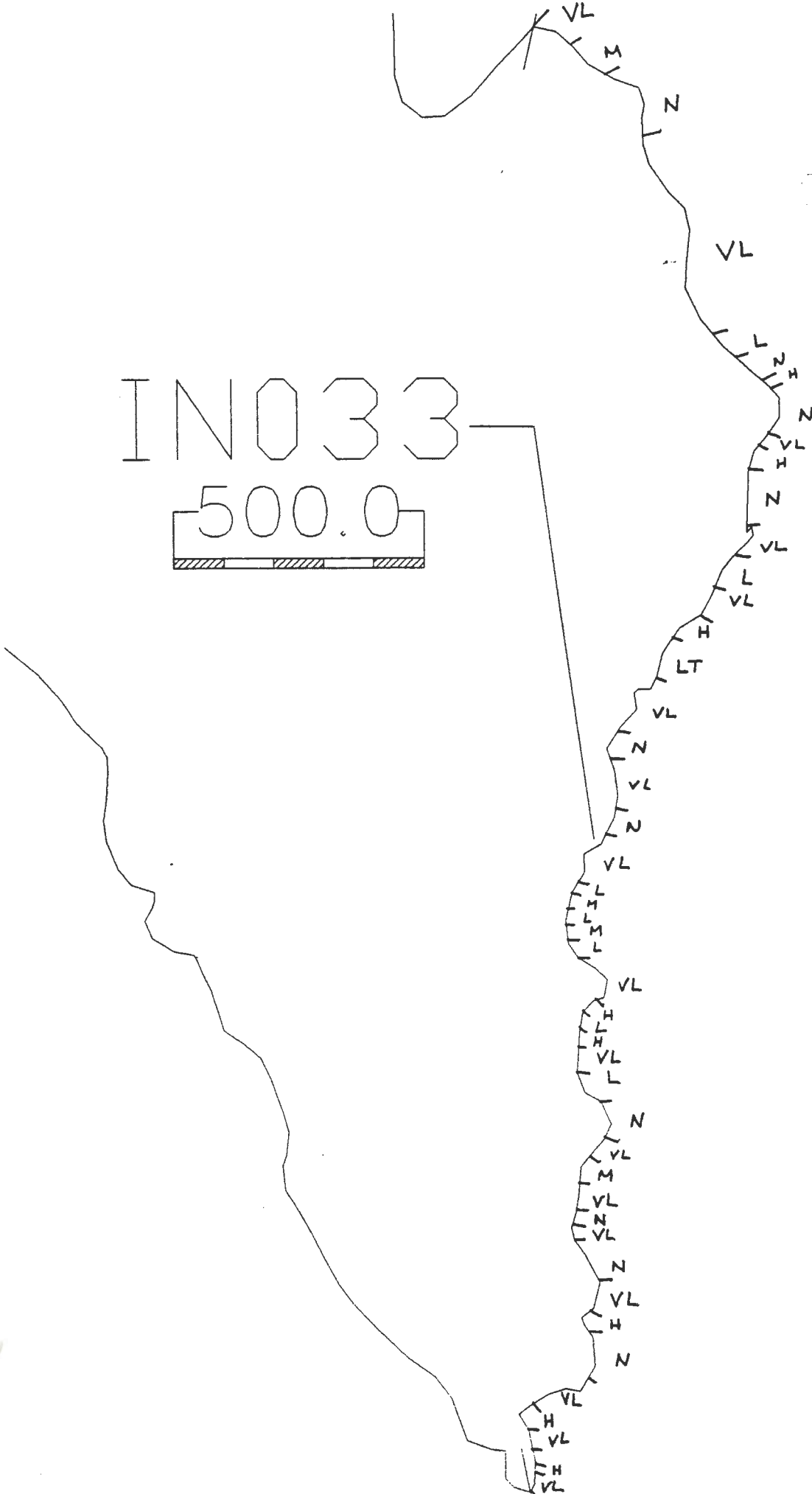
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; Cleanup Debris
 Bags Collected: 0

IN033

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: IN034 DATE: 09/14/89
LOCATION: ISLAND OFF W INGOT I. TIME: 16:00

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, G. Winter, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Rain Wind Direction: NE
Sea State: Moderate Knots: 0-15
Low Tide: 7:16 Feet: -1. High Tide: 13:35 Feet: 12.2
Low Tide: 19:29 Feet: 0.48 High Tide: 0:50 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 85%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

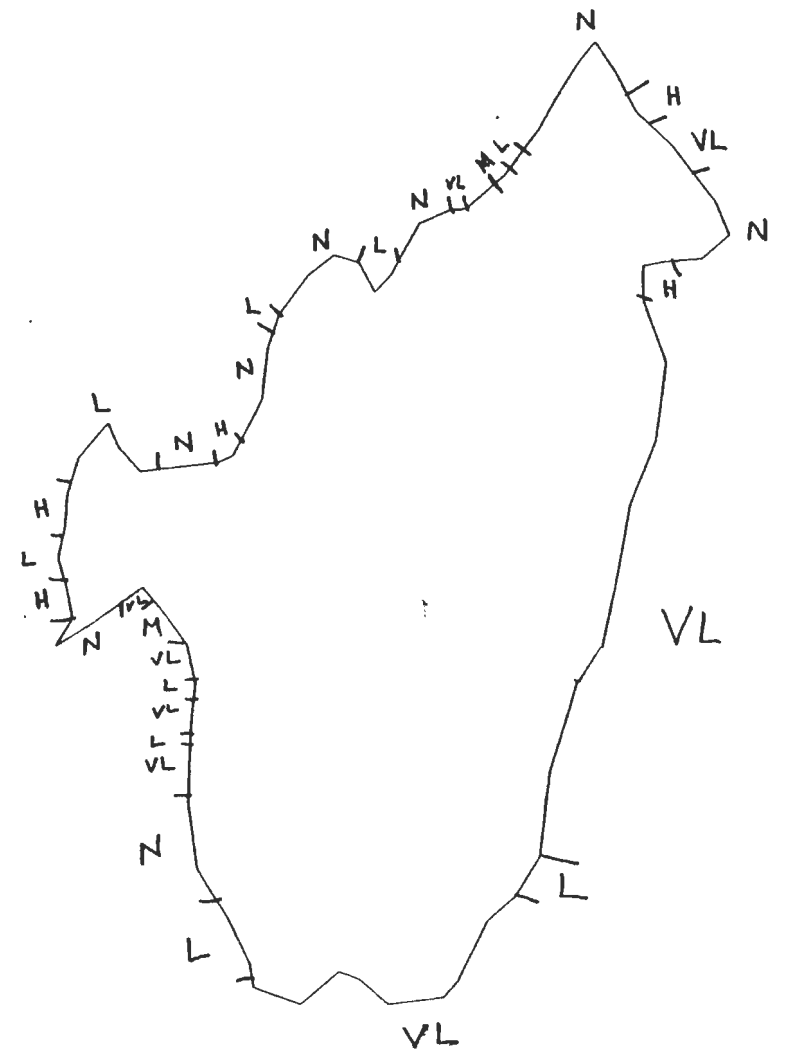
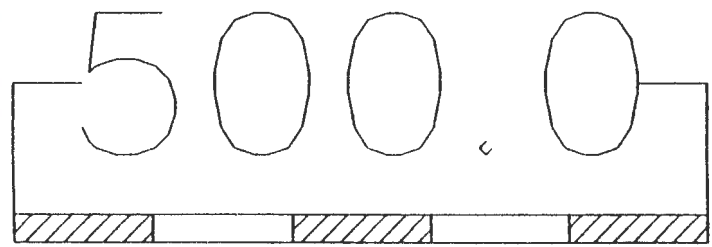
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters

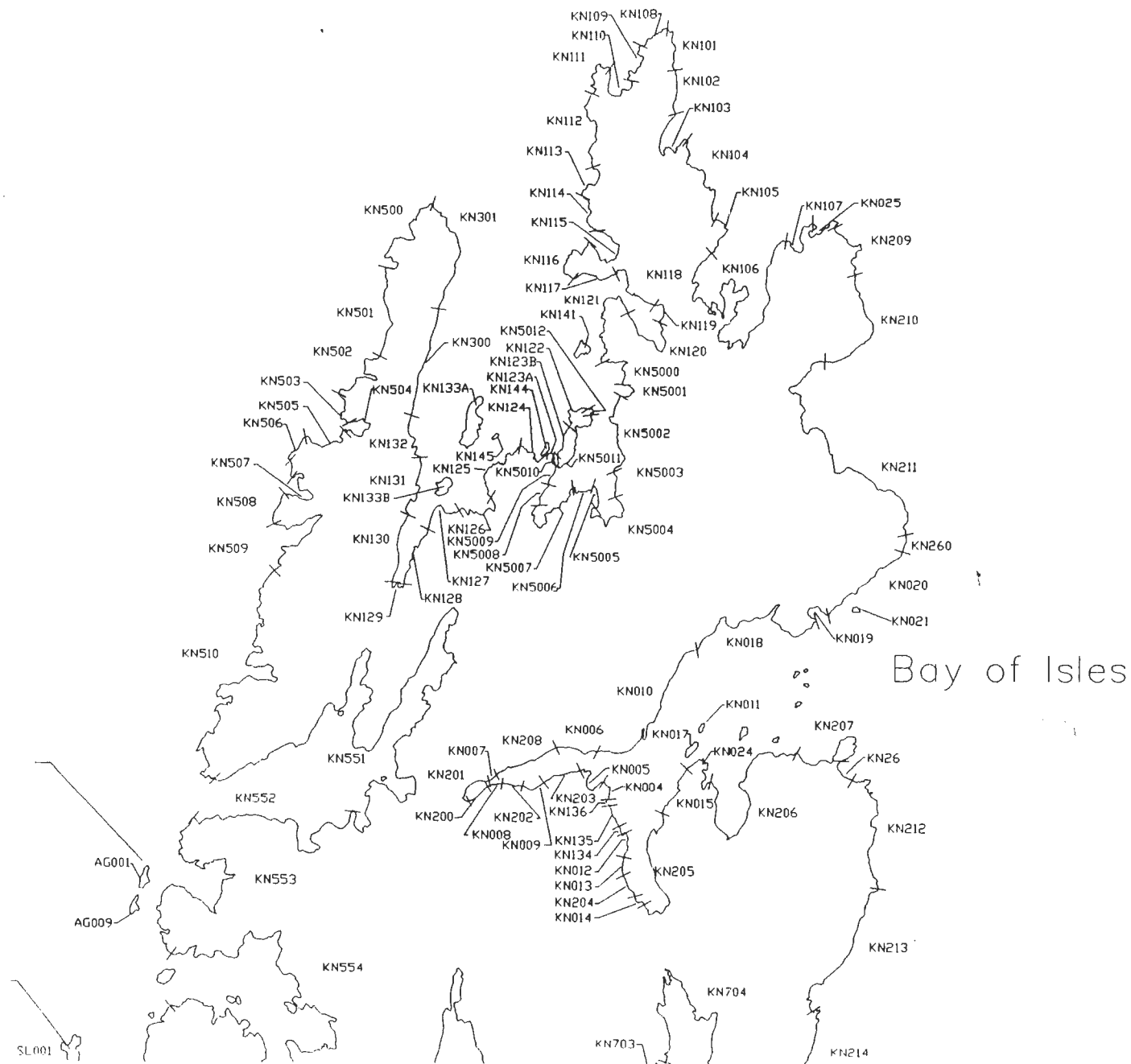
ADEC Sep/Oct 1989 Survey

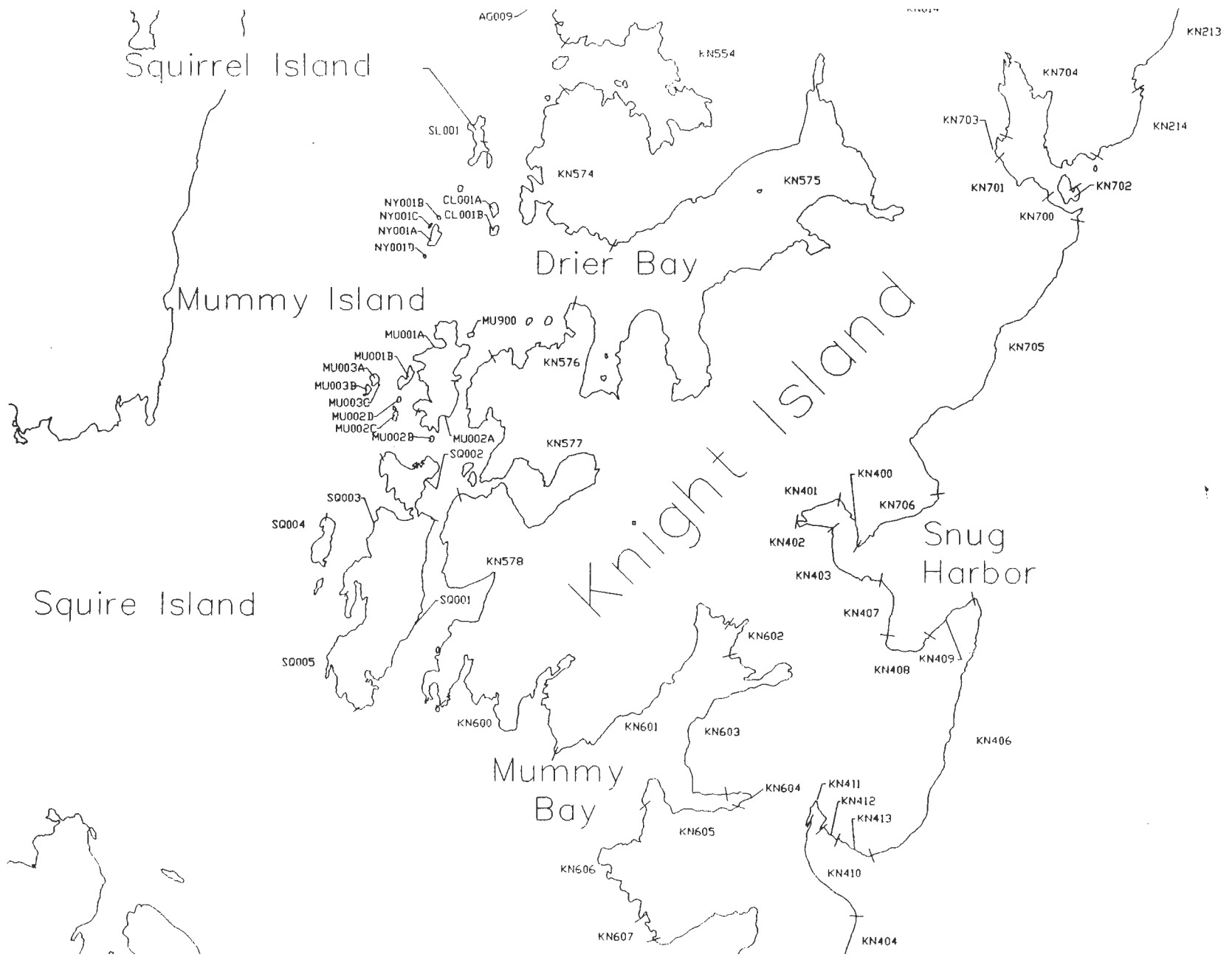
I N O 3 4

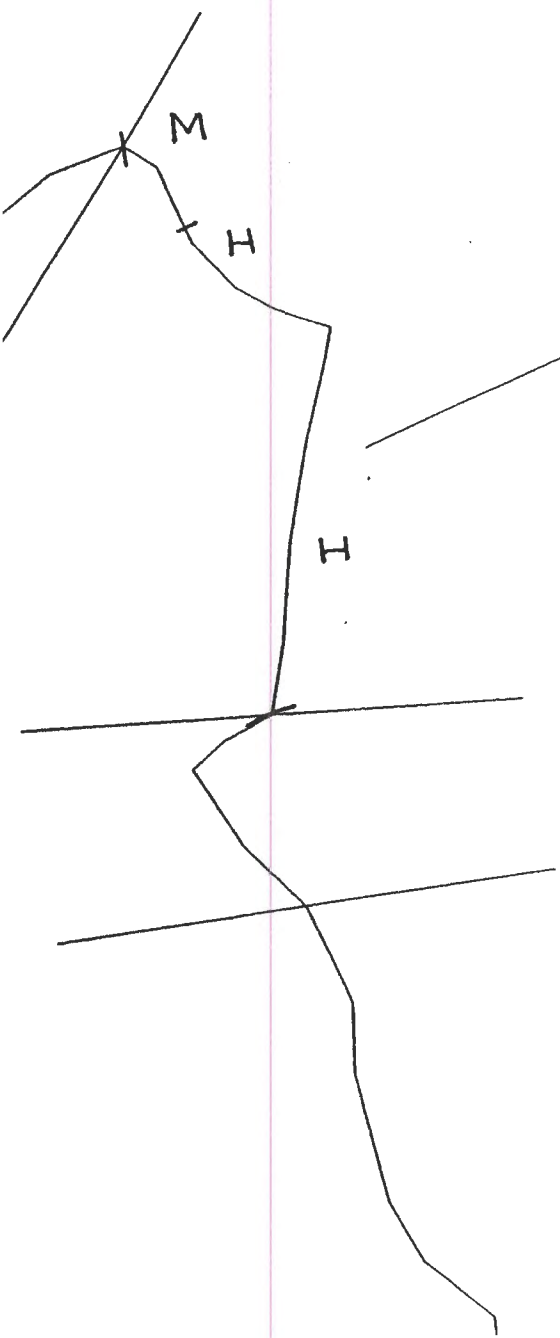


SECTION CONTENTS — KNIGHT ISLAND

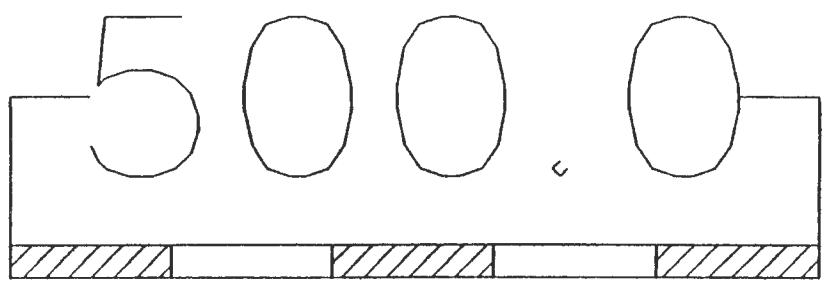
SEGMENT#	LOCATION
KN004	BAY OF ISLES, KNIGHT I.
KN005	BAY OF ISLES, KNIGHT I.
KN006	NE KNIGHT ISLAND
KN007	BAY OF ISLES, KNIGHT I.
KN008	BAY OF ISLES, KNIGHT I.
KN009	BAY OF ISLES, KNIGHT I.
KN010	BAY OF ISLES, KNIGHT I.
KN011	BAY OF ISLES, KNIGHT I.
KN012	S BAY OF ISLES, KNIGHT I.
KN013	S BAY OF ISLES, KNIGHT I.
KN014	S BAY OF ISLES, KNIGHT I.
KN015	S BAY OF ISLES, KNIGHT I.
KN017	S BAY OF ISLES, KNIGHT I.
KN018	N BAY OF ISLES, KNIGHT I.
KN019	N BAY OF ISLES, KNIGHT I.
KN020	NE KNIGHT ISLAND
KN021	ISLAND OFF NE KNIGHT I.
KN024	S BAY OF ISLES, KNIGHT I.
KN025	NE KNIGHT ISLAND
KN026	BAY OF ISLES, KNIGHT I.
KN101	NE KNIGHT ISLAND
KN102	LOWER PASSAGE, KNIGHT I.
KN103	LOWER PASSAGE, KNIGHT I.
KN104	LOWER PASSAGE, KNIGHT I.
KN105	LOWER PASSAGE, KNIGHT I.
KN106	LOUIS BAY, KNIGHT ISLAND
KN107	LOWER PASSAGE, KNIGHT I.
KN108	NW KNIGHT ISLAND
KN109	NW KNIGHT ISLAND
KN110	NW KNIGHT ISLAND
KN111	NW KNIGHT ISLAND
KN112	NW KNIGHT ISLAND
KN113	NW KNIGHT ISLAND
KN114	NE HERRING BAY, KNIGHT I.
KN115	NE HERRING BAY, KNIGHT I.
KN116	NE HERRING BAY, KNIGHT I.
KN117	NE HERRING BAY, KNIGHT I.
KN118	NE HERRING BAY, KNIGHT I.
KN119	NE HERRING BAY, KNIGHT I.
KN120	NE HERRING BAY, KNIGHT I.
KN121	SE HERRING BAY
KN122	E HERRING BAY, KNIGHT I.
KN123 A,B	E HERRING BAY, KNIGHT I.
KN124	S HERRING BAY, KNIGHT I.
KN125	S HERRING BAY, KNIGHT I.
KN126	S HERRING BAY, KNIGHT I.
KN127	S HERRING BAY, KNIGHT I.
KN128	S HERRING BAY, KNIGHT I.
KN129	SE HERRING BAY, KNIGHT I.
KN130	SE HERRING BAY, KNIGHT I.
KN131	SE HERRING BAY, KNIGHT I.
KN132	SE HERRING BAY, KNIGHT I.
KN134	SW BAY OF ISLS, KNIGHT I.



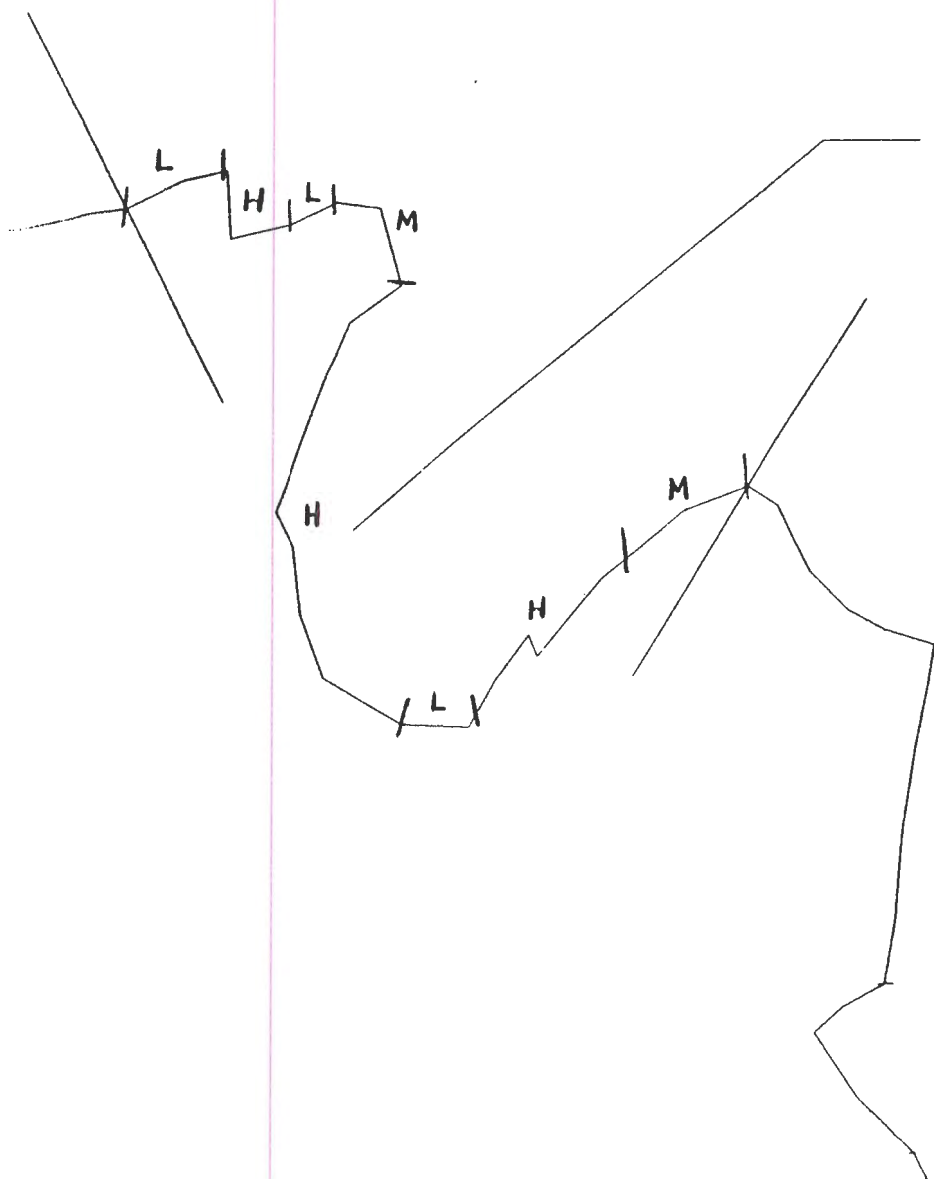




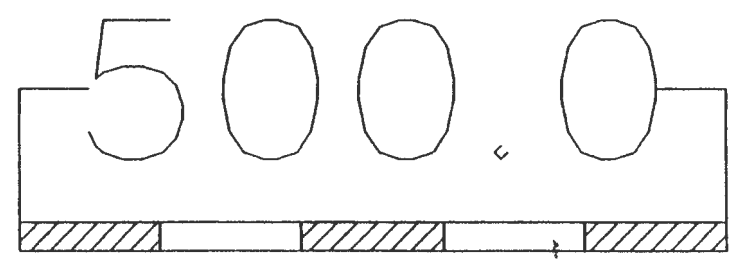
K N 0 0 4



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



K N 0 0 5



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN006
 LOCATION: NE KNIGHT ISLAND

DATE: 09/20/89
 TIME: 12:08

Survey Type: Boat, Ground
 Team: G. Pavia, M. Baer

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
 Sea State: Moderate Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
 Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

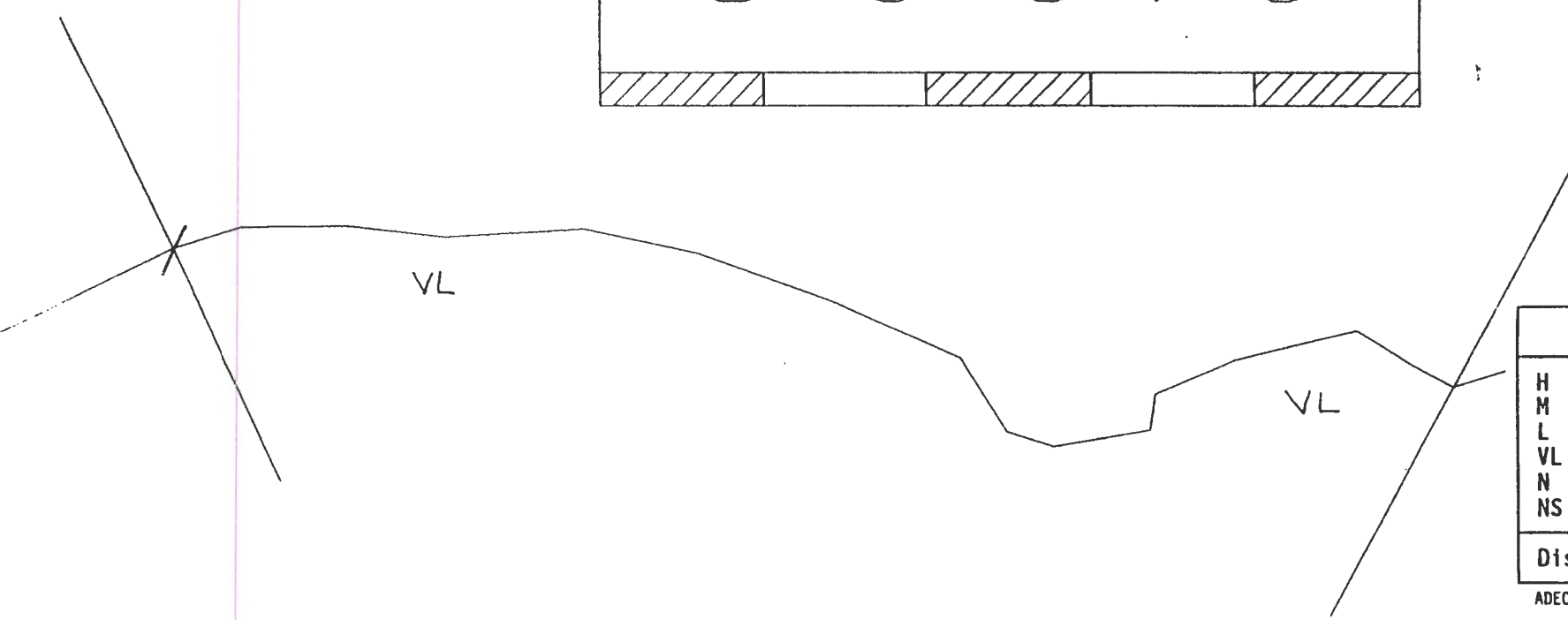
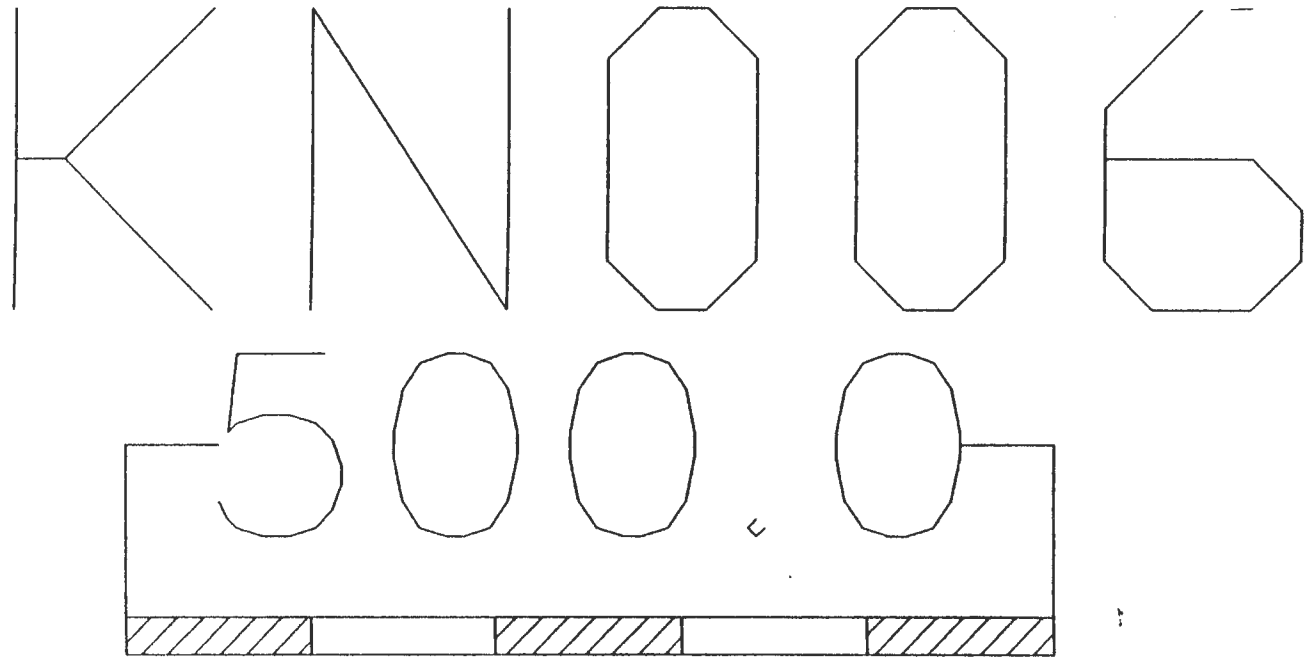
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: P,M,SY,T
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN006-1 / KN006-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few Localities, Pom poms
 Bags Collected: 1



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN007 DATE: 10/01/89
 LOCATION: BAY OF ISLES, KNIGHT I. TIME: 10:50

Survey Type: Boat, Ground
 Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
 Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretupes: LR
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: M
 (N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: SY,T
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN007-1 / KN007-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

500.0

KN007



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KNO08
LOCATION: BAY OF ISLES, KNIGHT I.

DATE: 10/01/89
TIME: 9:30

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: M
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 6 cm (35 = 35 cm or greater)

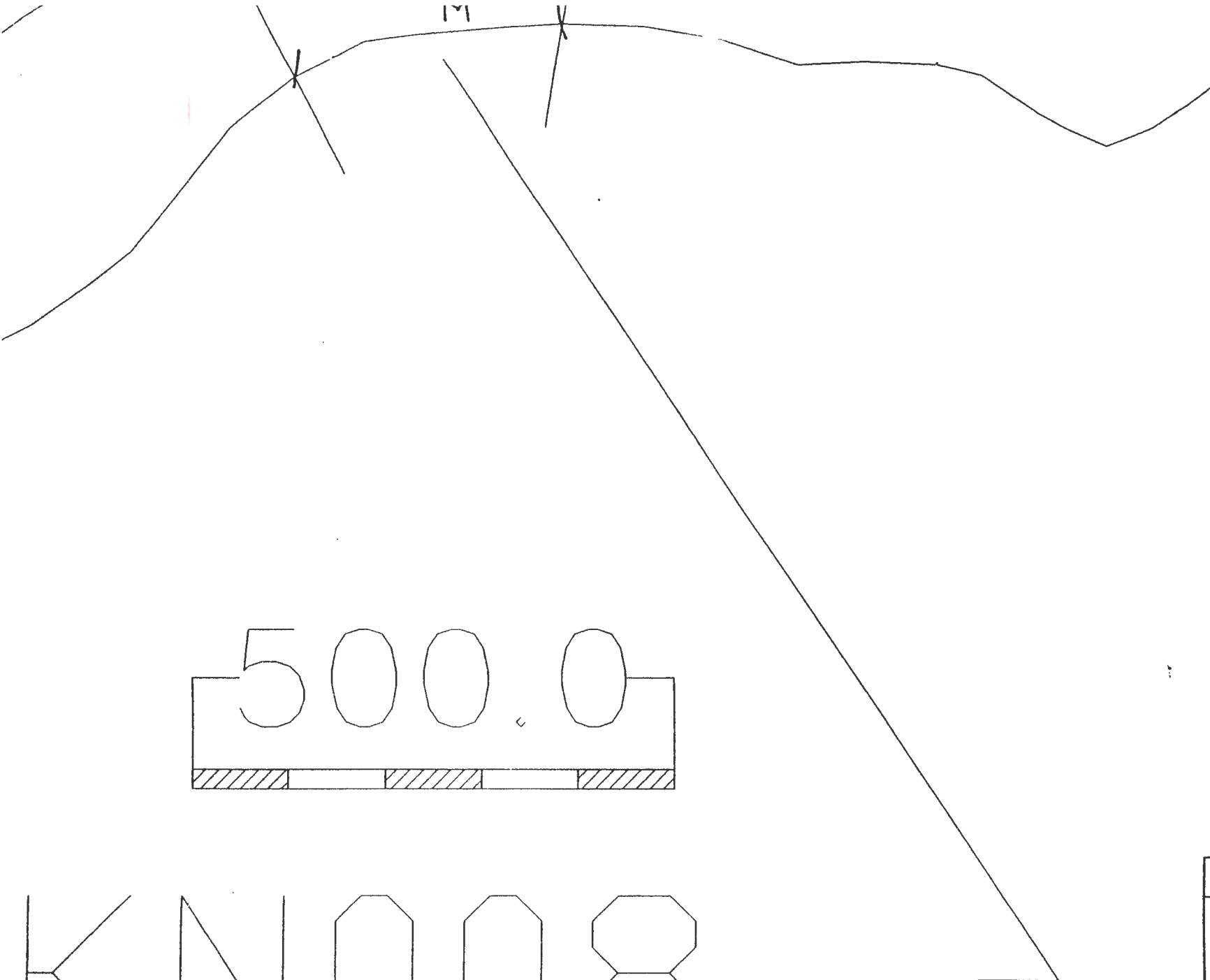
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KNO08-1 / KNO08-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 1



500.0

KN 0 0 8

OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN009 DATE: 10/01/89
 LOCATION: BAY OF ISLES, KNIGHT I. TIME: 10:20

Survey Type: Boat, Ground
 Team: B. McCready, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
 Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
 Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

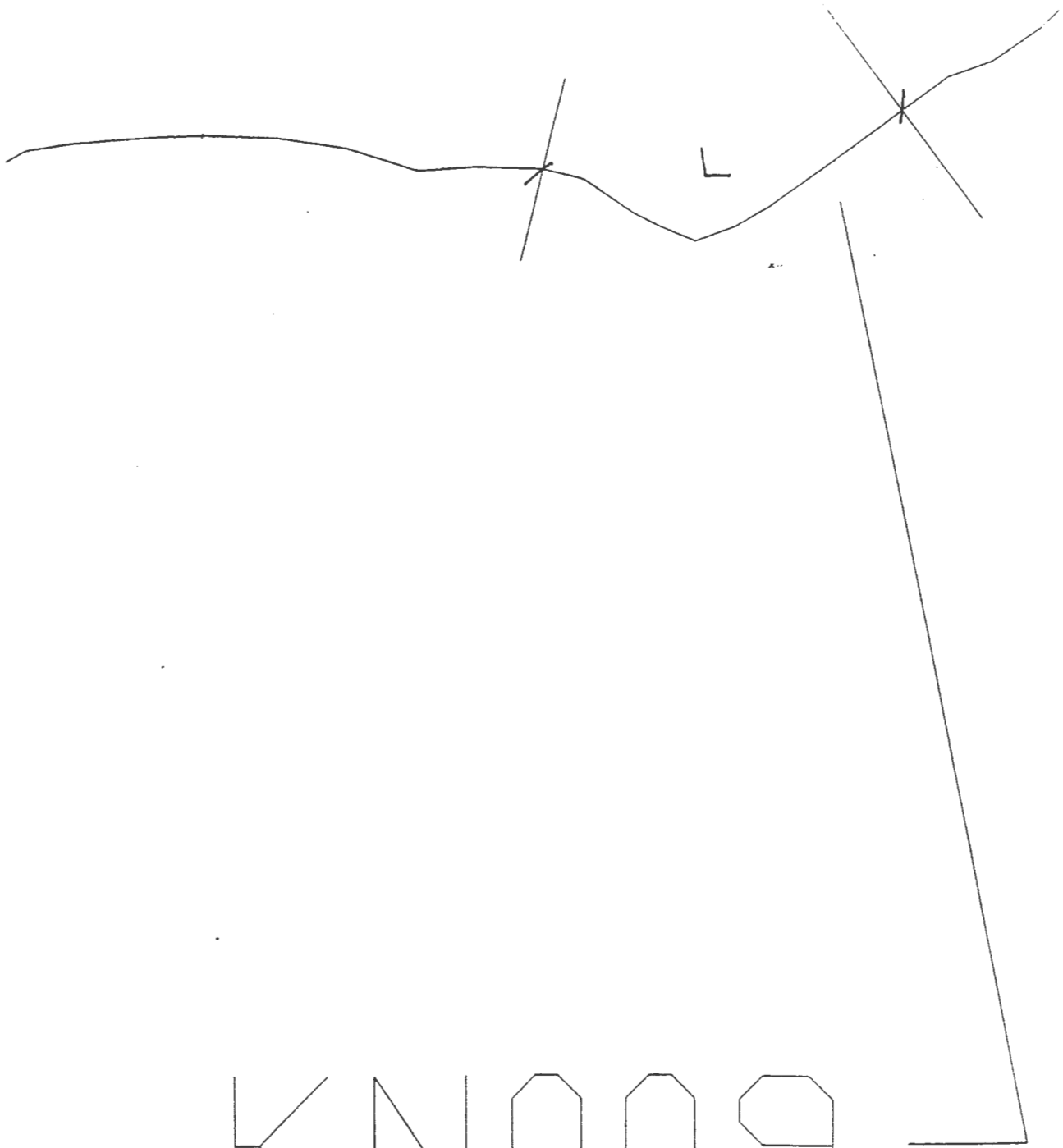
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: none
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN009-1 / KN009-2 / none / none

DAMAGED OR OILED ORGANISMS

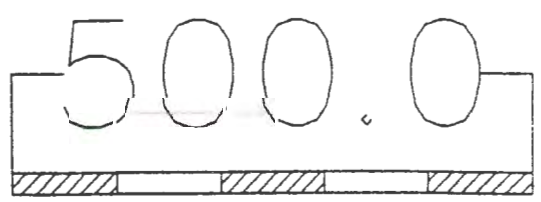
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



KN0009



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN010 DATE: 09/20/89
 LOCATION: BAY OF ISLES, KNIGHT I. TIME: 10:44

Survey Type: Boat, Ground
 Team: M. Baer, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
 Sea State: Moderate Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
 Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretupes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 3 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: M,SY,T,A
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN010-1 / KN010-2 / none / none

DAMAGED OR OILED ORGANISMS

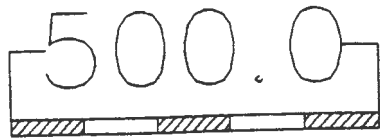
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

KN010

500.0



VL

VL

OILING

- H - Heavy
- M - Moderate
- L - Light
- VL - Very Light
- N - None
- NS - Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

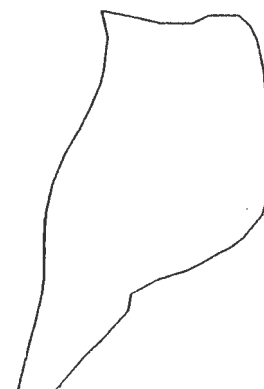
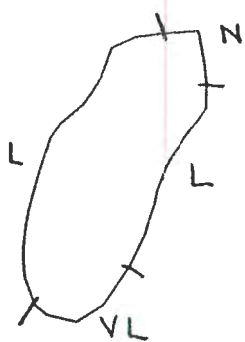
<p style="text-align: center;"> SEGMENT#: KN011 DATE: 10/01/89 LOCATION: BAY OF ISLES, KNIGHT I. TIME: 10:45 </p> <p> Survey Type: Boat, Ground Team: M. Ebel, B. Fitzsimons </p>									
<p><u>WEATHER AND SEA CONDITIONS</u></p> <p> Weather: Cloudy Wind Direction: S Sea State: Moderate Knots: 0-15 </p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Low Tide: 21:11</td> <td style="border: none;">Feet: -0.3</td> <td style="border: none;">High Tide: 2:51</td> <td style="border: none;">Feet: 11.7</td> </tr> <tr> <td style="border: none;">Low Tide: 8:43</td> <td style="border: none;">Feet: 1.46</td> <td style="border: none;">High Tide: 14:47</td> <td style="border: none;">Feet: 12.9</td> </tr> </table>		Low Tide: 21:11	Feet: -0.3	High Tide: 2:51	Feet: 11.7	Low Tide: 8:43	Feet: 1.46	High Tide: 14:47	Feet: 12.9
Low Tide: 21:11	Feet: -0.3	High Tide: 2:51	Feet: 11.7						
Low Tide: 8:43	Feet: 1.46	High Tide: 14:47	Feet: 12.9						
<p><u>SHORELINE DESCRIPTION</u></p> <p> Shoretypes: H,LR,B (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh) </p> <p> Wave Exposure: H (H=high, M=moderate, L=low) </p> <p> Shoreline Composition: R,B,C (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt) </p>									
<p><u>OIL CHARACTERISTICS</u></p> <p> Degree of Oiling: N,VL,L (N=none, VL=very light, L=Light, M=moderate, H=heavy) </p> <p> Area of Impact: H,M,L (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal) </p> <p> Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil) Max. Oil Penetration: 10 cm (35 = 35 cm or greater) </p> <p> Percent Segment Categorized as Oiled: 80% Presence of Oiled Driftwood (y/n): y </p> <p> Oil Types: M,SY,T,A,ST (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain) </p> <p> Samples: KN011-1 / KN011-2 / none / none </p>									
<p><u>DAMAGED OR OILED ORGANISMS</u></p> <p> Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): - Dead Mammals: 0 Dead Birds: 0 </p>									
<p><u>SOLID WASTE FOUND</u></p> <p> Type: None </p> <p> Bags Collected: 0 </p>									

Draft

Printed: 12/12/89 11:28

K N O 1 1

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN012 DATE: 10/01/89
LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 9:47

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: S
Sea State: Calm Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

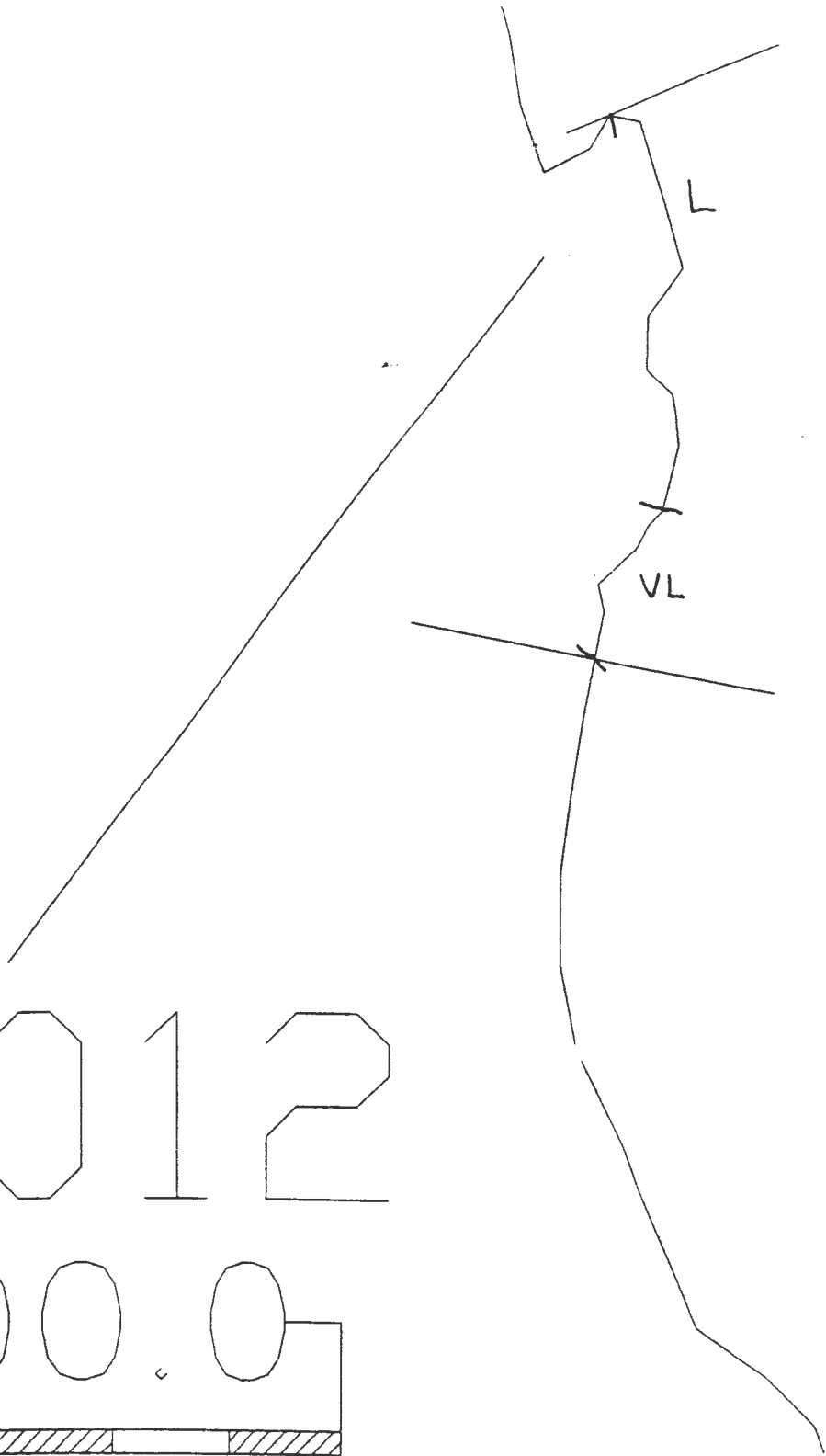
Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN012-1 / KN012-2 / none / none

DAMAGED OR OILED ORGANISMS

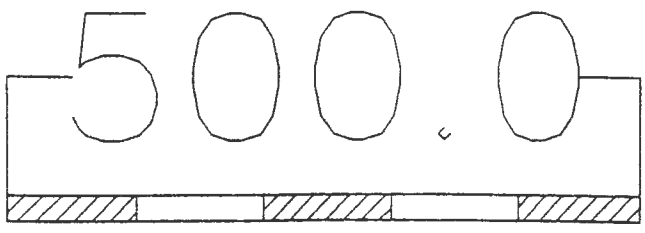
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN012



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN013 DATE: 10/01/89
LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 9:38

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: S
Sea State: Calm Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

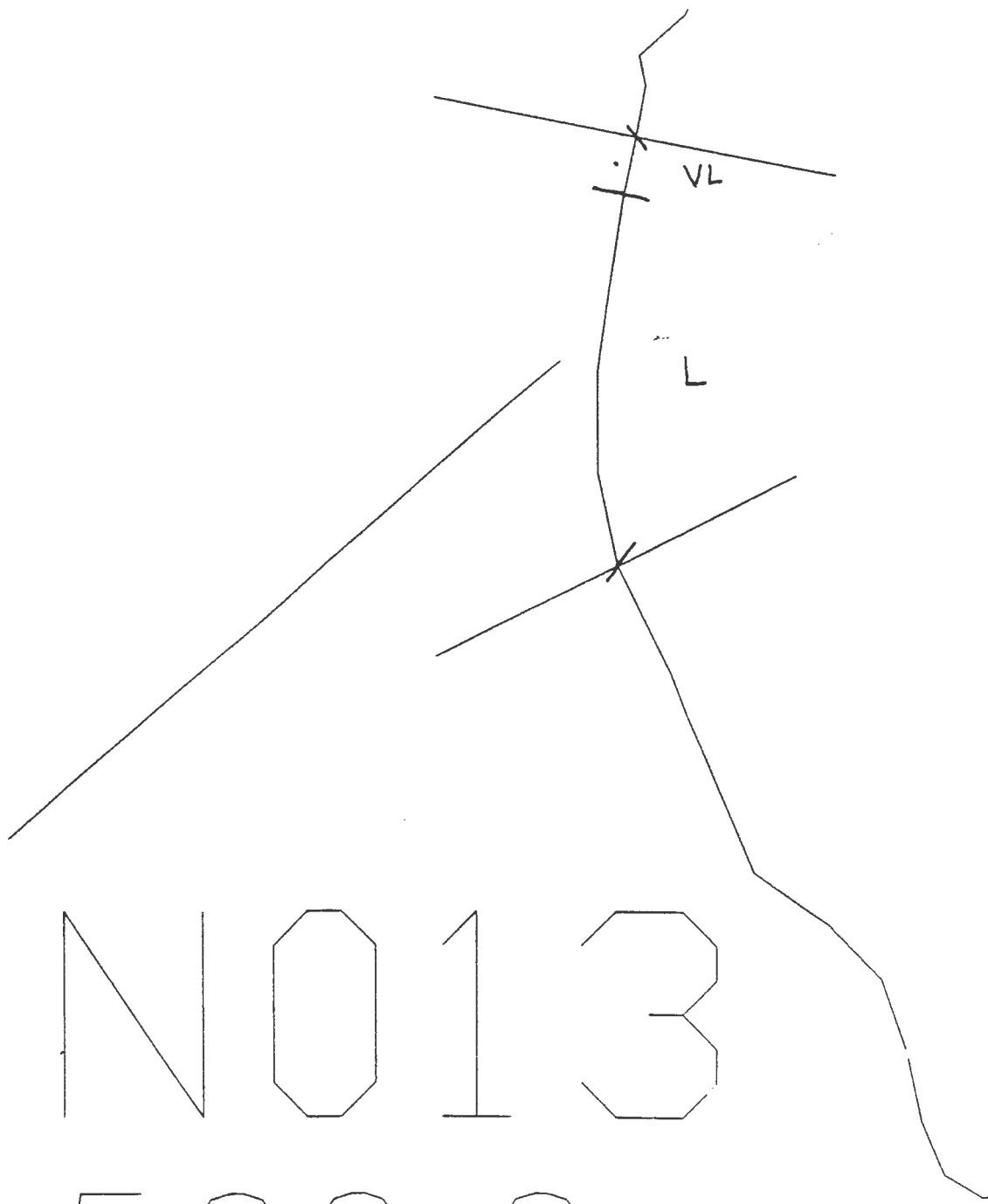
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

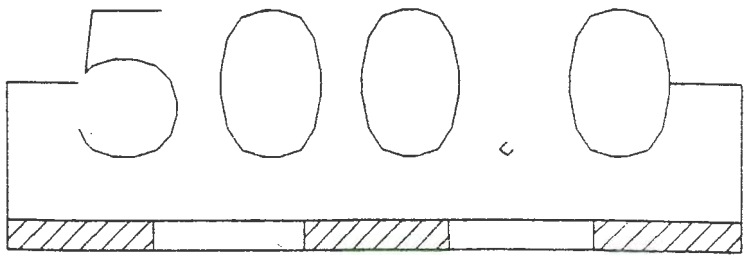
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN013



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN014 DATE: 10/01/89
 LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 8:57

Survey Type: Boat, Ground
 Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy		Wind Direction: S	
Sea State: Calm		Knots: 0-15	
Low Tide: 21:11	Feet: -0.3	High Tide: 2:51	Feet: 11.7
Low Tide: 8:43	Feet: 1.46	High Tide: 14:47	Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

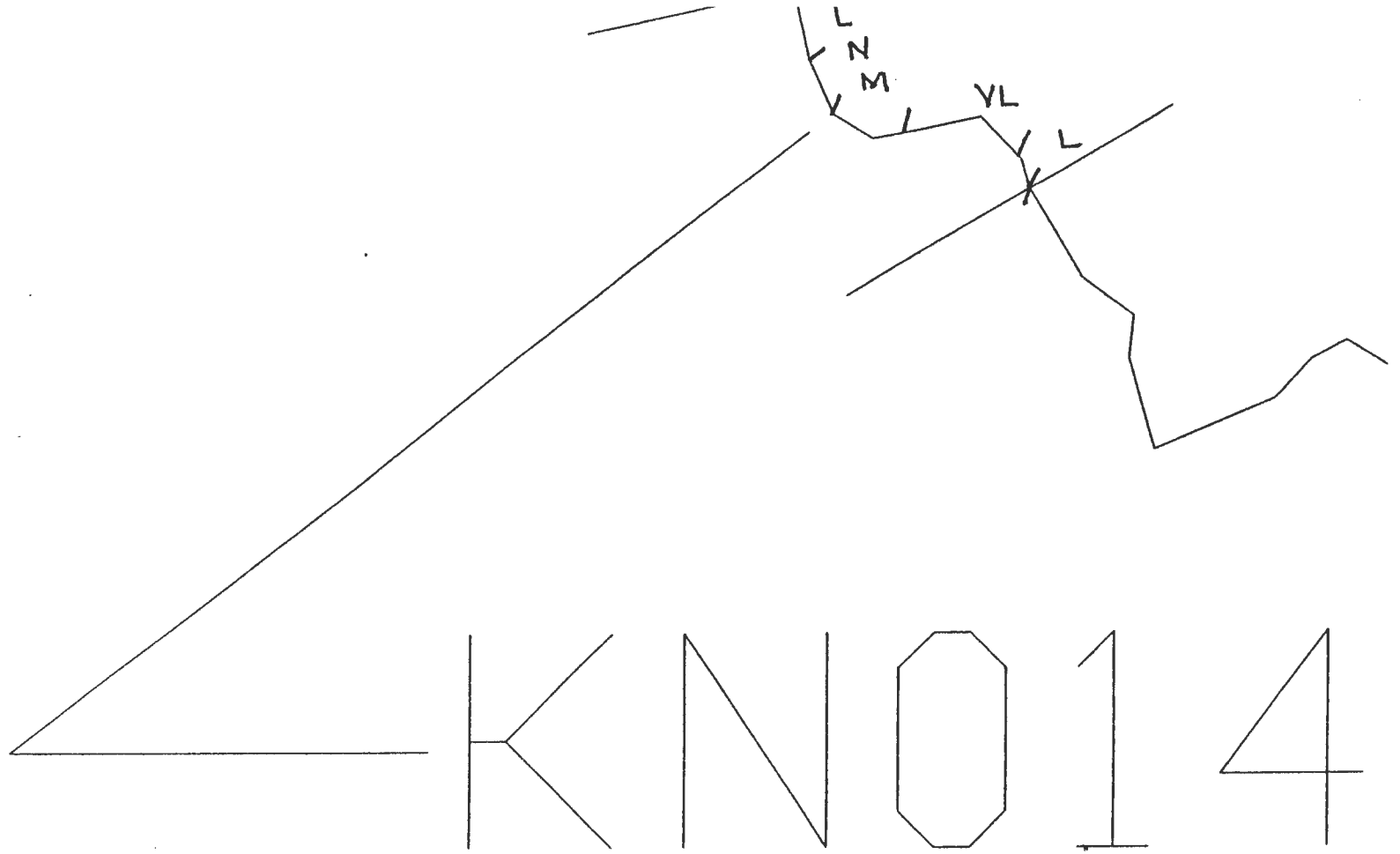
Degree of Oiling: N,VL,L,M
 (N=none, VL=very light, L=light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

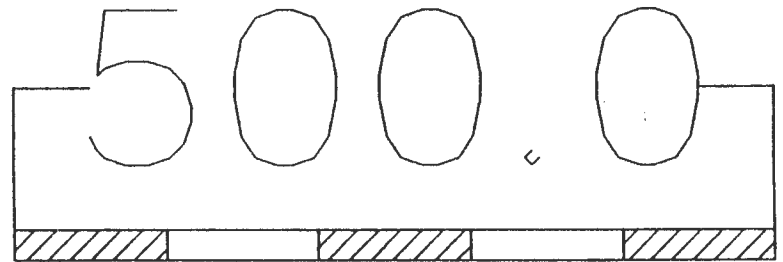
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



K N O 1 4



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN015 DATE: 09/30/89
LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 19:29

Survey Type: Boat, Ground
Team: B. McCready, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN015-1 / KN015-2 / none / none

DAMAGED OR OILED ORGANISMS

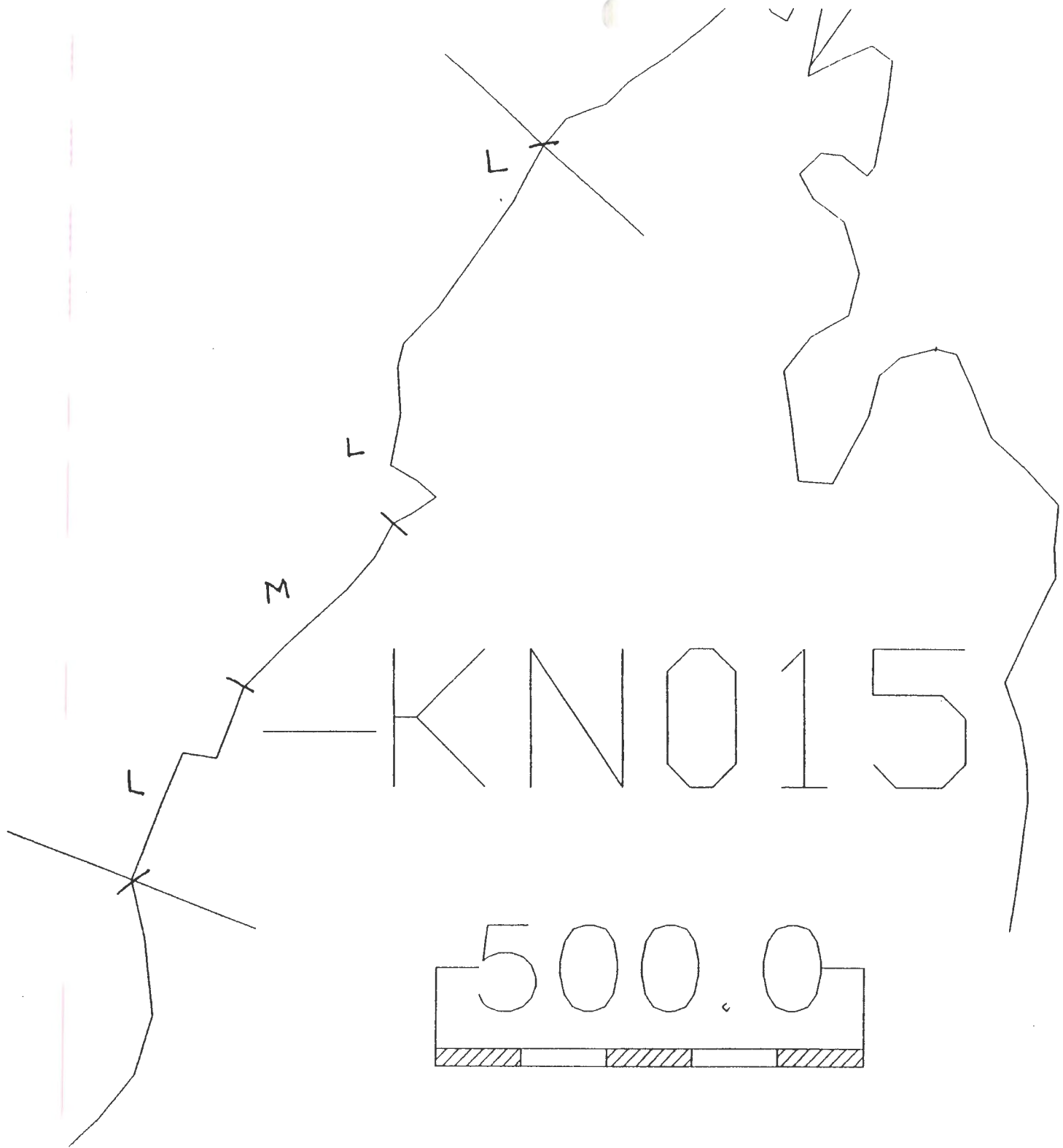
Fucus (y/n): y Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:29



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN017 DATE: 10/01/89
LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 9:15

Survey Type: Boat, Ground
Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: S
Sea State: Moderate Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

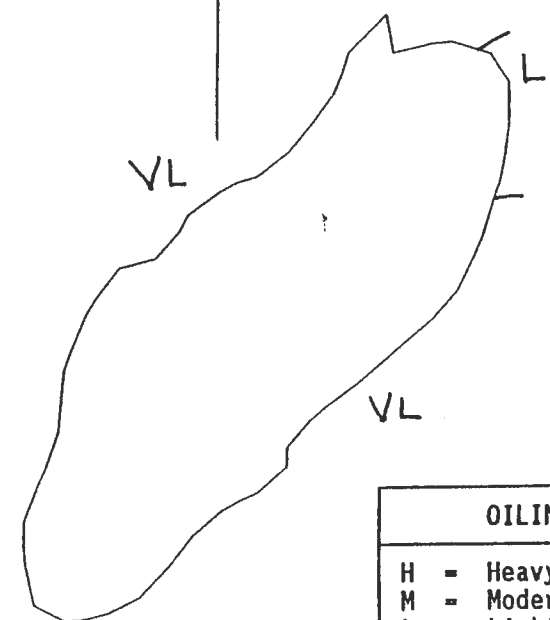
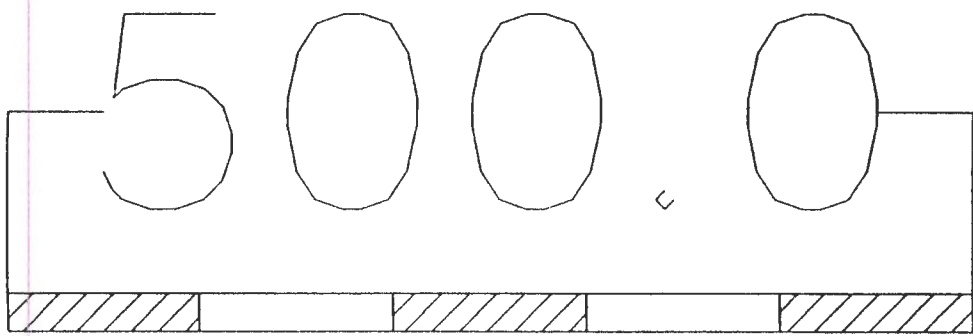
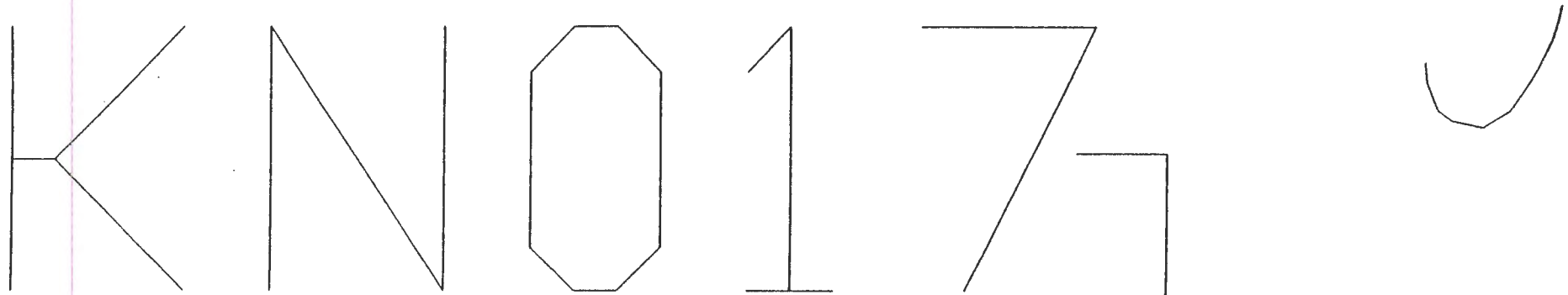
Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN017-1 / KN017-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN018 DATE: 09/20/89
LOCATION: N BAY OF ISLES, KNIGHT I. TIME: 10:48

Survey Type: Boat, Ground
Team: B. McCreedy, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NE
Sea State: Moderate Knots: 0-15
Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

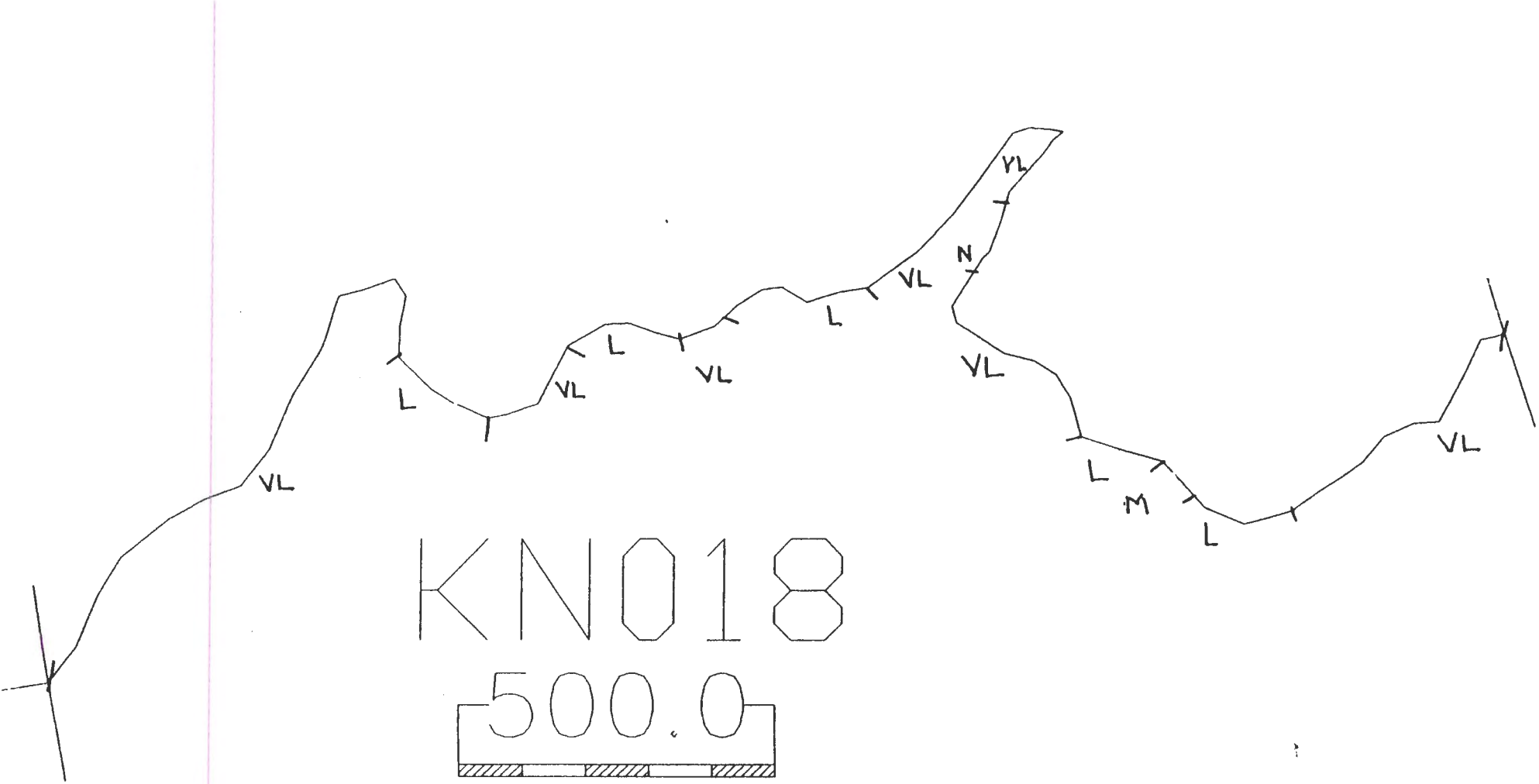
Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN018-1 / KN018-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



A legend box titled 'OILING' with a north arrow to its right. The legend lists the following categories:

- H - Heavy
- M - Moderate
- L - Light
- VL - Very Light
- N - None
- NS - Not Surveyed

Below the legend, the text 'Distance In Meters' is written. To the left of the legend is a small, irregular shape representing a map of the area.

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN019 DATE: 09/20/89
LOCATION: N BAY OF ISLES, KNIGHT I. TIME: 11:45

Survey Type: Boat, Ground
Team: D. Zobrist, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Calm Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

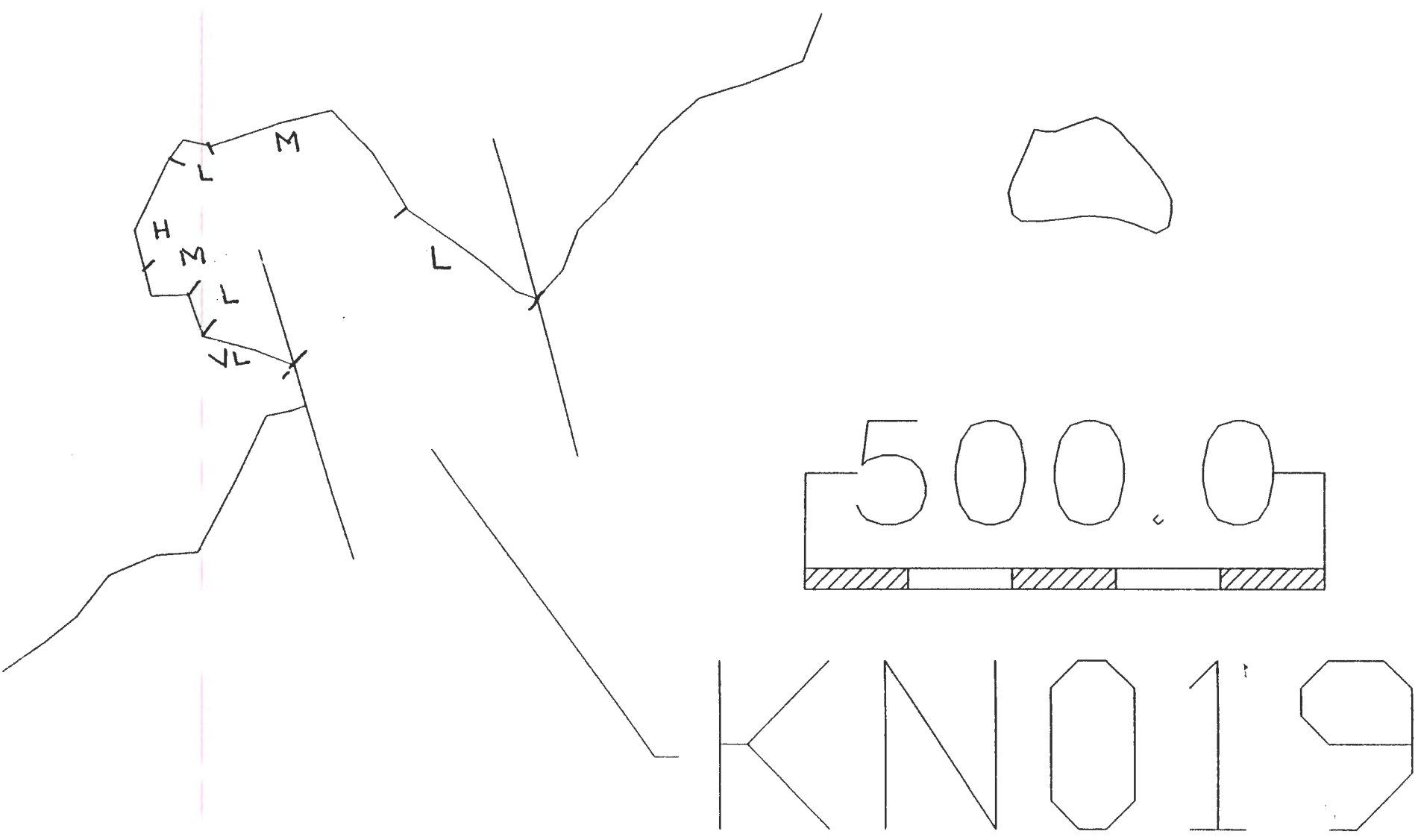
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN019-1 / KN019-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): n Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN020
LOCATION: NE KNIGHT ISLAND

DATE: 09/20/89
TIME: 12:27

Survey Type: Boat
Team: D. Zobrist, B. McCreedy

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain
Sea State: Moderate

Wind Direction: NE
Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n

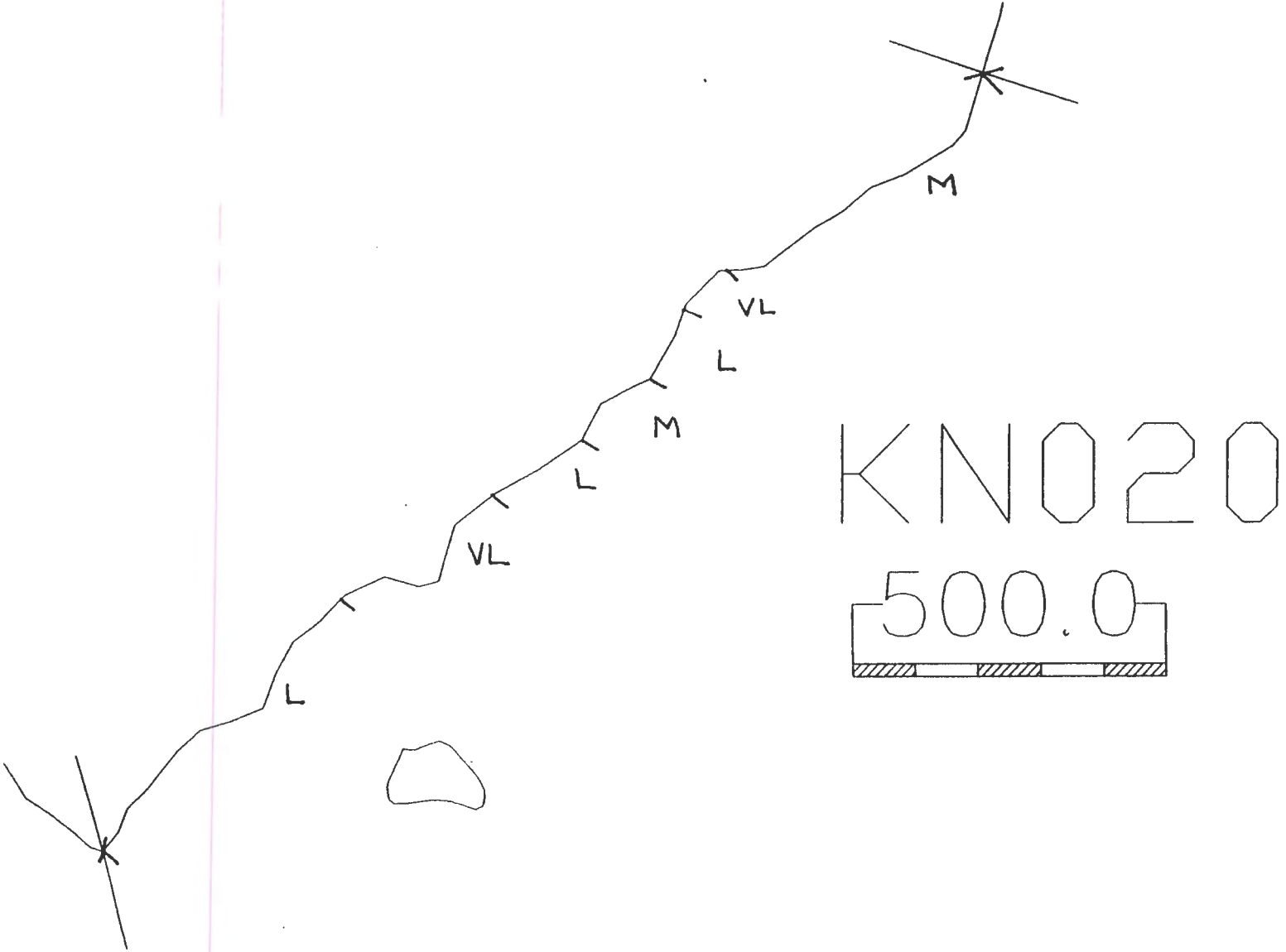
Oil Types: T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN020
500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN021 DATE: 09/20/89
LOCATION: ISLAND OFF NE KNIGHT I. TIME: 12:27

Survey Type: Boat
Team: D. Zobrist, B. McCreedy

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

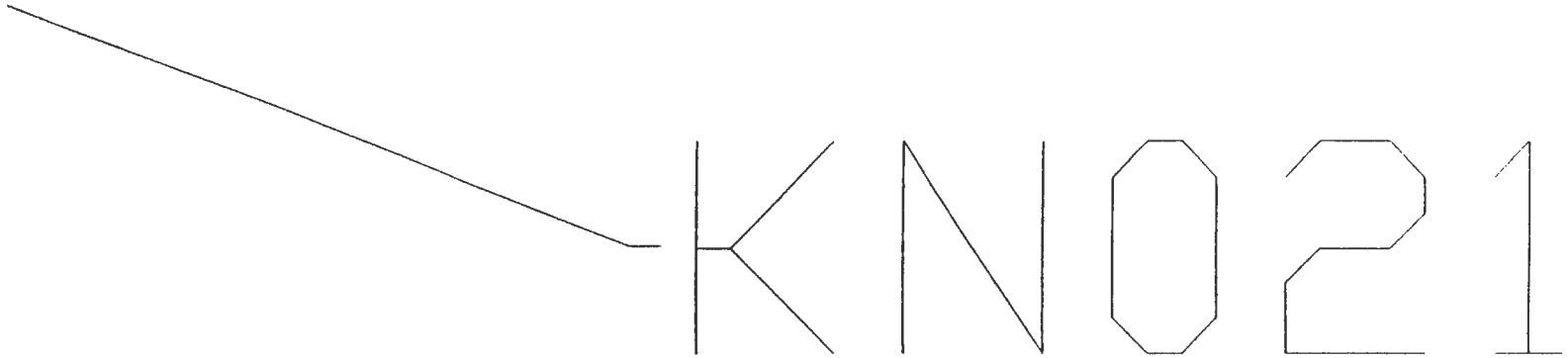
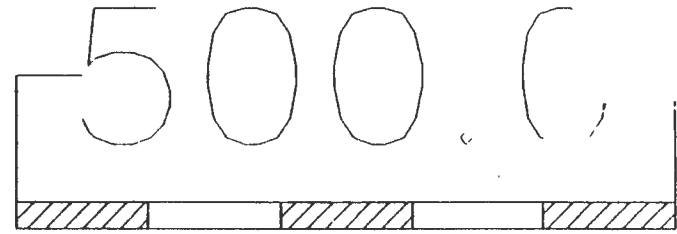
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN024 DATE: 09/30/89
LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 19:10

Survey Type: Boat, Ground
Team: B. McCready, M. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

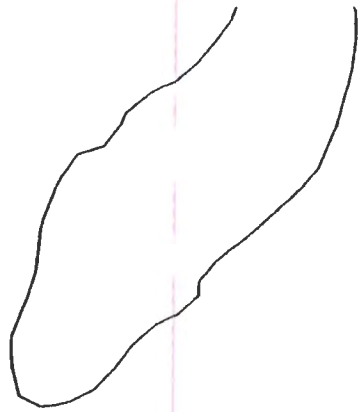
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN024-1 / KN024-2 / none / none

DAMAGED OR OILED ORGANISMS

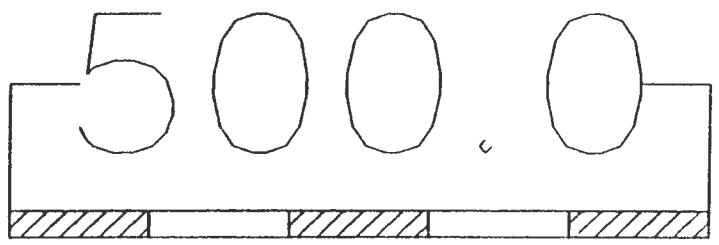
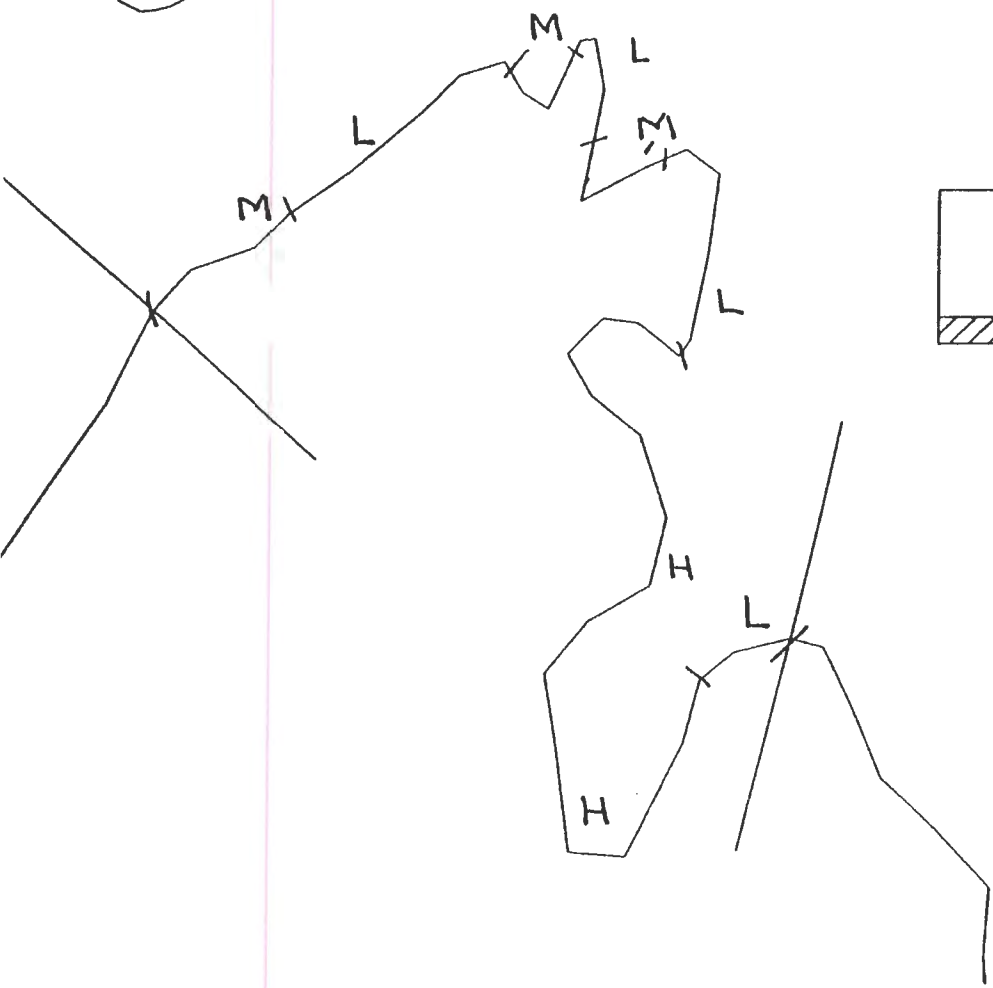
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, garbage
Bags Collected: 0



AKN024



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN025
 LOCATION: NE KNIGHT ISLAND

DATE: 09/18/89
 TIME: 8:00

Survey Type: Boat, Ground
 Team: M. Cunningham, P. Montensano, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 9:45	Feet: 0.54	High Tide: 15:53	Feet: 14.5
Low Tide: 22:25	Feet: -1.9	High Tide: 3:54	Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S,M
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 3 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: M,SY,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN025-1 / KN025-2 / none / none

DAMAGED OR OILED ORGANISMS

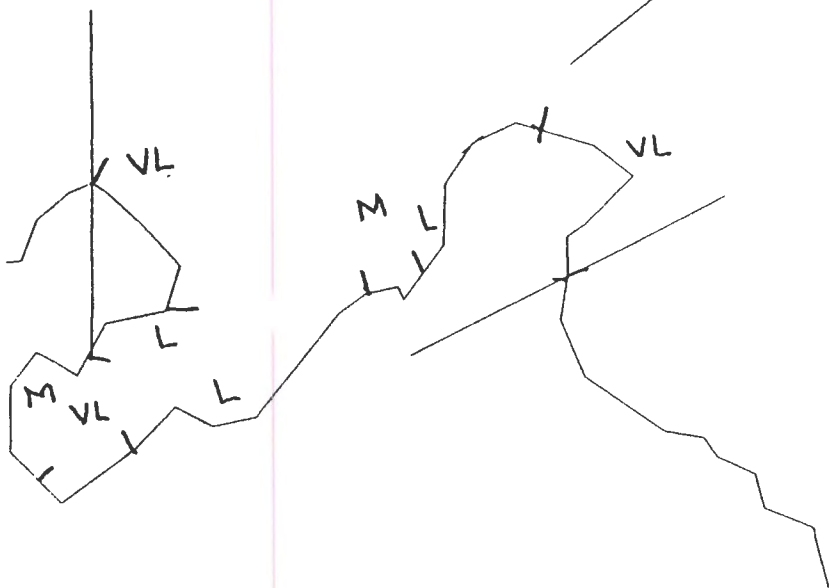
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
 Bags Collected: 1

KN025

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN026 DATE: 10/19/89
LOCATION: BAY OF ISLES, KNIGHT I. TIME: 12:09

Survey Type: Boat, Ground
Team: J. Hayes, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15
Low Tide: 10:55 Feet: 4.35 High Tide: 16:51 Feet: 13.2
Low Tide: 23:52 Feet: 0. High Tide: 5:34 Feet: 10.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

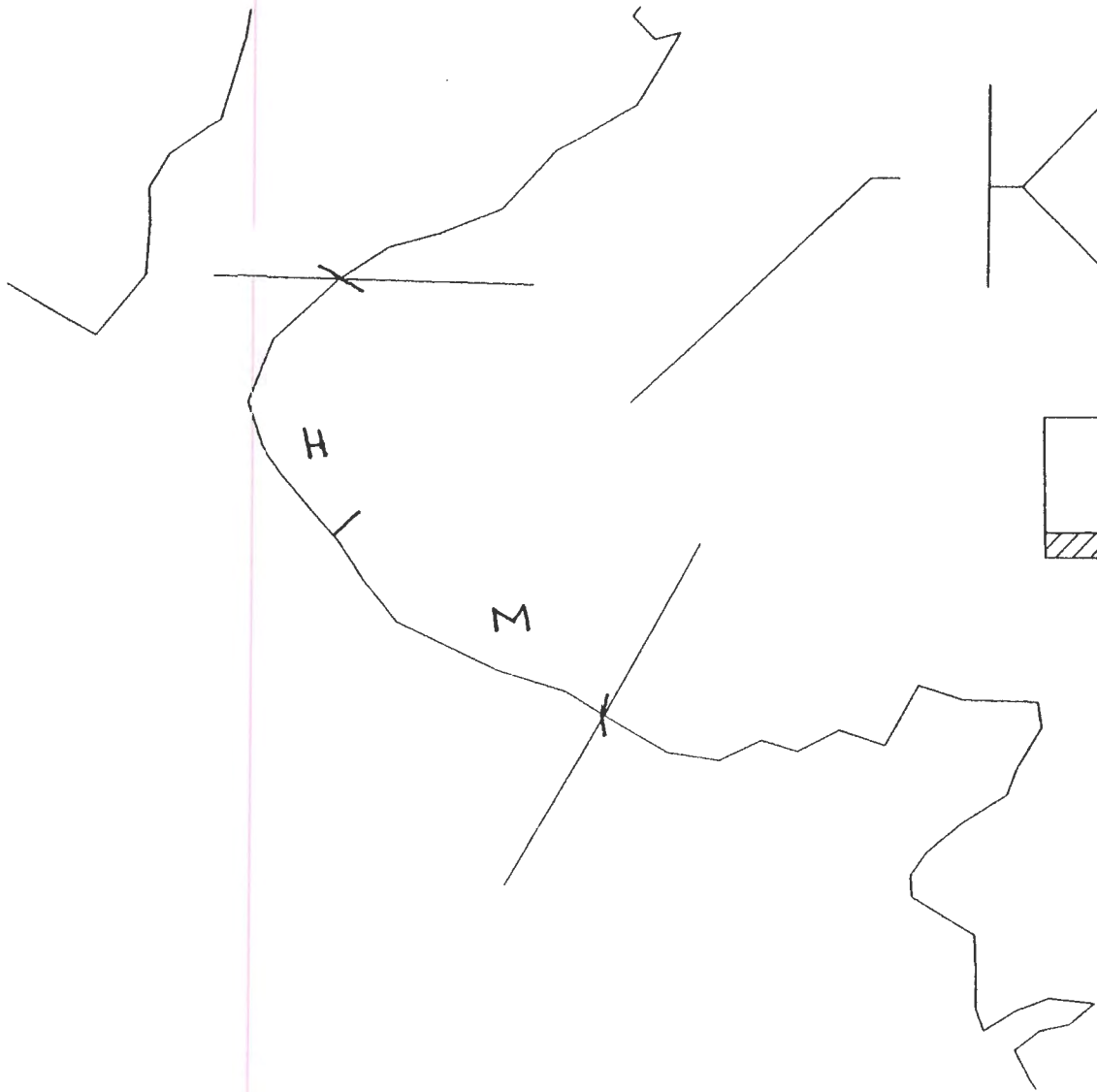
Degree of Oiling: M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

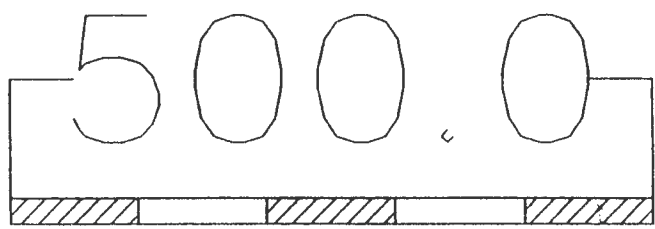
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, garbage
Bags Collected: 0



KN26



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN101
LOCATION: NE KNIGHT ISLAND

DATE: 09/19/89
TIME: 11:05

Survey Type: Boat, Ground
Team: J. Krieger, C. Pavia, G. Winter, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 10:26 Feet: 1.83 High Tide: 16:31 Feet: 14.1
Low Tide: 23:16 Feet: -1.1 High Tide: 4:43 Feet: 11.6

SHORELINE DESCRIPTION

Shoretypes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 1

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN102 DATE: 09/19/89
 LOCATION: LOWER PASSAGE, KNIGHT I. TIME: 8:50

Survey Type: Boat, Ground
 Team: J. Krieger, C. Pavia, G. Winter, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
 Sea State: Moderate Knots: 0-15

Low Tide: 10:26 Feet: 1.83 High Tide: 16:31 Feet: 14.1
 Low Tide: 23:16 Feet: -1.1 High Tide: 4:43 Feet: 11.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

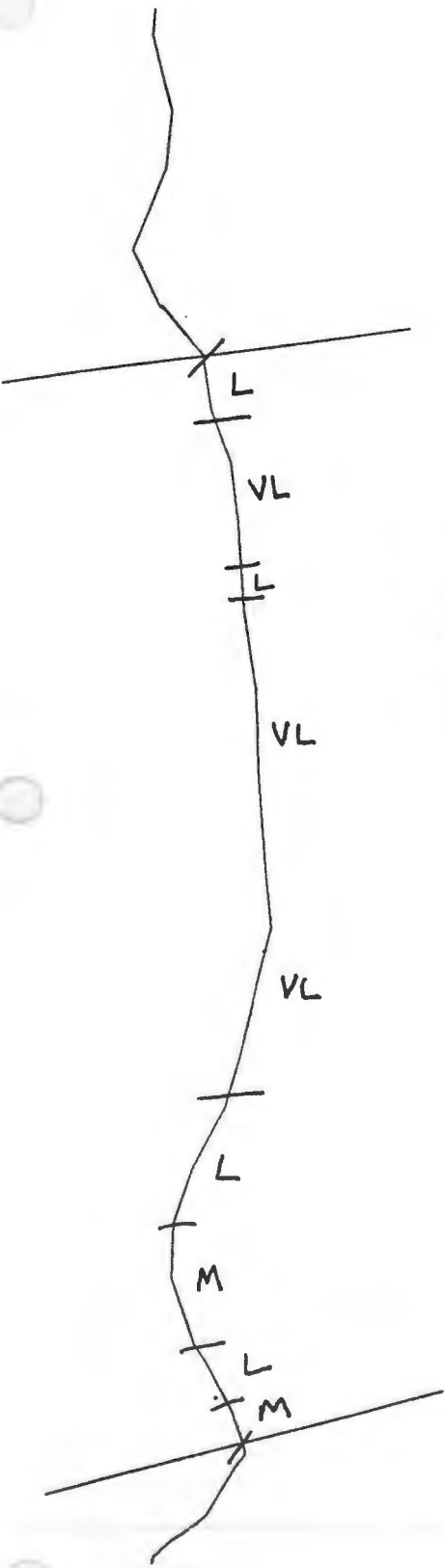
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: M,SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN103-1 / KN103-2 / none / none

DAMAGED OR OILED ORGANISMS

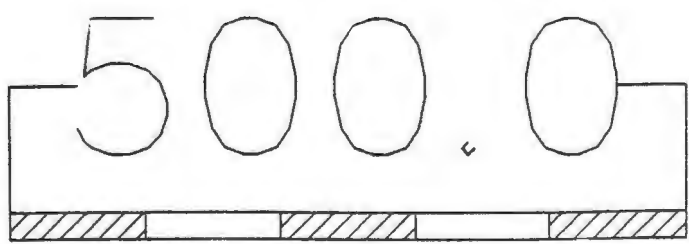
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, other
 Bags Collected: 0



KN102



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN103 DATE: 09/19/89
LOCATION: LOWER PASSAGE, KNIGHT I. TIME: 8:50

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher, G. Winter, C. Pavia

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15
Low Tide: 10:26 Feet: 1.83 High Tide: 16:31 Feet: 14.1
Low Tide: 23:16 Feet: -1.1 High Tide: 4:43 Feet: 11.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN103-1 / KN103-2 / none / none

DAMAGED OR OILED ORGANISMS

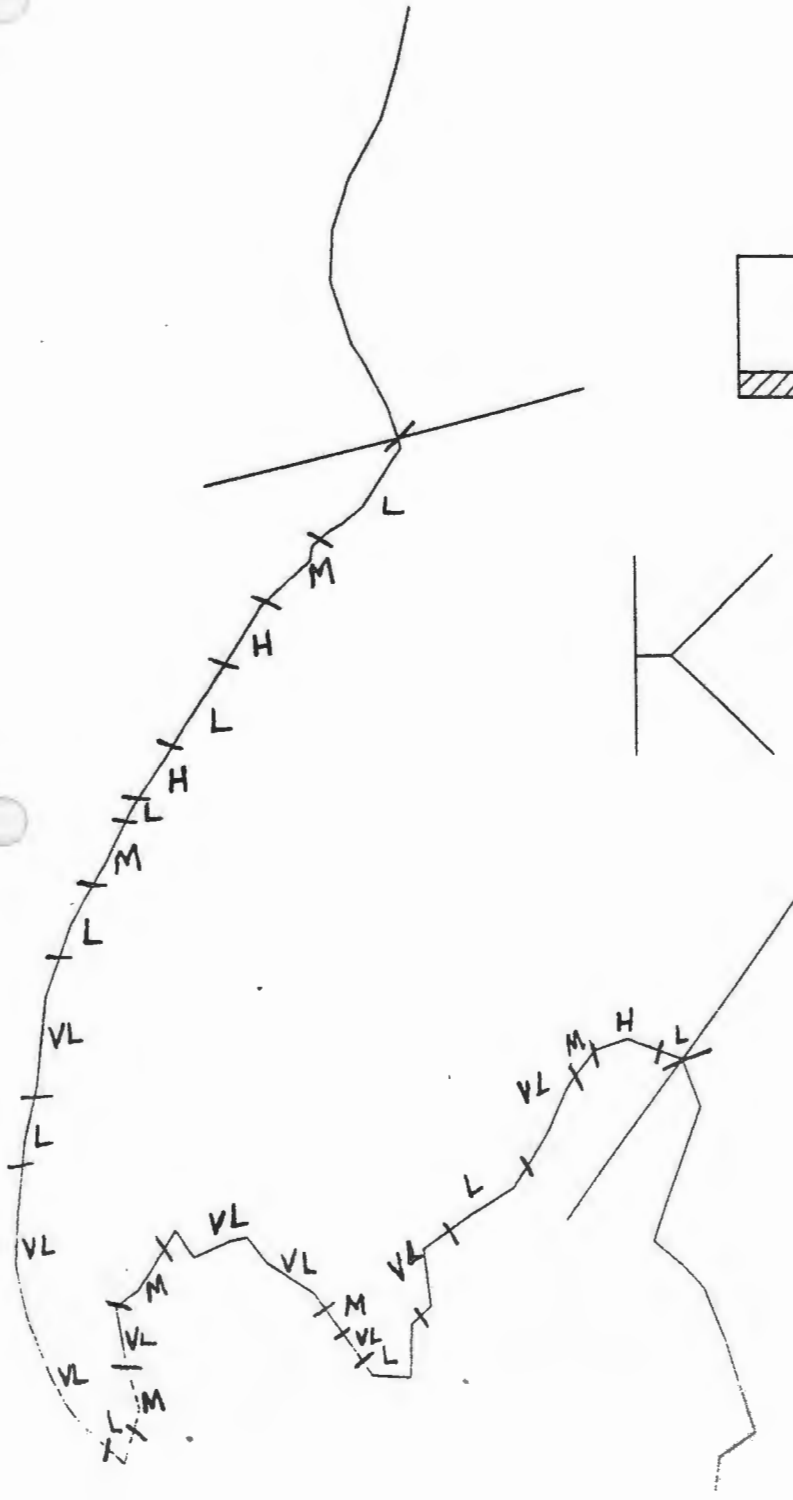
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, flagging tape
Bags Collected: 0

500.0

KN103



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN104 DATE: 09/18/89
LOCATION: LOWER PASSAGE, KNIGHT I. TIME: 11:30

Survey Type: Boat, Ground
Team: H. Wood, P. Mantasano

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN104-1 / KN104-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

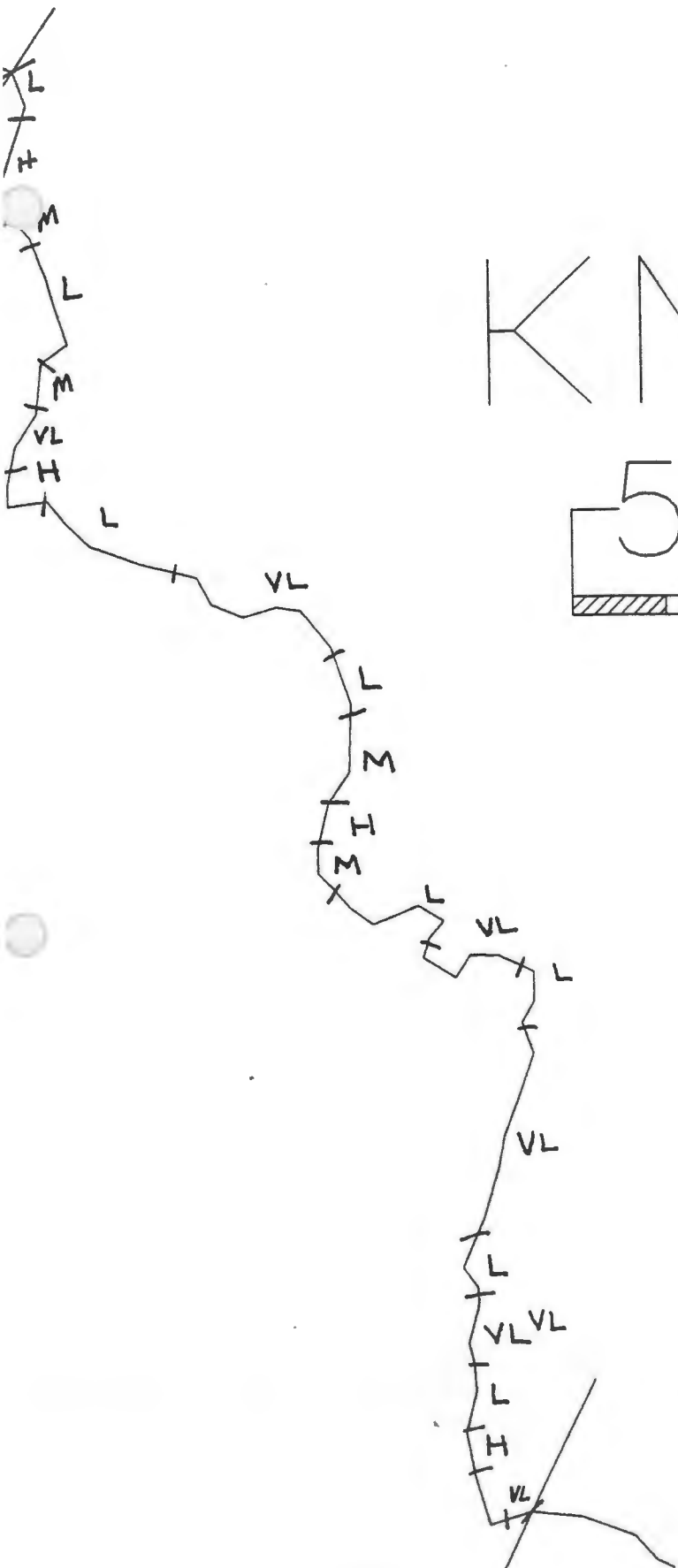
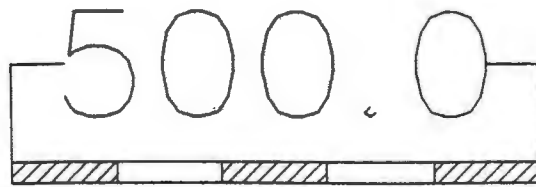
SOLID WASTE FOUND

Type: One locality, boom

Bags Collected: 0

KN104

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN105 DATE: 09/18/89
LOCATION: LOWER PASSAGE, KNIGHT I. TIME: 11:12

Survey Type: Boat, ground
Team: H. Wood, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

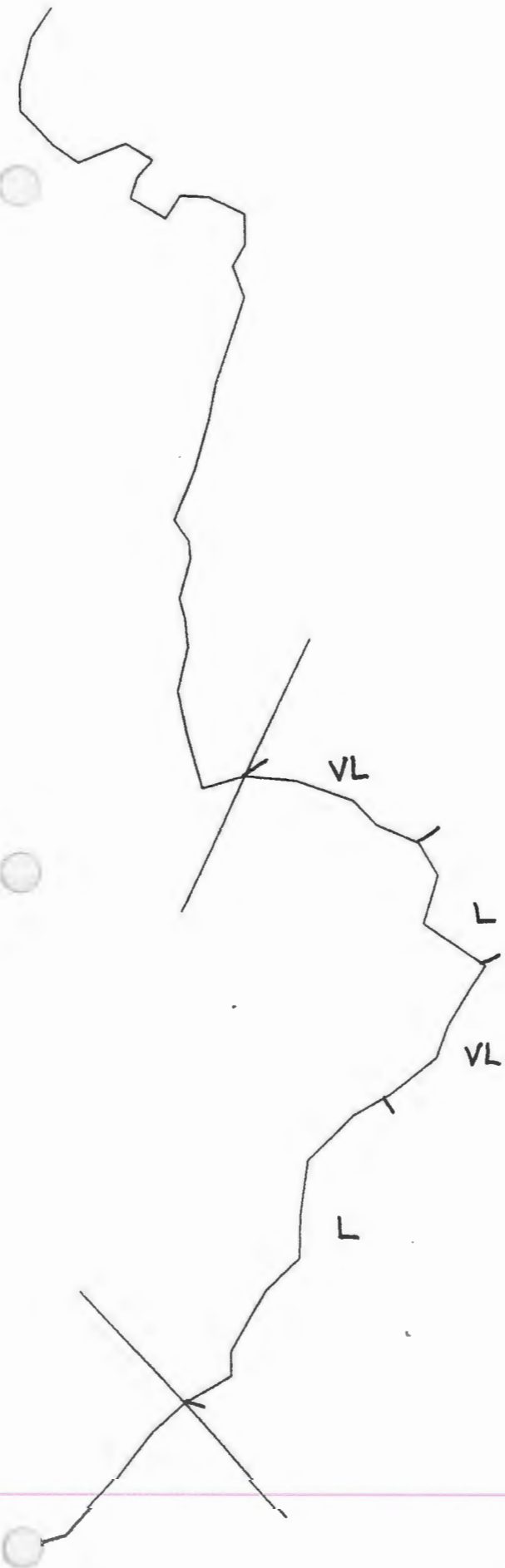
Degree of Oiling: VL,L
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



500.0

KN105

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

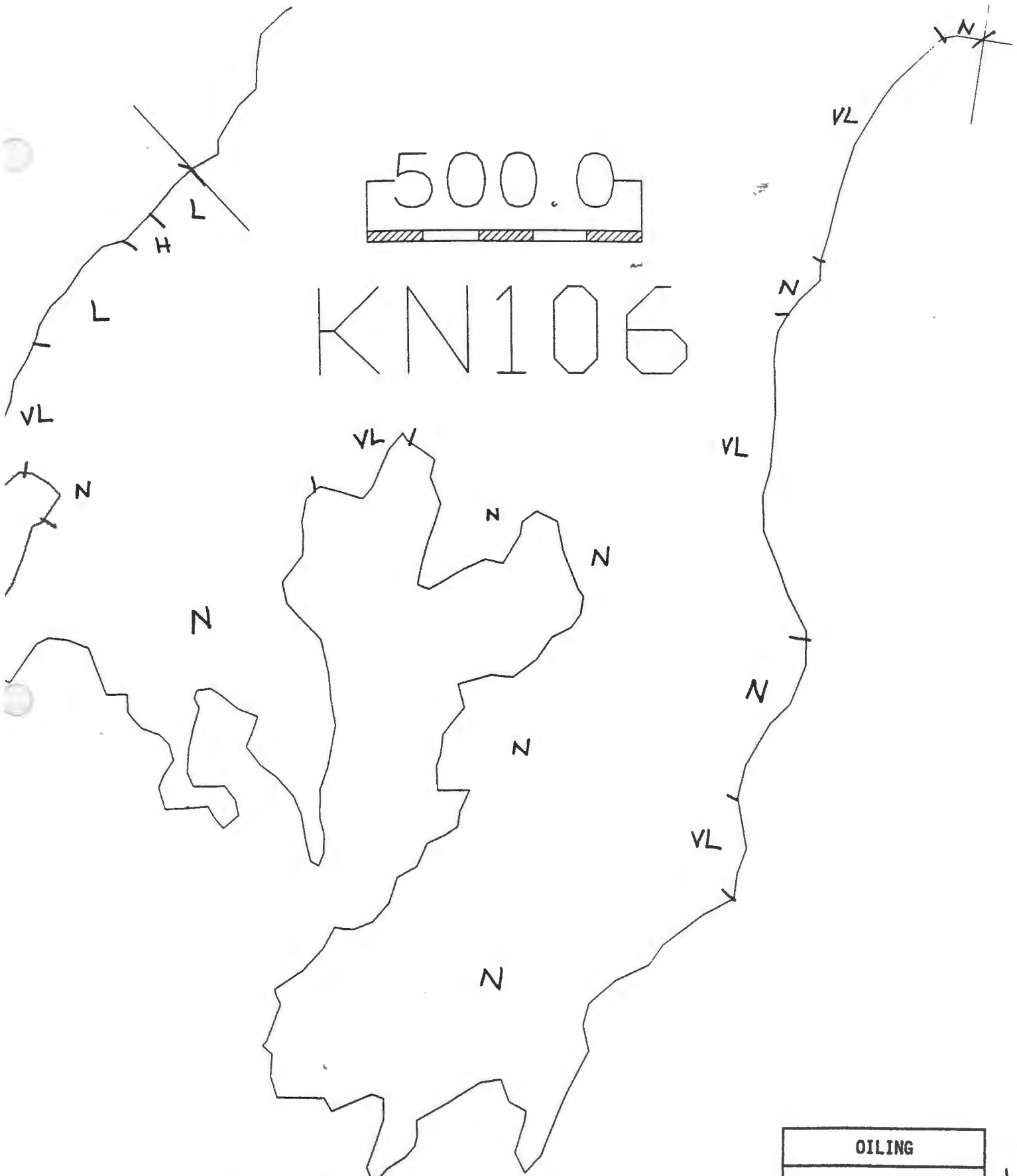


ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN106		DATE: 09/18/89	
LOCATION: LOUIS BAY, KNIGHT ISLAND		TIME: 10:01	
Survey Type: Boat, Ground Team: H. Wood, P. Montesano			
<u>WEATHER AND SEA CONDITIONS</u>			
Weather: Sunny		Wind Direction: 0	
Sea State: Calm		Knots: 0	
Low Tide: 9:45	Feet: 0.54	High Tide: 15:53	Feet: 14.5
Low Tide: 22:25	Feet: -1.9	High Tide: 3:54	Feet: 12.6
<u>SHORELINE DESCRIPTION</u>			
Shoretypes: H,LR,B,C (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)			
Wave Exposure: M,L (H=high, M=moderate, L=low)			
Shoreline Composition: R,B,C,G (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)			
<u>OIL CHARACTERISTICS</u>			
Degree of Oiling: N,VL,L,H (N=none, VL=very light, L=Light, M=moderate, H=heavy)			
Area of Impact: M (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)			
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)			
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)			
Percent Segment Categorized as Oiled: 50%			
Presence of Oiled Driftwood (y/n): y			
Oil Types: T,A,ST (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)			
Samples: KN106-1 / KN106-2 / none / none			
<u>DAMAGED OR OILED ORGANISMS</u>			
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y			
Dead Mammals: 0 Dead Birds: 0			
<u>SOLID WASTE FOUND</u>			
Type: Pom poms			
Bags Collected: 0			

Draft

Printed: 12/12/89 11:30



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN107 DATE: 09/18/89
LOCATION: LOWER PASSAGE, KNIGHT I. TIME: 8:50

Survey Type: Boat, Ground
Team: P. Montesano, M. Cunningham, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 6 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN107-1 / KN107-2 / none / none

DAMAGED OR OILED ORGANISMS

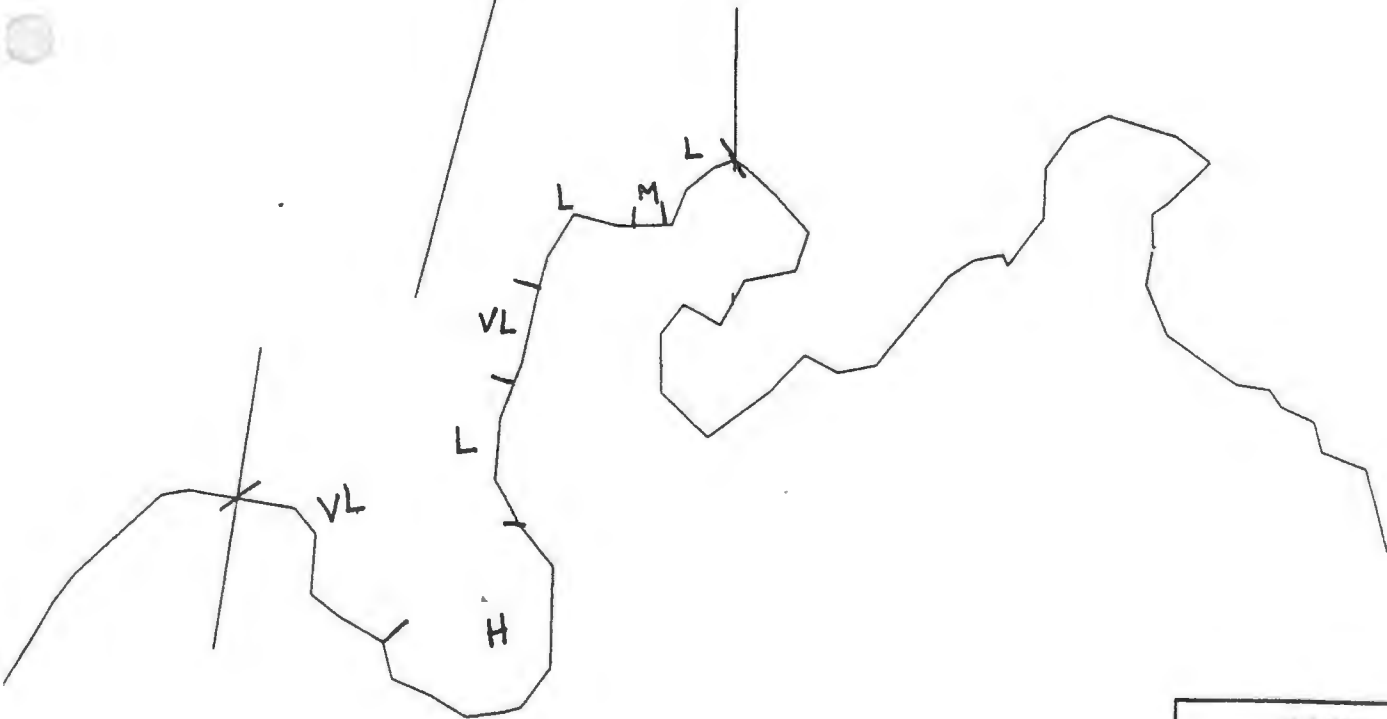
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

500.0

KN107



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN108
LOCATION: NW KNIGHT ISLAND

DATE: 09/16/89
TIME: 9:07

Survey Type: Boat, Ground
Team: P. Endres, J. DuRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN108-1 / KN108-2 / none / none

DAMAGED OR OILED ORGANISMS

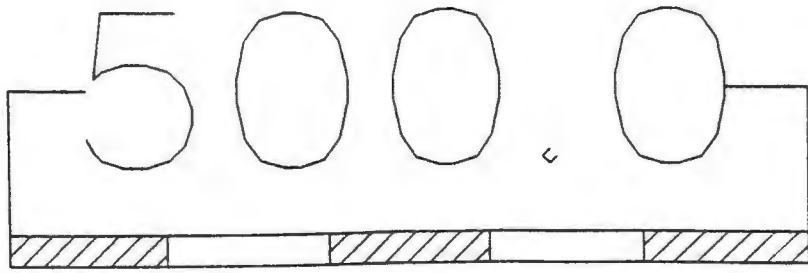
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

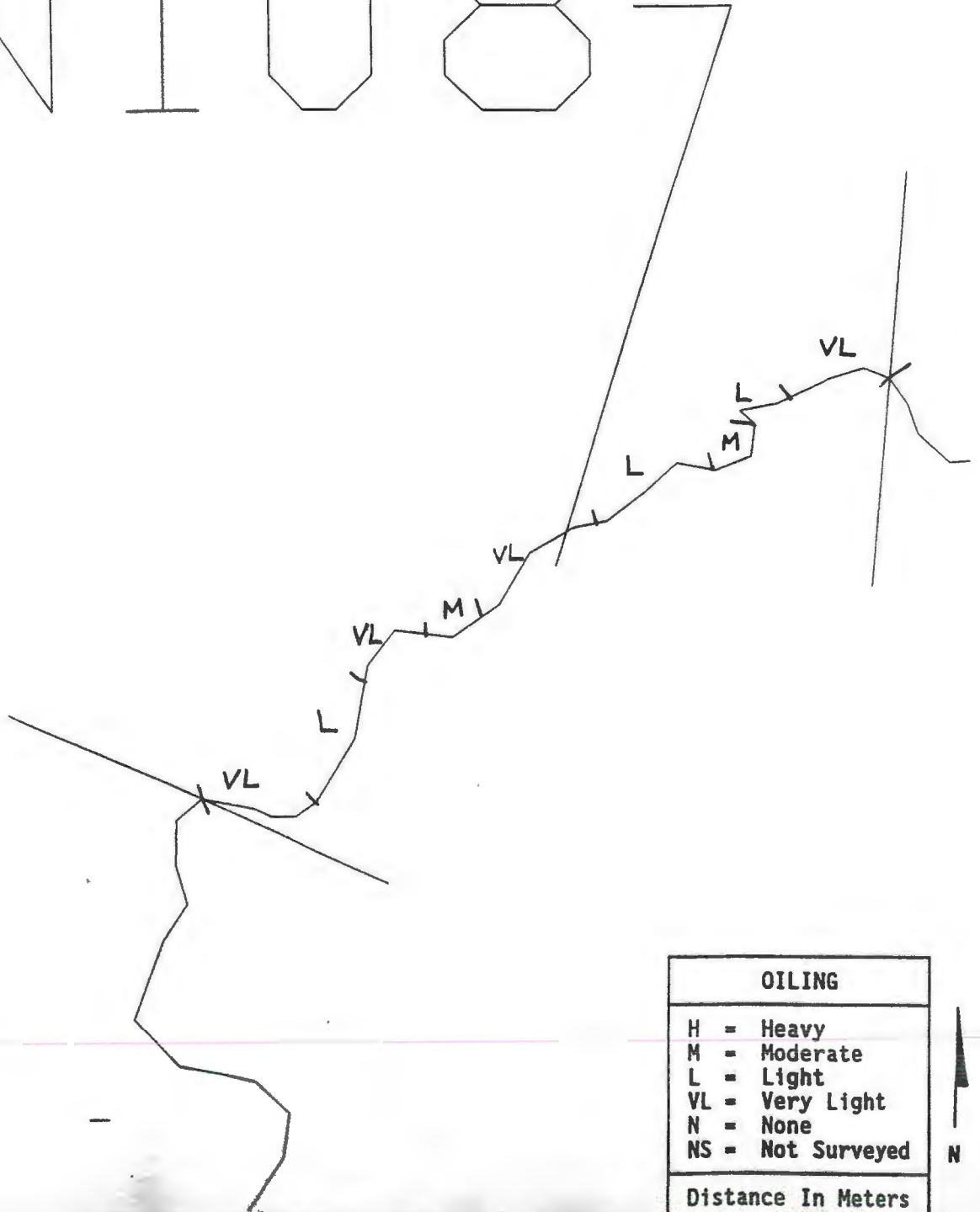
Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:30



KN 108



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN109
LOCATION: NW KNIGHT ISLAND

DATE: 09/16/89
TIME: 10:00

Survey Type: Boat, Ground
Team: P. Endres, M. Ebel, J. DeRuyter

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 6 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN109-1 / KN109-2 / none / none

DAMAGED OR OILED ORGANISMS

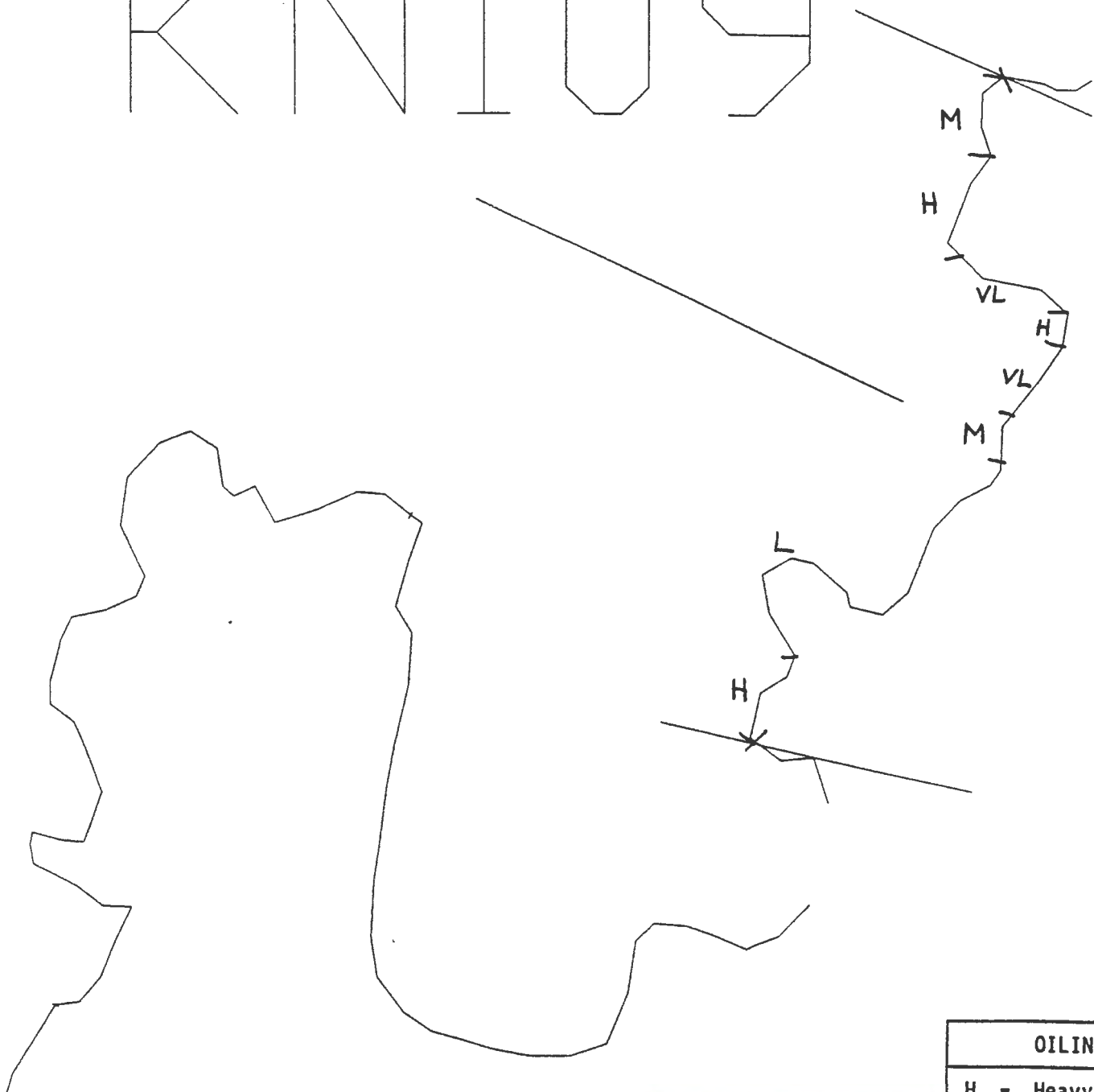
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Many localities
Bags Collected: 0

500.0

KN109



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN110
 LOCATION: NW KNIGHT ISLAND

DATE: 09/16/89
 TIME: 10:28

Survey Type: Boat, Ground
 Team: P. Endres, J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
 Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: M,SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN110-1 / KN110-2 / none / none

DAMAGED OR OILED ORGANISMS

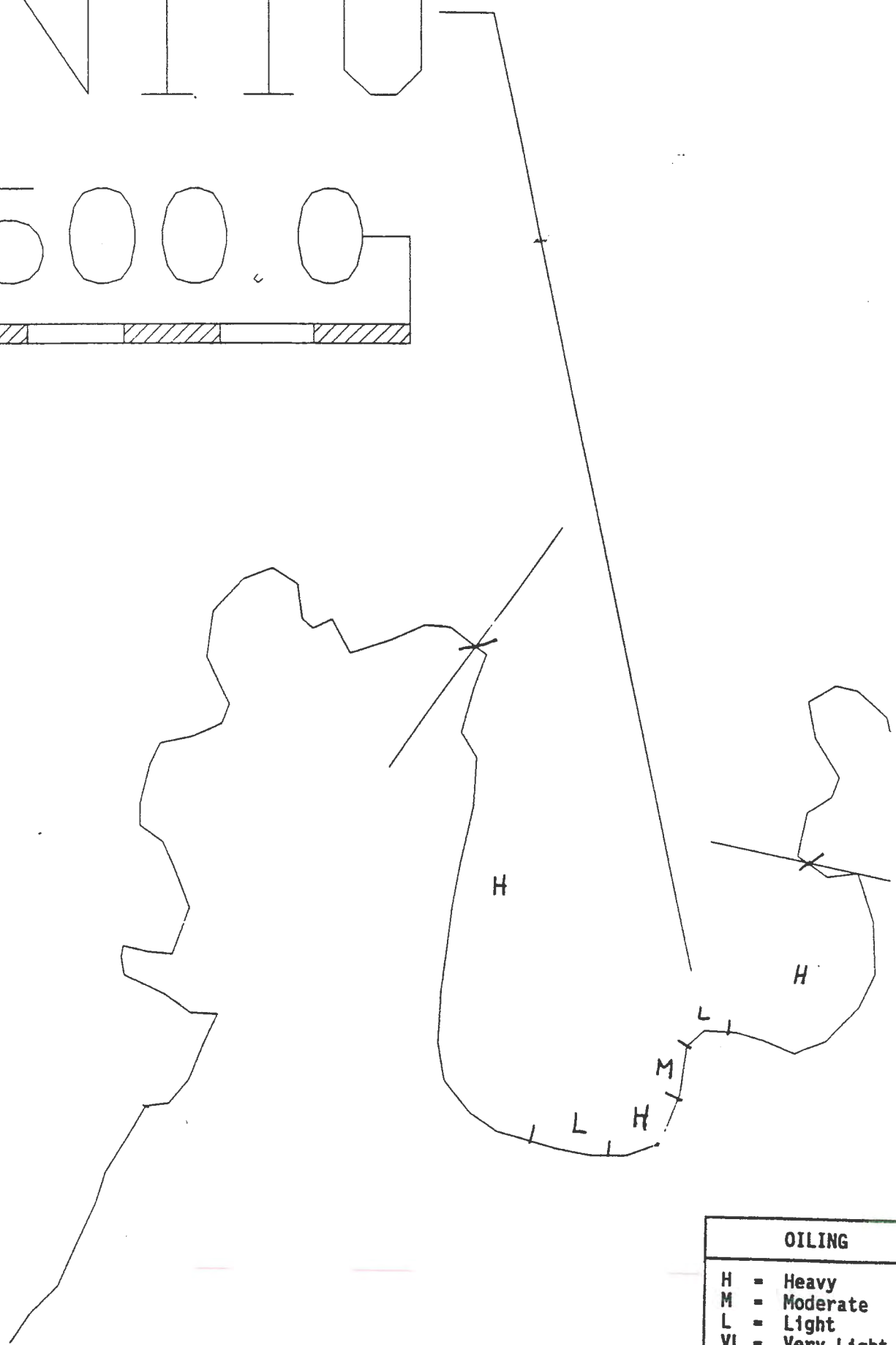
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Boom
 Bags Collected: 0

KN1110

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN111
 LOCATION: NW KNIGHT ISLAND

DATE: 09/16/89
 TIME: 11:29

Survey Type: Boat, Ground
 Team: P. Endres, J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
 Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S,M
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: S,H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

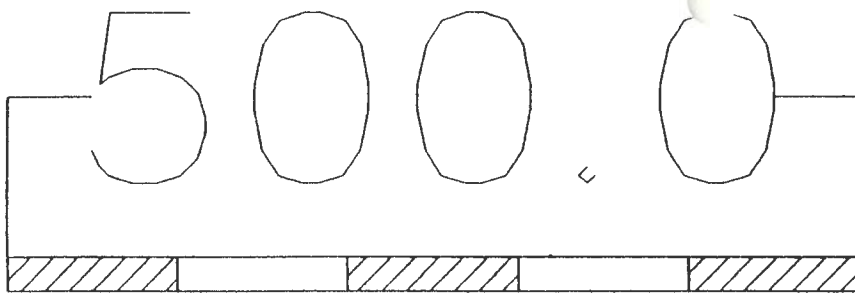
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN111-1 / KN111-2 / none / none

DAMAGED OR OILED ORGANISMS

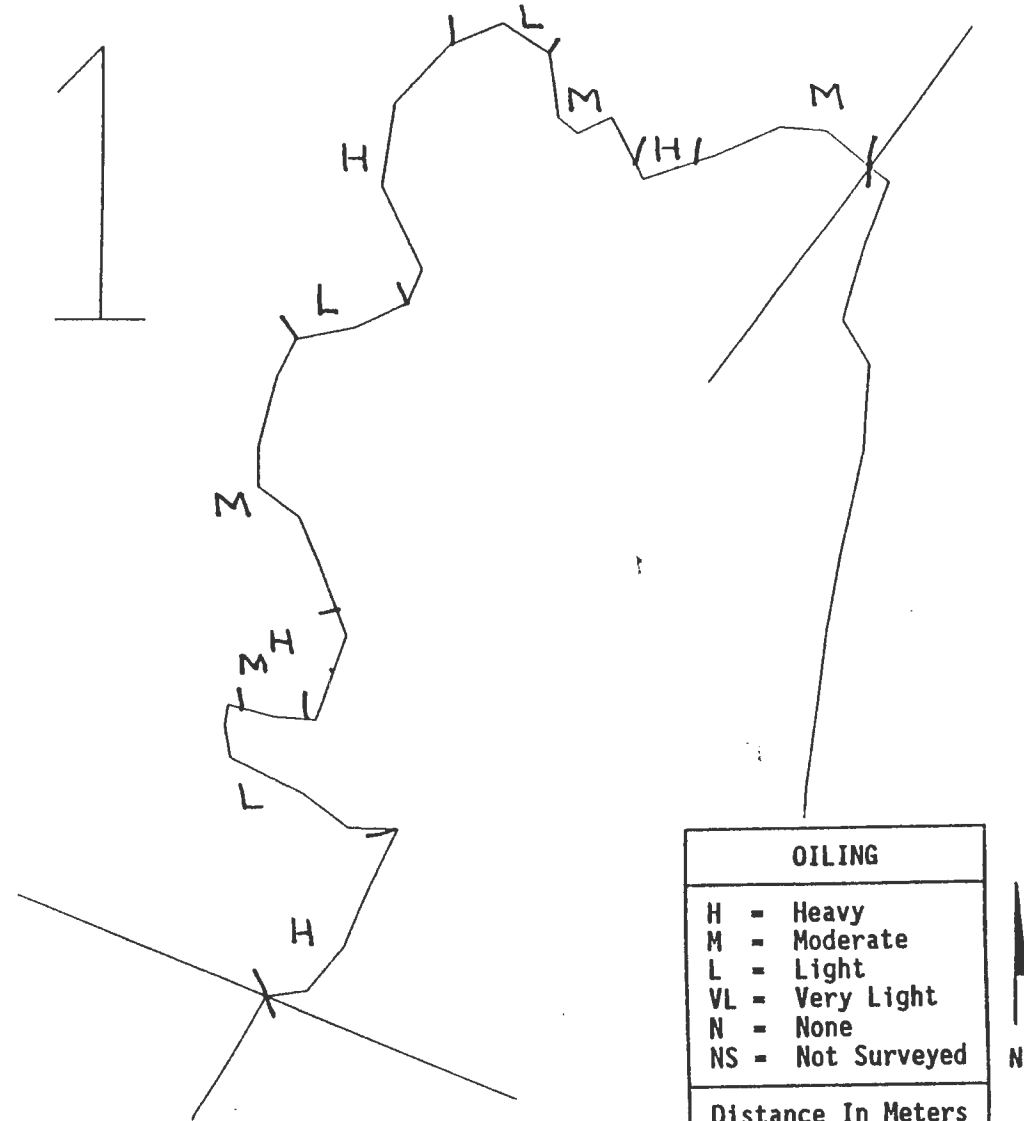
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



KKN111



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN112
 LOCATION: NW KNIGHT ISLAND

DATE: 09/16/89
 TIME: 12:00

Survey Type: Boat, Ground
 Team: P. Endres, J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
 Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
 (N=none, VL=very light, L=light, M=moderate, H=heavy)
 Area of Impact: S,H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

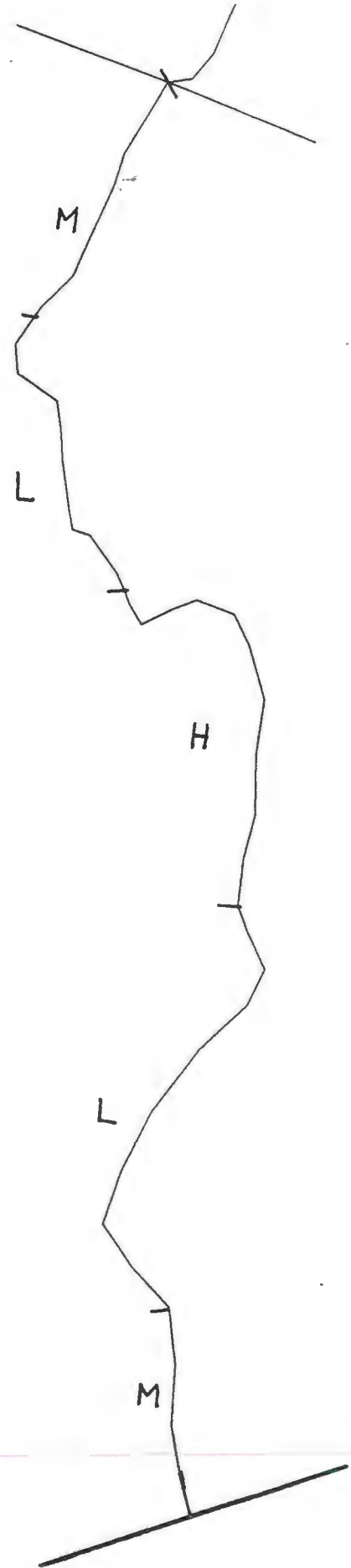
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Many localities, rope
 Bags Collected: 0

500.0

KN112



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters

ADEC Sep/Oct 1989 Survey

ADec EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN113
LOCATION: NW KNIGHT ISLAND

DATE: 09/16/89
TIME: 8:35

Survey Type: Boat, Ground
Team: G. Pavia, D. Zobrist, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN113-1 / KN113-2 / none / none

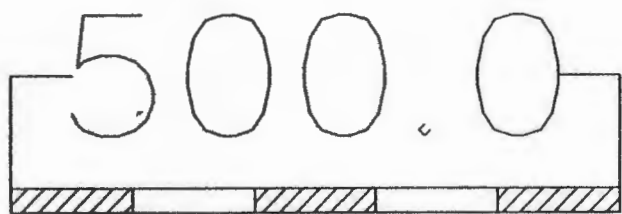
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 1

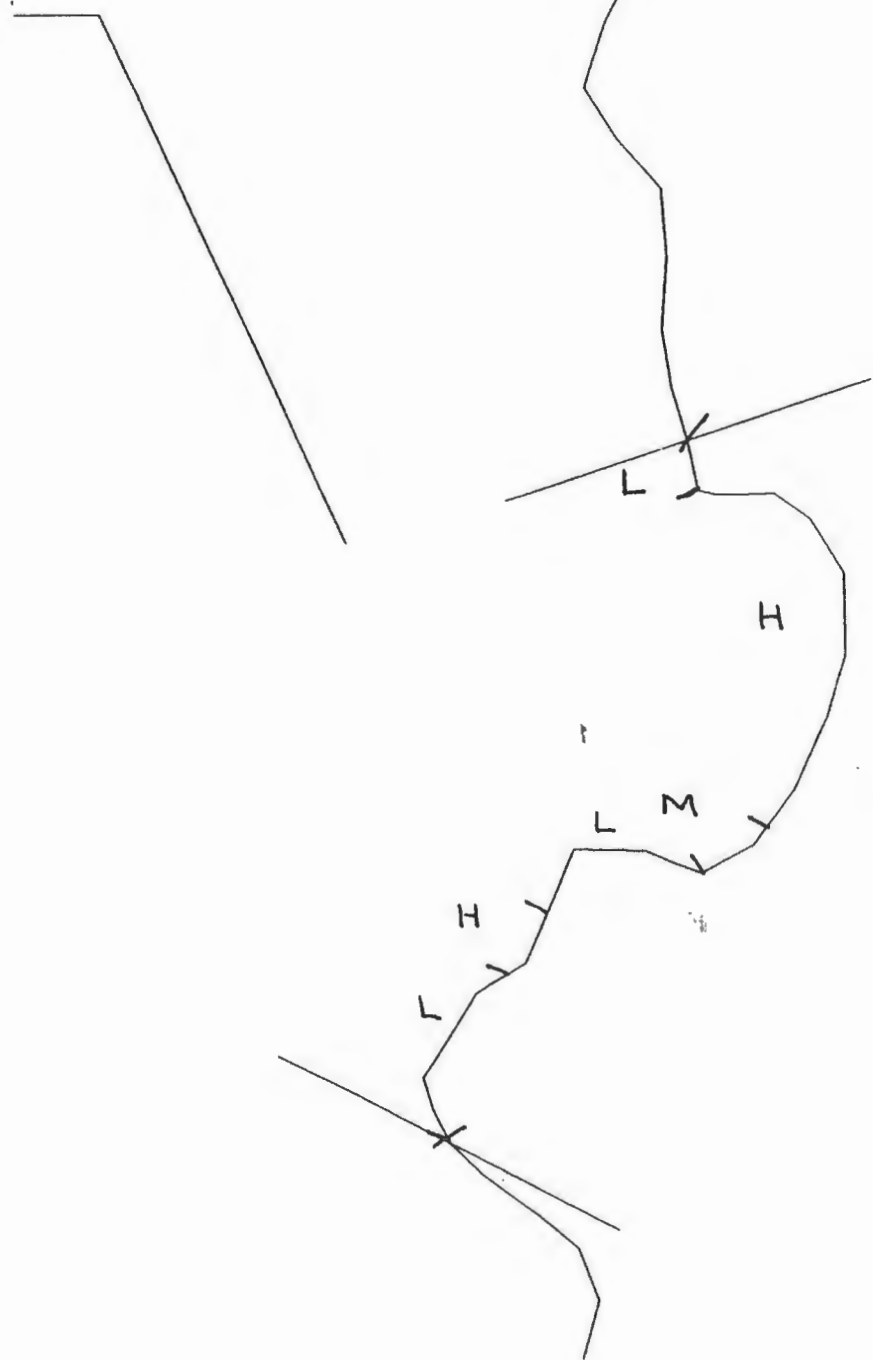
KN113



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN114 DATE: 09/16/89
LOCATION: NE HERRING BAY, KNIGHT I. TIME: 8:21

Survey Type: Boat, Ground
Team: H. Wood, G. Pavia, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NW
Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: P,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN114-1 / KN114-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

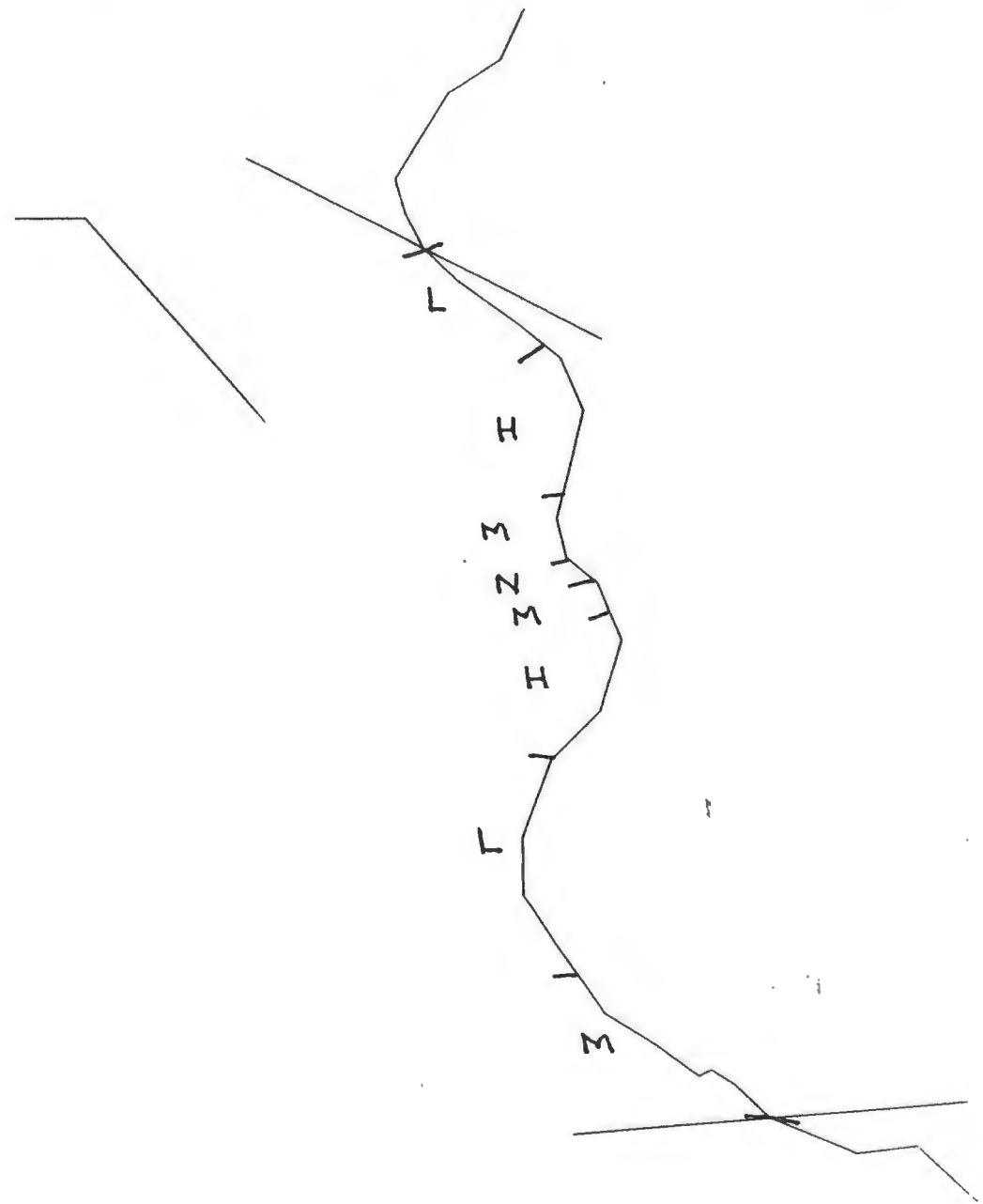
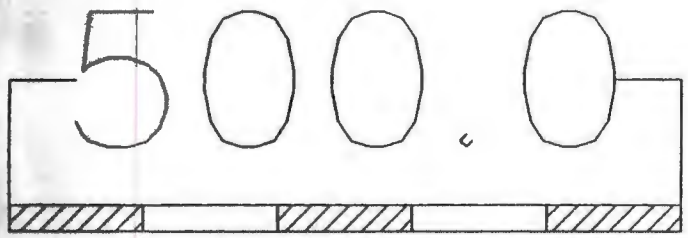
SOLID WASTE FOUND

Type: Many localities, cleanup debris
Bags Collected: 0

Draft

Printed: 12/12/89 11:31

KN114



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN115 DATE: 09/16/89
LOCATION: NE HERRING BAY, KNIGHT I. TIME: 10:38

Survey Type: Boat, Ground
Team: G. Pavia, D. Zobrist, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN115-1 / KN115-2 / none / none

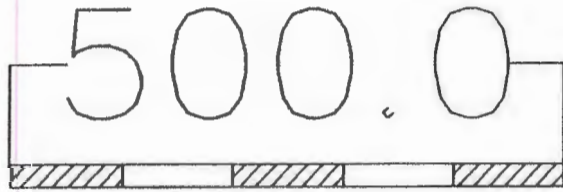
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

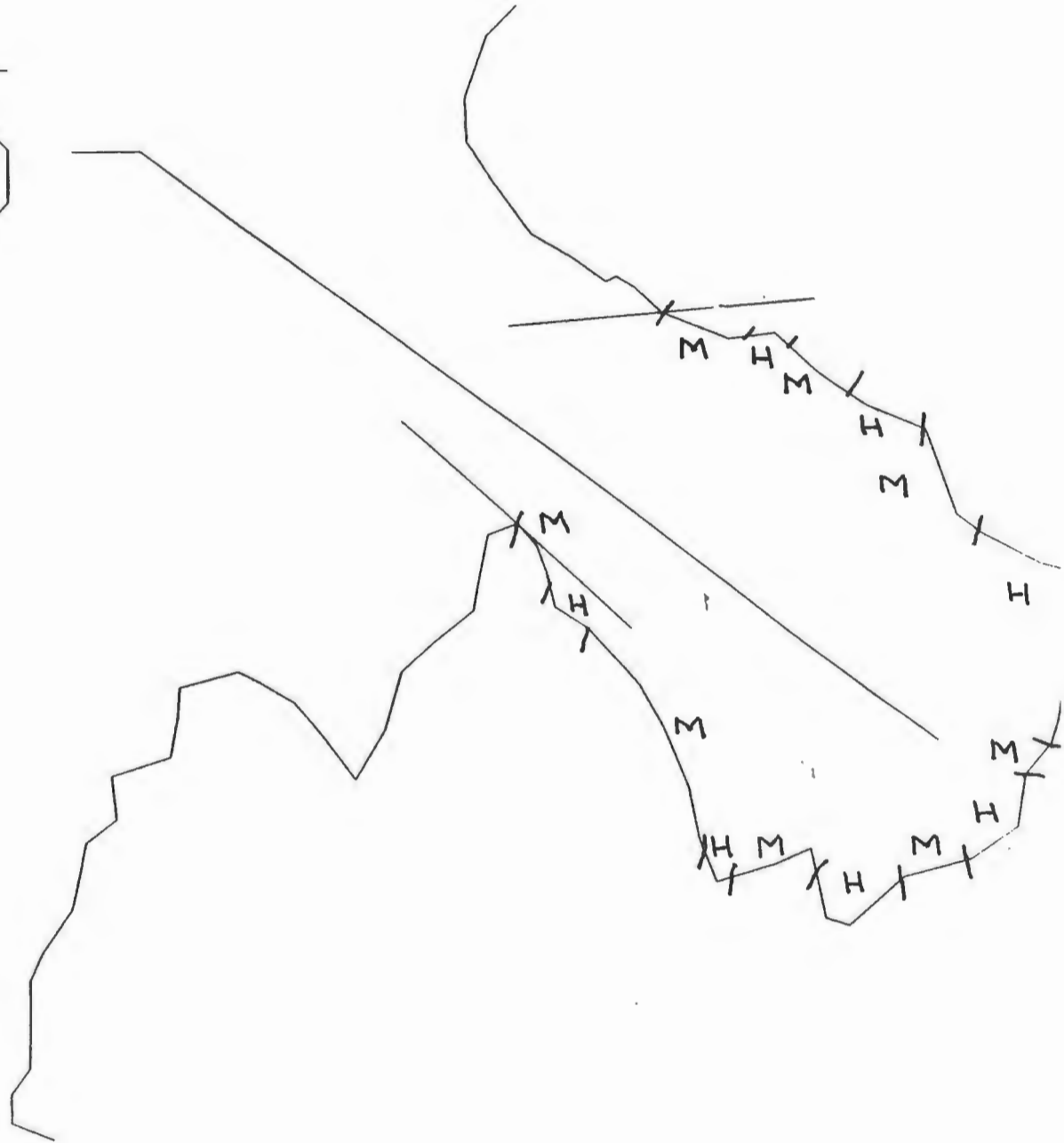
KN115



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN116 DATE: 09/16/89
 LOCATION: NE HERRING BAY, KNIGHT I. TIME: 11:45

Survey Type: Boat, Ground
 Team: H. Wood, G. Pavia, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
 Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
 Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

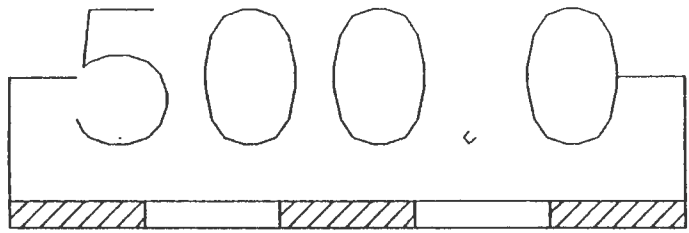
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

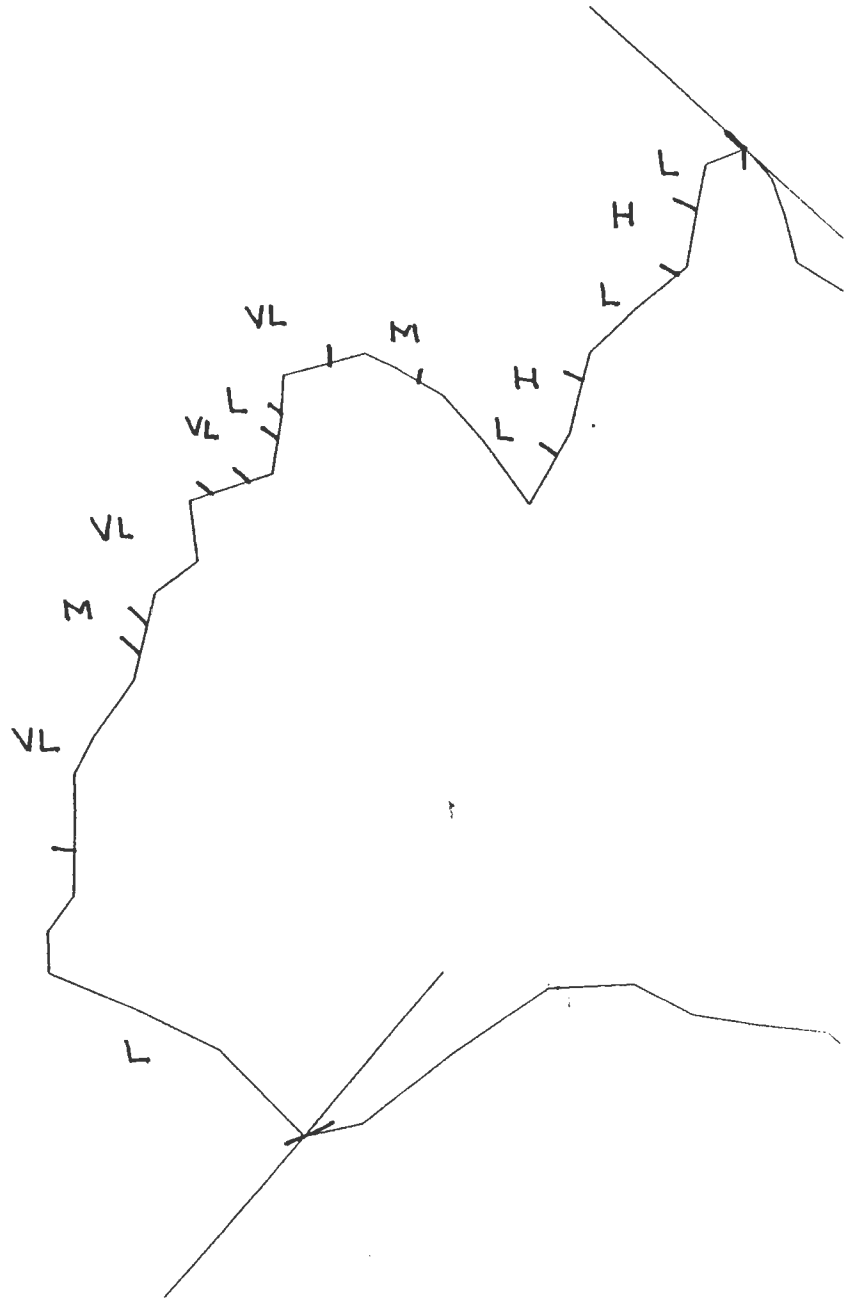
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



KN116



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN117 DATE: 09/16/89
LOCATION: NE HERRING BAY, KNIGHT I. TIME: 12:23

Survey Type: Boat, Ground
Team: G. Pavia, H. Wood, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

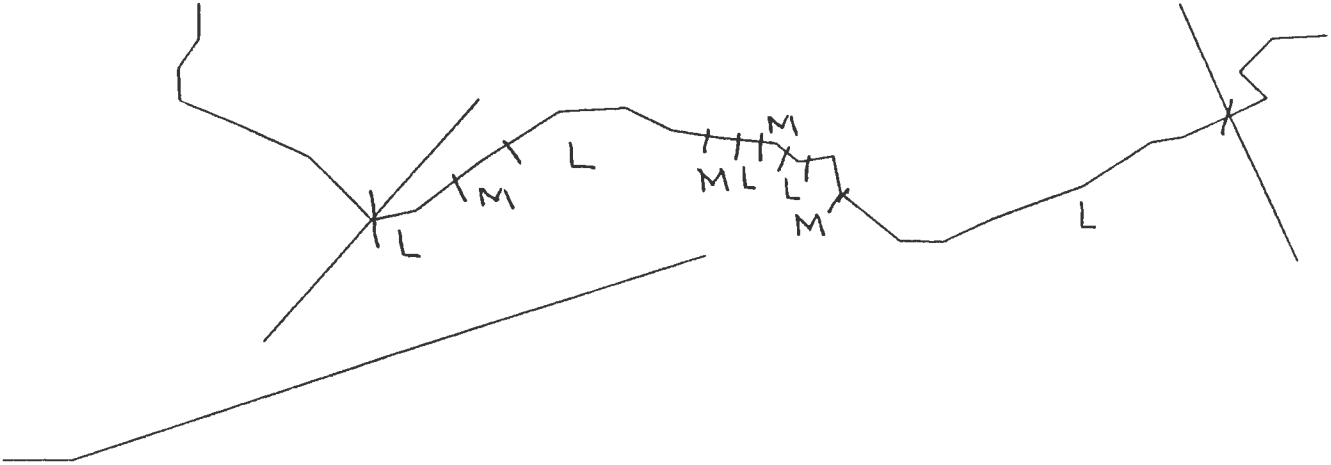
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Cleanup debris, signs, paint
Bags Collected: 0

<N117

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN118 DATE: 09/16/89
 LOCATION: NE HERRING BAY, KNIGHT I. TIME: 18:19

Survey Type: Boat, Ground
 Team: G. Pavia, J. DeRuyter, M. Baer

WEATHER AND SEA CONDITIONS

Weather: Sunny	Wind Direction: 0		
Sea State: Calm	Knots: 0		
Low Tide: 8:28	Feet: -1.1	High Tide: 14:42	Feet: 14.
Low Tide: 20:53	Feet: -1.8	High Tide: 2:23	Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN118-1 / KN118-2 / none / none

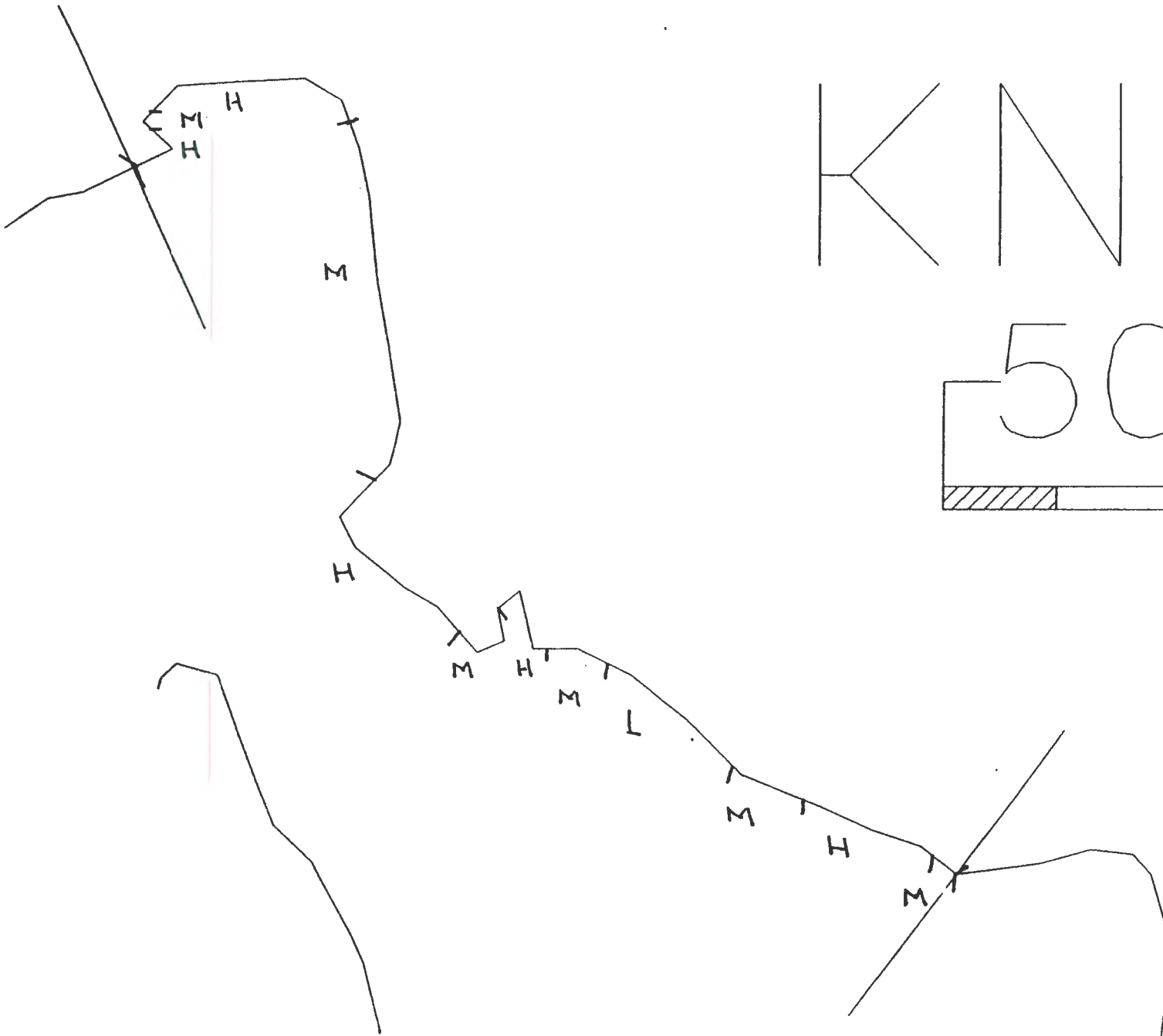
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



KN118

500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN119 DATE: 09/16/89
LOCATION: NE HERRING BAY, KNIGHT I. TIME: 19:48

Survey Type: Boat, Ground
Team: G. Pavia, J. DeRuyter, M. Baer

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0- cm (35 = 35 cm or greater)

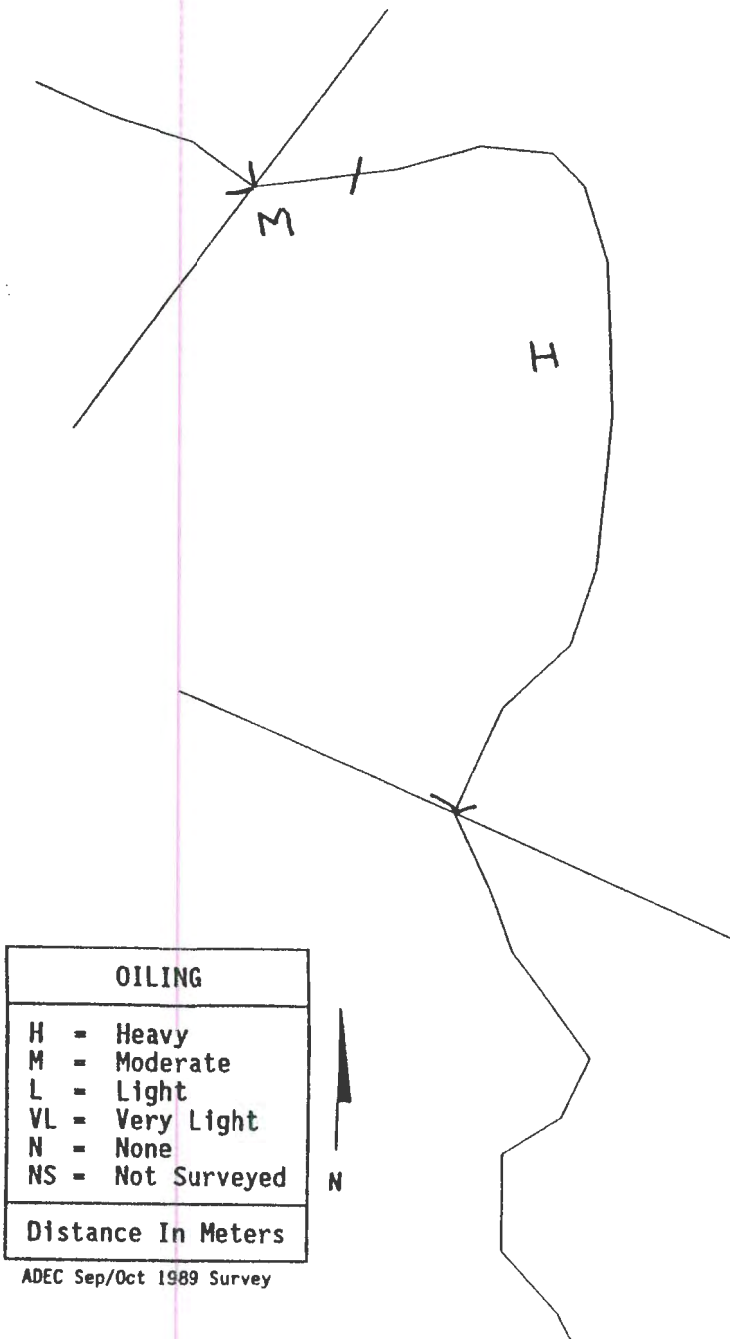
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN119-1 / KN119-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

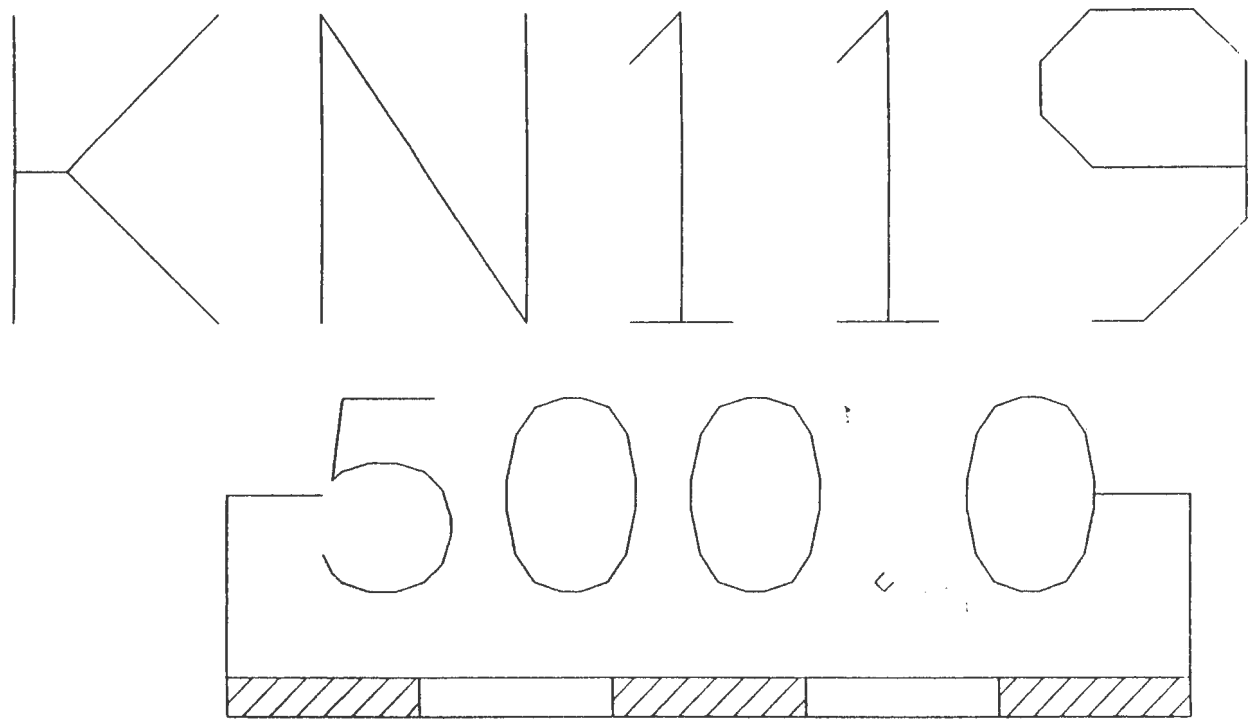
SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN120 DATE: 09/17/89
LOCATION: NE HERRING BAY, KNIGHT I. TIME: 9:00

Survey Type: Boat, Ground
Team: G. Pavia, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: W
Sea State: Calm Knots: 0-15

Low Tide: 9:06 Feet: -0.5 High Tide: 15:17 Feet: 14.5
Low Tide: 21:38 Feet: -2.1 High Tide: 3:08 Feet: 13.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

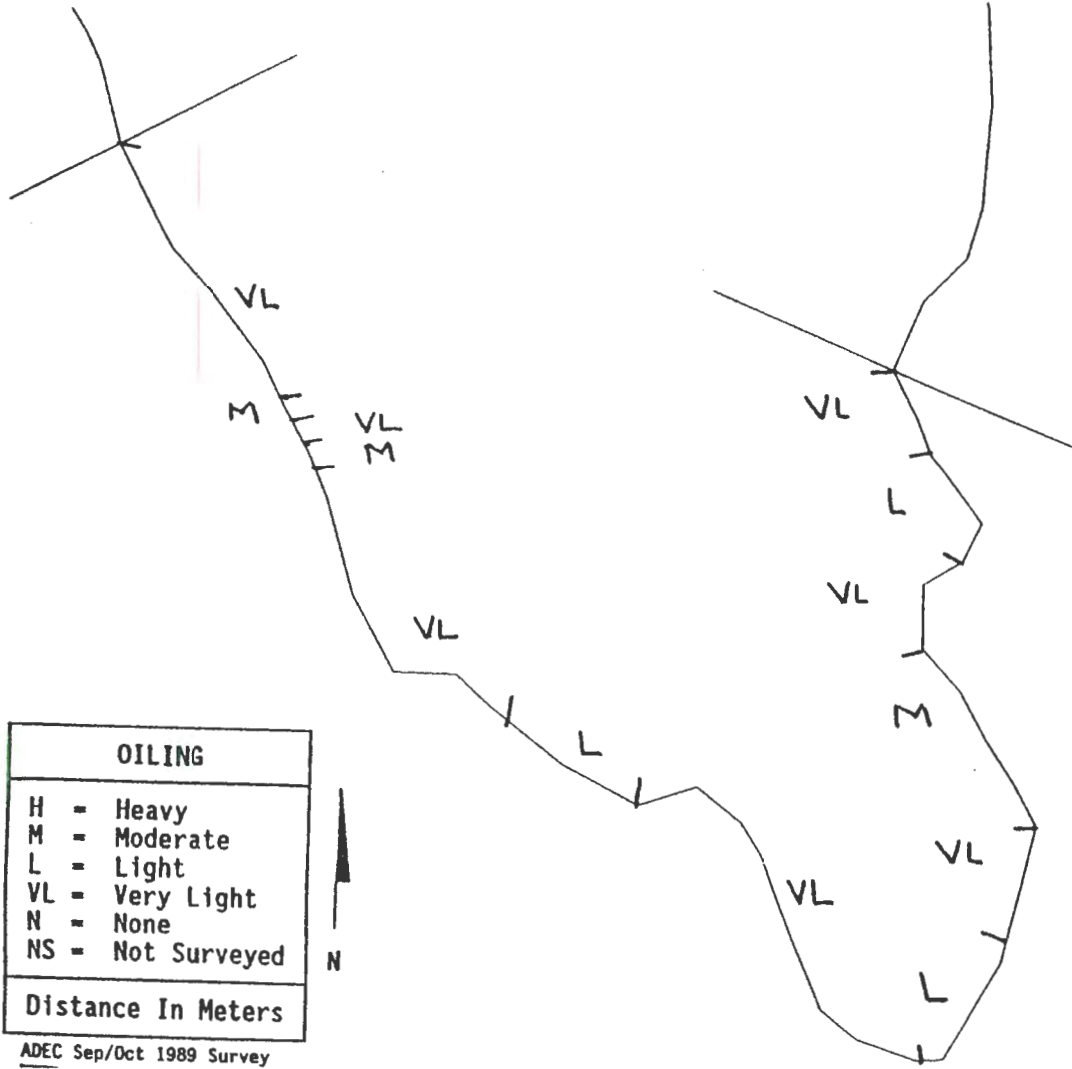
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

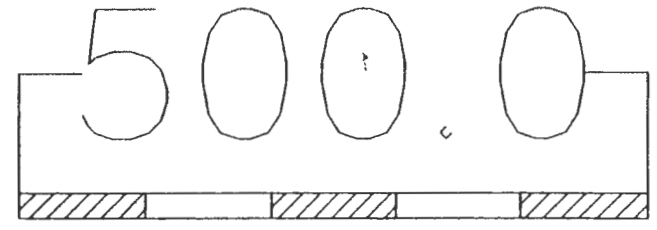
SOLID WASTE FOUND

Type: Few localities
Bags Collected: 1



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



KN120

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN121
 LOCATION: SE HERRING BAY

DATE: 09/17/89
 TIME: -0-

Survey Type: Boat, Ground
 Team: G. Pavia, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NE
 Sea State: Moderate Knots: 0-15

Low Tide: 9:06 Feet: -0.5 High Tide: 15:17 Feet: 14.5
 Low Tide: 21:38 Feet: -2.1 High Tide: 3:08 Feet: 13.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
 (N=none, VL=very light, L=light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 3 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: -0-%
 Presence of Oiled Driftwood (y/n): -
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

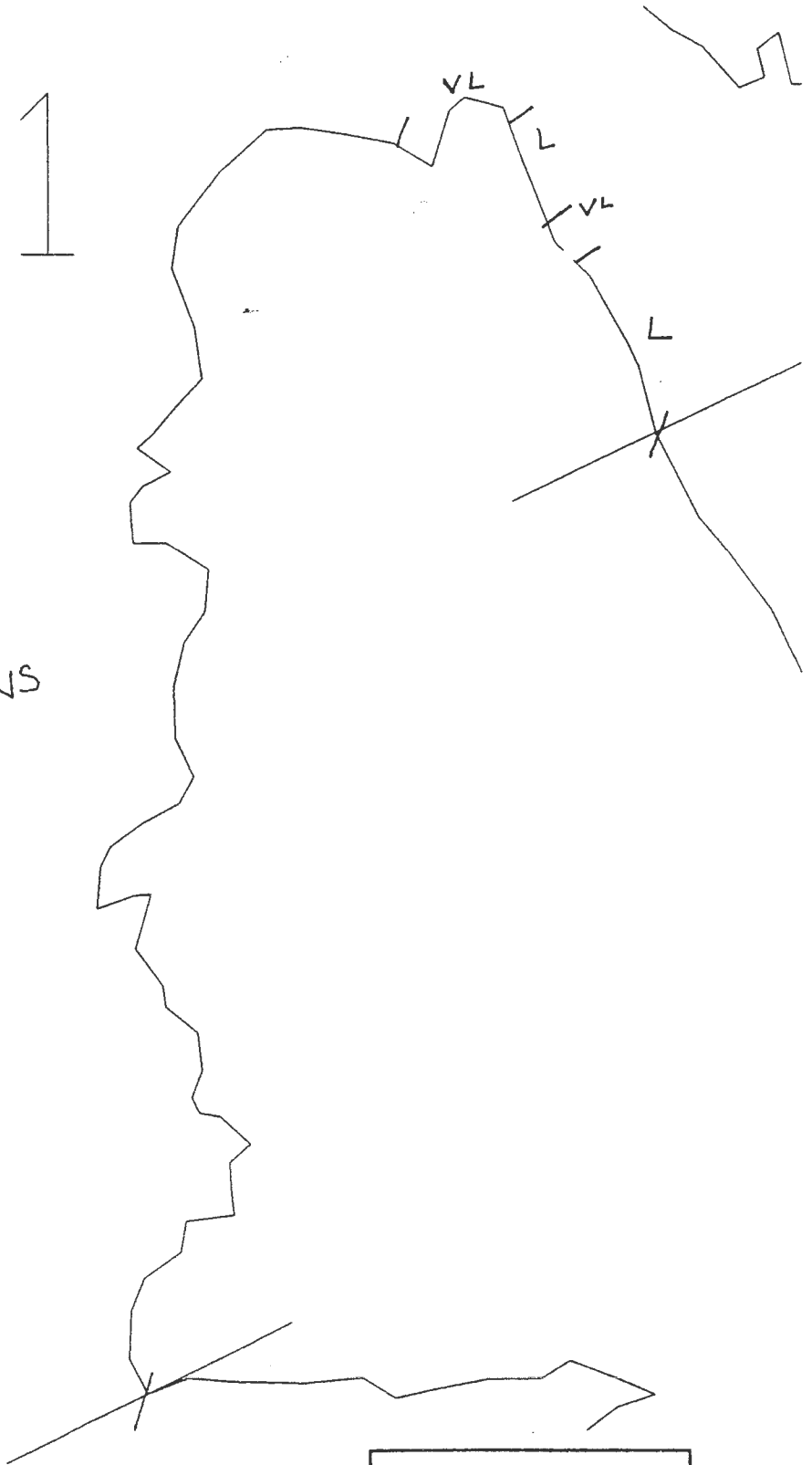
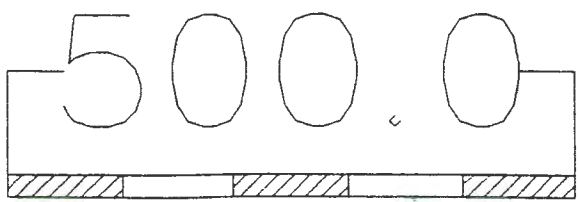
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

KN121

NS



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN122 DATE: 09/16/89
LOCATION: E HERRING BAY, KNIGHT I. TIME: 7:20

Survey Type: Boat, Ground
Team: H. Wood, C. Robinson, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN122-1 / KN122-2 / none / none

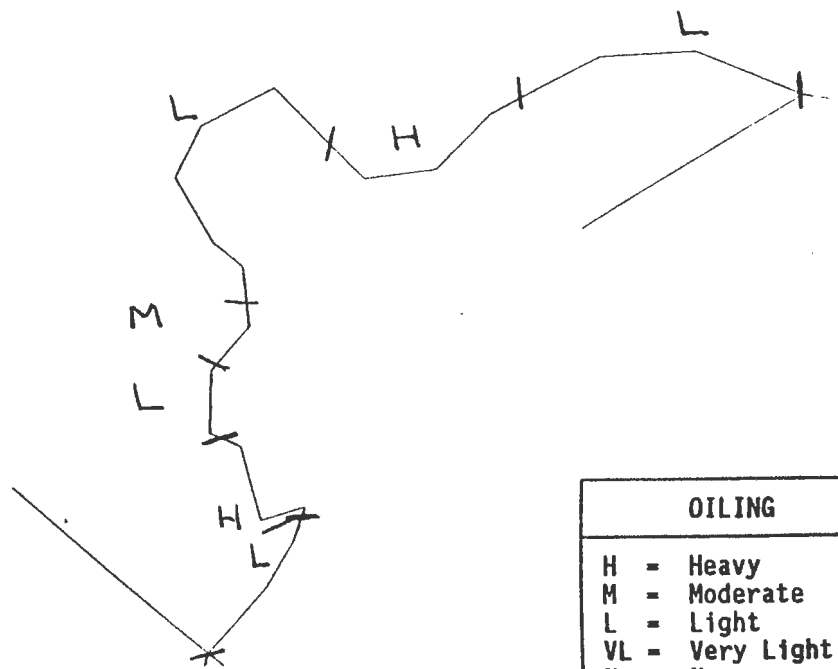
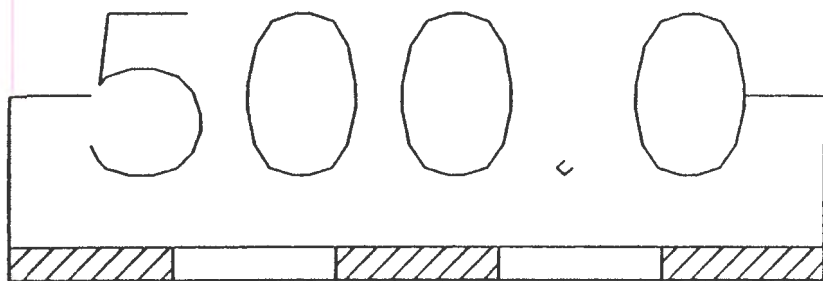
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Many localities
Bags Collected: 0

KN122



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN123 A,B DATE: 09/17/89
LOCATION: E HERRING BAY, KNIGHT I. TIME: 10:49

Survey Type: Boat, Ground
Team: B. McCready, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: W
Sea State: Calm Knots: 0-15

Low Tide: 9:06 Feet: -0.5 High Tide: 15:17 Feet: 14.5
Low Tide: 21:38 Feet: -2.1 High Tide: 3:08 Feet: 13.2

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

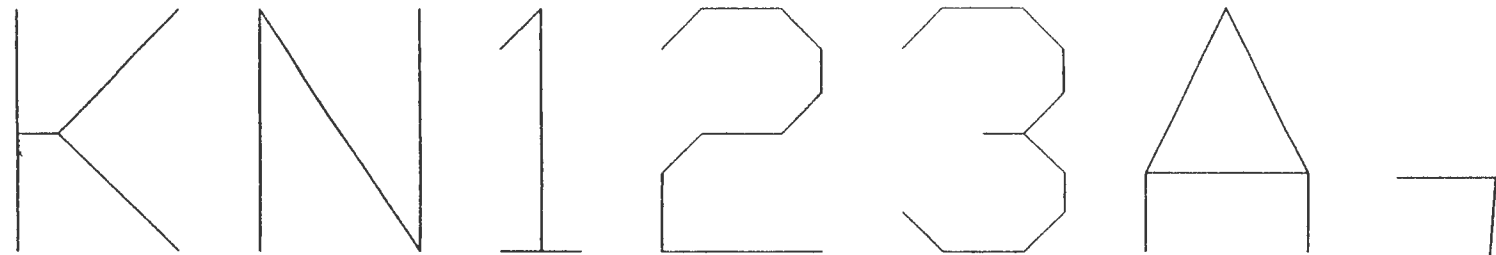
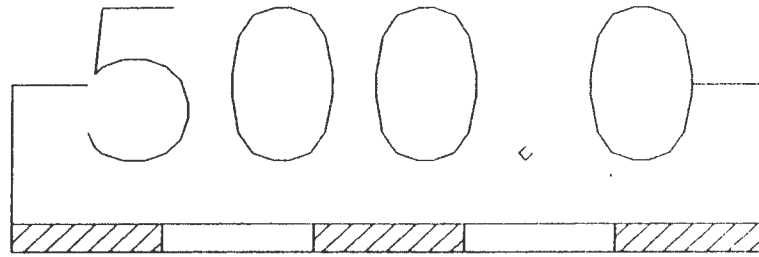
Degree of Oiling: L,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

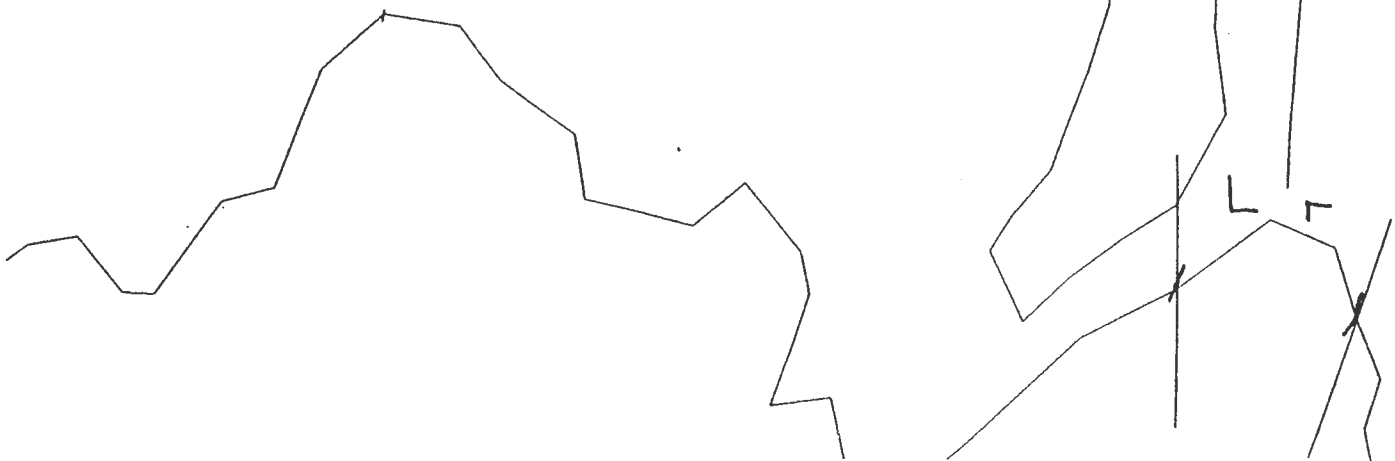
SOLID WASTE FOUND

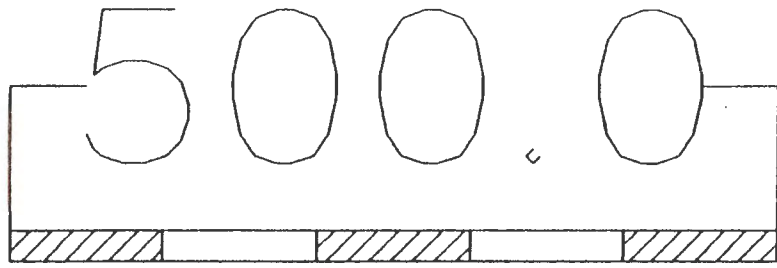
Type: None
Bags Collected: 0



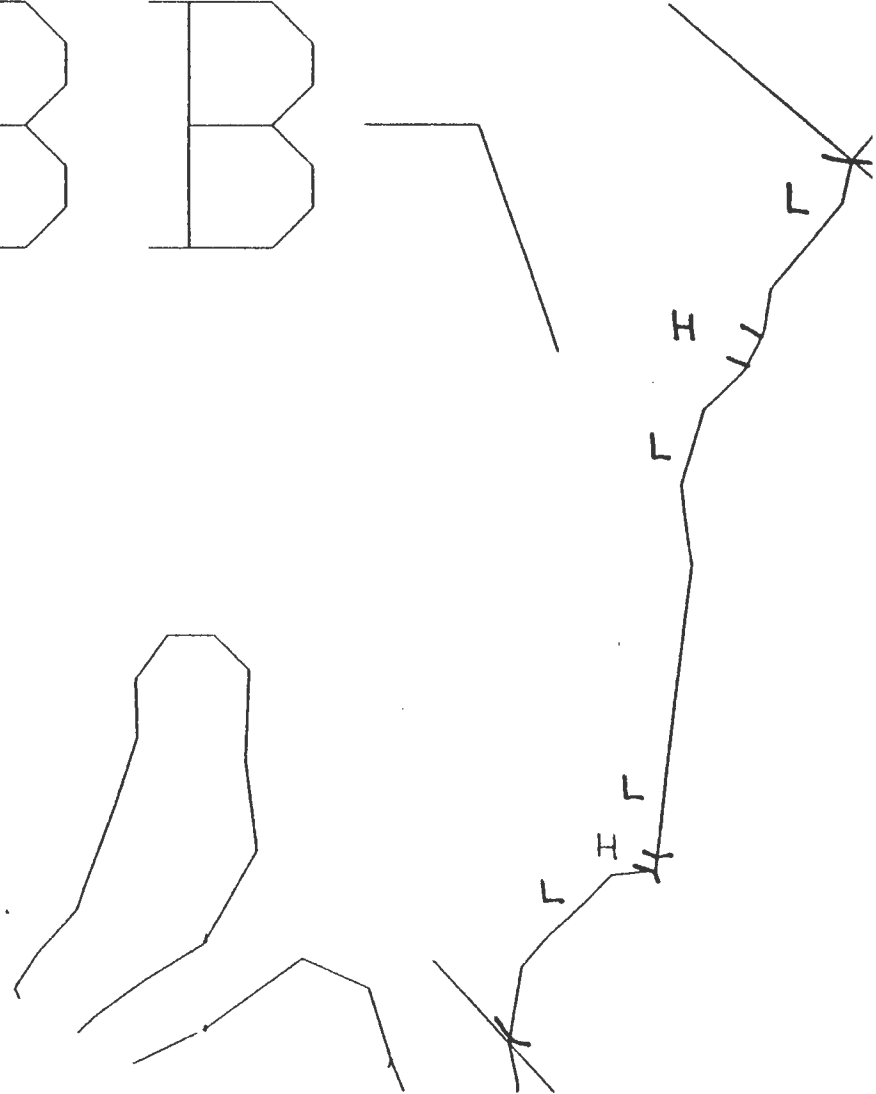
OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey





KN 123B



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN124 DATE: 09/17/89
LOCATION: S HERRING BAY, KNIGHT I. TIME: 9:30

Survey Type: Boat, Ground
Team: B. McCready, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NW
Sea State: Moderate Knots: 0-15

Low Tide: 9:06 Feet: -0.5 High Tide: 15:17 Feet: 14.5
Low Tide: 21:38 Feet: -2.1 High Tide: 3:08 Feet: 13.2

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN124-1 / KN124-2 / none / none

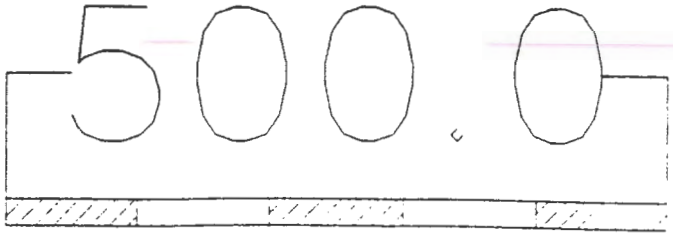
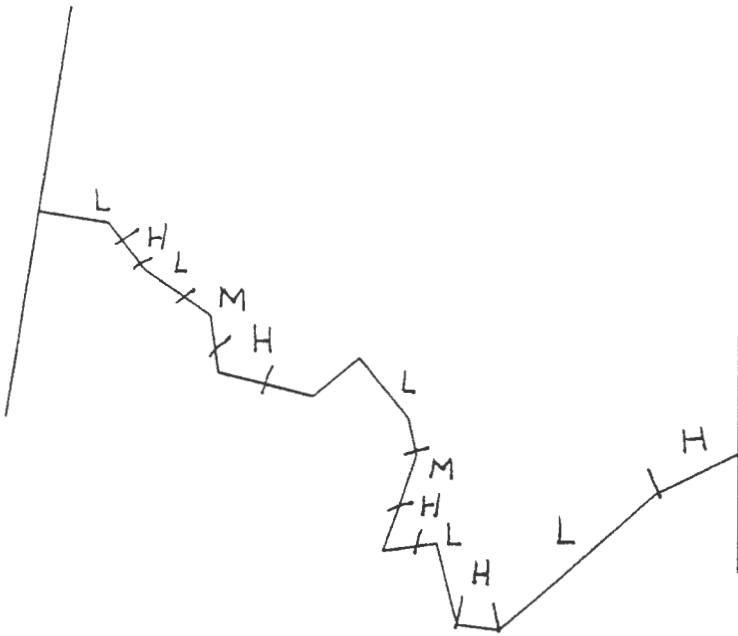
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0

KN124



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN125 DATE: 09/16/89
LOCATION: S HERRING BAY, KNIGHT I. TIME: 19:59

Survey Type: Boat, Ground
Team: B. Fitzsimons, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 50 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN125-1 / KN125-2 / none / none

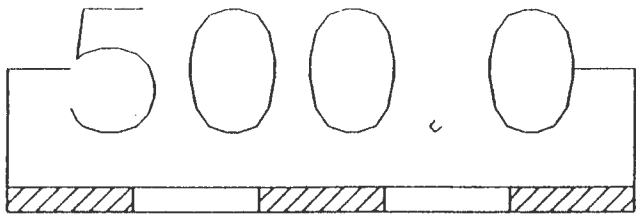
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

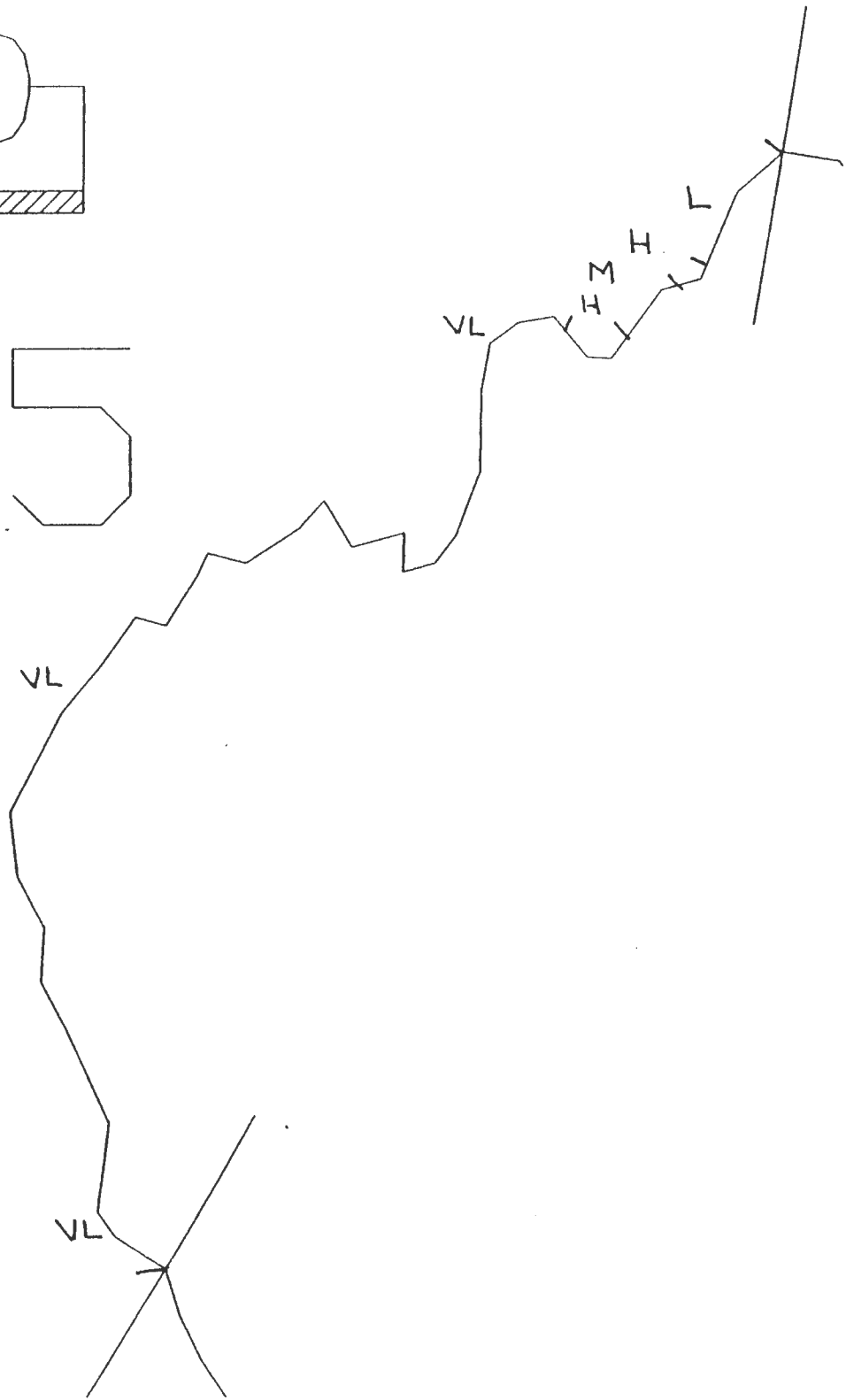
SOLID WASTE FOUND

Type: None
Bags Collected: 0

500.0



KN125



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN126 DATE: 09/16/89
LOCATION: S HERRING BAY, KNIGHT I. TIME: 18:16

Survey Type: Boat, Ground
Team: B. Fitzsimons, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C,M
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

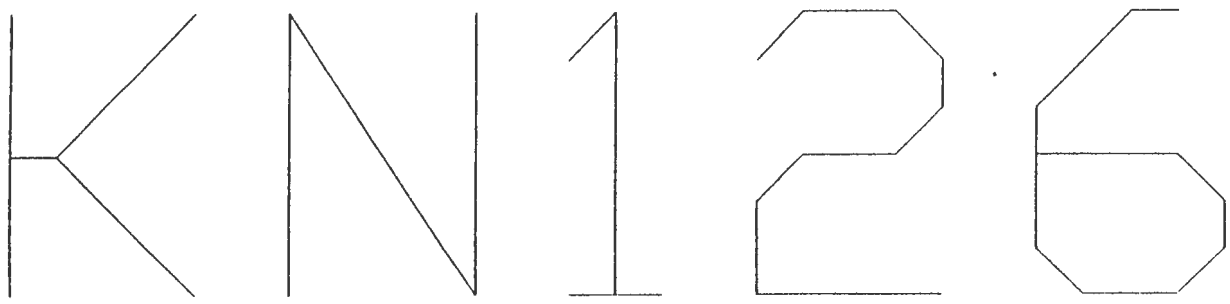
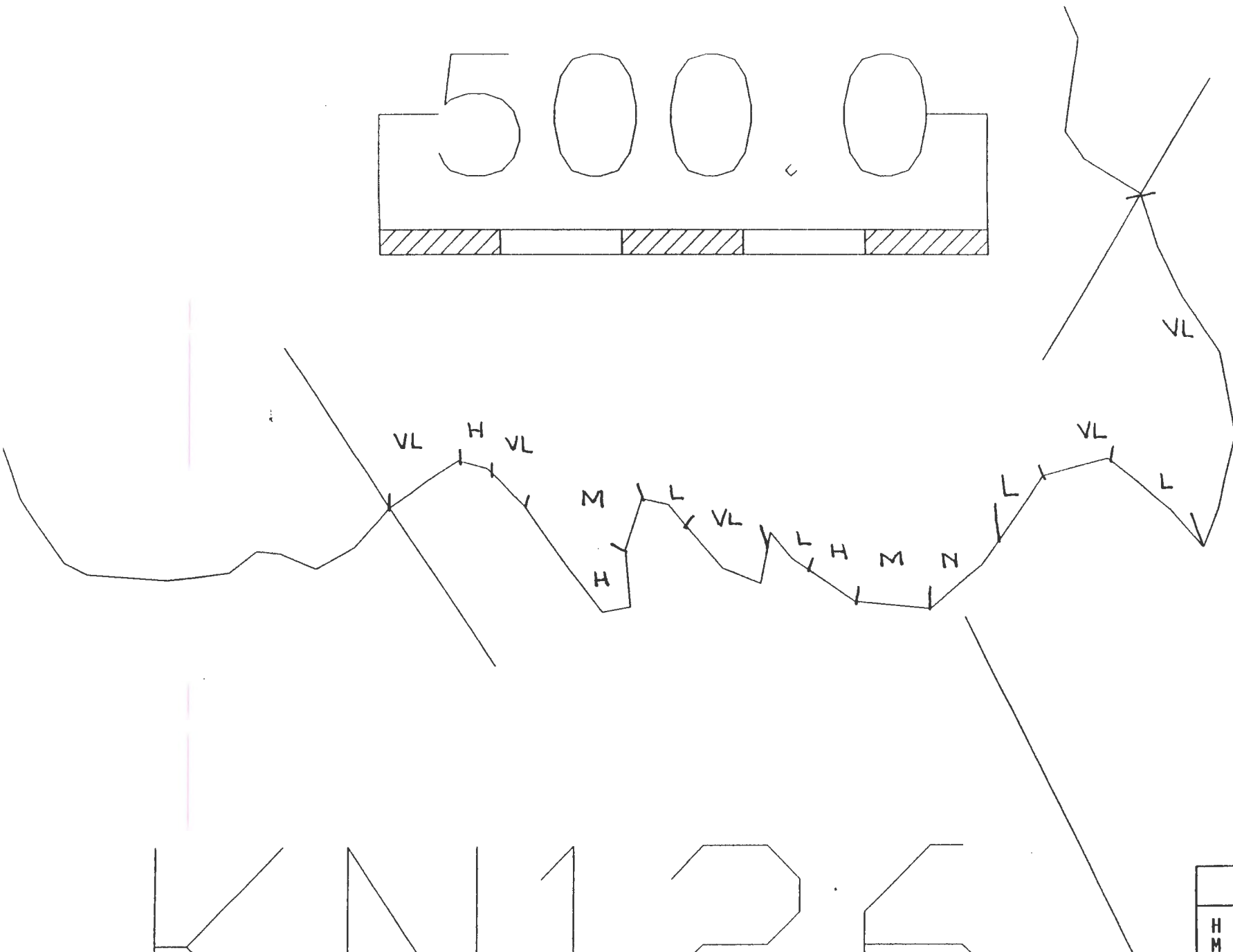
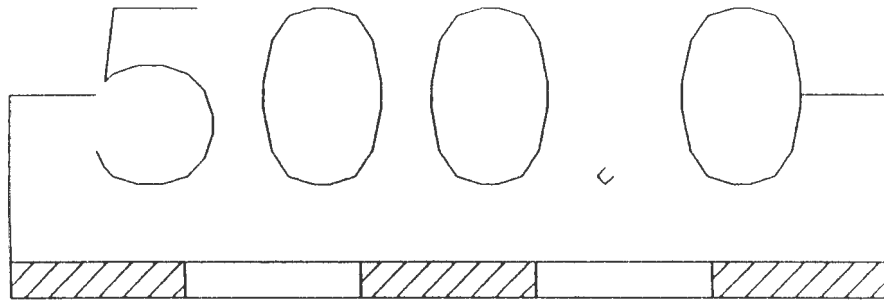
Samples: KN126-1 / KN126-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN127 DATE: 09/16/89
LOCATION: S HERRING BAY, KNIGHT I. TIME: 11:21

Survey Type: Boat, Ground
Team: B. McCreedy, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

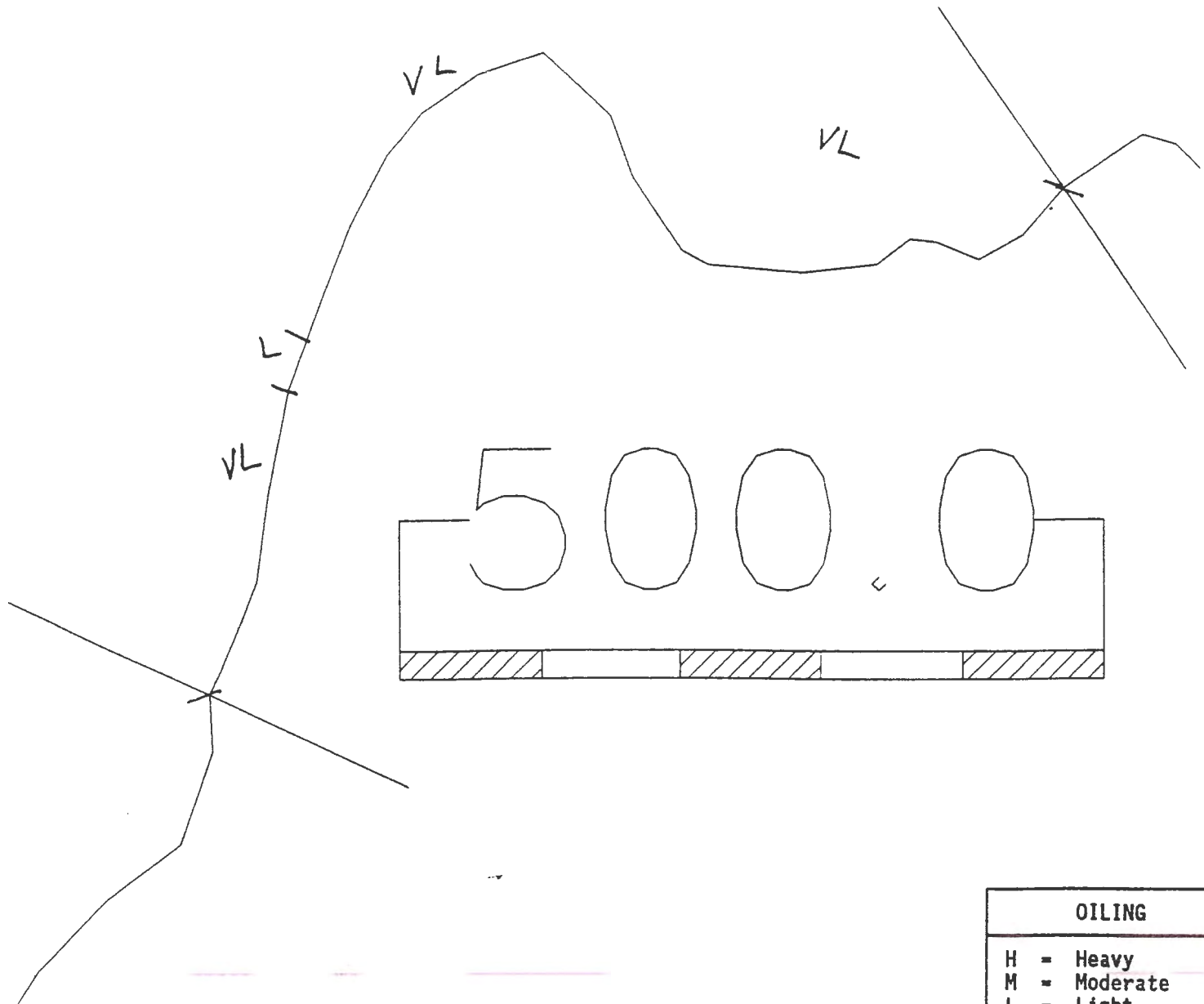
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0

KN127



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN128

DATE: 09/16/89

LOCATION: S HERRING BAY, KNIGHT I.

TIME: 10:50

Survey Type: Boat, Ground
Team: B. McCready, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NW
Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

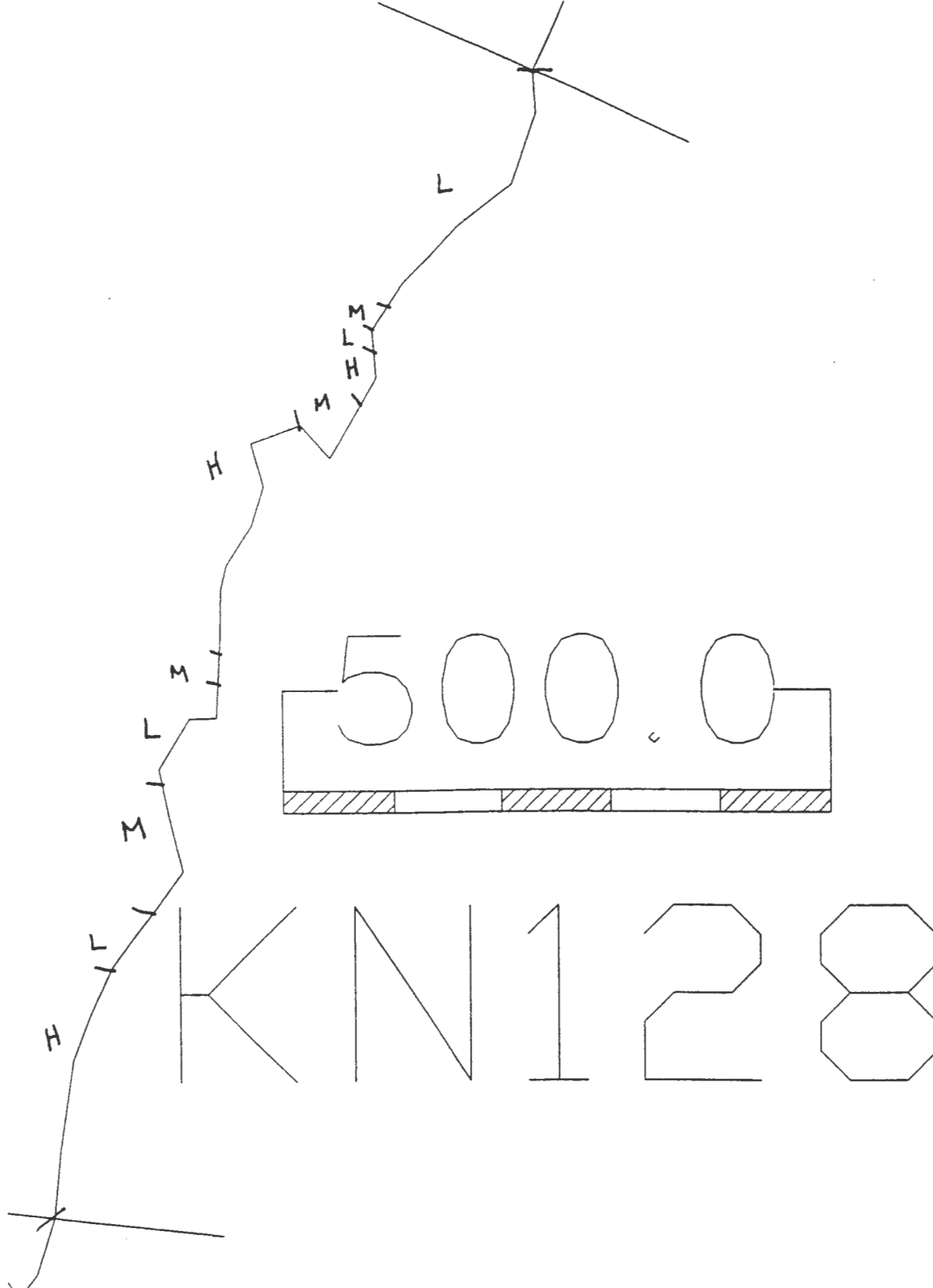
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN128-1 / KN128-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



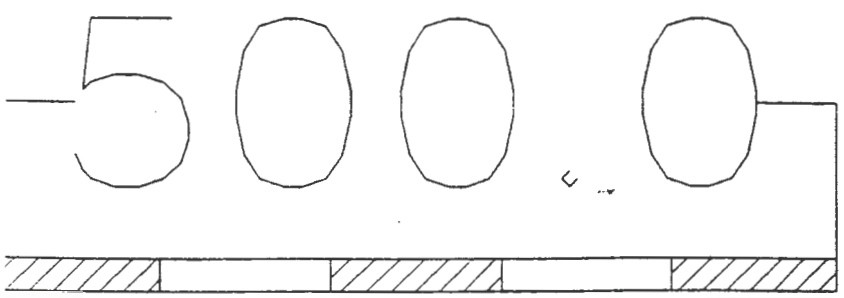
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEP Sep/Oct 1989 Survey



KN129



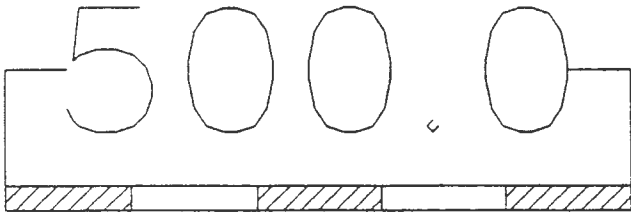
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

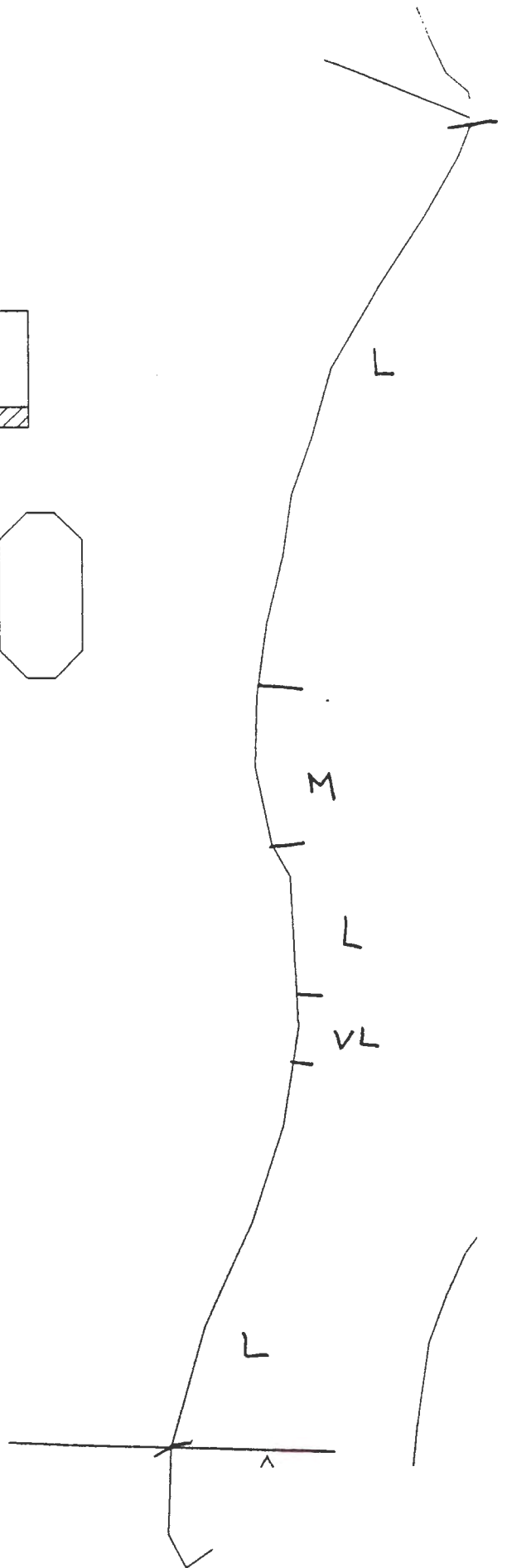


ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN130 DATE: 09/10/89 LOCATION: SE HERRING BAY, KNIGHT I. TIME: 9:30			
Survey Type: Boat, Ground Team: B. Fitzsimons			
<u>WEATHER AND SEA CONDITIONS</u>			
Weather: Sunny Sea State: Calm		Wind Direction: 0 Knots: 0	
Low Tide: 3:58 Feet: 2.84	High Tide: 10:57 Feet: 8.14	Low Tide: 15:41 Feet: 6.38	High Tide: 22:04 Feet: 10.5
<u>SHORELINE DESCRIPTION</u>			
Shoretypes: H,LR,B,C (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)			
Wave Exposure: L (H=high, M=moderate, L=low)			
Shoreline Composition: R,B,C,G (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)			
<u>OIL CHARACTERISTICS</u>			
Degree of Oiling: VL,L,M (N=none, VL=very light, L=Light, M=moderate, H=heavy)			
Area of Impact: H,M (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)			
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)			
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)			
Percent Segment Categorized as Oiled: 100%			
Presence of Oiled Driftwood (y/n): n			
Oil Types: SY,T (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)			
Samples: KN130-1 / KN130-2 / none / none			
<u>DAMAGED OR OILED ORGANISMS</u>			
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y			
Dead Mammals: 0 Dead Birds: 0			
<u>SOLID WASTE FOUND</u>			
Type: One locality, pompoms			
Bags Collected: 0			



KN130



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN131 DATE: 09/16/89
 LOCATION: SE HERRING BAY, KNIGHT I. TIME: 8:21

Survey Type: Boat, Ground
 Team: B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
 Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
 Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L,M
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S,M
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN131-1 / KN131-2 / none / none

DAMAGED OR OILED ORGANISMS

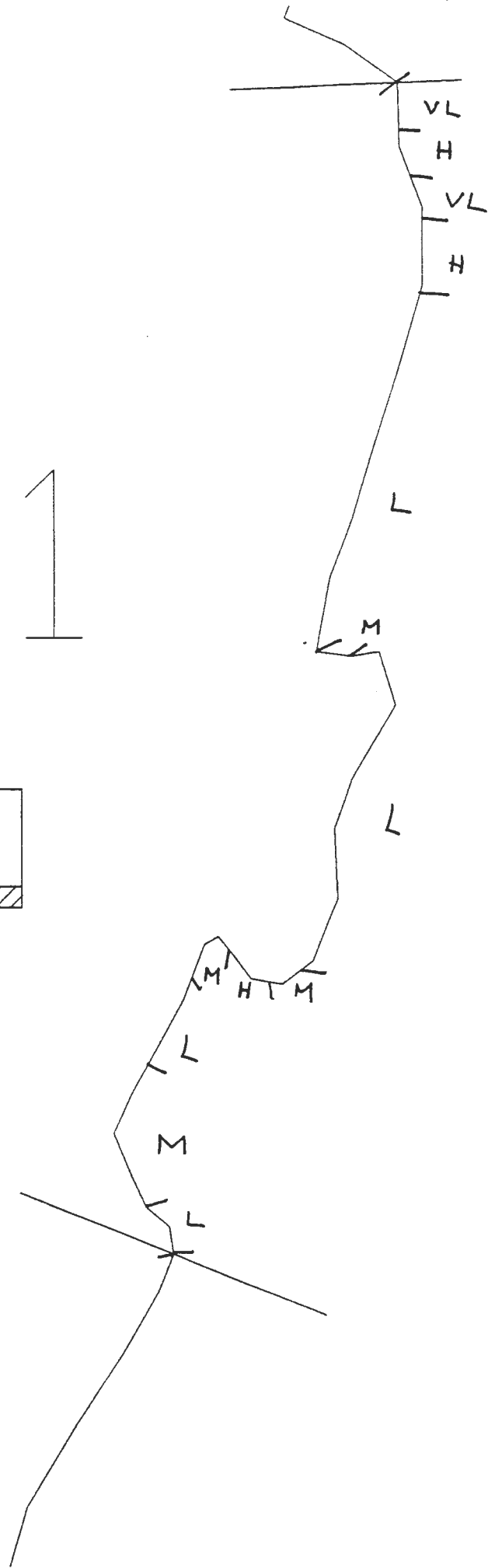
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
 Bags Collected: 0

KN131

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN132 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 10:36

Survey Type: Boat, Ground
Team: C. Robinson, P. Montesano, M. Baer

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN132-1 / KN132-2 / none / none

DAMAGED OR OILED ORGANISMS

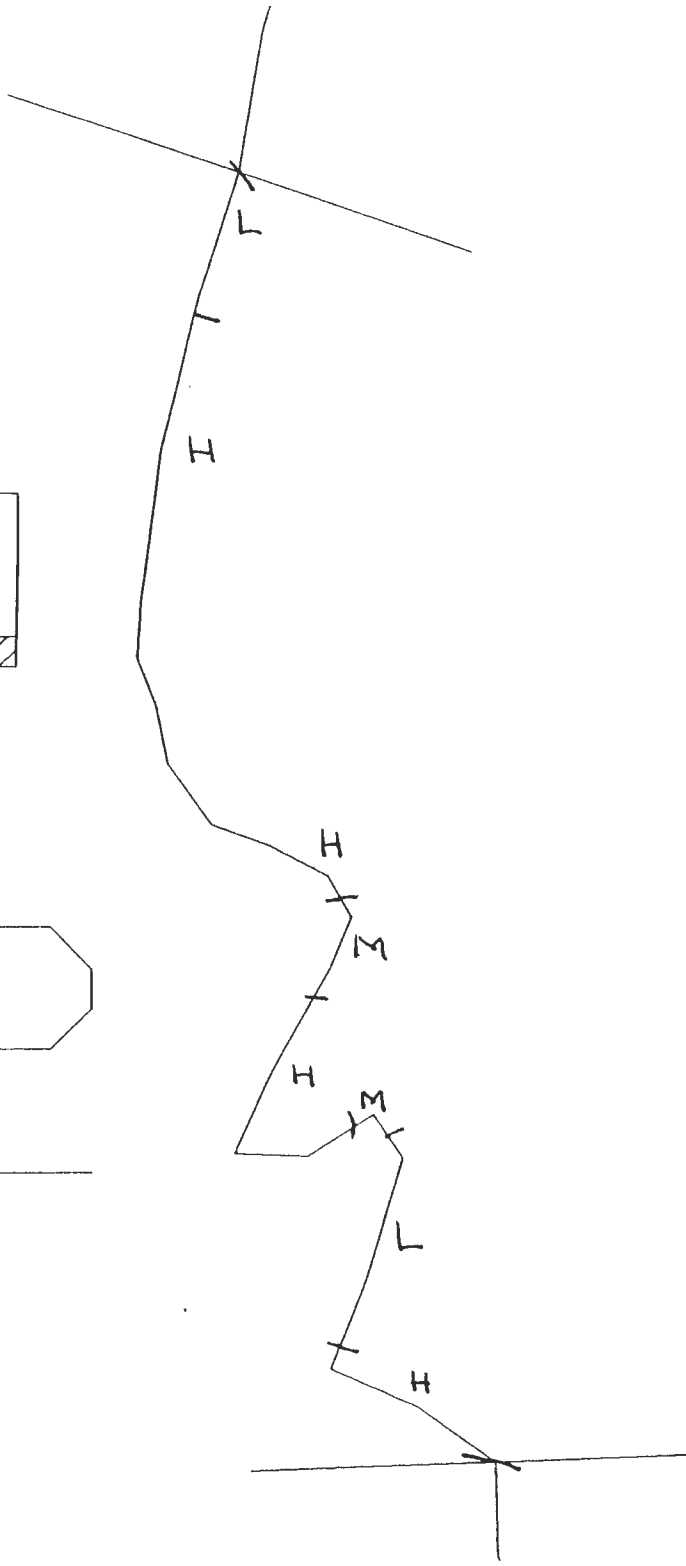
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris
Bags Collected: 0

500.0

KN132



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distar	In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN134 DATE: 10/01/89
LOCATION: SW BAY OF ISLS, KNIGHT I. TIME: 10:17

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

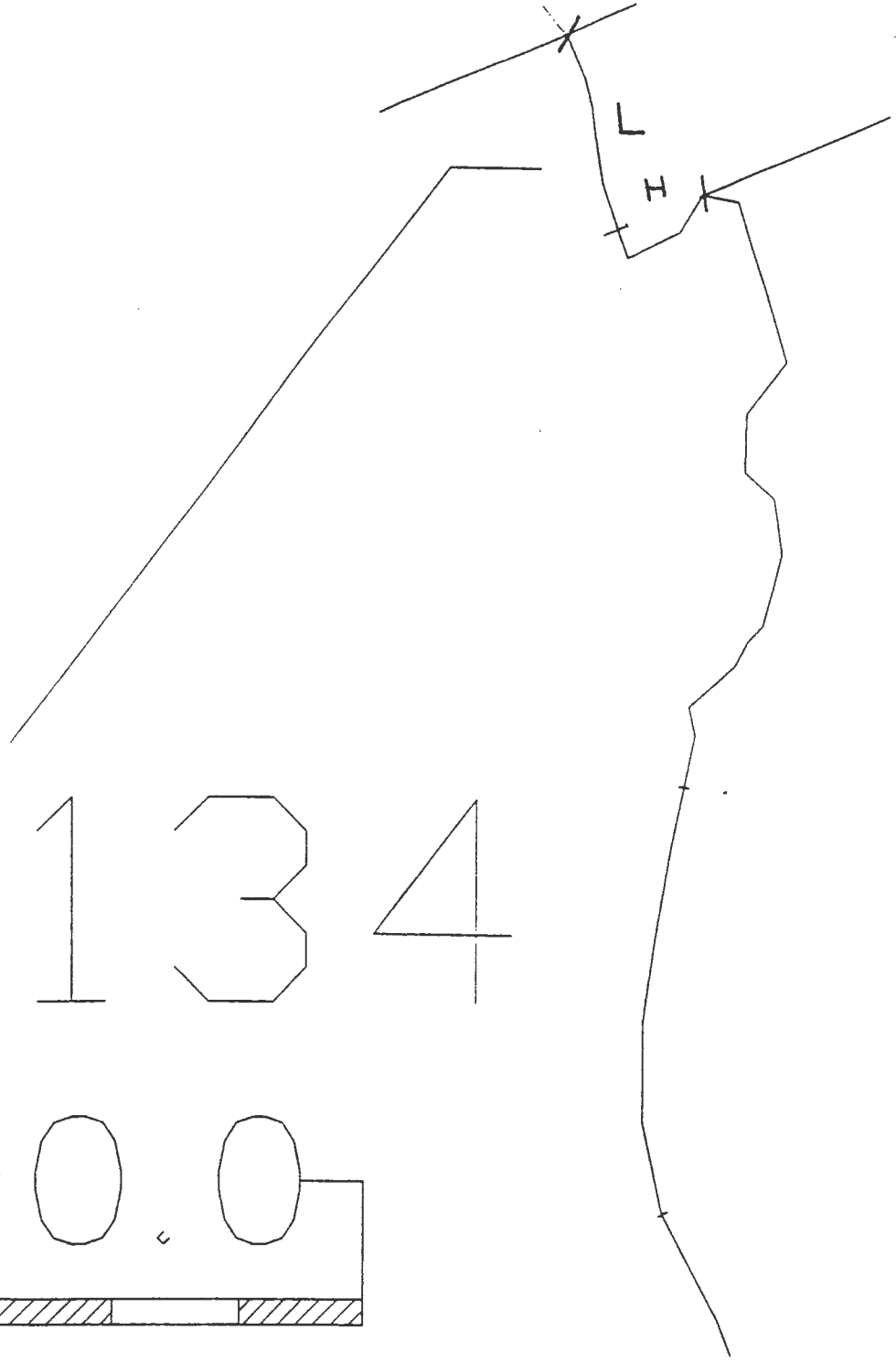
Degree of Oiling: L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

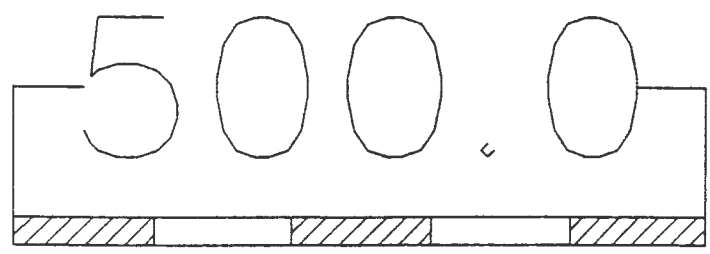
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN134



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



KN135 - 551

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SEGMENT#	LOCATION
KN135	SW BAY OF ISLES,KNIGHT I.
KN136	SE BAY OF ISLES,KNIGHT I.
KN141	E HERRING BAY, KNIGHT I.
KN144	E HERRING BAY, KNIGHT I.
KN200	W BAY OF ISLES, KNIGHT I.
KN201	W BAY OF ISLES, KNIGHT I.
KN202	W BAY OF ISLES, KNIGHT I.
KN203	W BAY OF ISLES, KNIGHT I.
KN204	W BAY OF ISLES, KNIGHT I.
KN205	W BAY OF ISLES, KNIGHT I.
KN206	S BAY OF ISLES, KNIGHT I.
KN207	SE BAY OF ISLES,KNIGHT I.
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KN210	NE KNIGHT ISLAND
KN211	NE KNIGHT ISLAND
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KN213	E CENTRAL KNIGHT ISLAND
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KN301	E HERRING BAY, KNIGHT I.
KN400	N SNUG HARBOR, KNIGHT I.
KN401	W SNUG HARBOR, KNIGHT I.
KN402	W SNUG HARBOR, KNIGHT I.
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KN404	SE KNIGHT ISLAND
KN405	PT. HELENS, KNIGHT ISLAND
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KN410	W HOGAN BAY, KNIGHT I.
KN411	NW HOGAN BAY, KNIGHT I.
KN412	N HOGAN BAY, KNIGHT I.
KN413	NE HOGAN BAY, KNIGHT I.
KN500	N KNIGHT ISLAND PASSAGE
KN501	N KNIGHT ISLAND PASSAGE
KN502	N KNIGHT ISLAND PASSAGE
KN503	N KNIGHT ISLAND PASSAGE
KN504	N KNIGHT ISLAND PASSAGE
KN505	N KNIGHT ISLAND PASSAGE
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KN509	N KNIGHT ISLAND PASSAGE
KN510	N KNIGHT ISLAND PASSAGE
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Printed: 12/12/89

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN135 DATE: 10/01/89
LOCATION: SW BAY OF ISLES, KNIGHT I. TIME: 10:23

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN135-1 / KN135-2 / none / none

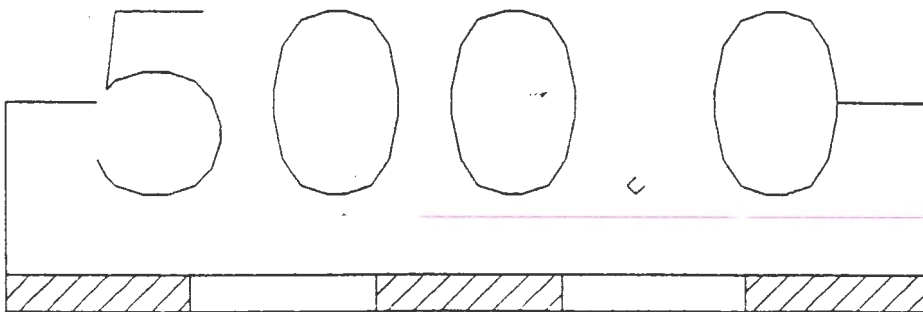
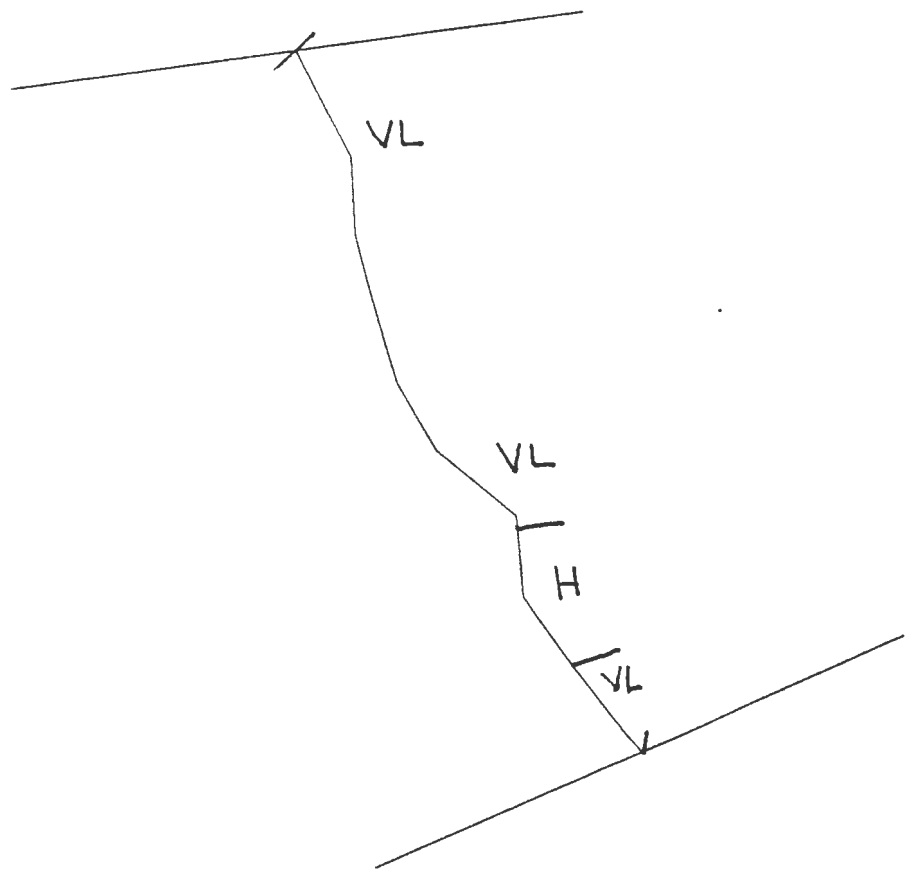
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN135



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN136 DATE: 10/01/89
LOCATION: SE BAY OF ISLES, KNIGHT I. TIME: 10:52

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

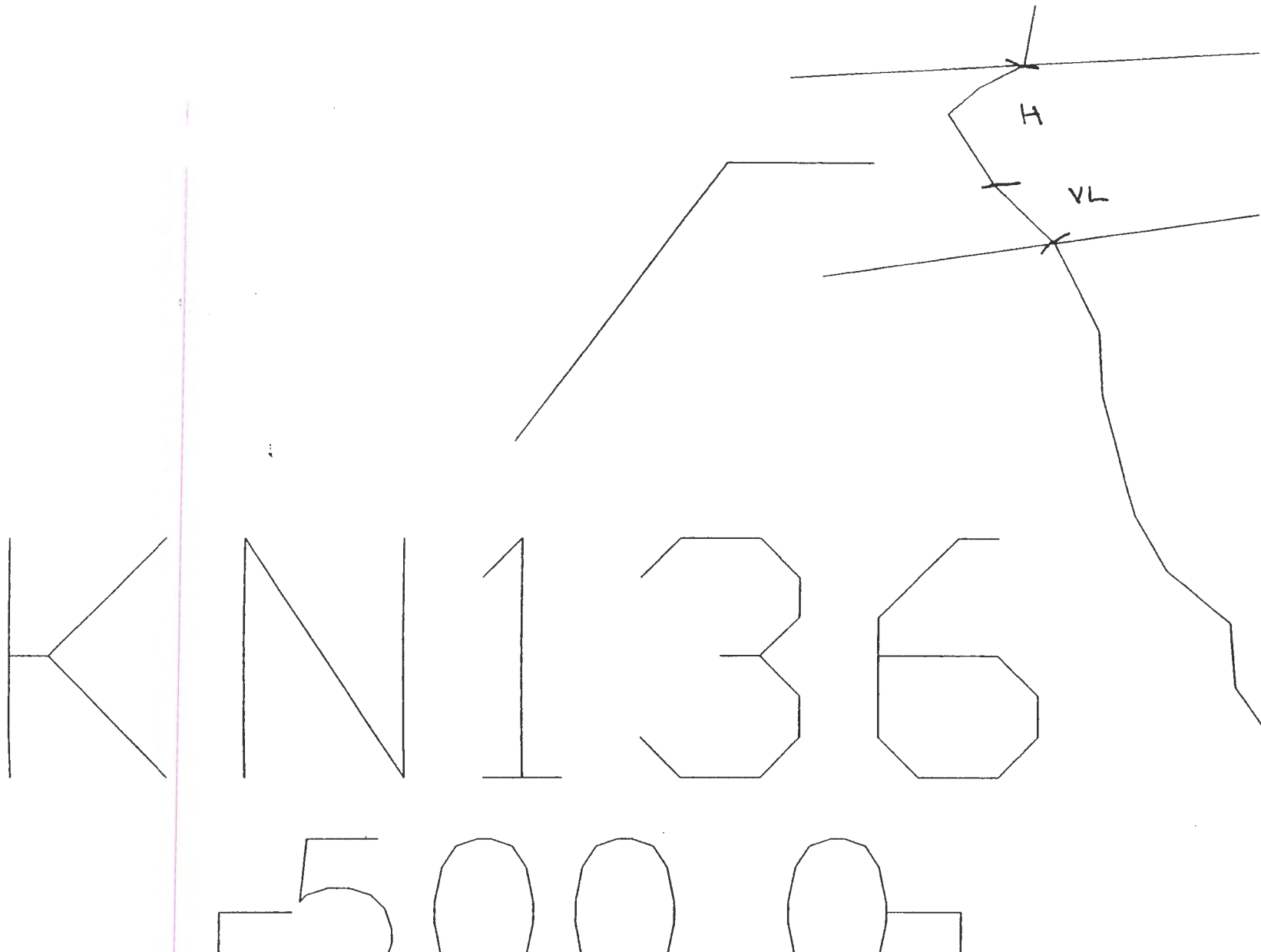
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN136-1 / KN136-2 / none / none

DAMAGED OR OILED ORGANISMS

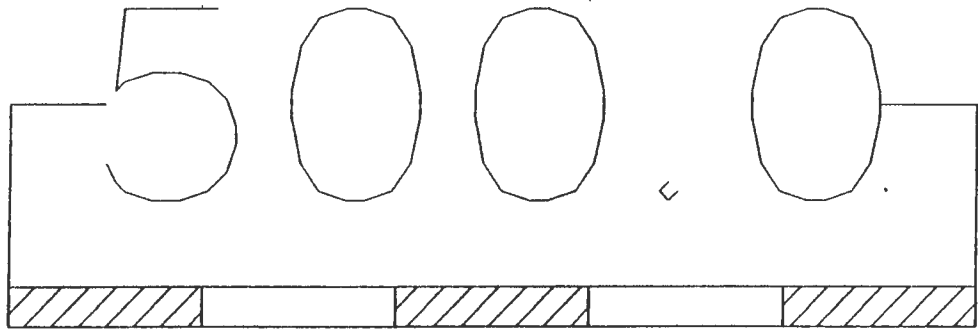
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN136



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN141 DATE: 09/15/89
LOCATION: E HERRING BAY, KNIGHT I. TIME: -0-

Survey Type: Boat, Ground
Team: M. Cunningham, J. Weiland

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

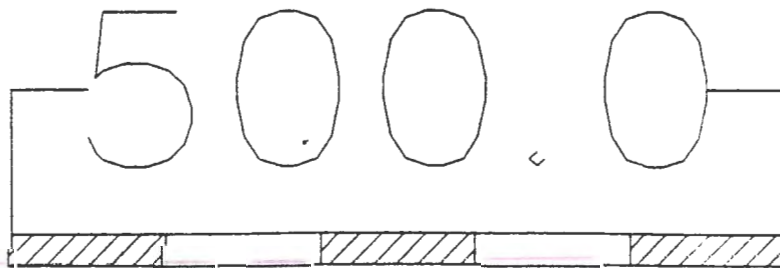
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, Cleanup debris
Bags Collected: 0

KN141



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN144 DATE: 09/15/89
LOCATION: E HERRING BAY, KNIGHT I. TIME: -0-

Survey Type: Boat, Ground
Team: M. Cunningham, J. Weiland

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 7:52 Feet: -1.3 High Tide: 14:08 Feet: 13.2
Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
Presence of Oiled Driftwood (y/n): n
Oil Types: A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

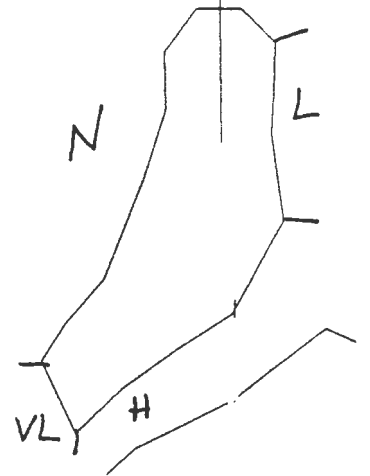
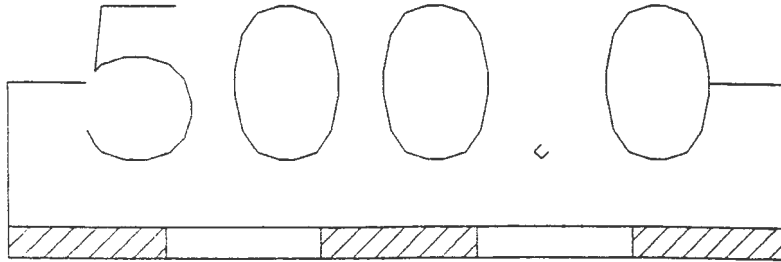
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN144



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN200 DATE: 10/01/89
LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 9:54

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 18 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN200-1 / KN200-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

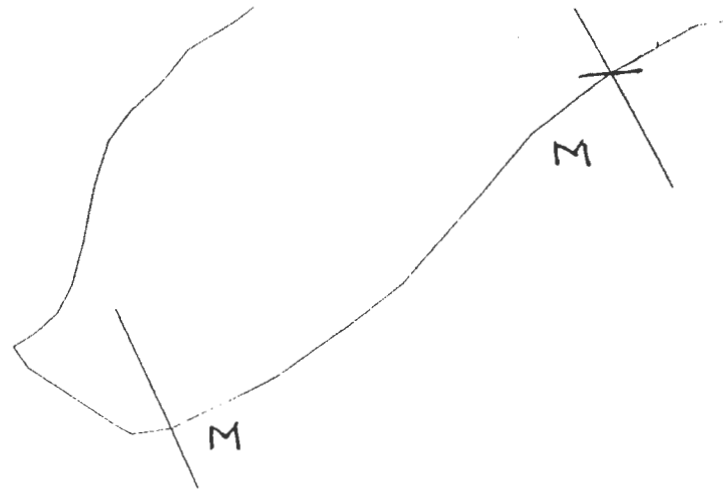
KN200

500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN201 DATE: 10/01/89
LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 10:17

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretupes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN-201-1 / KN201-2 / none / none

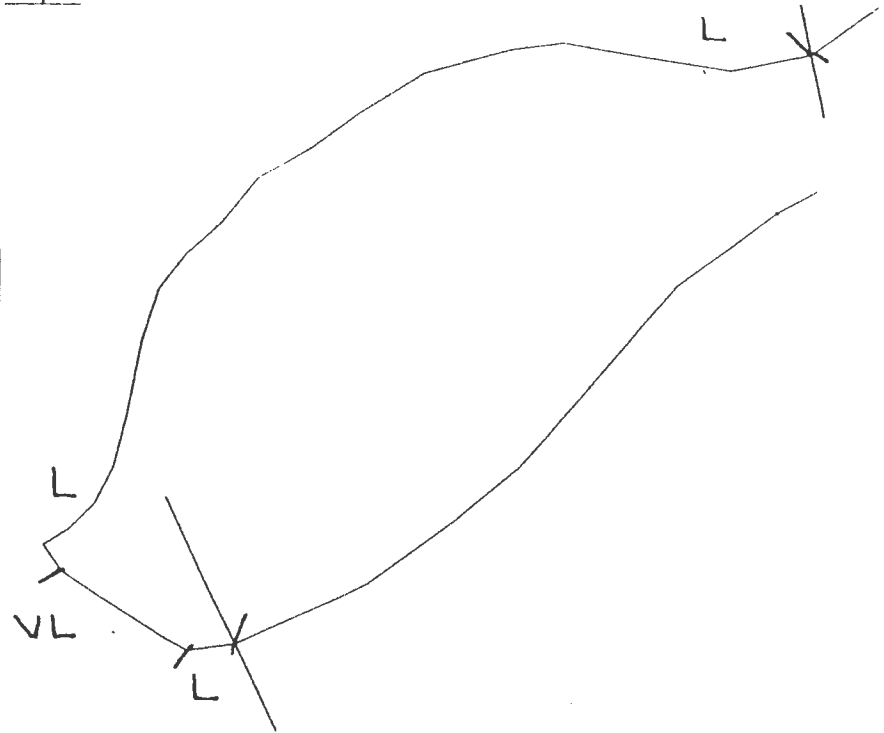
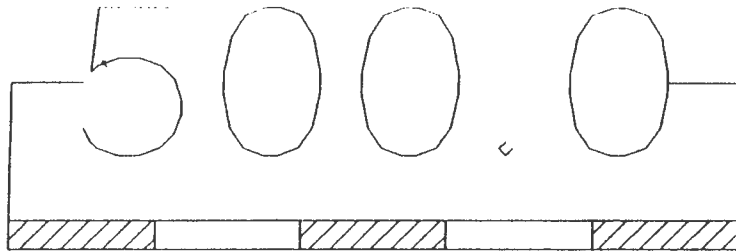
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN201



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN202 DATE: 10/01/89
LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 9:14

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0
Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretupes: LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

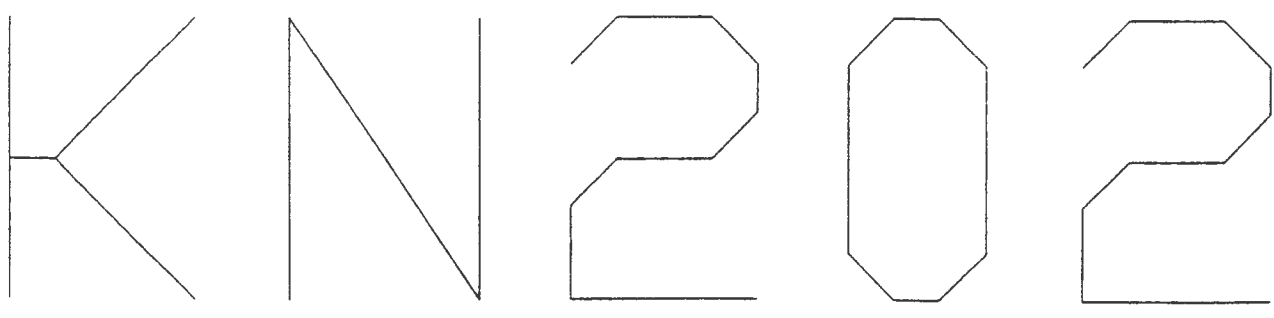
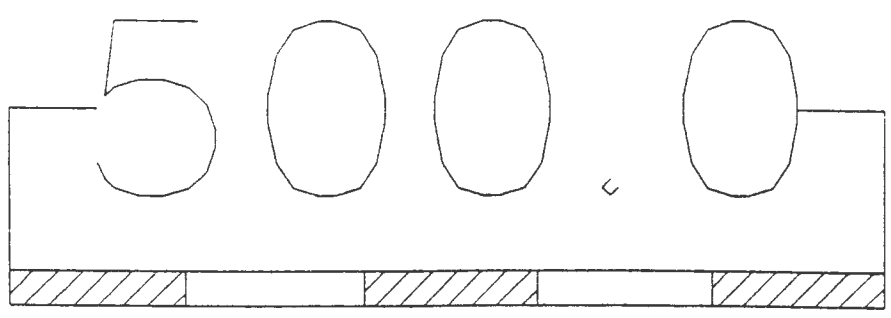
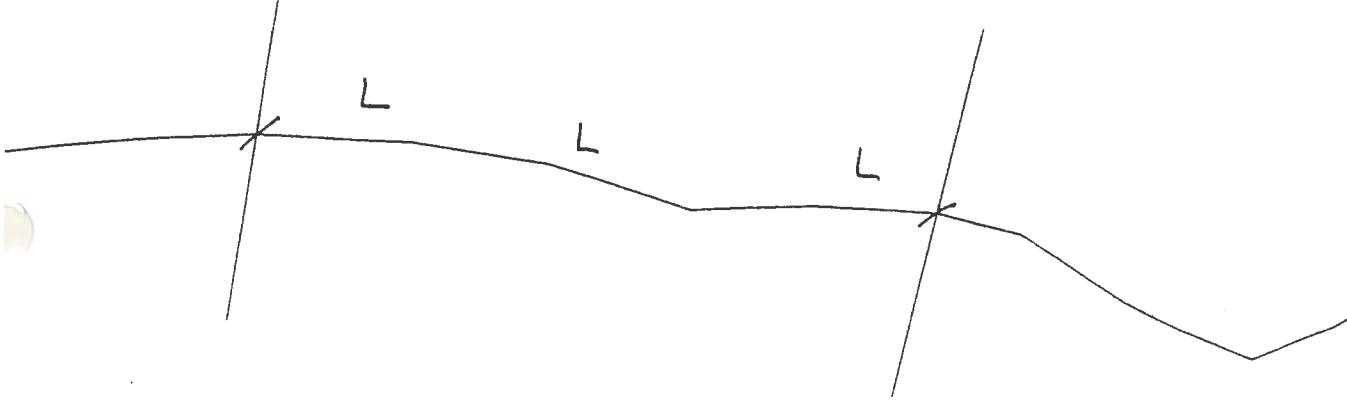
Degree of Oiling: L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 6 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN203 DATE: 10/01/89
 LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 9:00

Survey Type: Boat, Ground
 Team: B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
 Sea State: Calm Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
 Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

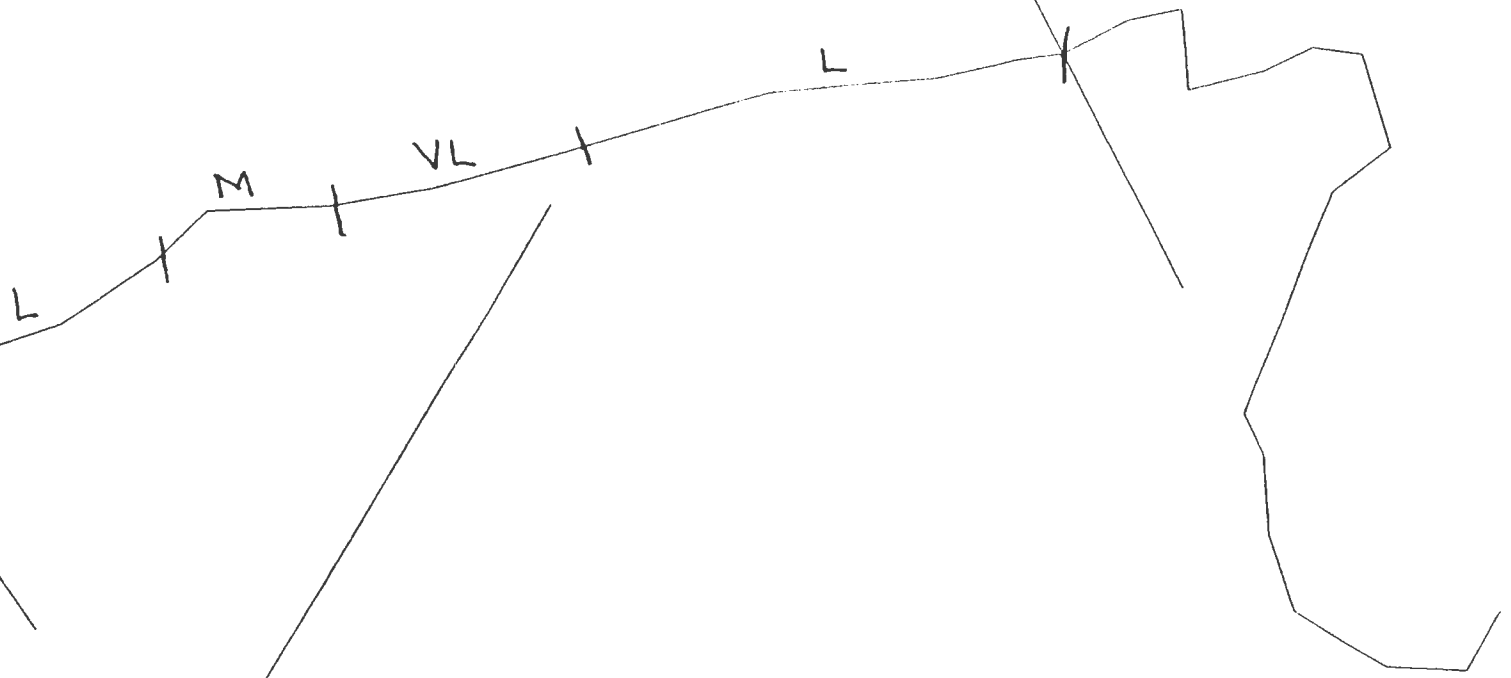
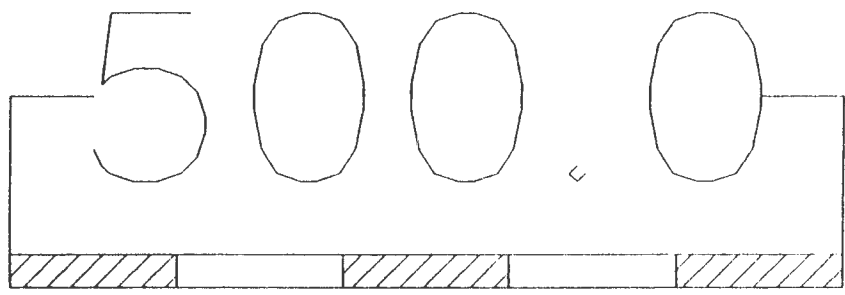
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,SY,T
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



4KN203

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN204 DATE: 10/01/89
LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 9:15

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretupes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 4 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN204-1 / KN204-2 / none / none

DAMAGED OR OILED ORGANISMS

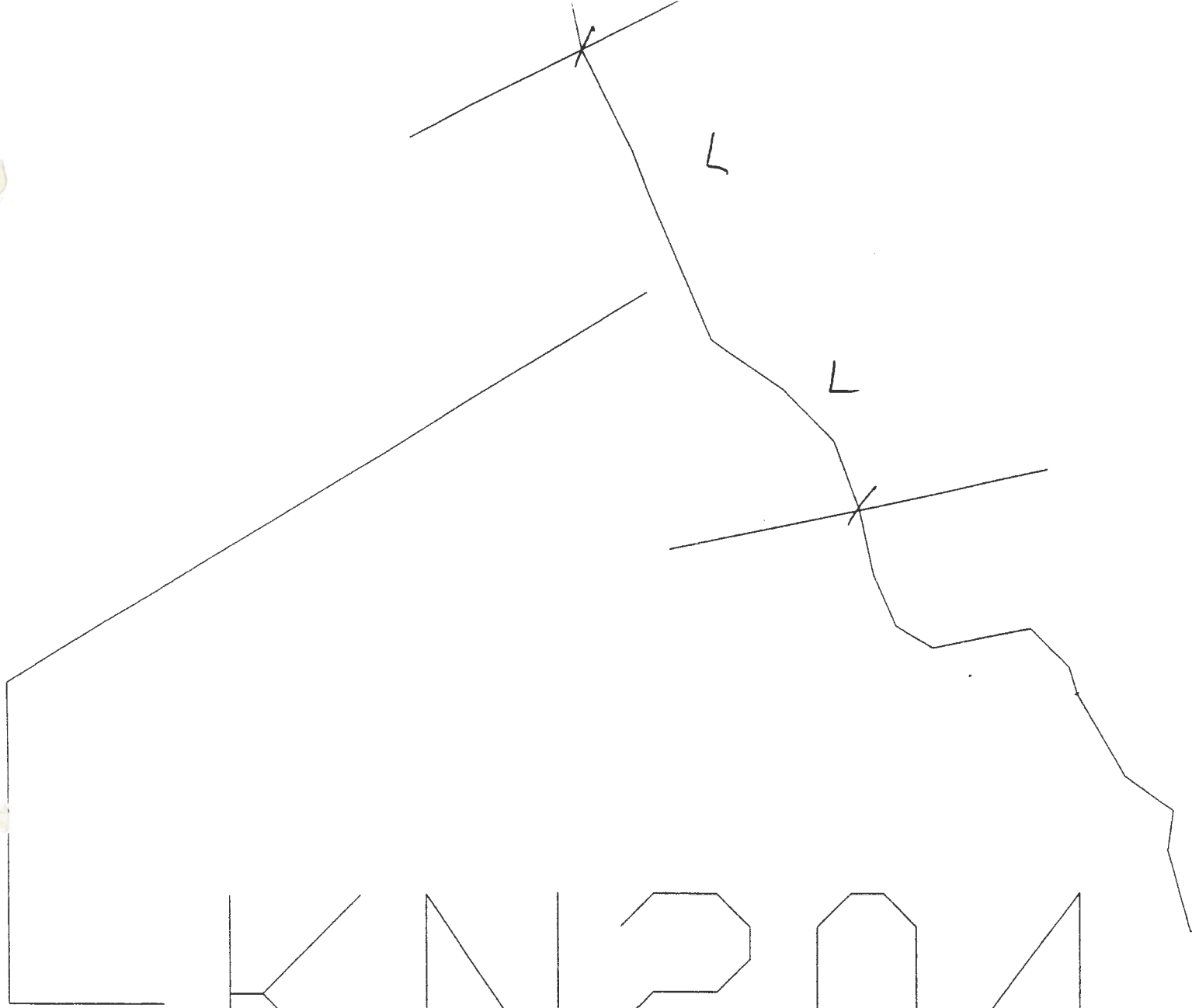
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

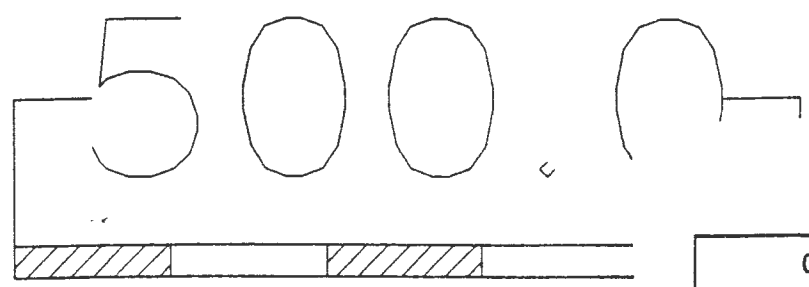
Type: One locality; boom, paint marks
Bags Collected: 0

Draft

Printed: 12/12/89 11:34



KN204



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN205 DATE: 10/01/89
LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 9:05

Survey Type: Ground
Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy, Rain Wind Direction: SW
Sea State: Calm Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretupes: LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN205-1 / KN205-2 / none / none

DAMAGED OR OILED ORGANISMS

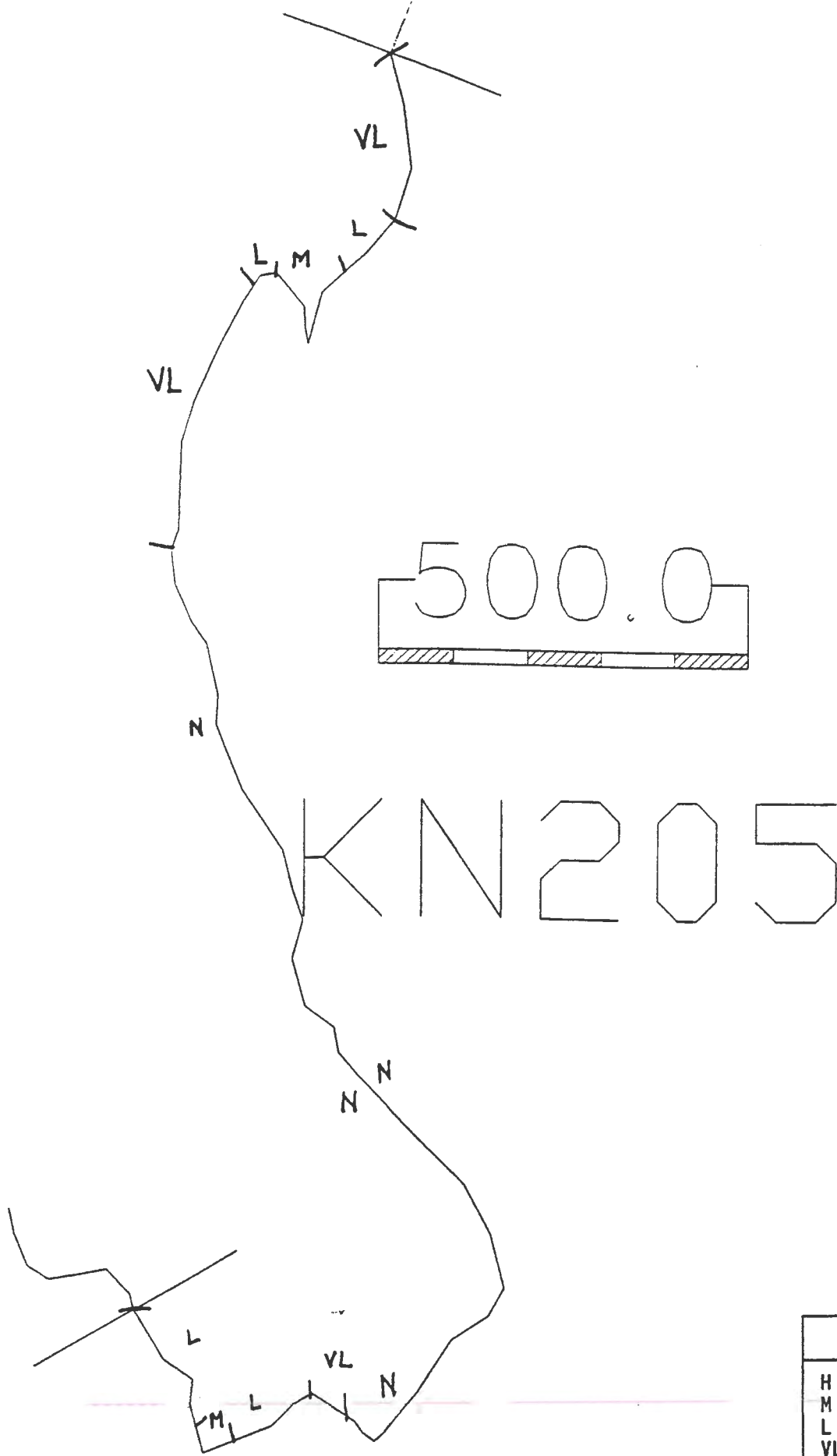
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris, signs
Bags Collected: 0

Draft

Printed: 12/12/89 11:34



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN206 DATE: 09/30/89
LOCATION: S BAY OF ISLES, KNIGHT I. TIME: 18:10

Survey Type: Boat, Ground
Team: B. McCready, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretupes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

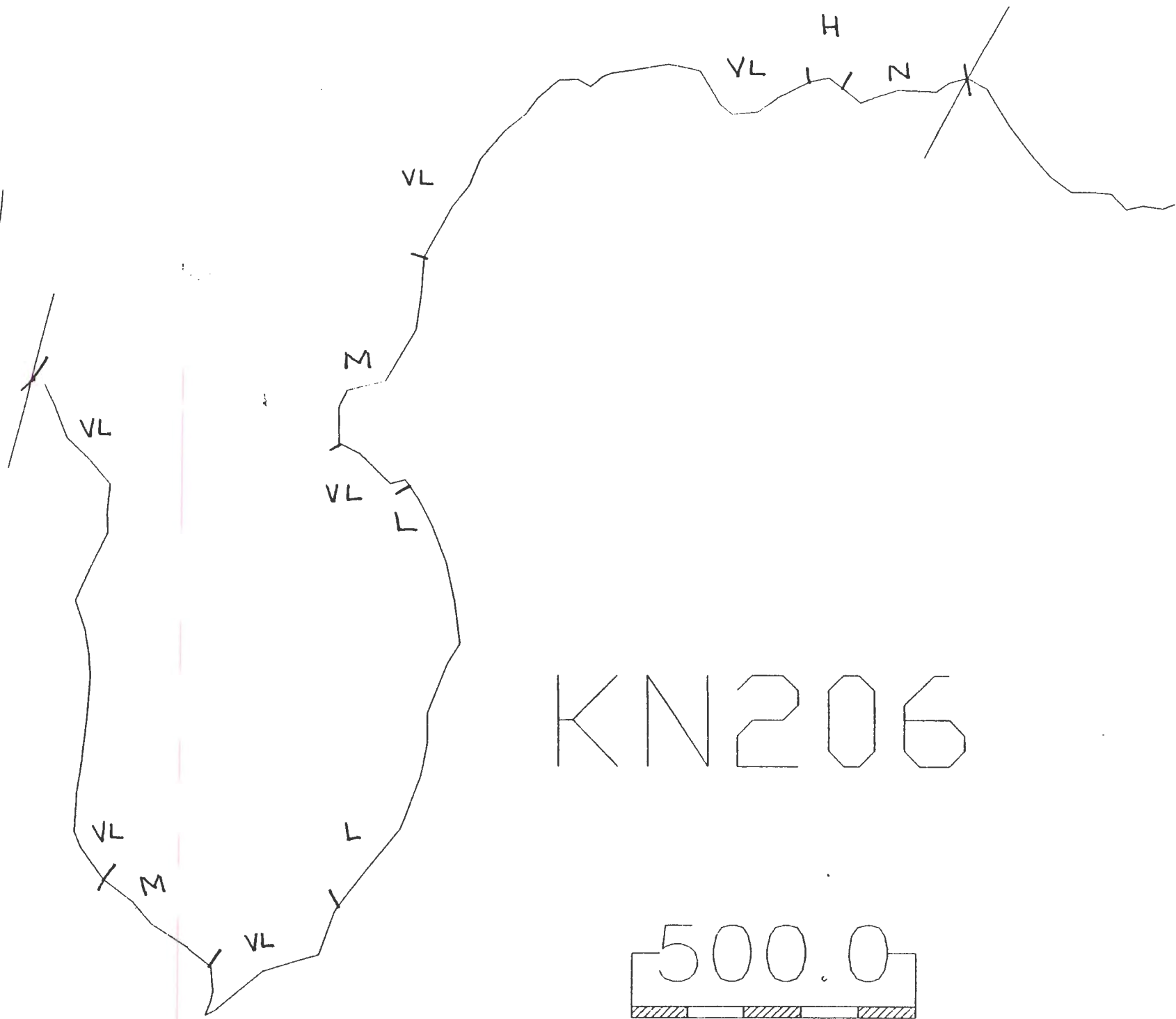
Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN200-1 / KN200-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; cleanup debris
Bags Collected: 0



KN206

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN207 DATE: 10/19/89
LOCATION: SE BAY OF ISLES, KNIGHT I. TIME: 12:36

Survey Type: Boat, Ground
Team: J. Hayes, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 10:55 Feet: 4.35 High Tide: 16:51 Feet: 13.2
Low Tide: 23:52 Feet: -0. High Tide: 5:34 Feet: 10.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

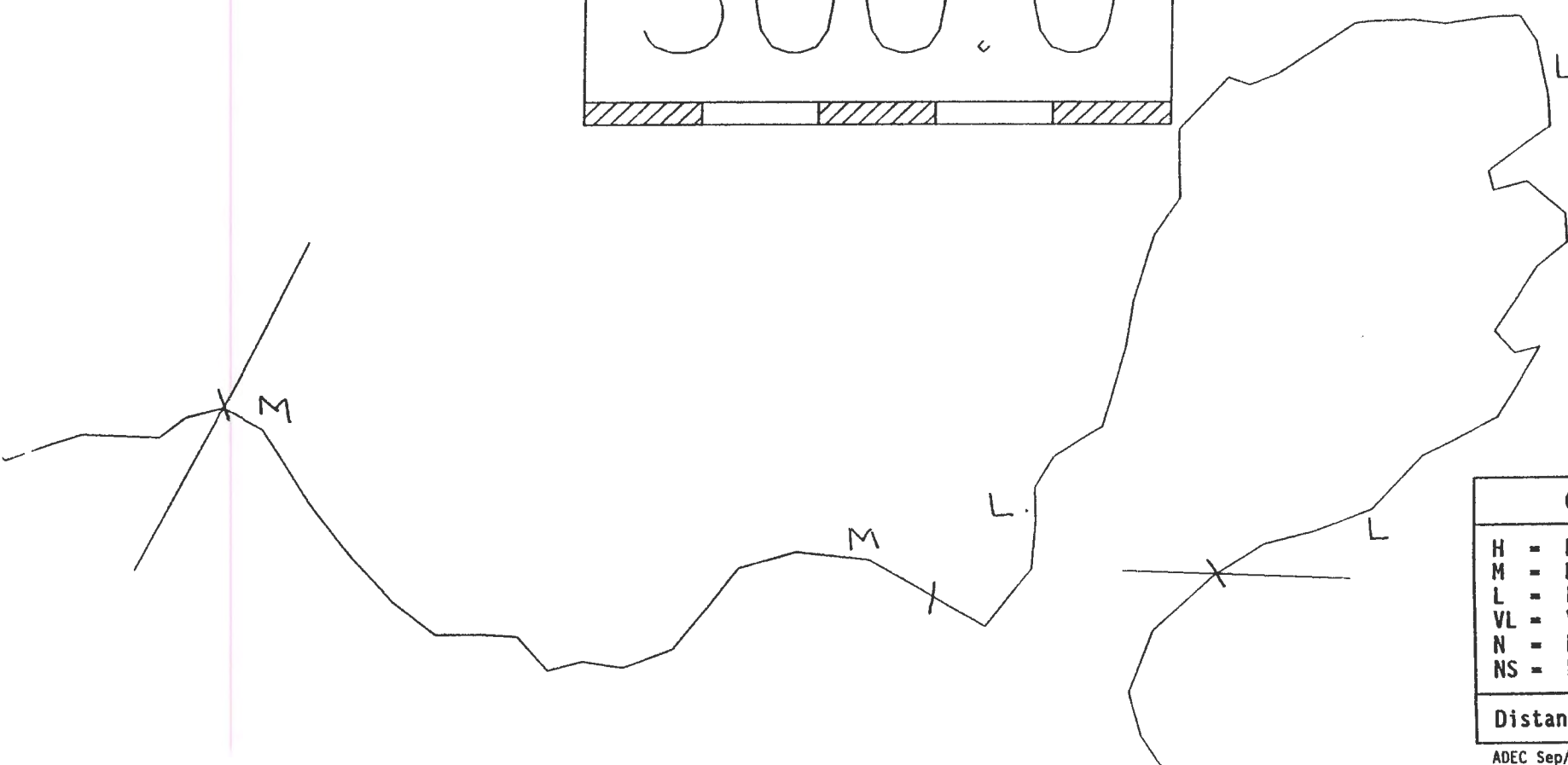
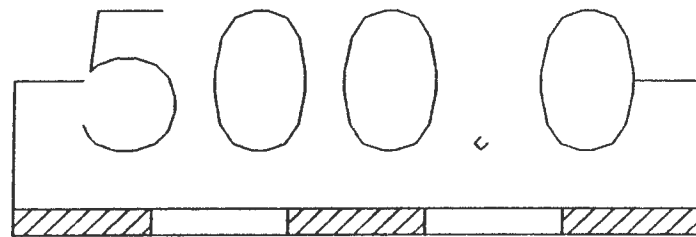
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris
Bags Collected: 0

KN207

500.0



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN208 DATE: 10/01/89
LOCATION: W BAY OF ISLES, KNIGHT I. TIME: 10:58

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

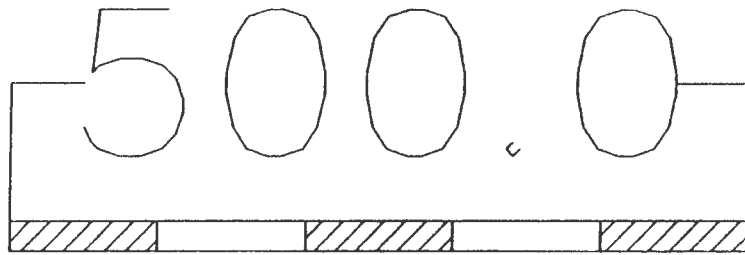
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

K N 2 0 8



VL

VL L VL

VL

L

OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

N

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN210
 LOCATION: NE KNIGHT ISLAND

DATE: 09/20/89
 TIME: 12:00

Survey Type: Boat, Ground
 Team: J. DeRuyter, M. Ebel, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
 Sea State: Calm Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
 Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN210-1 / KN210-2 / none / none

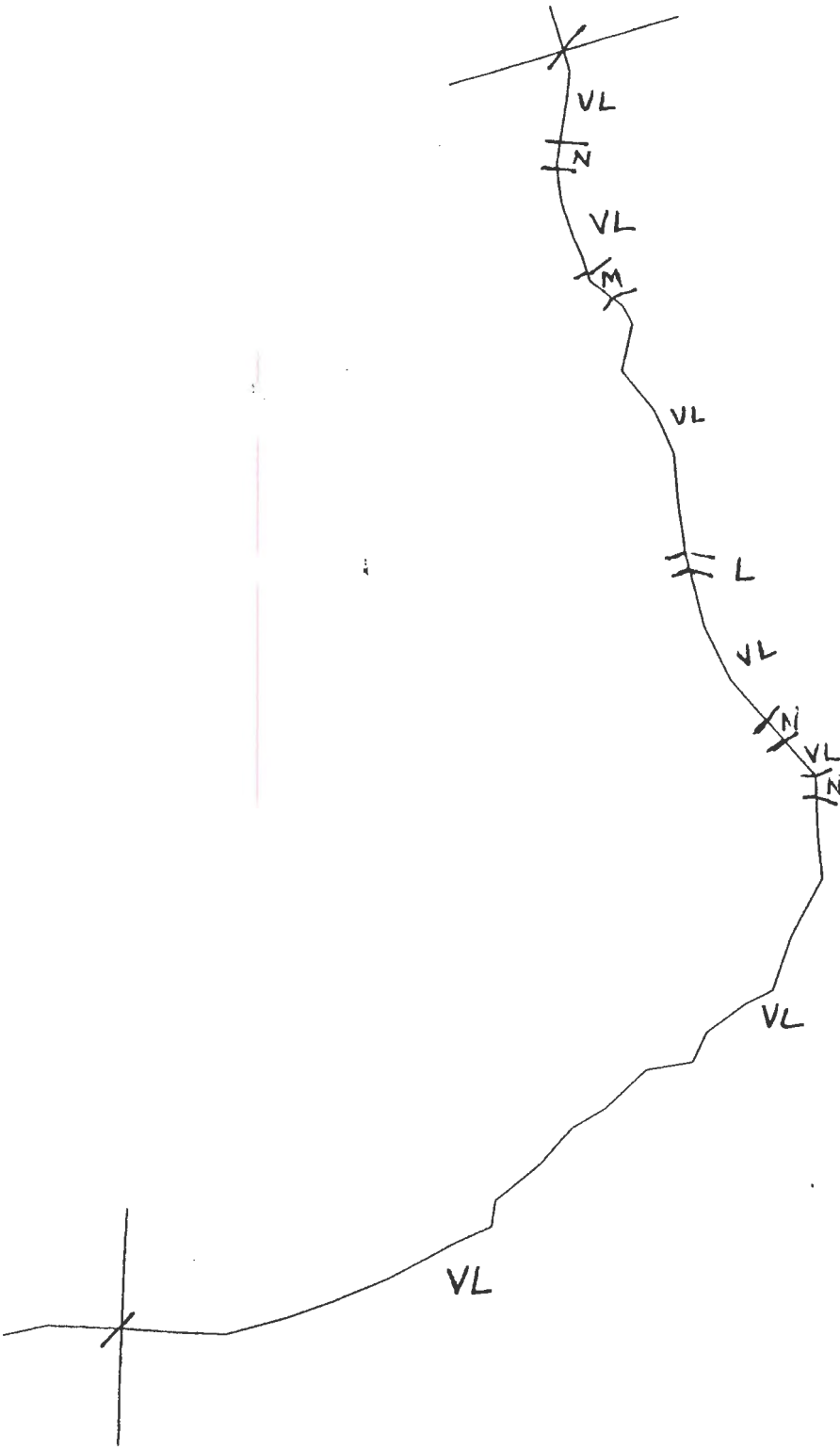
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

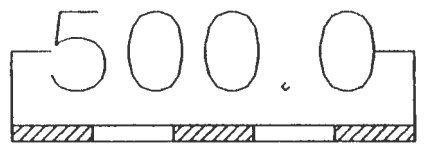
SOLID WASTE FOUND

Type: None

Bags Collected: 0



KN210



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN211
 LOCATION: NE KNIGHT ISLAND

DATE: 09/20/89
 TIME: 10:15

Survey Type: Boat, Ground
 Team: B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: SE
 Sea State: Moderate Knots: 0-15

Low Tide: 11:12 Feet: 3.23 High Tide: 17:15 Feet: 13.3
 Low Tide: -0- Feet: -0- High Tide: 5:38 Feet: 10.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M,L
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 50 cm (35 = 35 cm or greater)

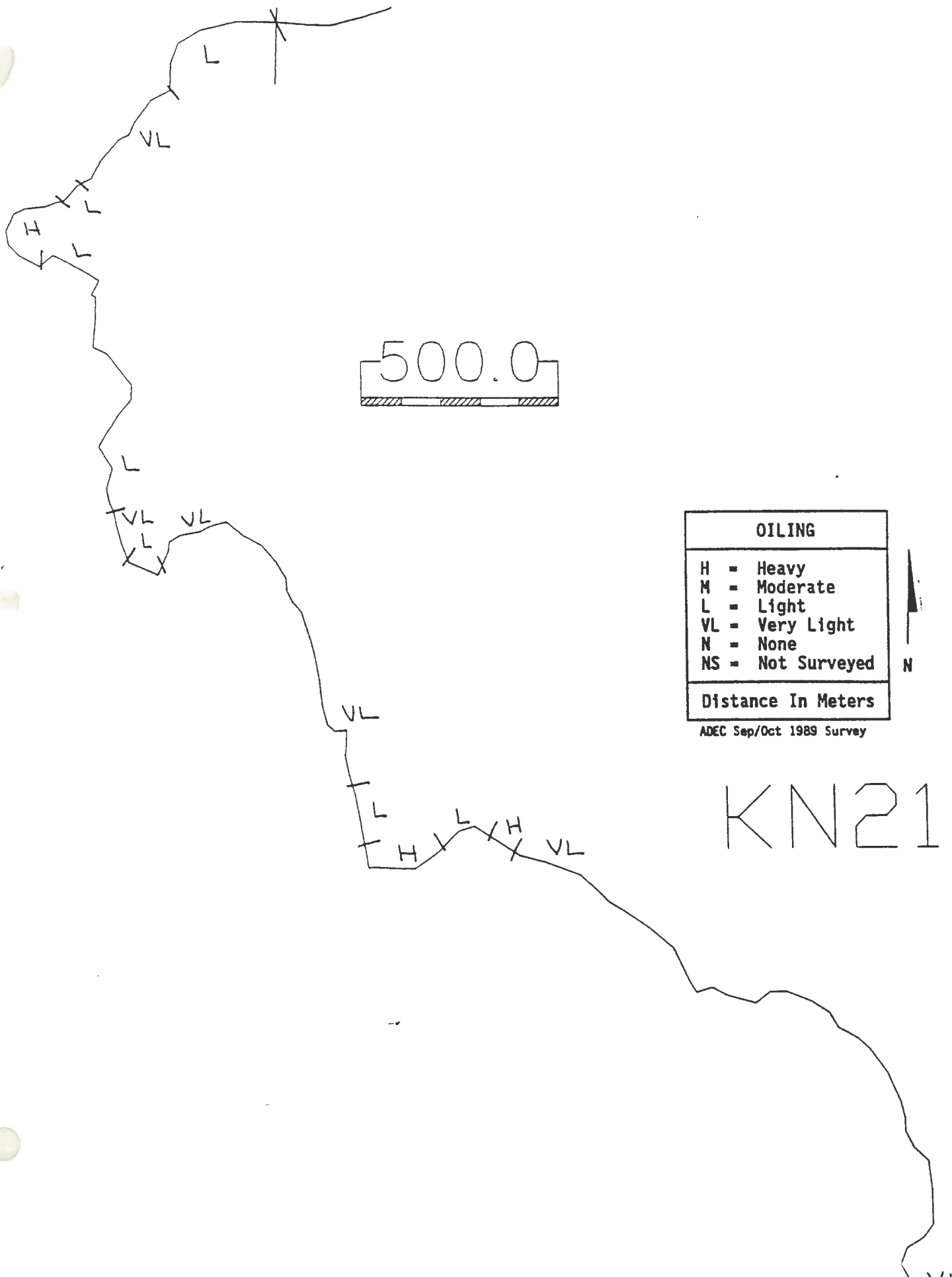
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: P,SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: KN211-1 / KN211-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
 Bags Collected: 0



500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

KN211

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN213
LOCATION: E CENTRAL KNIGHT ISLAND

DATE: 09/30/89
TIME: 18:30

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 20:39	Feet: -0.2	High Tide: 2:18	Feet: 11.9
Low Tide: 8:15	Feet: 0.9	High Tide: 14:22	Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: M,SY,T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

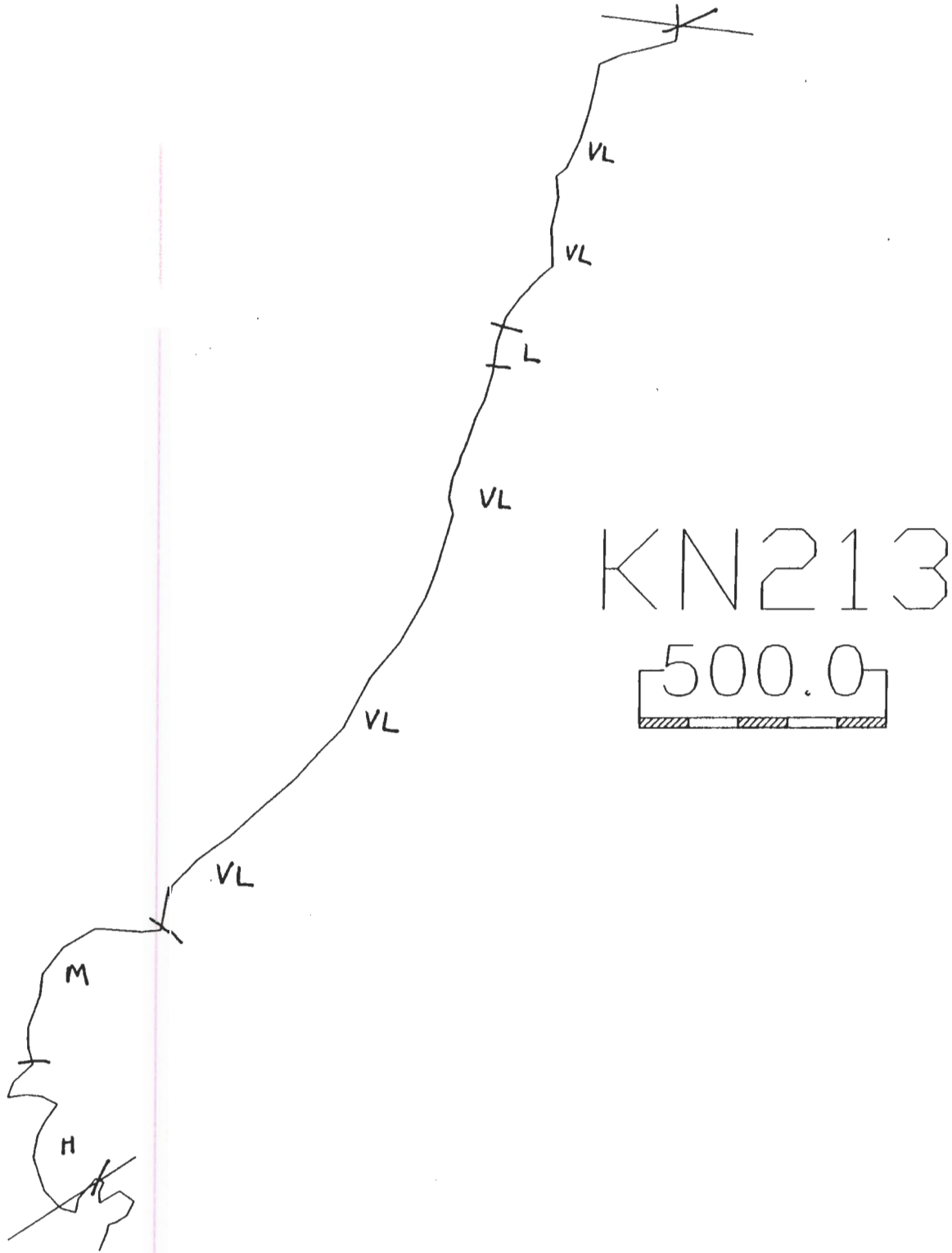
Samples: KN213-1 / KN213-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, cleanup debris, garbage
Bags Collected: 1



KN213



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN214 DATE: 09/30/89
LOCATION: E CENTRAL KNIGHT ISLAND TIME: 17:45

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

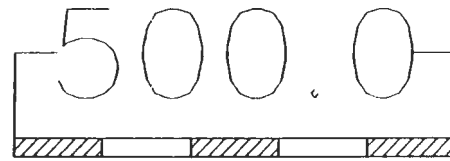
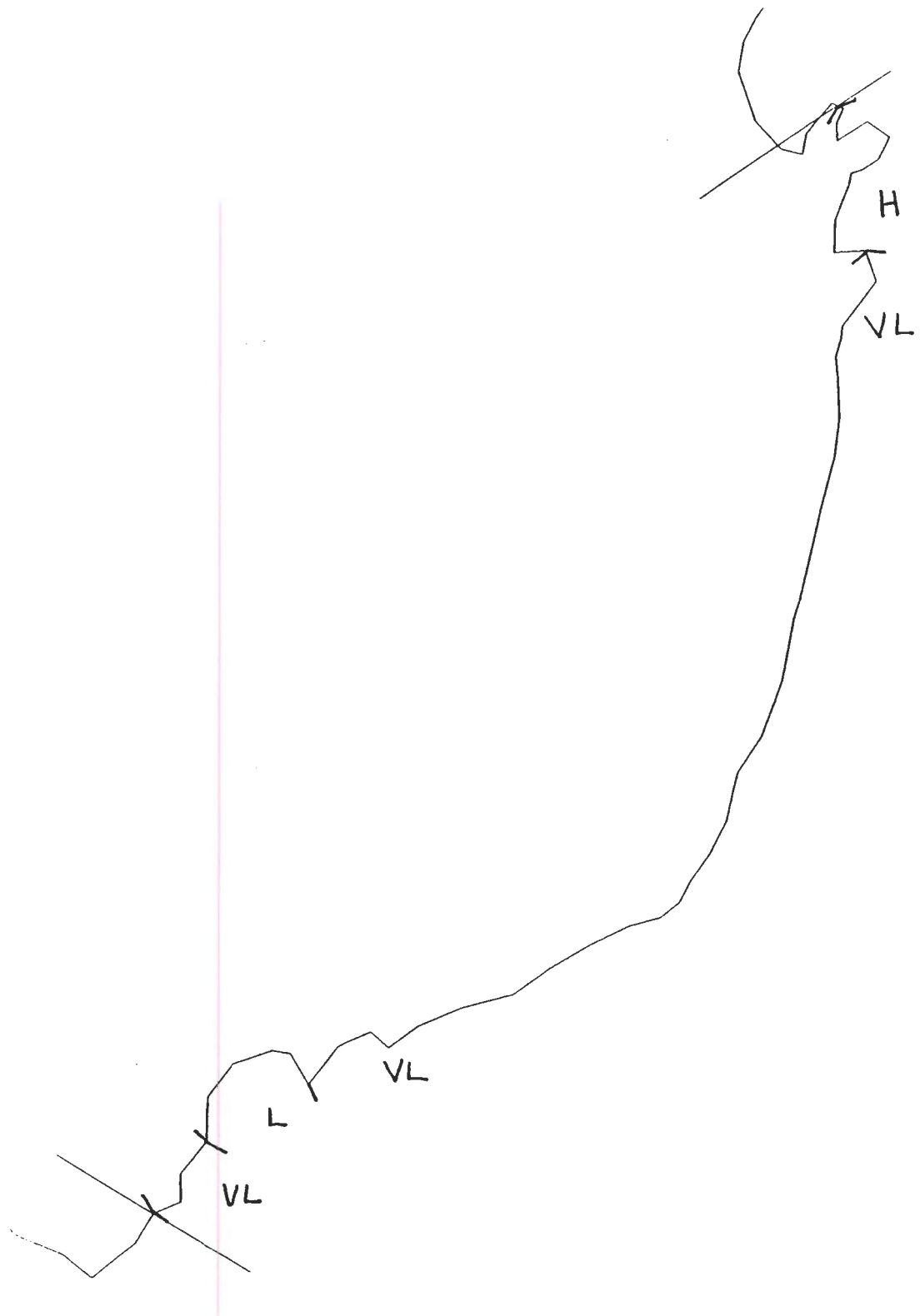
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

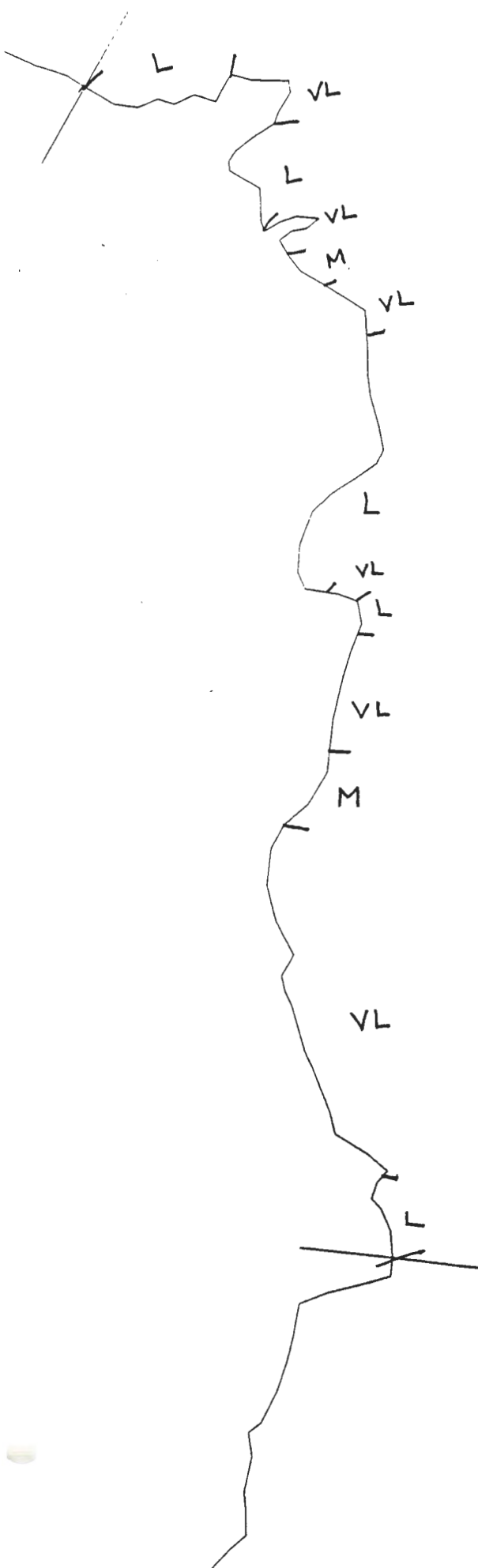
Type: Few localities, boom, cleanup debris
Bags Collected: 1



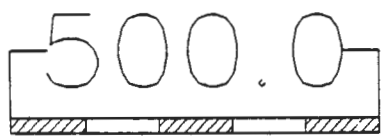
KN214

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	





KN212



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN212
LOCATION: E CENTRAL KNIGHT ISLAND

DATE: 09/30/89
TIME: 17:50

Survey Type: Boat, Ground
Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: E
Sea State: Rough Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,L,S
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 36 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: M,SY,T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

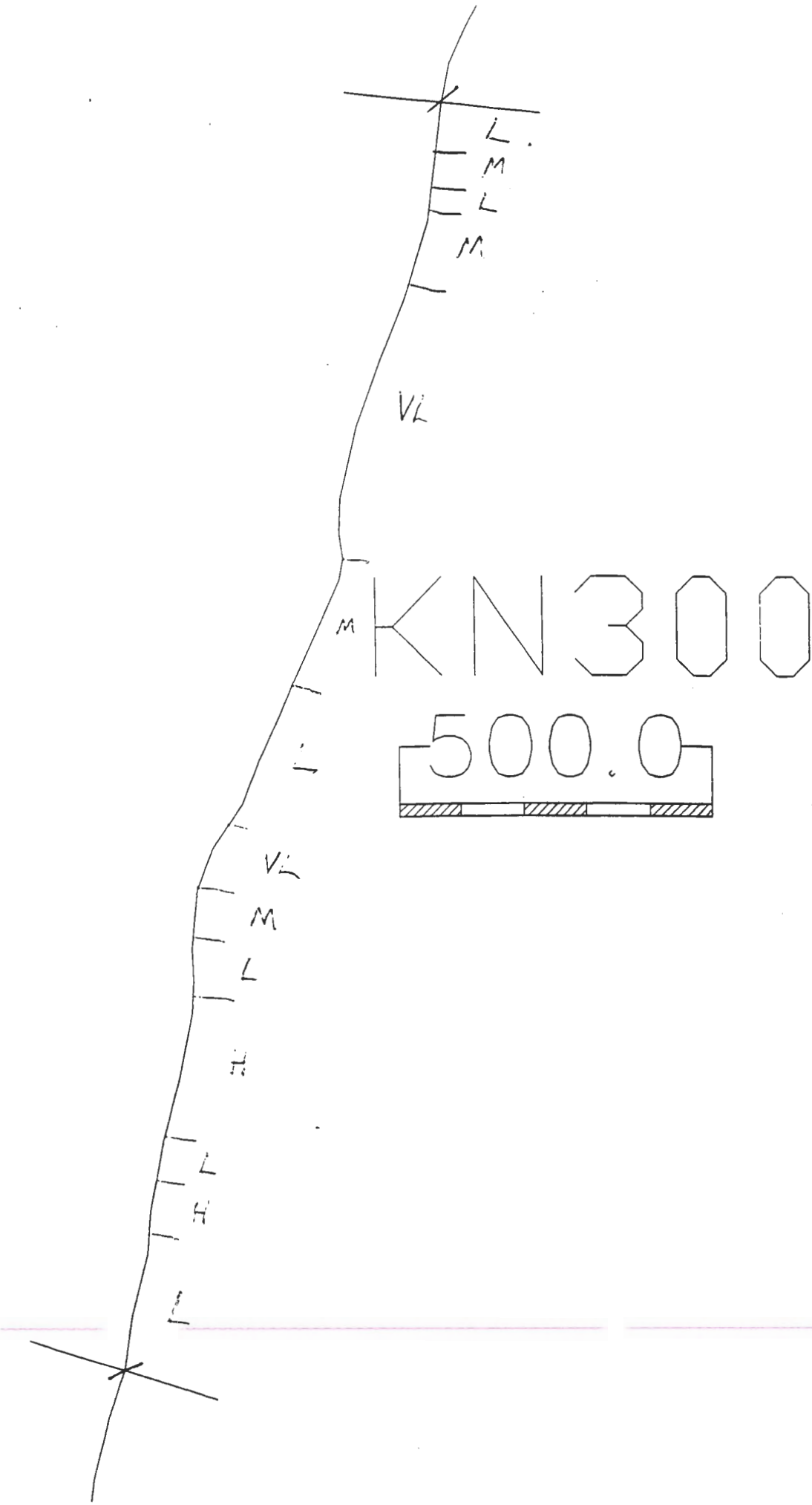
Samples: KN212-1 / KN212-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; cleanup debris, signs, paint
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN301 DATE: 09/16/89
LOCATION: E HERRING BAY, KNIGHT I. TIME: 8:18

Survey Type: Boat, Ground
Team: M. Baer, C. Robinson, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN301-1 / KN301-2 / none / none

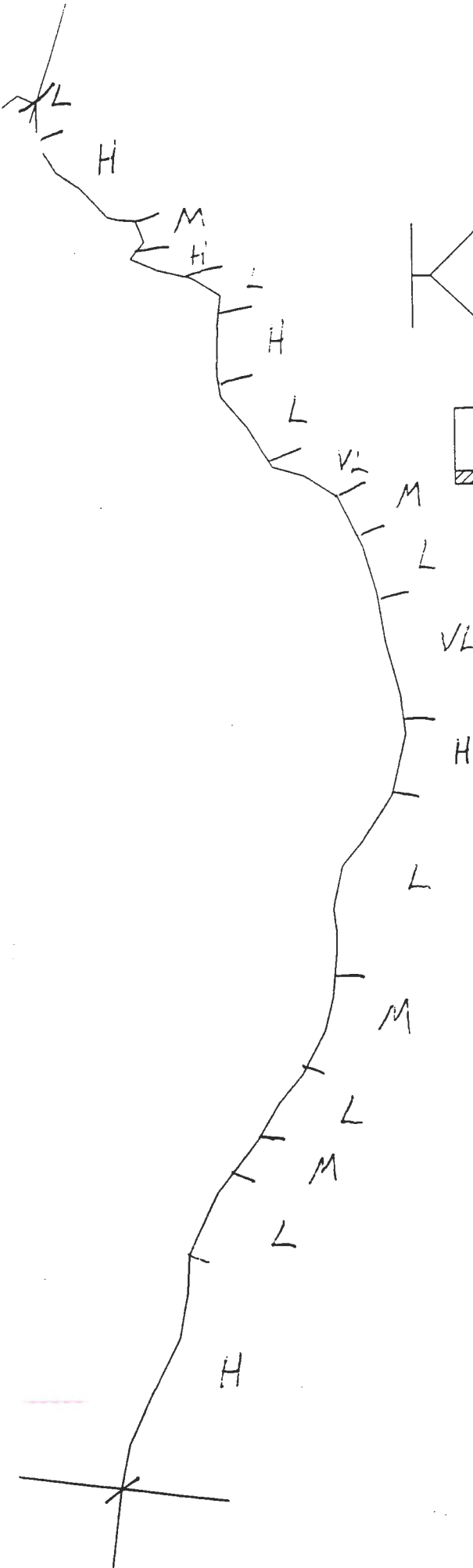
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

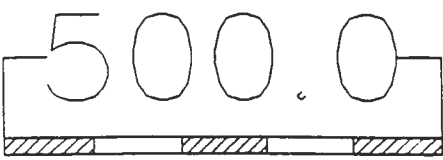
SOLID WASTE FOUND

Type: None

Bags Collected: 0



KN301



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN400 DATE: 09/30/89
LOCATION: N SNUG HARBOR, KNIGHT I. TIME: 9:30

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 4 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN400-1 / KN400-2 / none / none

DAMAGED OR OILED ORGANISMS

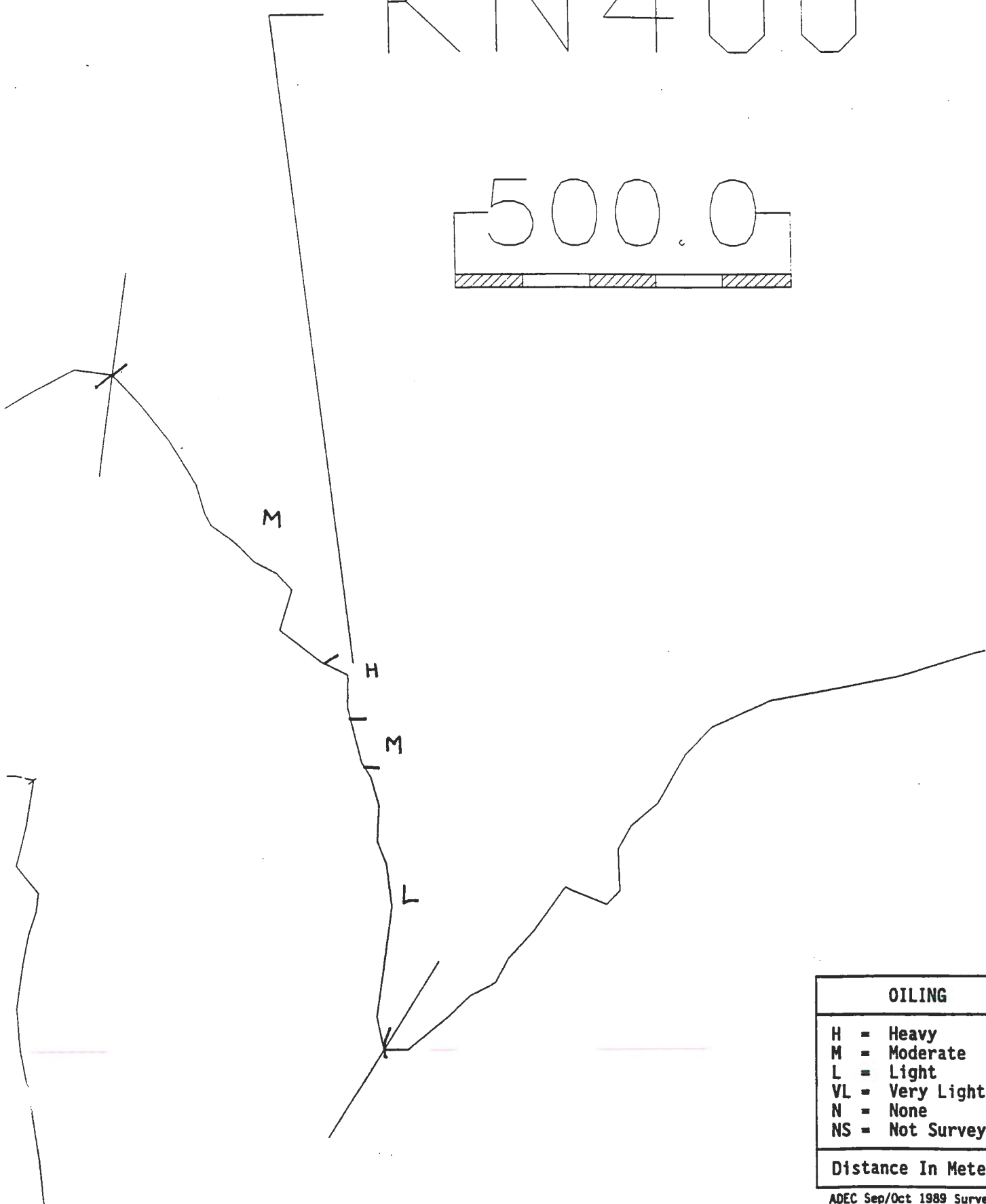
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Boom, cleanup debris, other
Bags Collected: 0

KN400

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN401 . DATE: 09/30/89
LOCATION: W SNUG HARBOR, KNIGHT I. TIME: 9:55

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN401-1 / KN401-2 / none / none

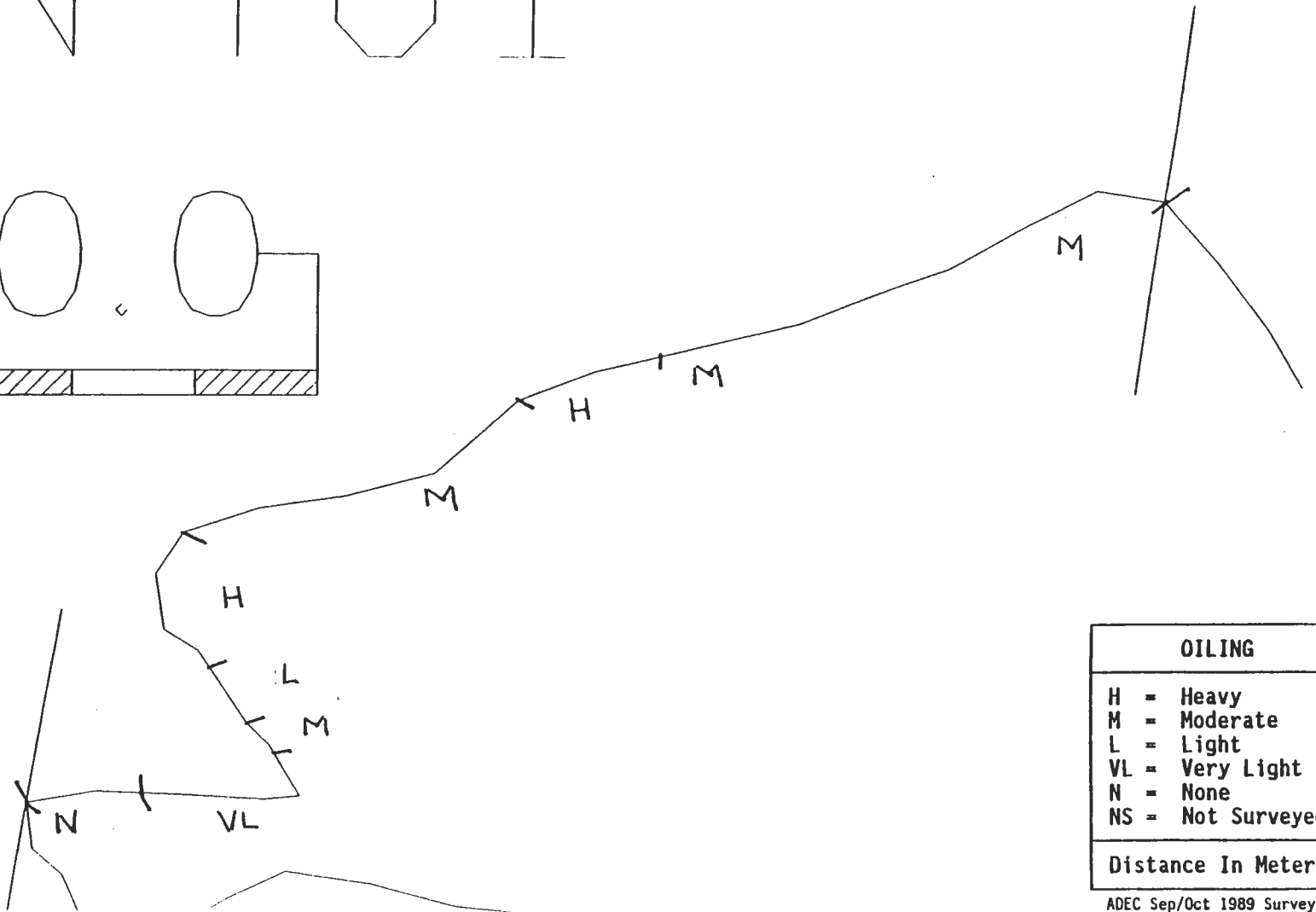
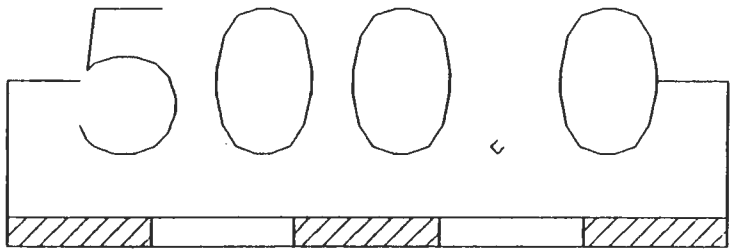
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, garbage, signs
Bags Collected: 0

KN 401



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN402 DATE: 09/30/89
LOCATION: W SNUG HARBOR, KNIGHT I. TIME: 10:45

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

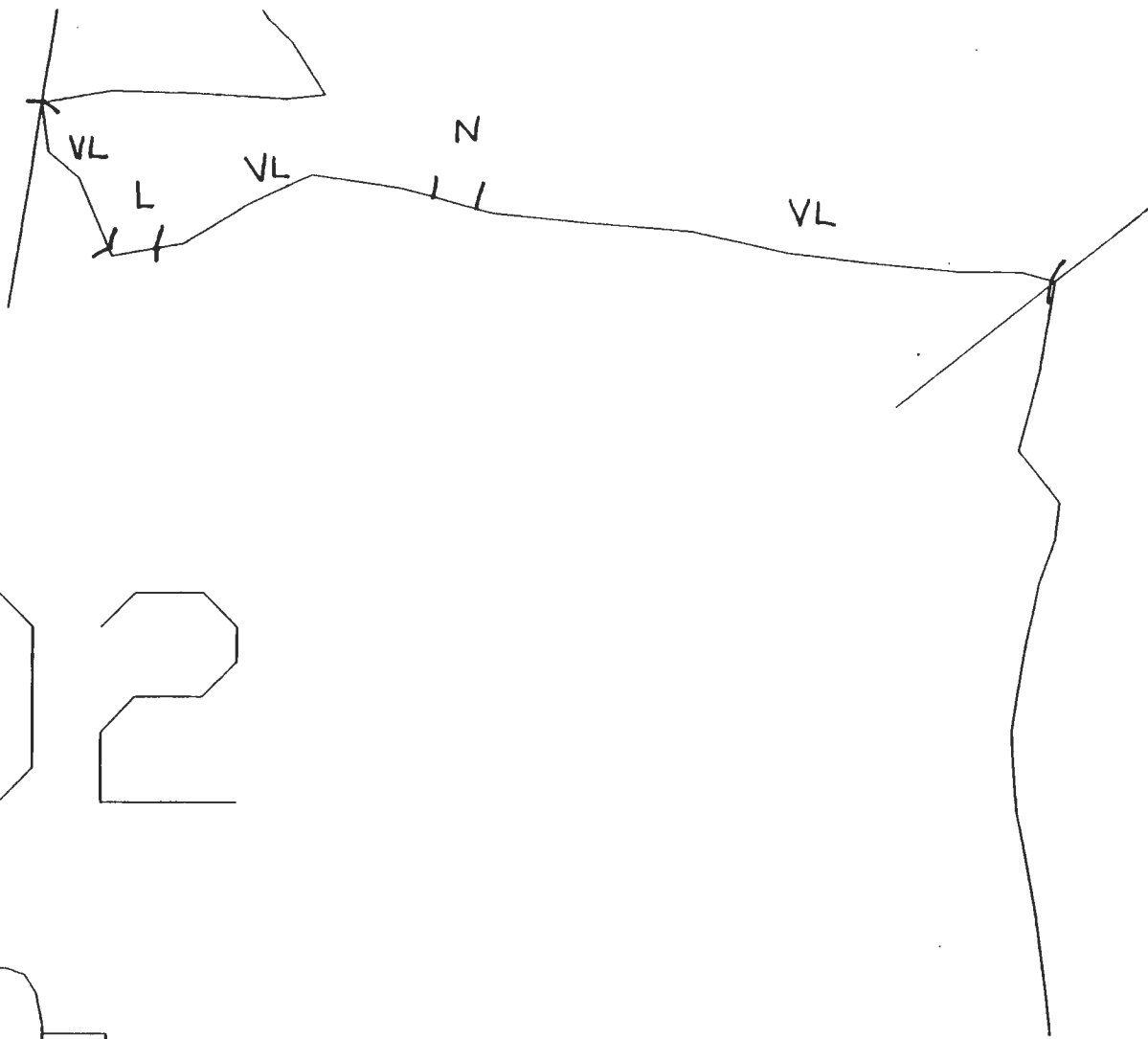
Degree of Oiling: N,VL,L
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 3 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN402-1 / KN401-2 / none / none

DAMAGED OR OILED ORGANISMS

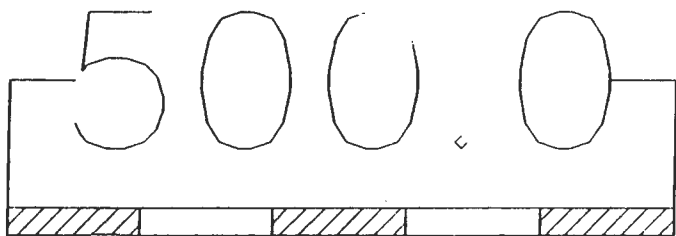
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Other
Bags Collected: 0



KN402



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN403 DATE: 09/30/89
LOCATION: W SNUG HARBOR, KNIGHT I. TIME: 11:10

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: NE
Sea State: Calm Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN403-1 / KN403-2 / none / none

DAMAGED OR OILED ORGANISMS

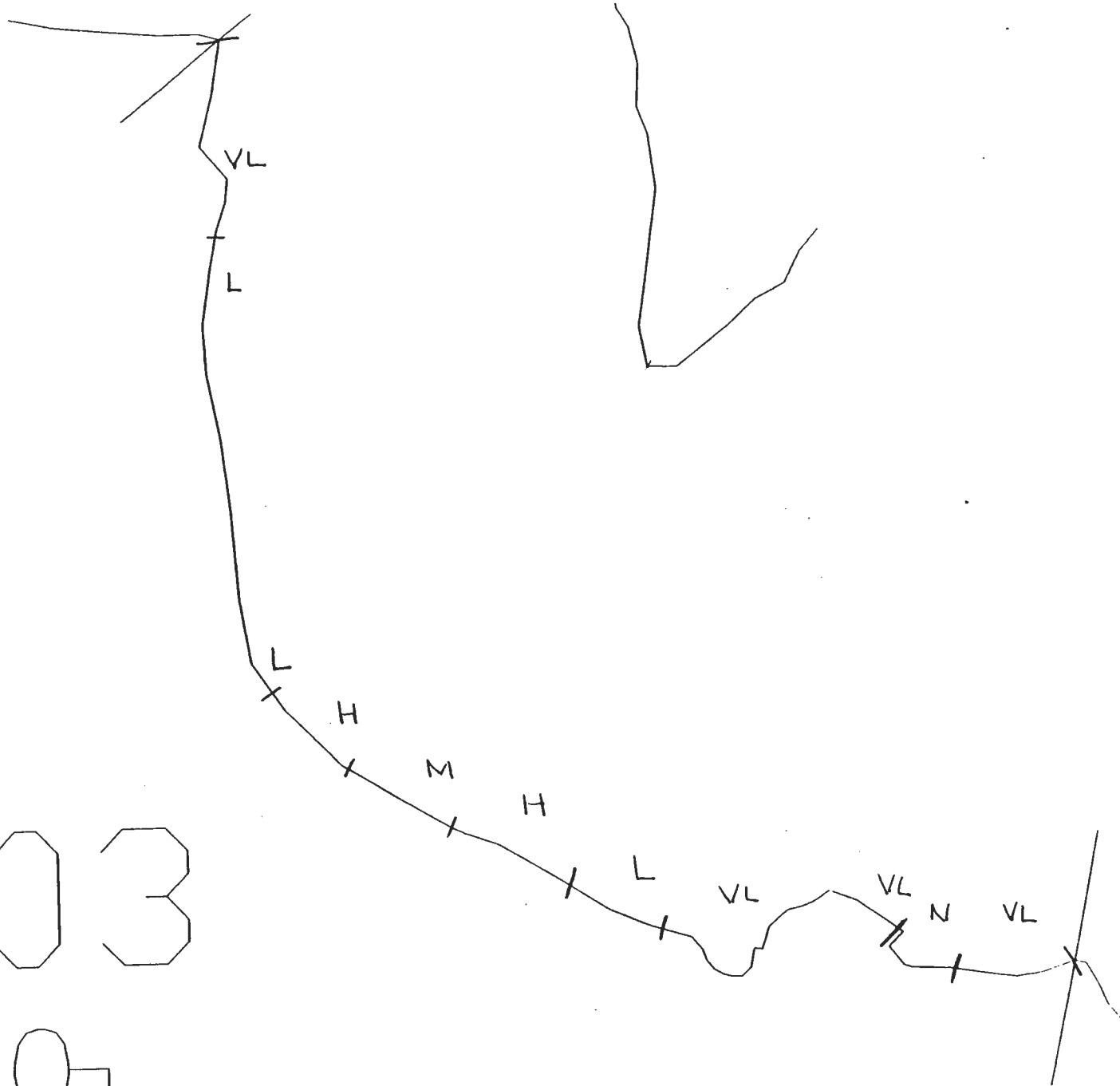
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

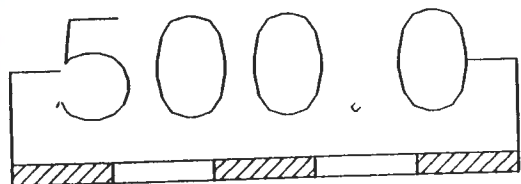
Type: Boom, signs, paint marks
Bags Collected: 0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



KN403



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN404
LOCATION: SE KNIGHT ISLAND

DATE: 09/30/89
TIME: 10:20

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN404-1 / KN404-2 / none / none

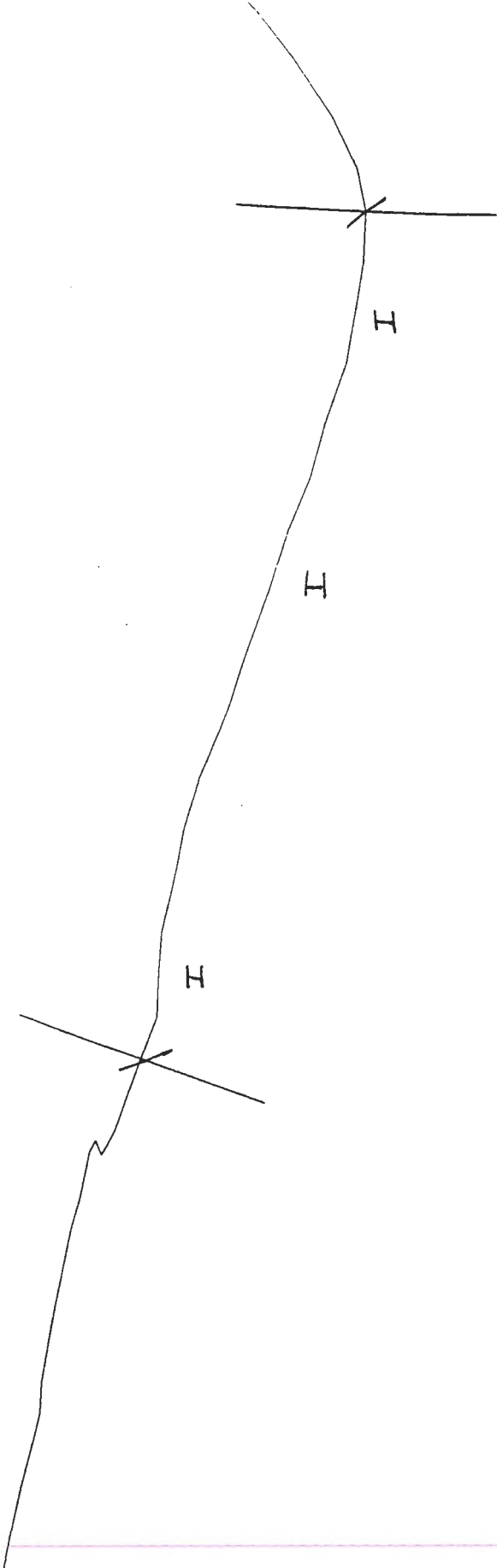
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, garbage
Bags Collected: 0

KN404



500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN405 DATE: 09/30/89
LOCATION: PT. HELENS, KNIGHT ISLAND TIME: 8:55

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretupes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 45 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

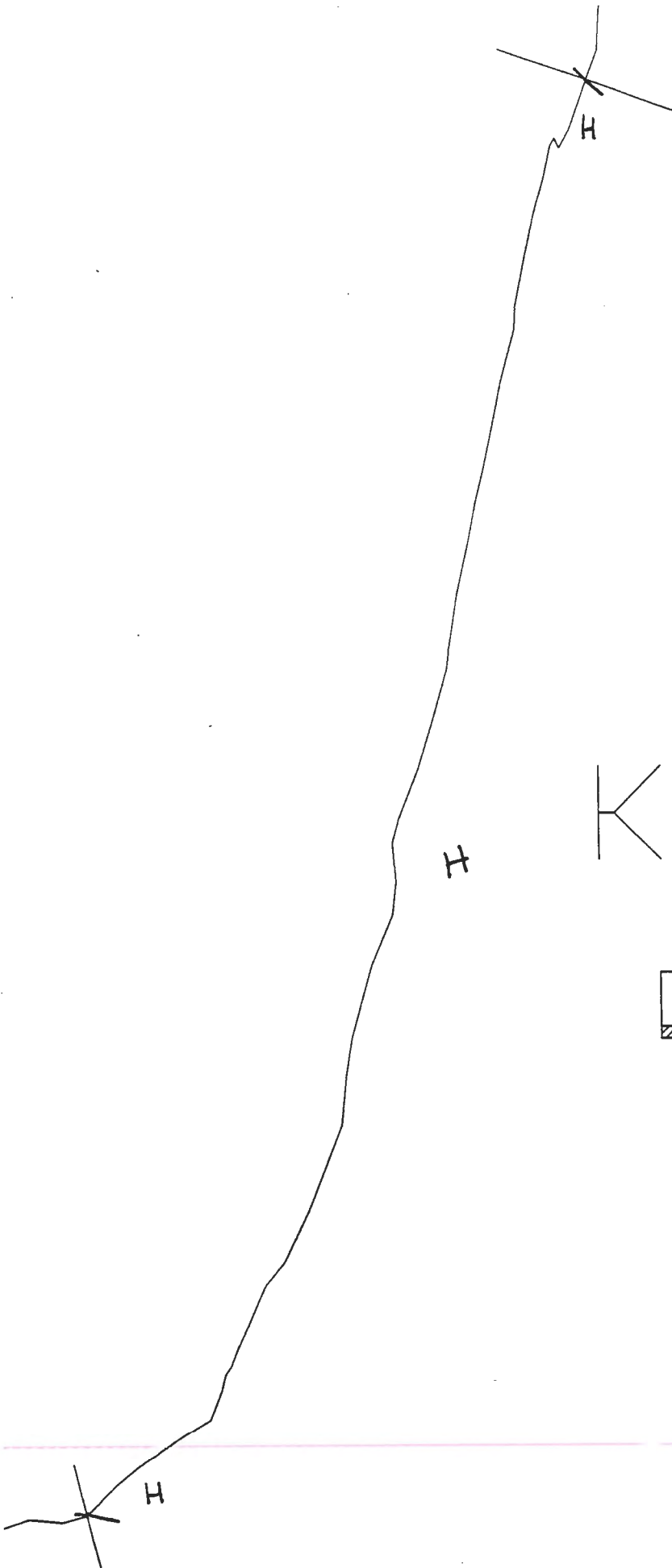
Samples: KN405-1 / KN405-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, paints marks
Bags Collected: 0



KN405



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN406
LOCATION: SE KNIGHT ISLAND

DATE: 09/30/89
TIME: 8:54

Survey Type: Boat, Ground
Team: B. McCready, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: variable
Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN406-1 / KN406-2 / none / none

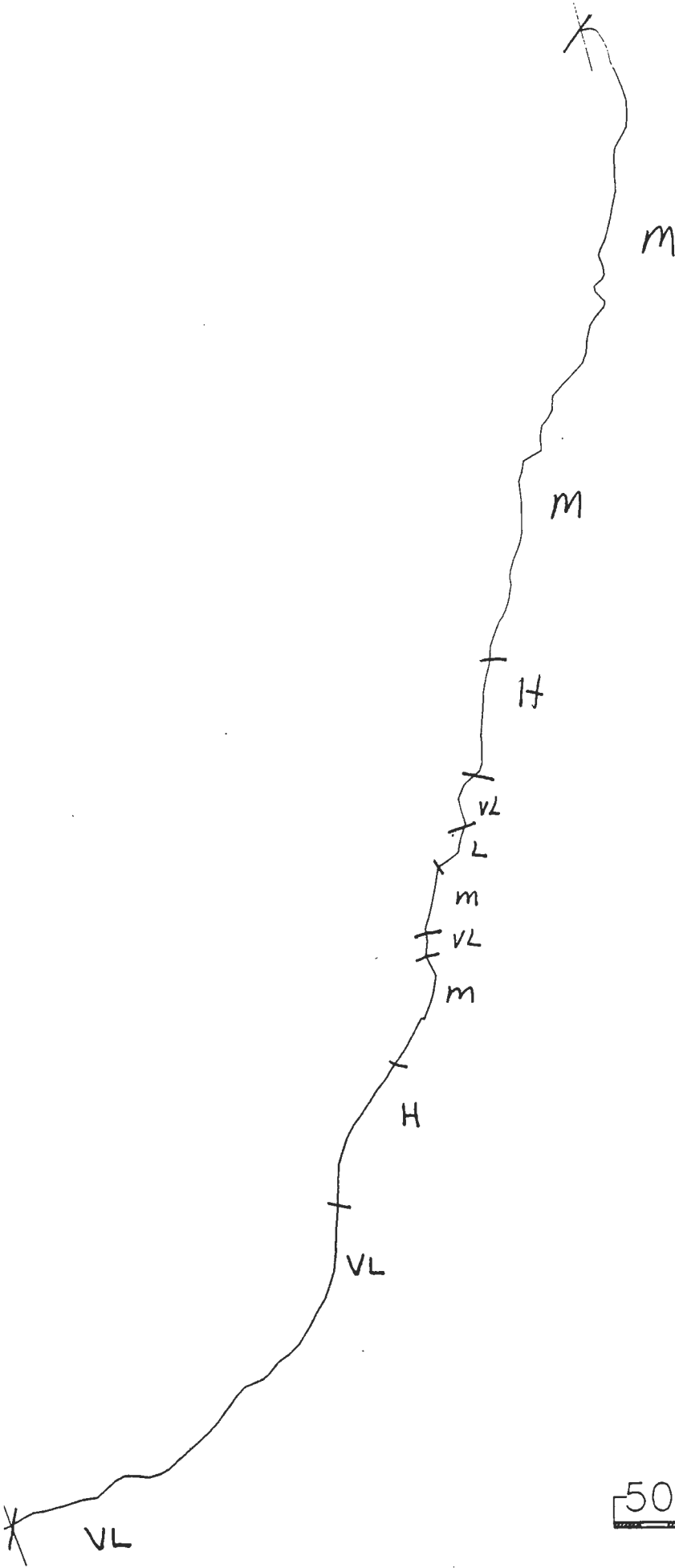
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, cleanup debris
Bags Collected: 0

KN-006



500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN407 DATE: 09/30/89
LOCATION: SE SNUG HARBOR, KNIGHT I. TIME: 18:20

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 4 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

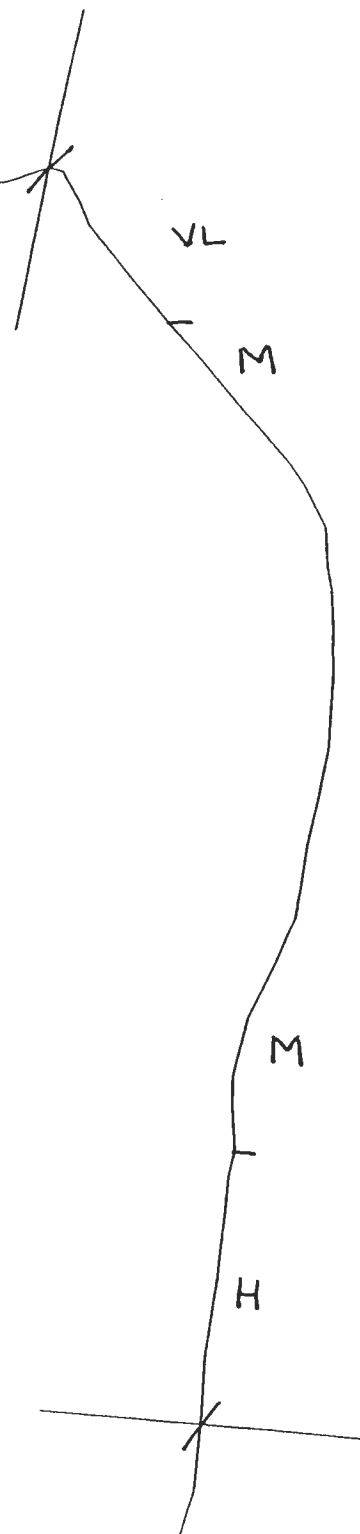
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN407

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN408 DATE: 09/30/89
LOCATION: S SNUG HARBOR, KNIGHT I. TIME: 18:20

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 3 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN408-1 / KN408-2 / none / none

DAMAGED OR OILED ORGANISMS

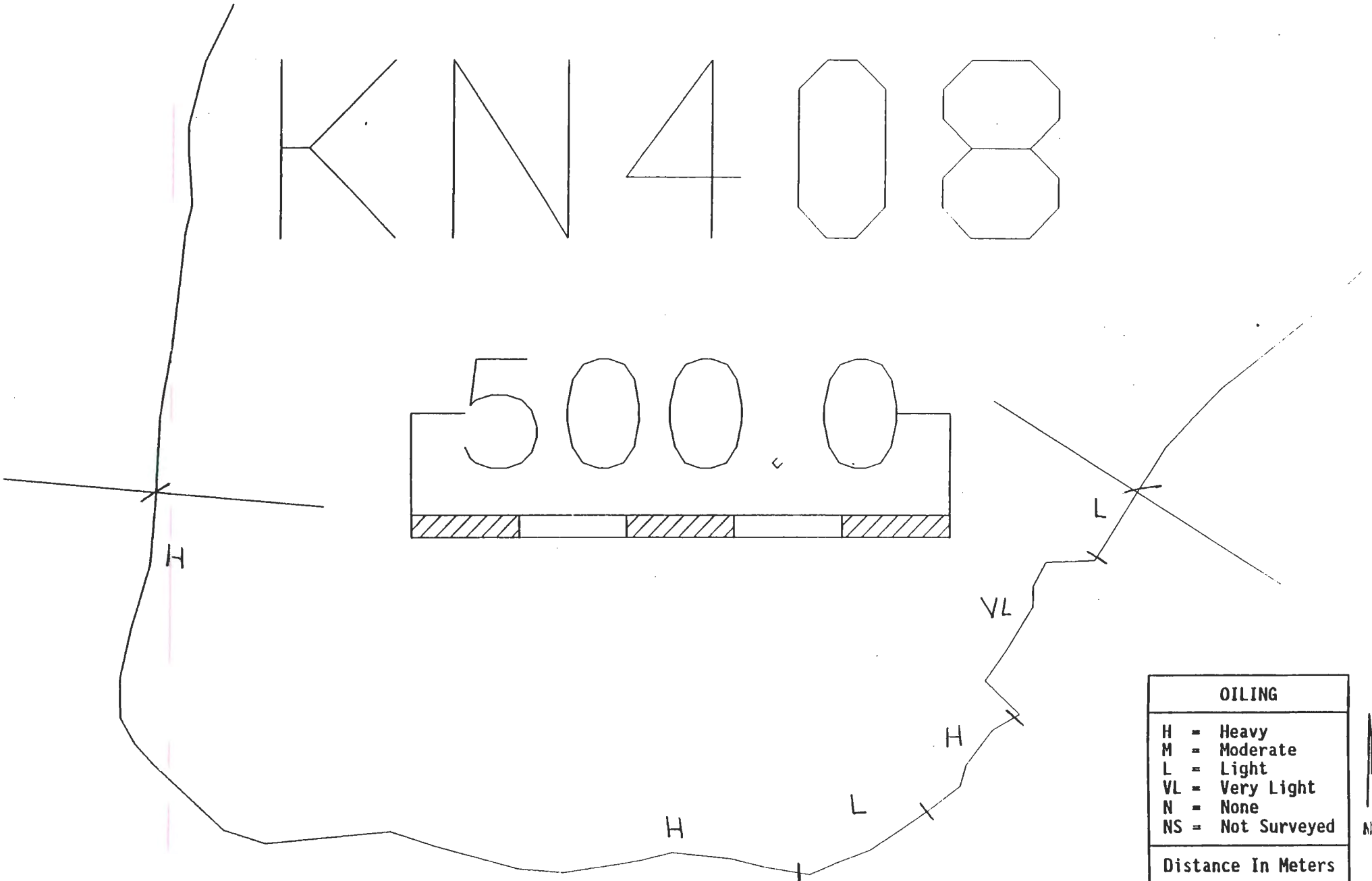
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, paint marks
Bags Collected: 0

KN408

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN409 DATE: 09/30/89
LOCATION: SE SNUG HARBOR, KNIGHT I. TIME: 11:30

Survey Type: Boat, Ground
Team: B. McCready, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

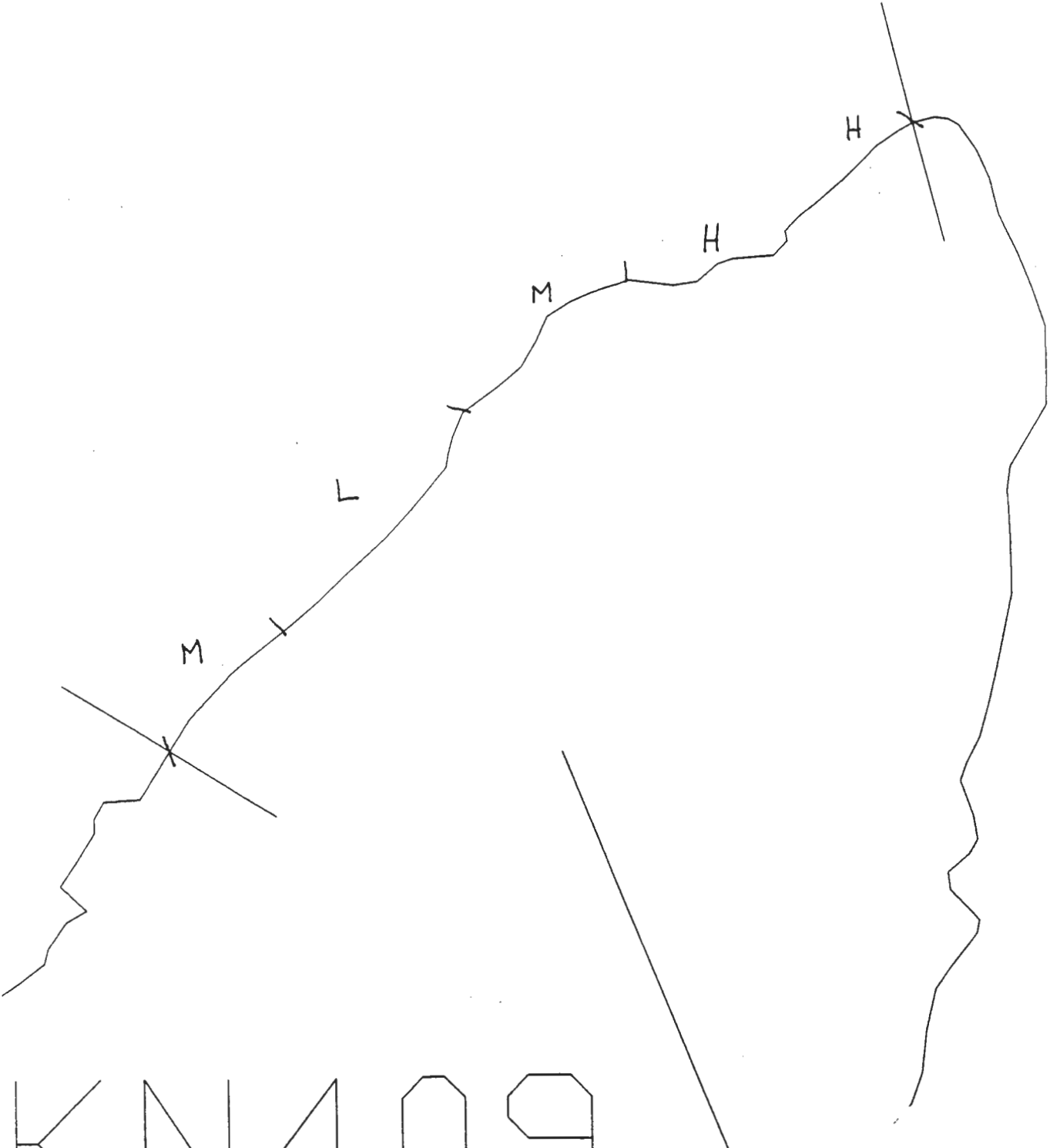
Degree of Oiling: L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN406-1 / KN406-2 / none / none

DAMAGED OR OILED ORGANISMS

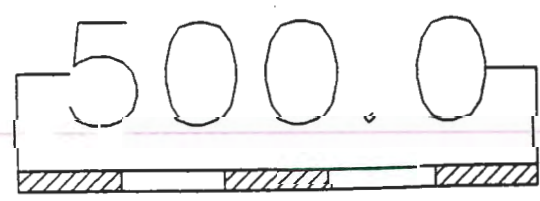
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
Bags Collected: 0



KN409



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN410 DATE: 09/30/89
LOCATION: W HOGAN BAY, KNIGHT I. TIME: 10:30

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretupes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN410-1 / KN410-2 / none / none

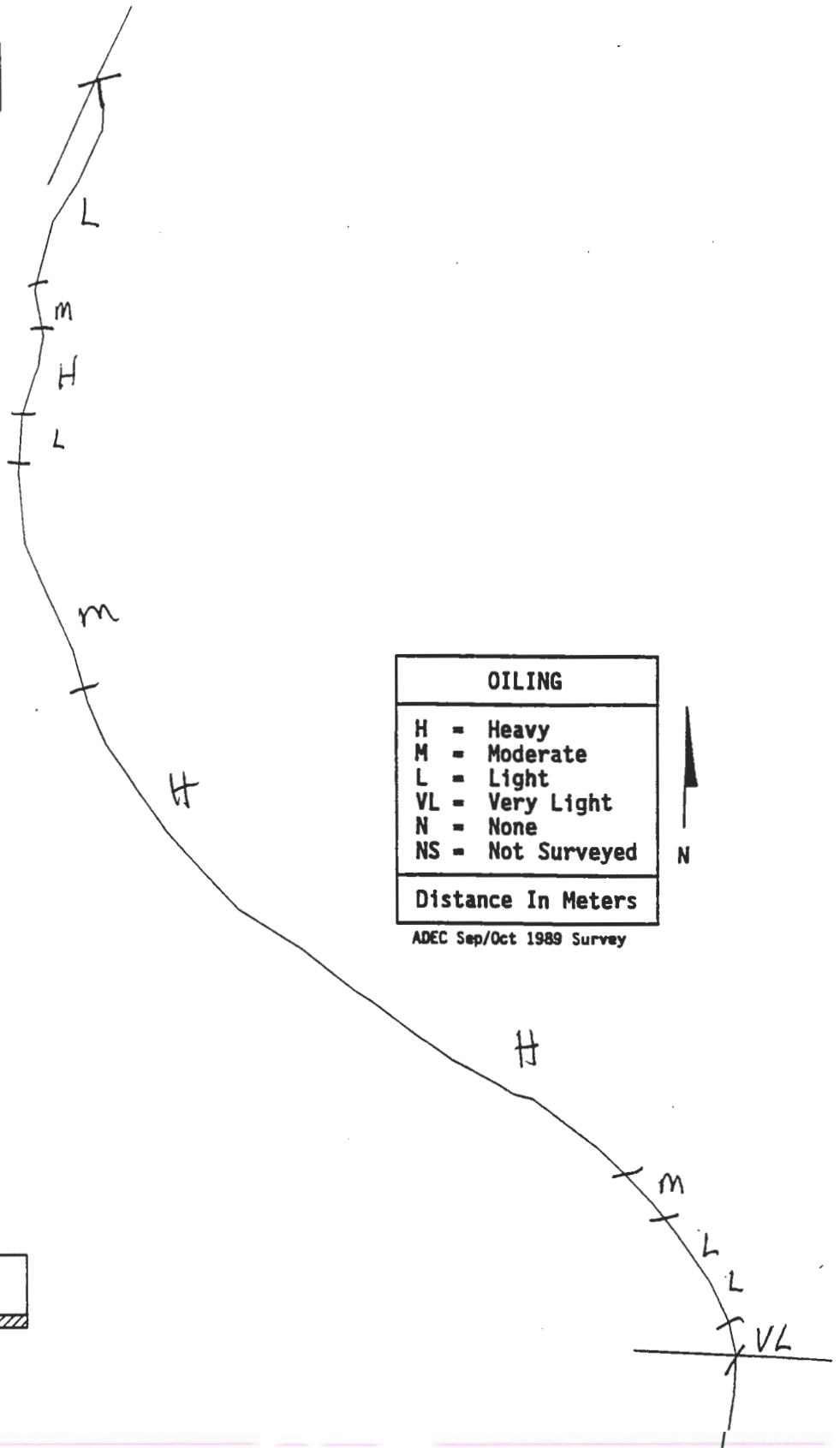
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, garbage
Bags Collected: 0

KN410



500.0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN411

LOCATION: NW HOGAN BAY, KNIGHT I.

DATE: 09/30/89

TIME: 11:54

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%

Presence of Oiled Driftwood (y/n): y

Oil Types: T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN411-1 / KN411-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

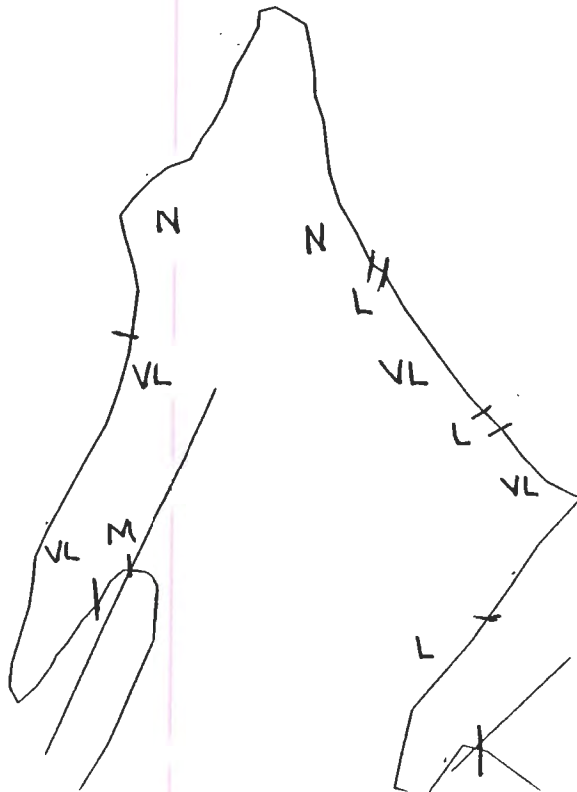
SOLID WASTE FOUND

Type: None

Bags Collected: 0

KN411

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN412
LOCATION: N HOGAN BAY, KNIGHT I.

DATE: 09/30/89
TIME: 17:11

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Rain
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 4 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

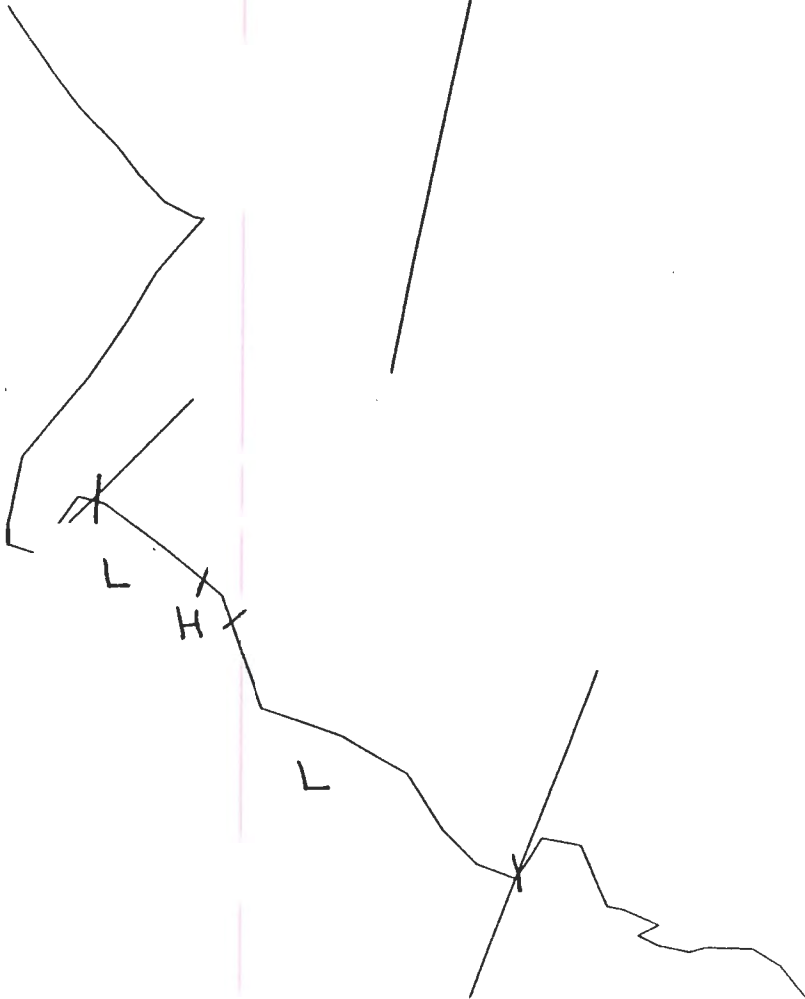
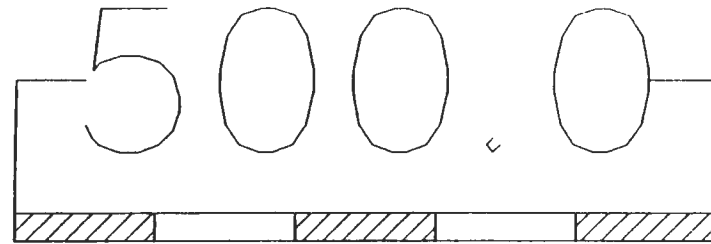
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN412

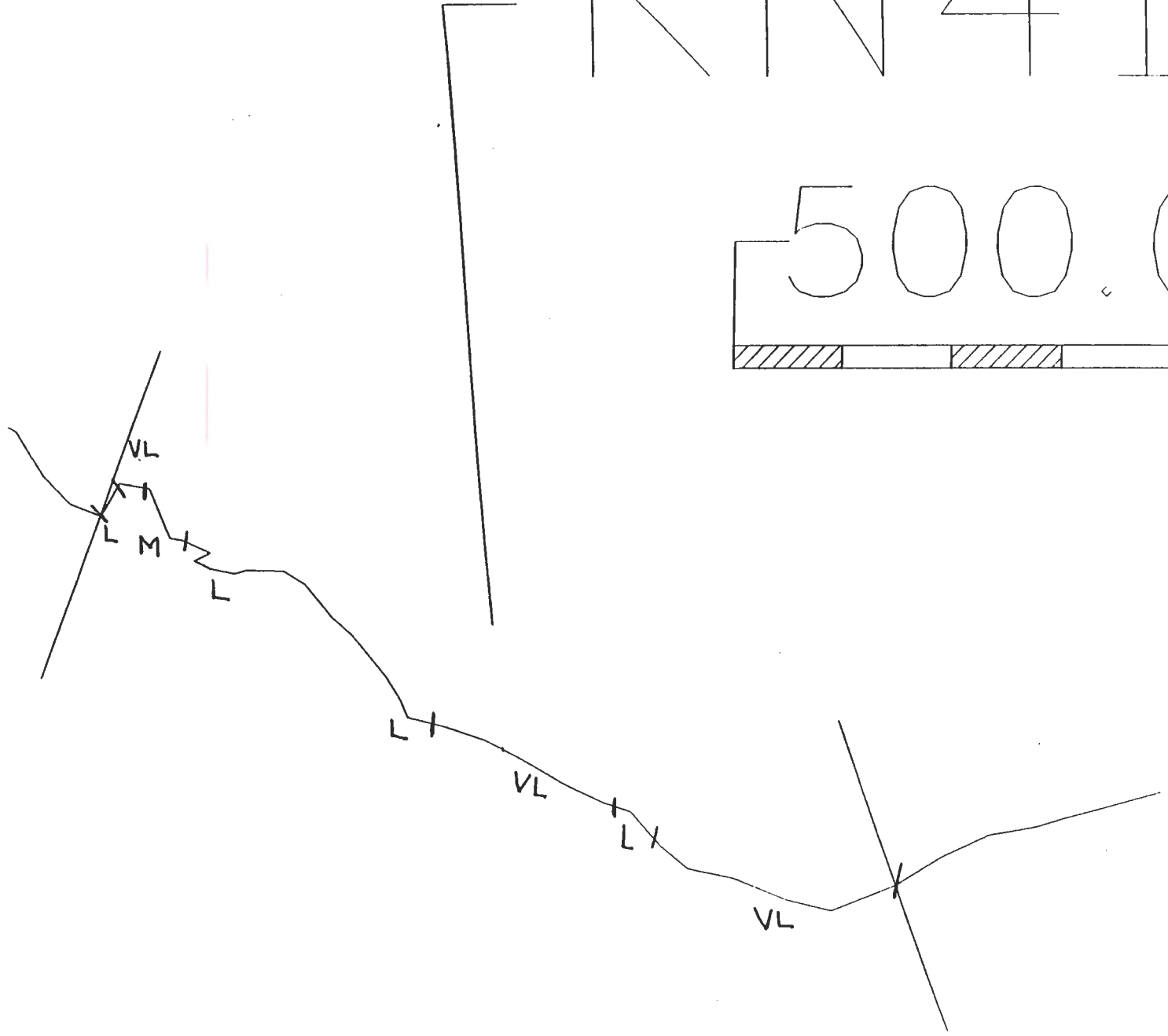


OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



KN413

500.0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN500 DATE: 09/26/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 17:30

Survey Type: Boat, Ground
Team: G. Winter, D. Gardner, J. Krieger

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: NE
Sea State: Calm Knots: 0-15

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN500-1 / KN500-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris, garbage
Bags Collected: 0

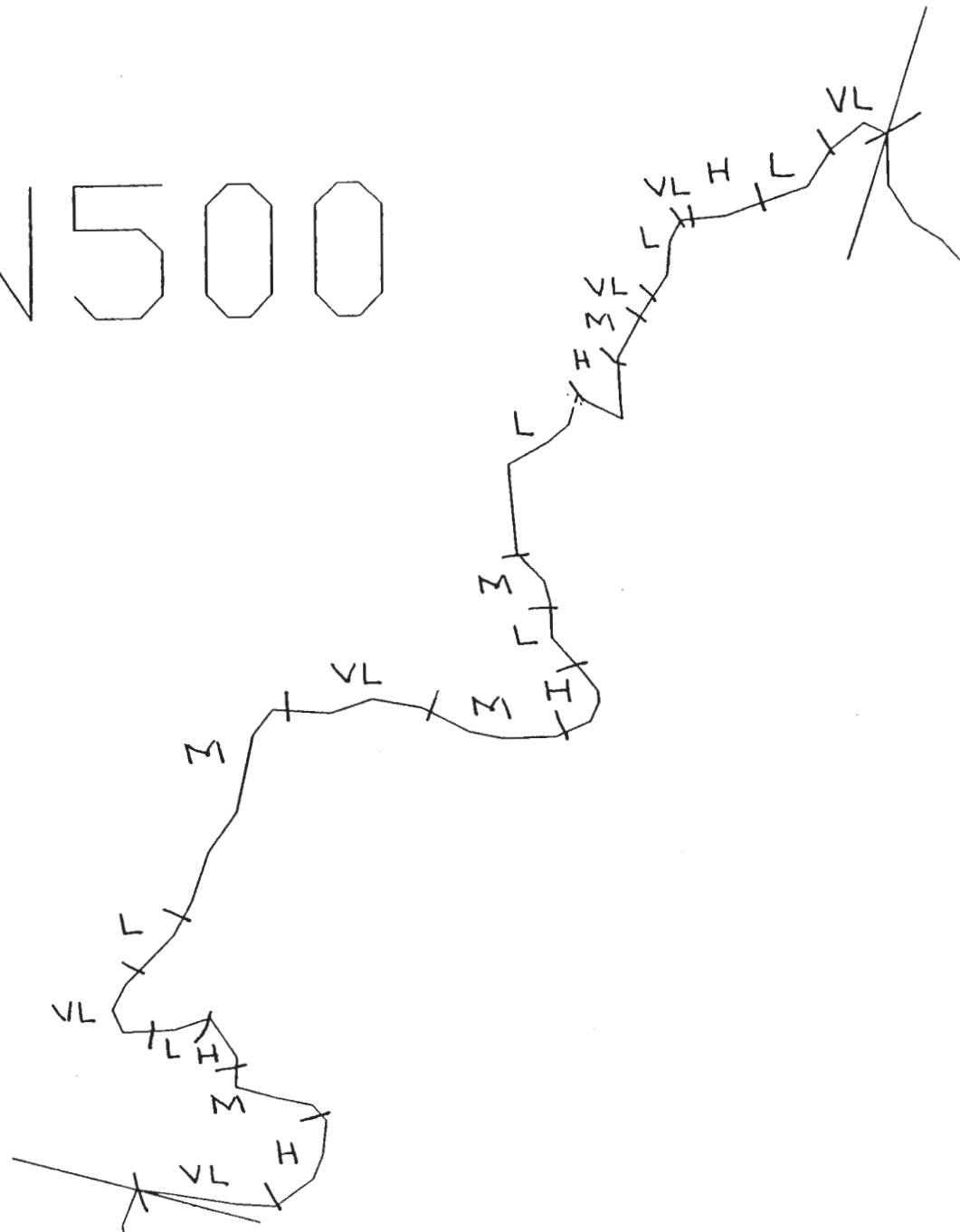
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



KN500

0 meters 500



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN501 DATE: 09/28/89
LOCATION: M KNIGHT ISLAND PASSAGE TIME: 19:08

Survey Type: Boat, Ground
Team: G. Winter, K. Dutcher, J. Krieger, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 85%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN501-1 / KN501-2 / none / none

DAMAGED OR OILED ORGANISMS

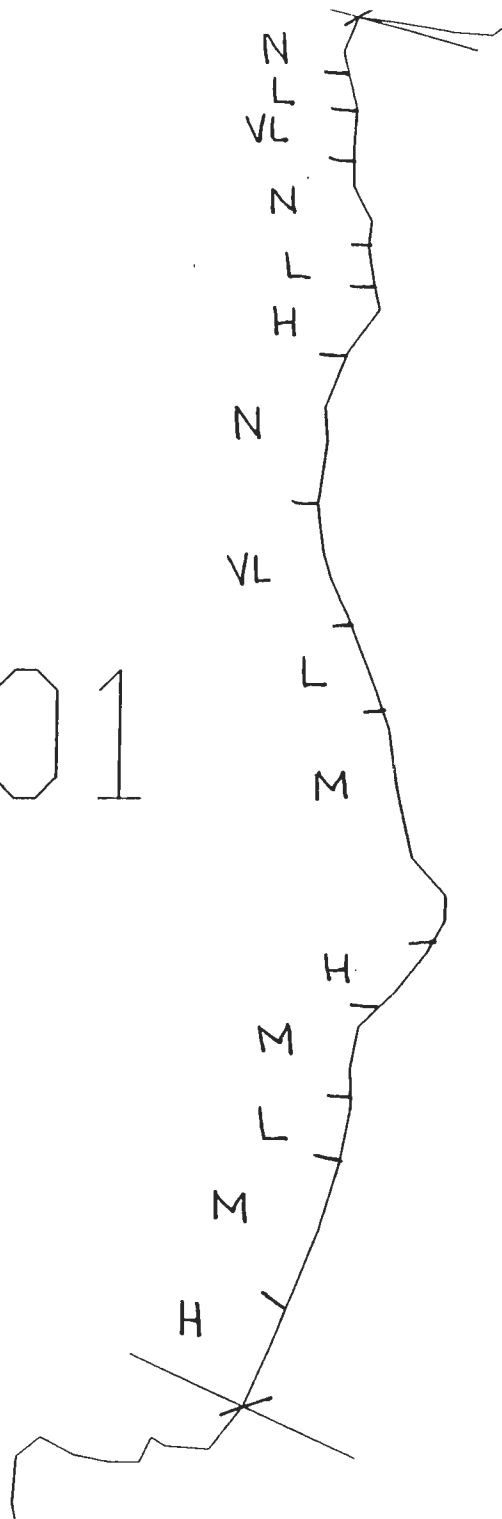
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Snare boom
Bags Collected: 0

0 meters 500

KN501



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN502 . DATE: 09/28/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 17:15

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher, G. Winter, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: variable
Sea State: Calm Knots: 0-15
Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 40 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN502-1 / KN502-1 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Pom poms, flagging
Bags Collected: 1

Draft

Printed: 12/12/89 11:39

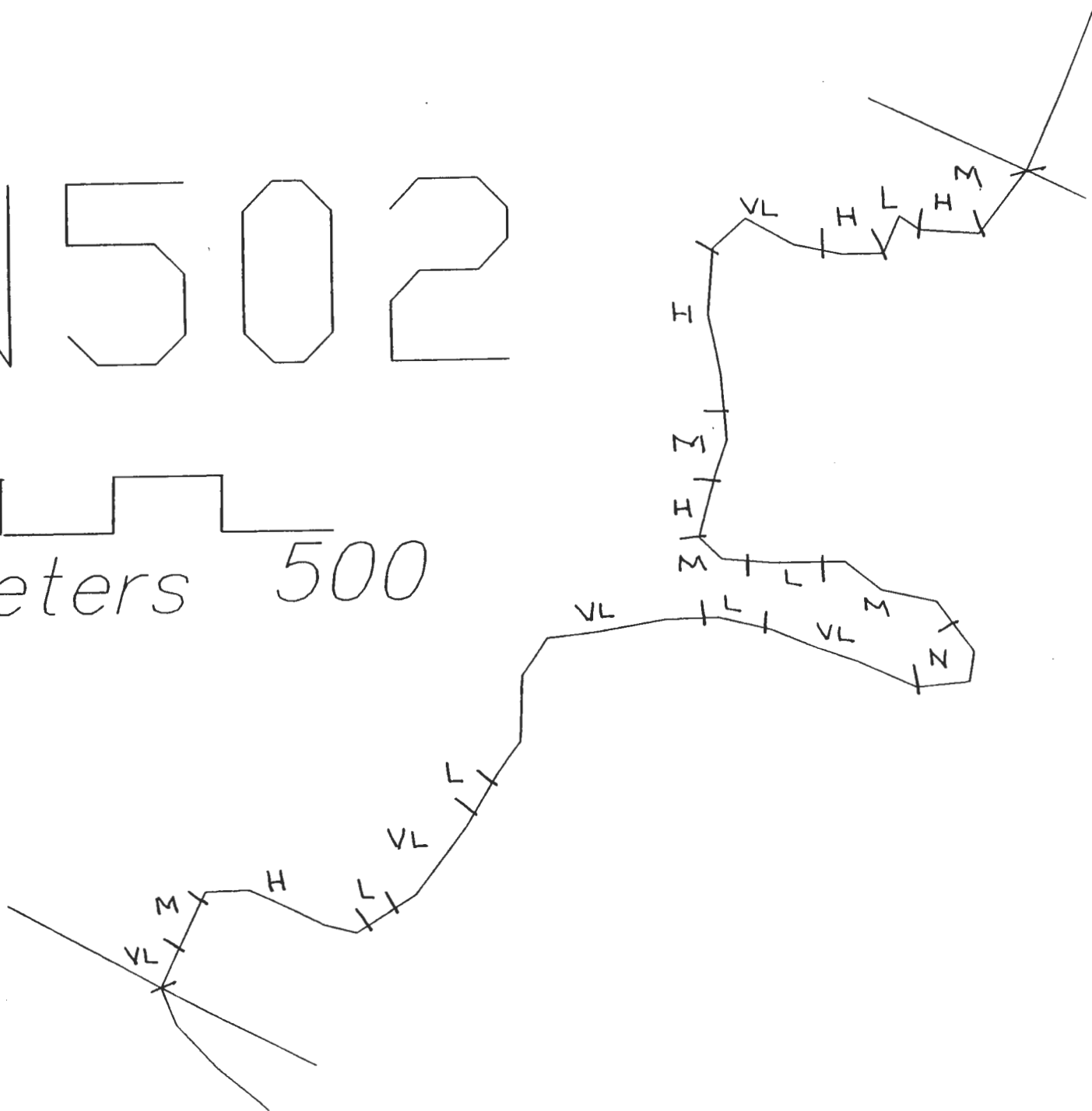
KN502

0 meters 500

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN503 DATE: 09/28/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 18:30

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher, G. Winter, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: variable
Sea State: Calm Knots: 0-15

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN503-1 / KN503-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

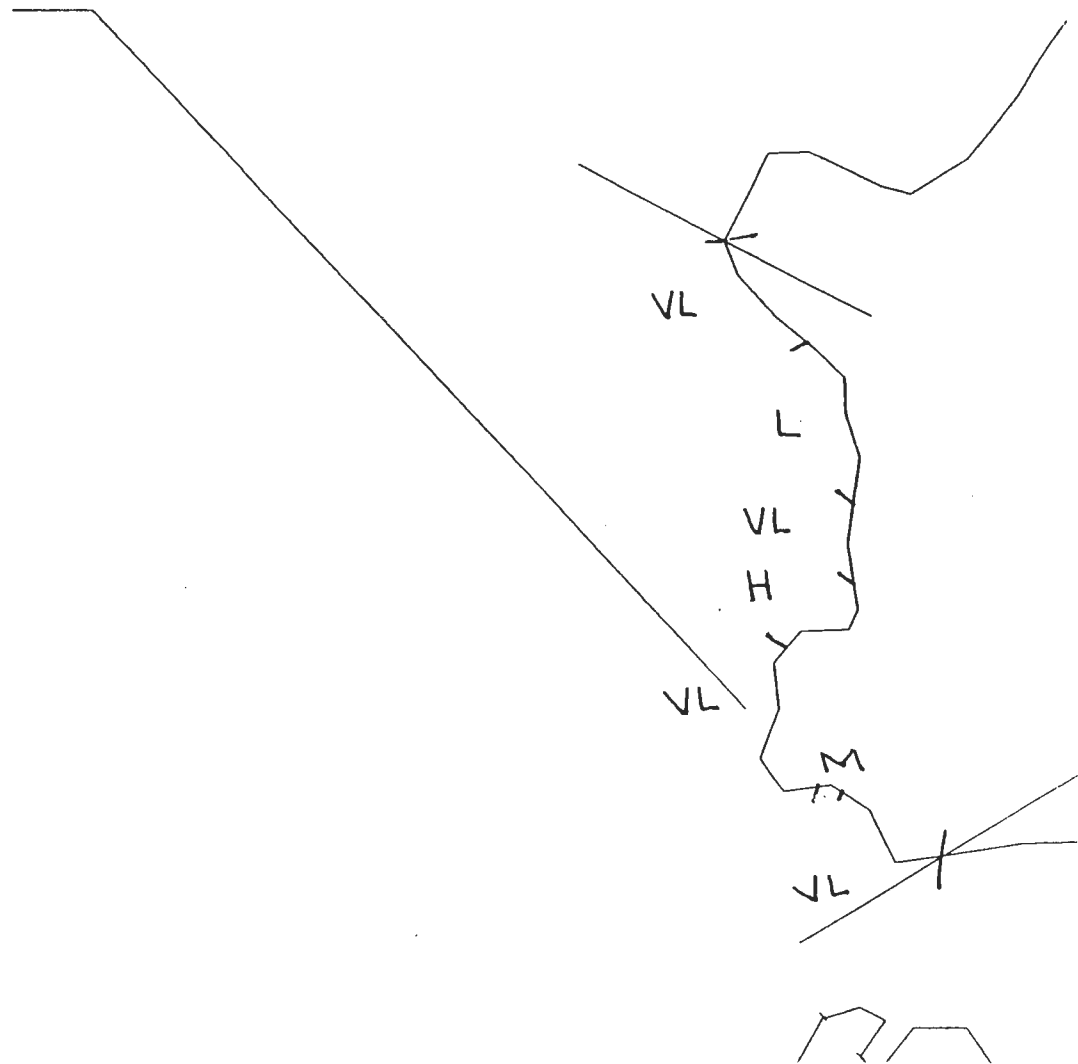
Type: None
Bags Collected: 0

KN503

0 meters 500

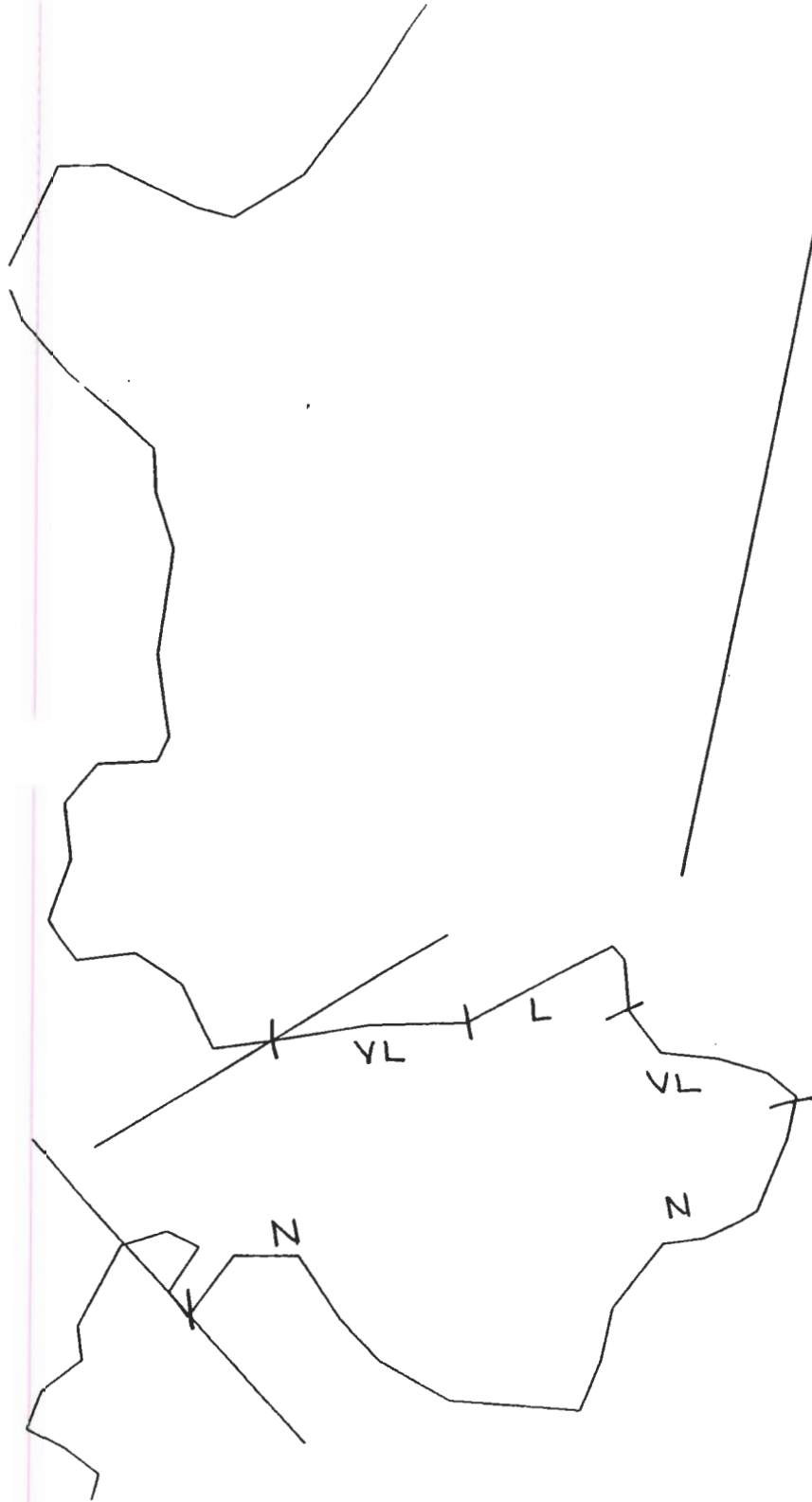
OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



KN504

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN505 DATE: 09/29/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 20:04

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 40 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%

Presence of Oiled Driftwood (y/n): n

Oil Types: SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN505-1 / KN505-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality

Bags Collected: 1

Draft

Printed: 12/12/89 11:39

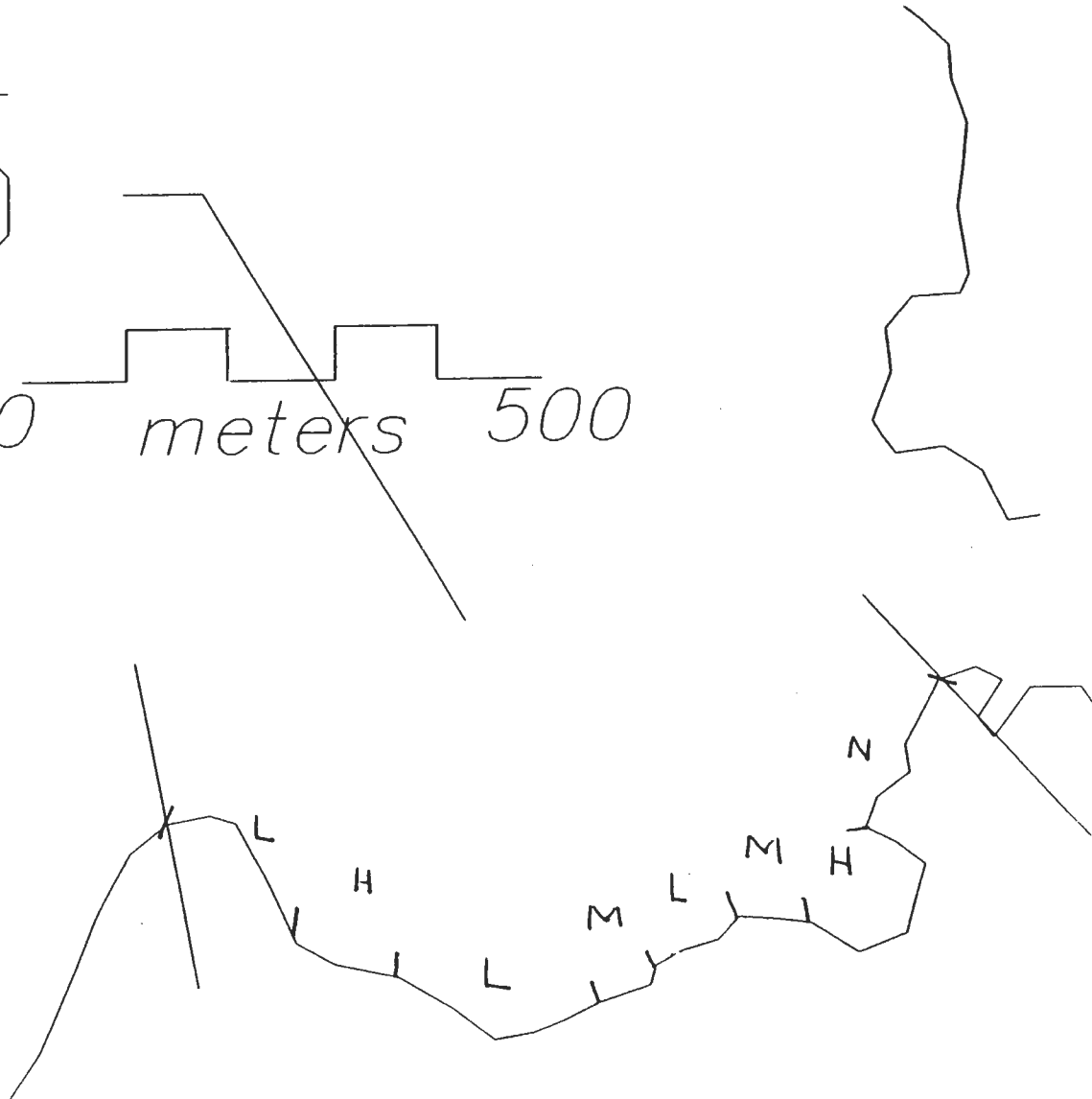
KN505

0 meters 500

OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

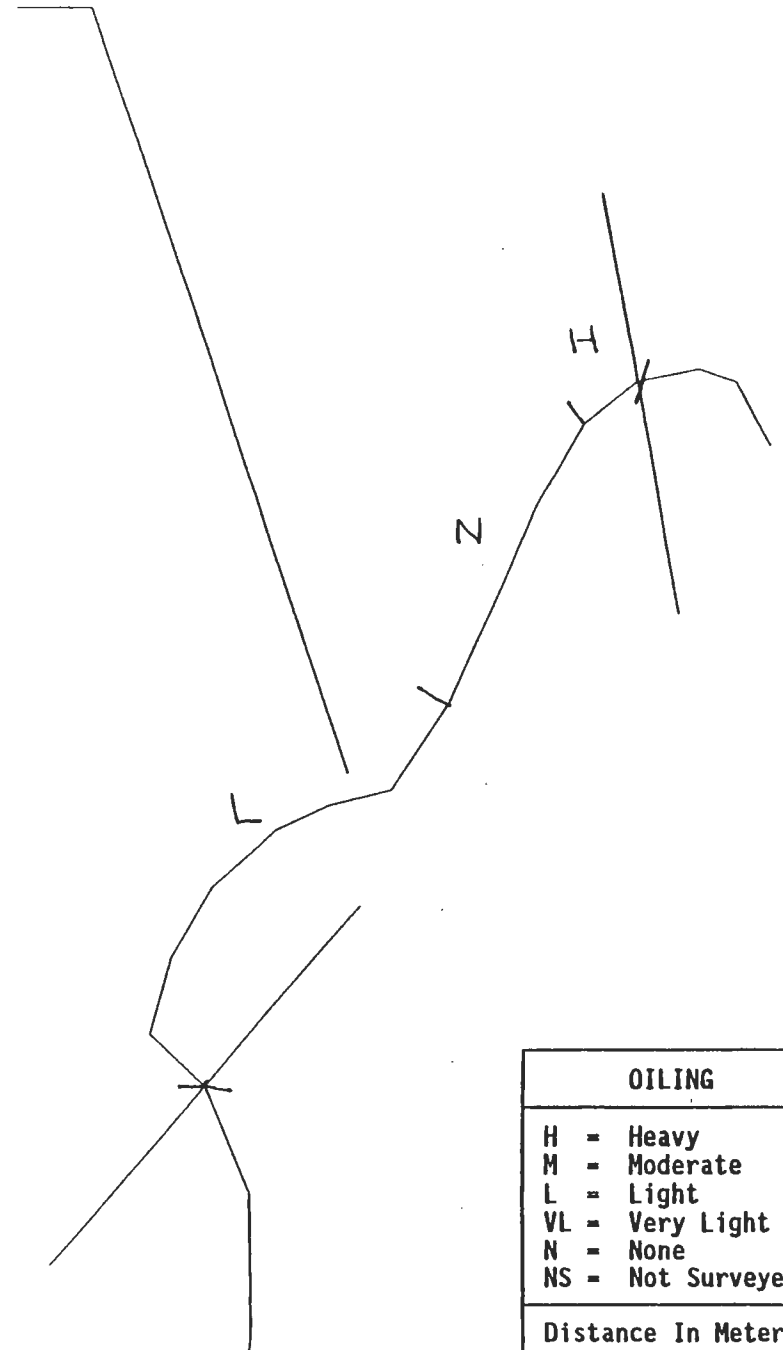


ADEC Sep/Oct 1989 Survey



KN506

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN507 . DATE: 09/29/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 18:00

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN507-1 / KN507-2 / none / none

DAMAGED OR OILED ORGANISMS

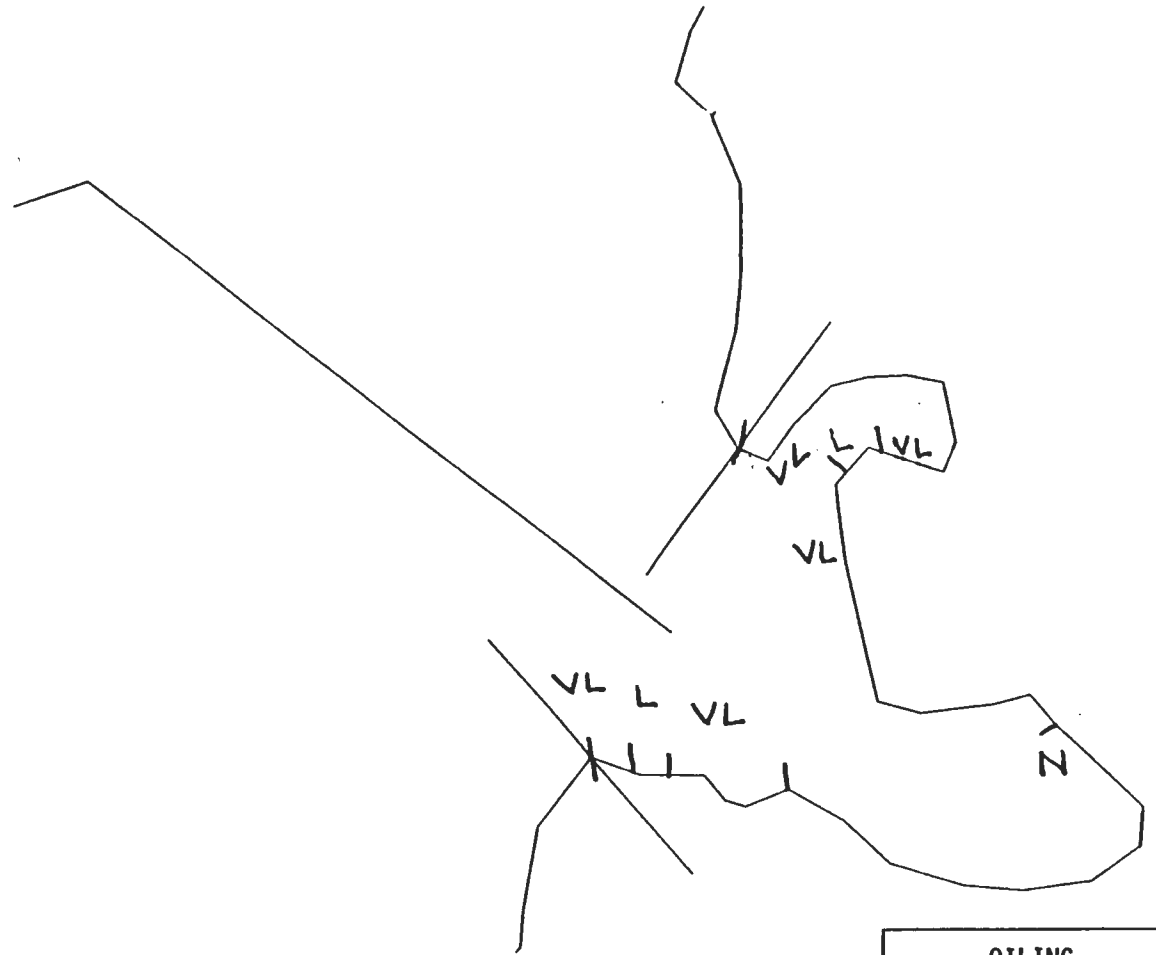
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
Bags Collected: 1

KN507

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN508 DATE: 09/29/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 17:28

Survey Type: Boat, Ground
Team: G. Pavia, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretupes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN508-1 / KN508-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Boom, cleanup debris, garbage
Bags Collected: 1

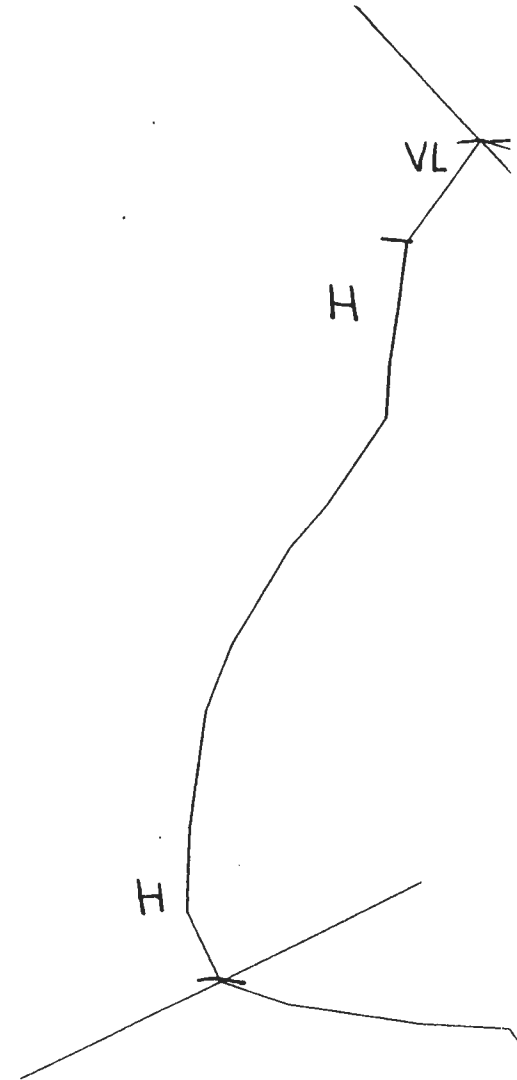
KN508



OILING
H = Heavy
M = Moderate
L = Light
VL = Very Light
N = None
NS = Not Surveyed
Distance In Meters



ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN509 DATE: 09/29/89
 LOCATION: N KNIGHT ISLAND PASSAGE TIME: 17:00

Survey Type: Boat, Ground
 Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
 Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: none
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

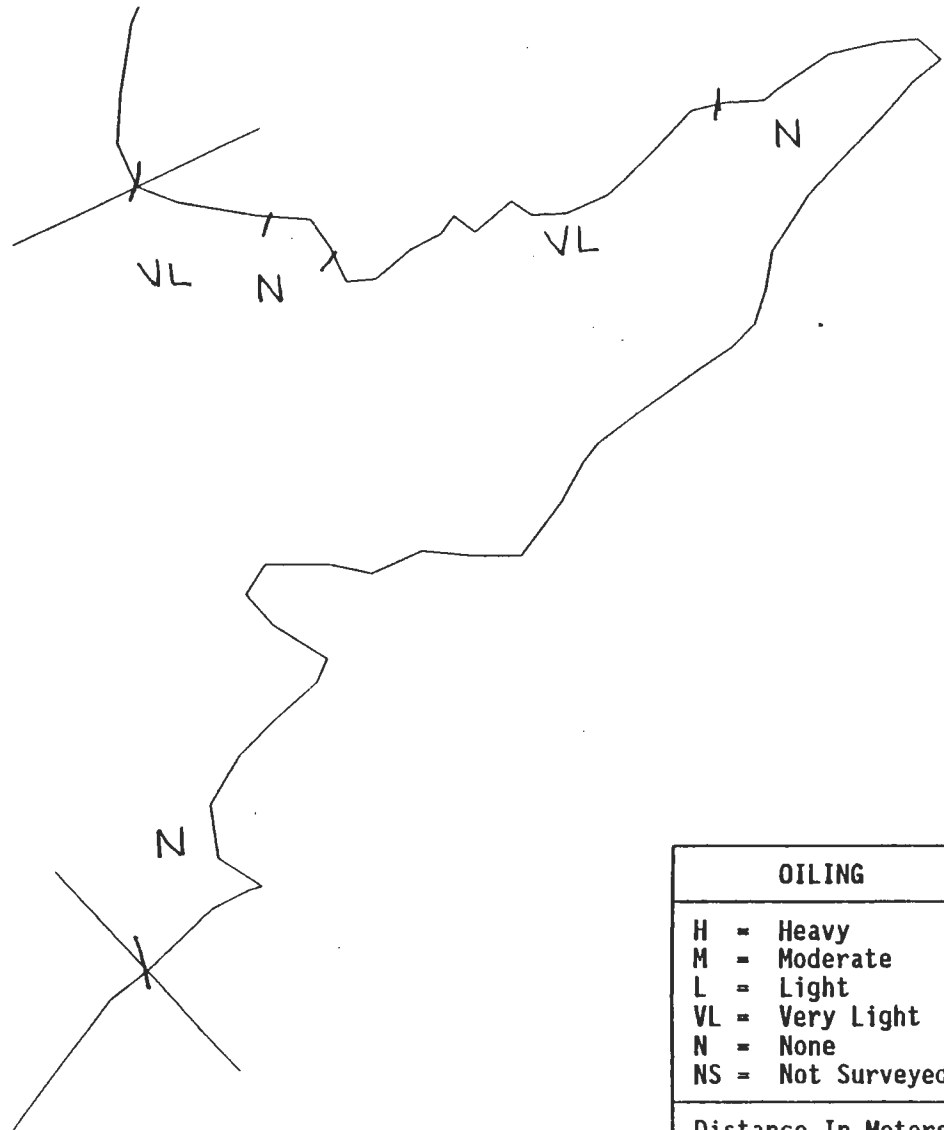
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

KN509

0 meters 500

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN510 DATE: 09/29/89
LOCATION: N KNIGHT ISLAND PASSAGE TIME: 17:30

Survey Type: Boat, Ground
Team: B. McCready, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: variable
Sea State: Calm Knots: 0-15

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

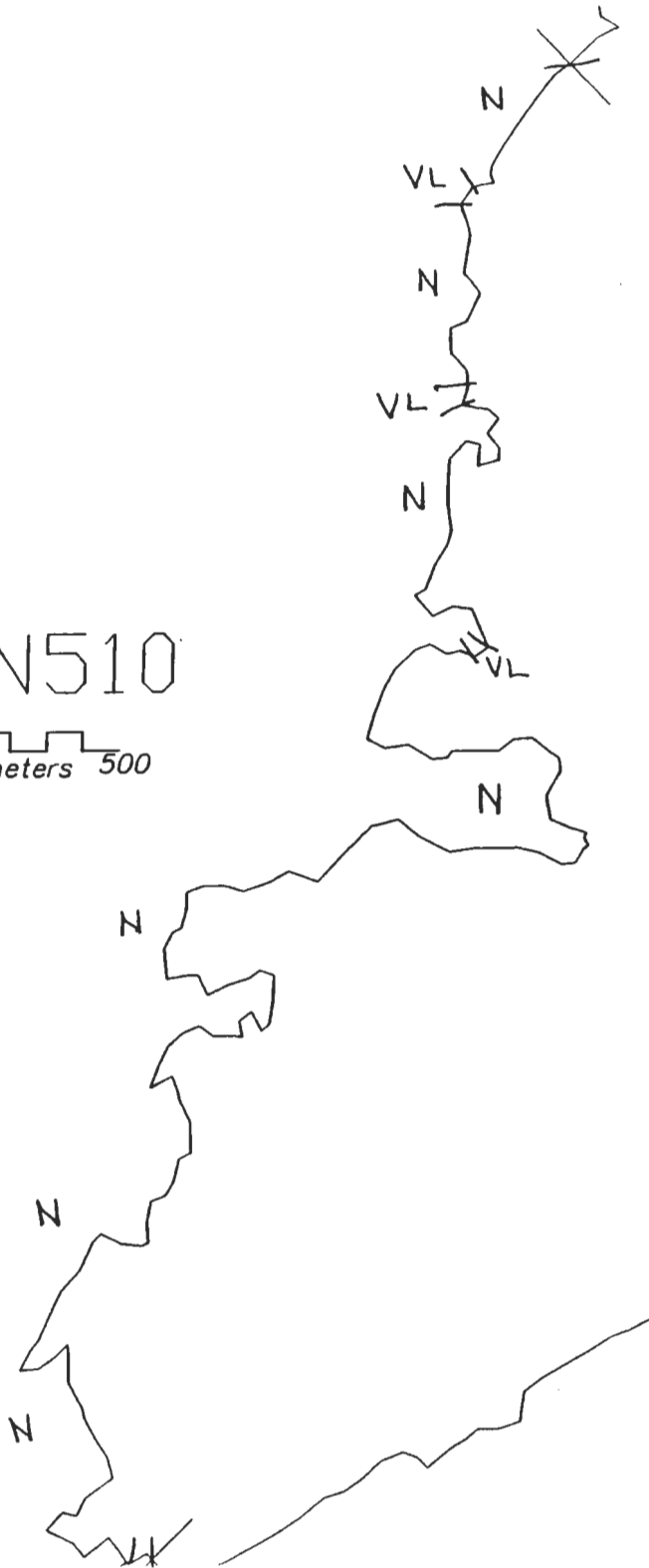
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris
Bags Collected: 0

KN510

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN551 DATE: 09/27/89
LOCATION: L. HERRING BAY, KNIGHT I. TIME: 9:00

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher, D. Gardner

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 19:02 Feet: 1.83 High Tide: 0:24 Feet: 11.6
Low Tide: 6:44 Feet: 0.7 High Tide: 13:06 Feet: 11.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

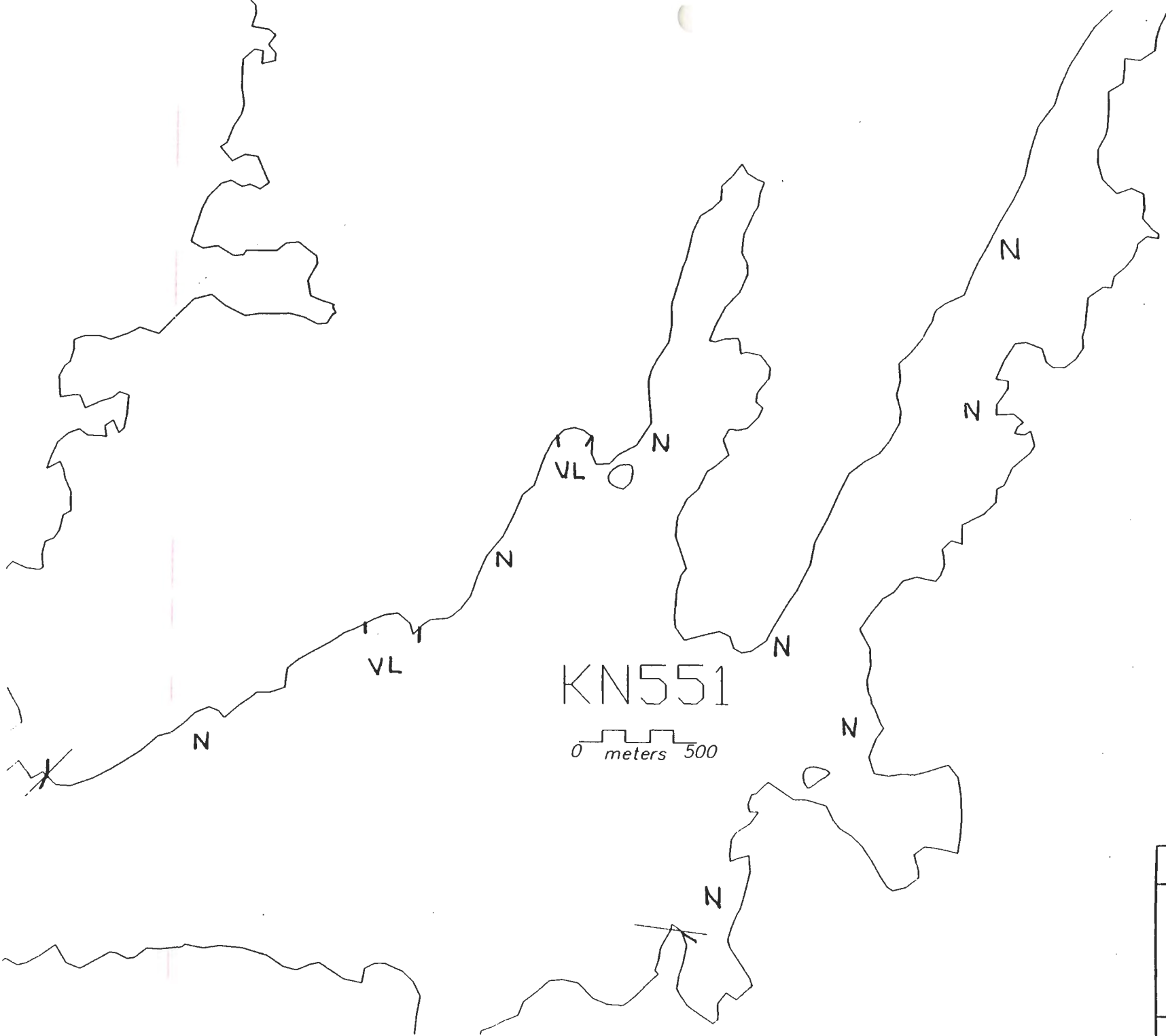
Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

KN552 - 1A

SECTION CONTENTS — KNIGHT ISLAND

SEGMENT#	LOCATION
KN552	L. HERRING BAY, KNIGHT I.
KN553	W KNIGHT ISLAND
KN554	W KNIGHT ISLAND
KN574	W KNIGHT ISLAND
KN575A	N DRIER BAY, KNIGHT I.
KN575B	N DRIER BAY, KNIGHT I.
KN576	SW DRIER BAY, KNIGHT I.
KN577	KNIGHT ISLAND
KN578	SW KNIGHT ISLAND
KN600	SW KNIGHT ISLAND
KN601	S KNIGHT ISLAND
KN602	S KNIGHT ISLAND
KN603	S KNIGHT ISLAND
KN604	S KNIGHT ISLAND
KN605	MUMMY BAY, KNIGHT ISLAND
KN606	S KNIGHT ISLAND
KN607	S KNIGHT ISLAND
KN608	S KNIGHT ISLAND
KN700	S MARSHA BAY, KNIGHT I.
KN701	S MARSHA BAY, KNIGHT I.
KN702	S MARSHA BAY, KNIGHT I.
KN703	W MARSHA BAY, KNIGHT I.
KN704	NW MARSHA BAY, KNIGHT I.
KN705	E CENTRAL KNIGHT ISLAND
KN706	NE SNUG HARBOR, KNIGHT I.
KN5001	SE HERRING BAY, KNIGHT I.
KN5002	SE HERRING BAY, KNIGHT I.
KN5003	SE HERRING BAY, KNIGHT I.
KN5004	SE HERRING BAY, KNIGHT I.
KN5005	SE HERRING BAY, KNIGHT I.
KN5006	SE HERRING BAY, KNIGHT I.
KN5007	SE HERRING BAY, KNIGHT I.
KN5008	SE HERRING BAY, KNIGHT I.
KN5009	SE HERRING BAY, KNIGHT I.
KN5010	S HERRING BAY, KNIGHT I.
KN5011	SE HERRING BAY, KNIGHT I.
KN5012	SE HERRING BAY, KNIGHT I.

Printed: 12/12/89

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN552 DATE: 09/27/89
LOCATION: L. HERRING BAY, KNIGHT I. TIME: 17:30

Survey Type: Boat, Ground
Team: G. Winter, K. Dutcher, J. Krieger

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NW
Sea State: Moderate Knots: 16-30

Low Tide: 19:02 Feet: 1.83 High Tide: 0:24 Feet: 11.6
Low Tide: 6:44 Feet: 0.7 High Tide: 13:06 Feet: 11.7

SHORELINE DESCRIPTION

Shoretypes: LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 15%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

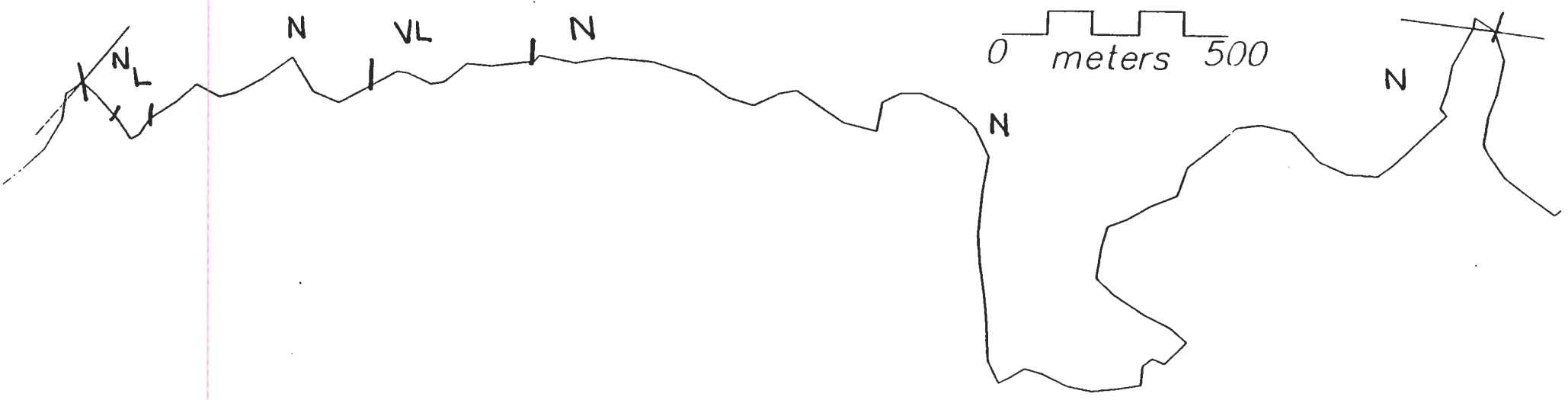
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, snare boom, garbage
Bags Collected: 0

KN552



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN553
 LOCATION: W KNIGHT ISLAND

DATE: 09/28/89
 TIME: 17:24

Survey Type: Boat, Ground
 Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
 Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

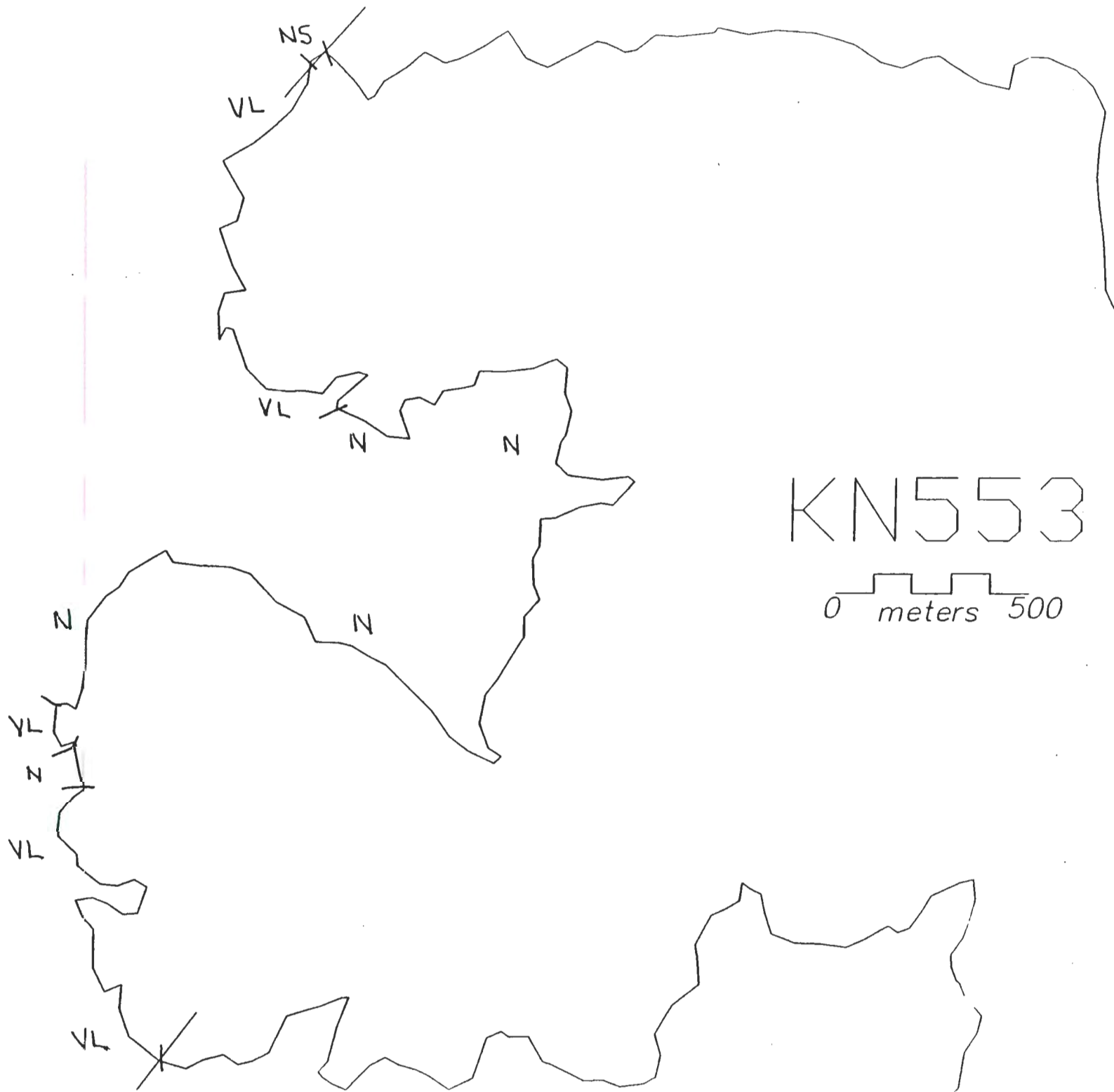
Percent Segment Categorized as Oiled: 40%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
 Bags Collected: 0



KN553

0 meters 500

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN554
LOCATION: W KNIGHT ISLAND

DATE: 09/29/89
TIME: 8:35

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: n,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 2%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

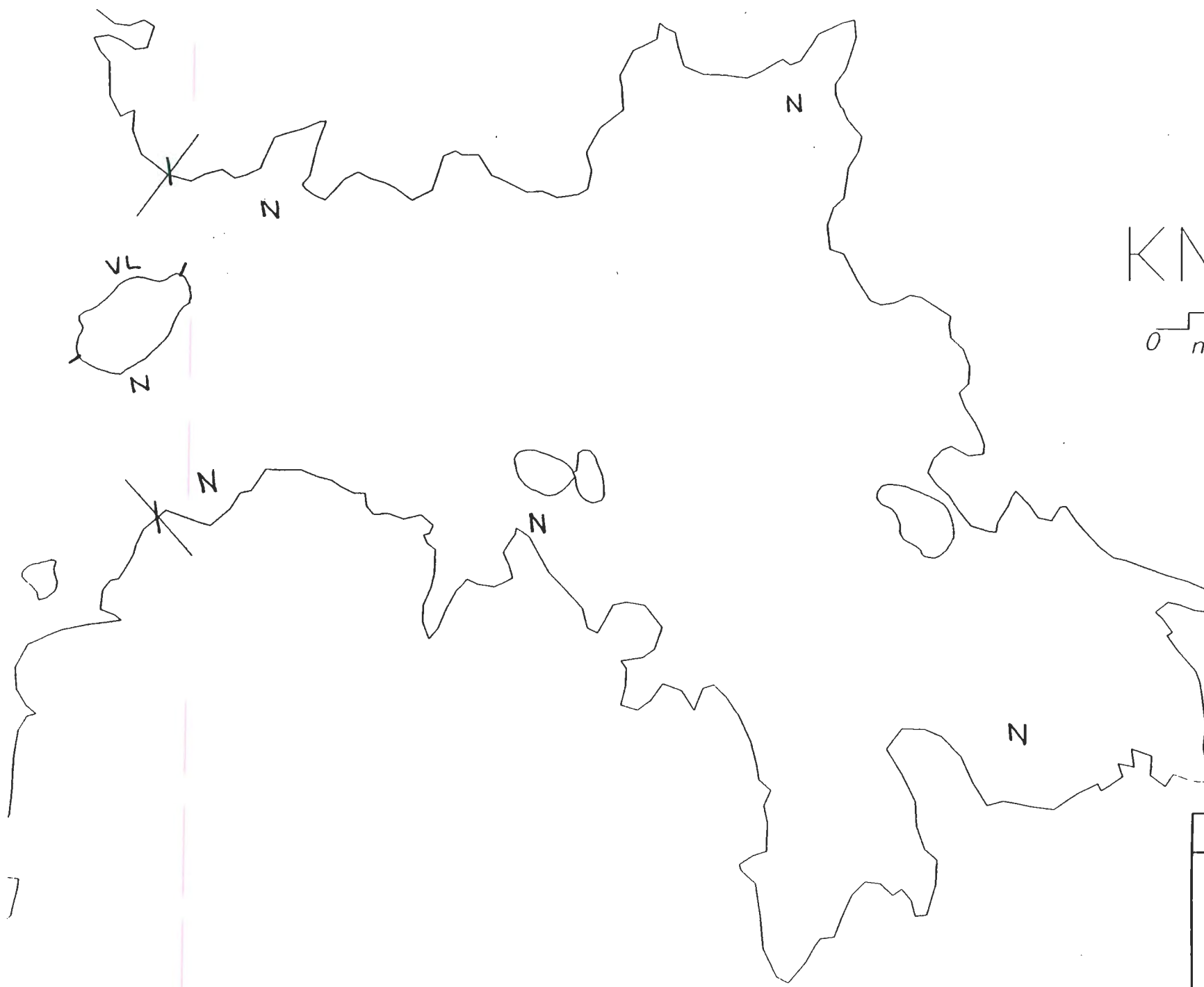
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



KN554



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN574
LOCATION: W KNIGHT ISLAND

DATE: 09/28/89
TIME: 17:07

Survey Type: Boat, Ground
Team: J. DeRuyter, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

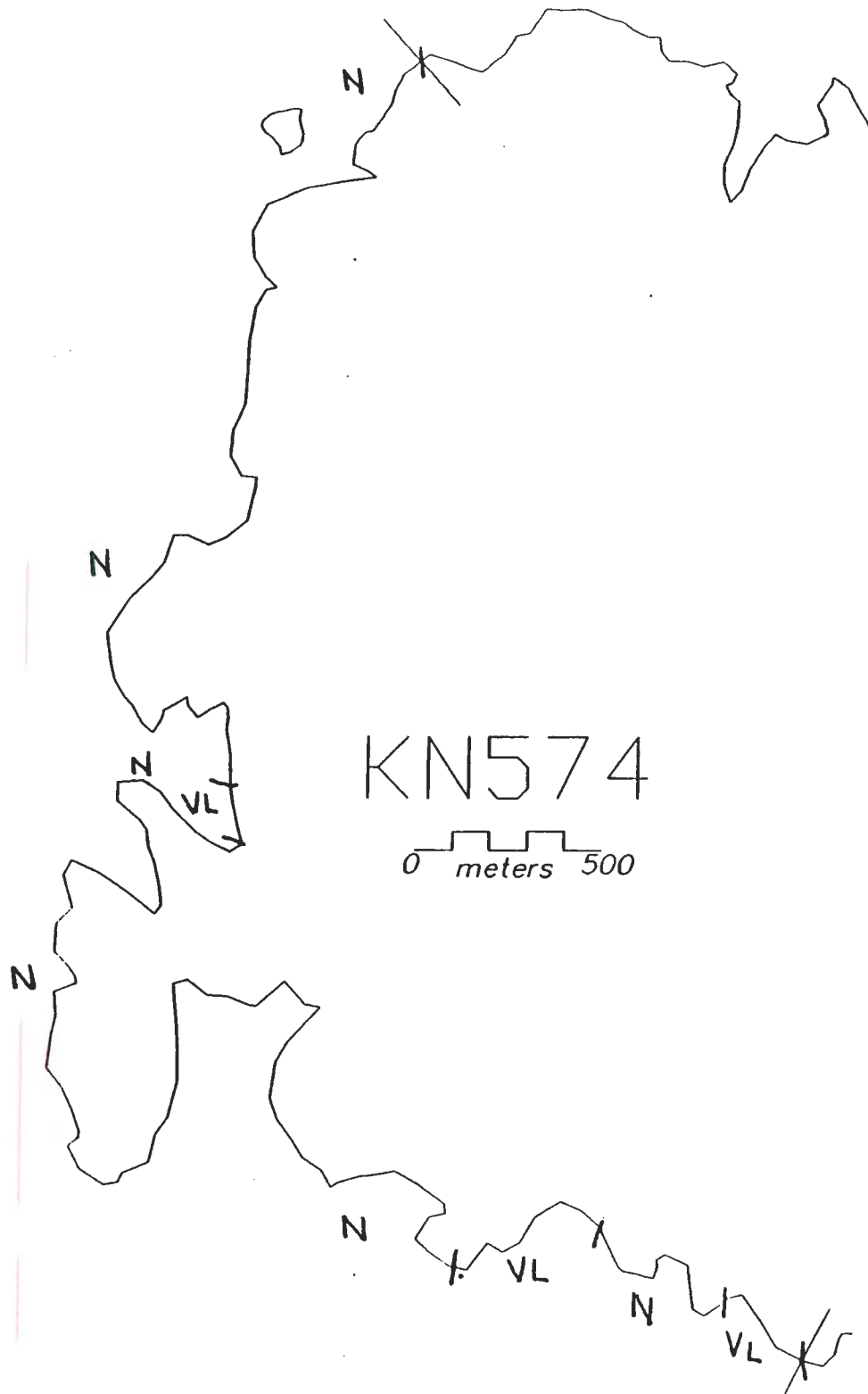
Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN575A DATE: 09/29/89
 LOCATION: N DRIER BAY, KNIGHT I. TIME: 9:50

Survey Type: Boat, Ground
 Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy, Fog Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
 Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN575B . DATE: 09/29/89
LOCATION: N DRIER BAY, KNIGHT I. TIME: 7:55

Survey Type: Boat, Ground
Team: J. DeRuyter, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny, Fog Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

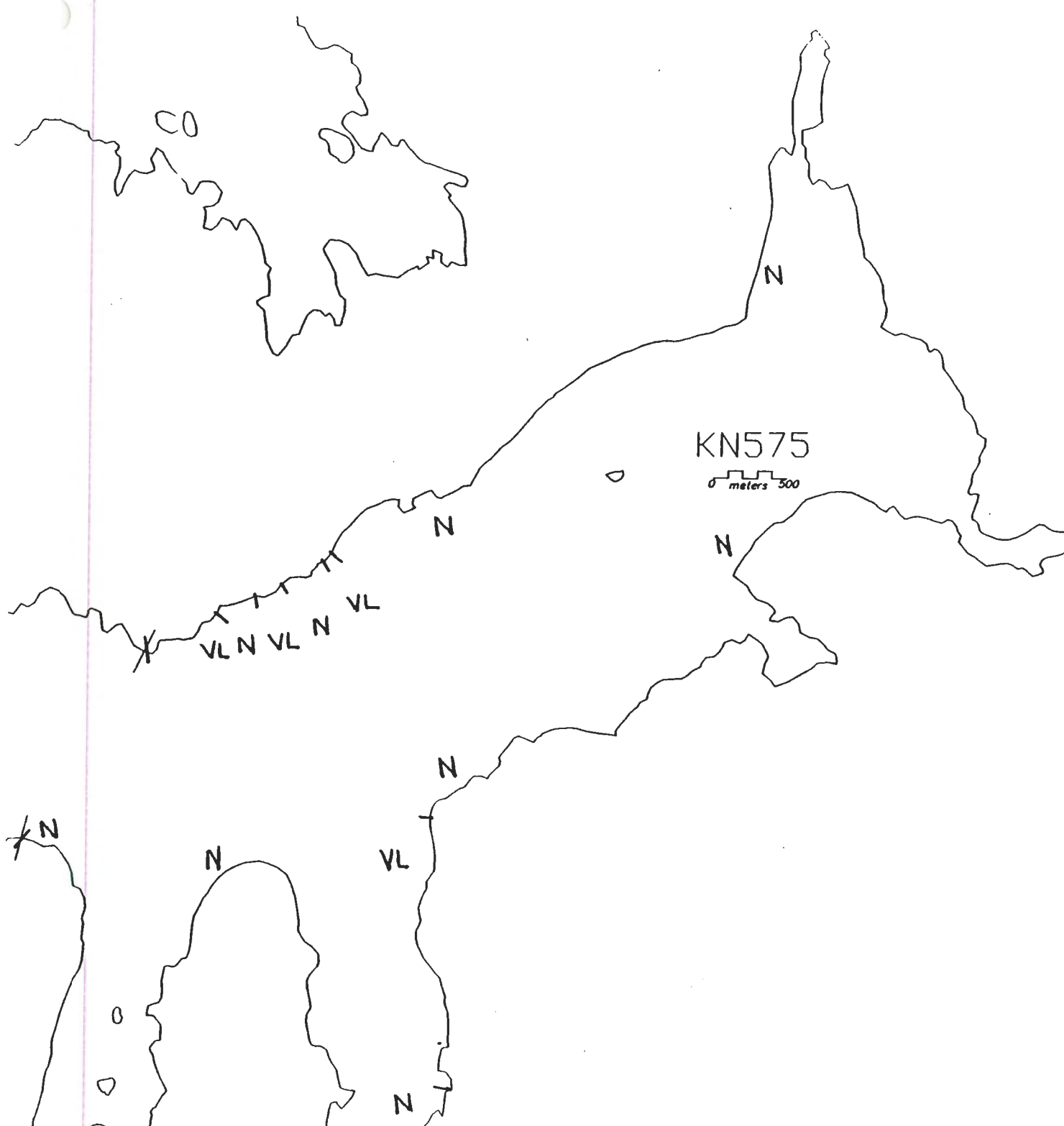
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN576 DATE: 09/28/89
LOCATION: SW DRIER BAY, KNIGHT I. TIME: 9:28

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

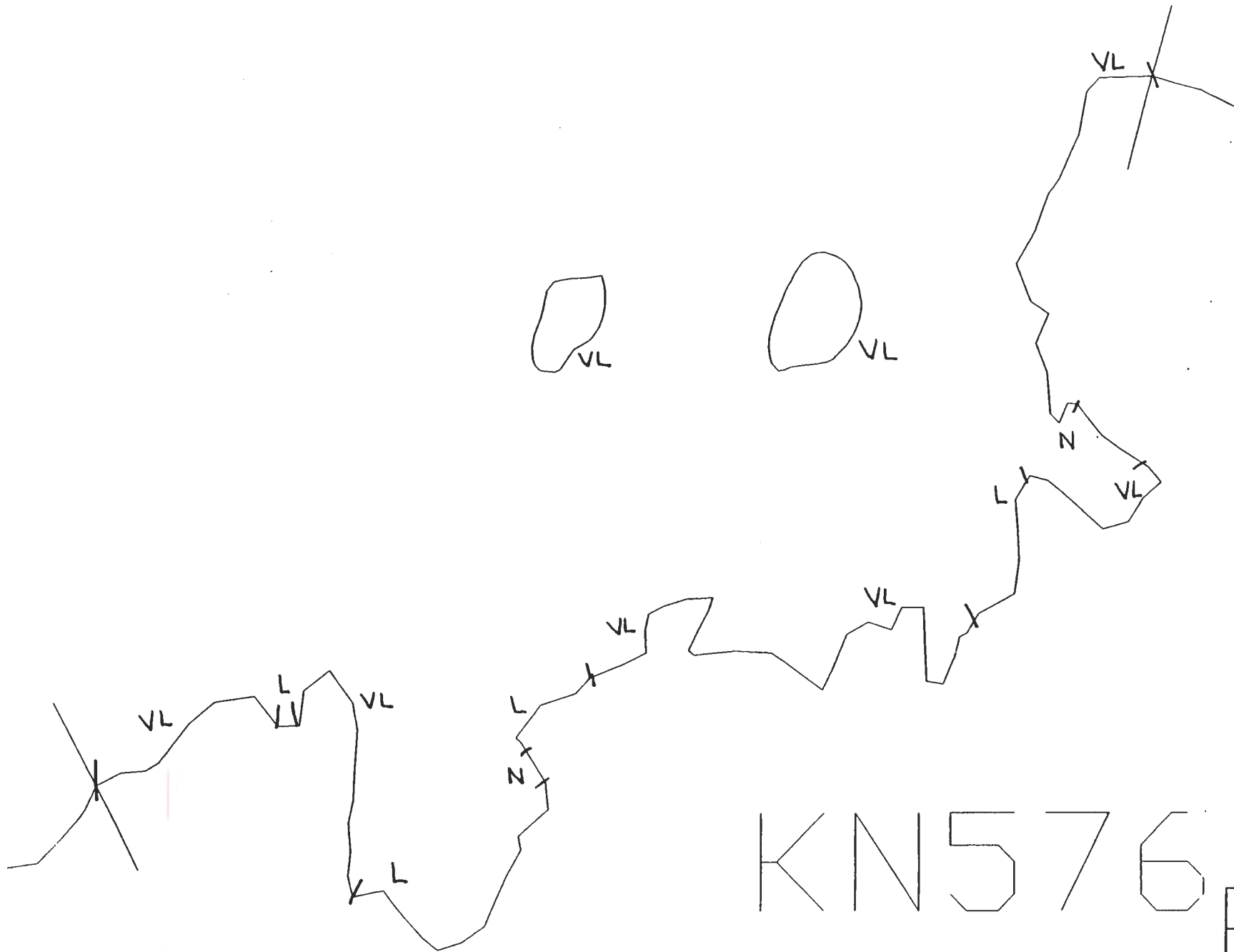
Degree of Oiling: N,VL,L
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KNS76-1 / KN576-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN576



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN577
LOCATION: KNIGHT ISLAND

DATE: 10/01/89
TIME: 17:40

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SW
Sea State: Rough Knots: 16-30

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

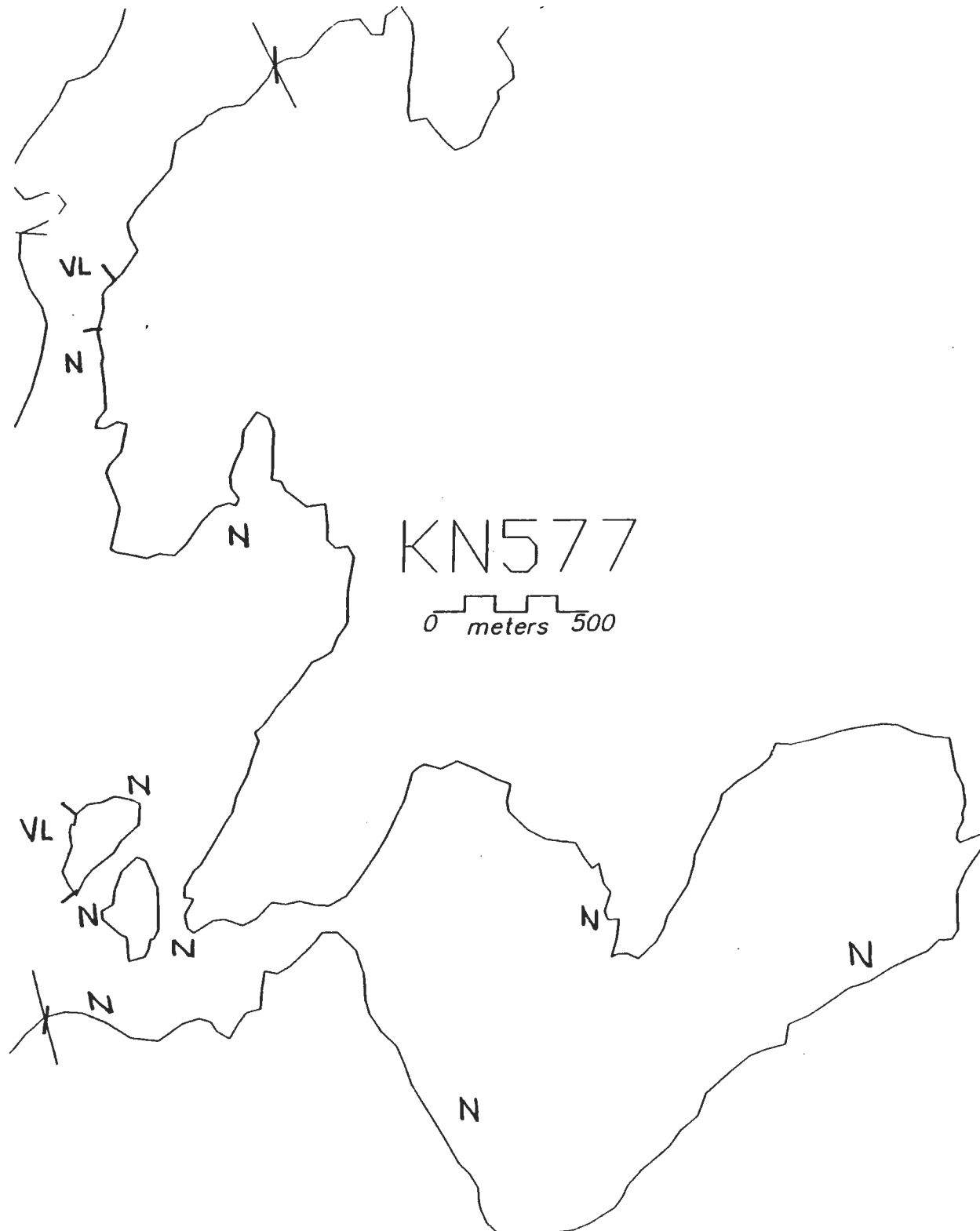
Percent Segment Categorized as Oiled: 3%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN578
LOCATION: SW KNIGHT ISLAND

DATE: 10/01/89
TIME: 18:00

Survey Type: Boat, Ground
Team: G. Pavia, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,SY,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN578-1 / KN578-2 / none / none

DAMAGED OR OILED ORGANISMS

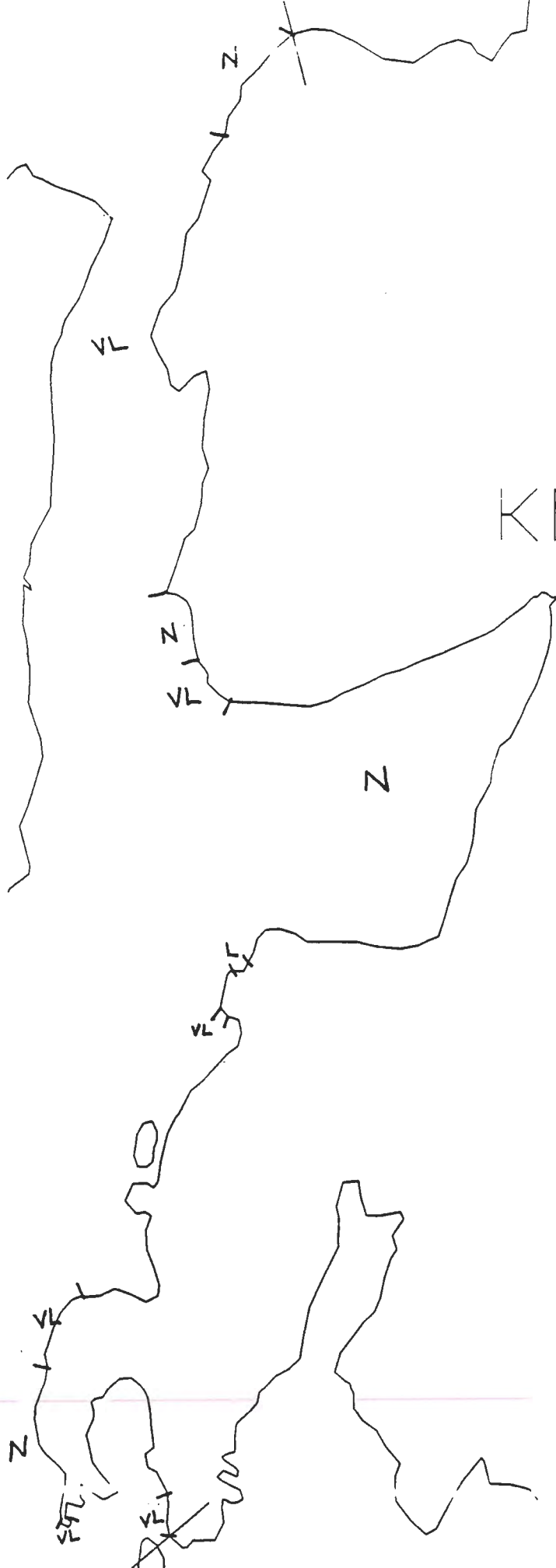
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, boom, cleanup debris, paint

Bags Collected: 1



KN578



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN600
LOCATION: SW KNIGHT ISLAND

DATE: 10/28/89
TIME: 9:47

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover, D. Gardner, B. McCreedy

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NW
Sea State: Moderate Knots: 0-15

Low Tide: 19:43 Feet: -0.3 High Tide: 1:24 Feet: 10.9
Low Tide: 7:10 Feet: 2.28 High Tide: 13:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

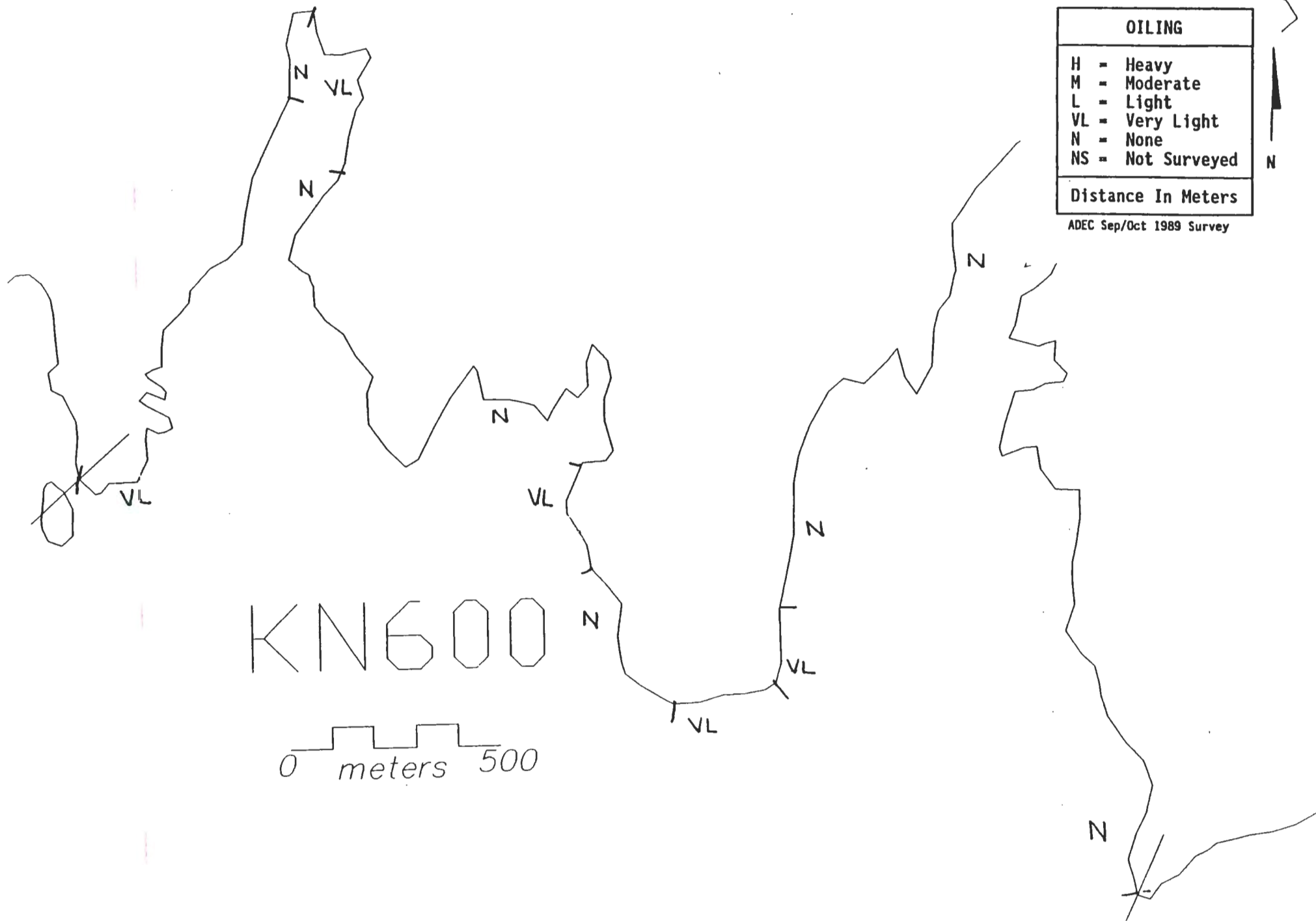
Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, boom
Bags Collected: 1



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

KN600

0 meters 500

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN601
LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
TIME: 8:30

Survey Type: Boat, Ground
Team: D. Gardner, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

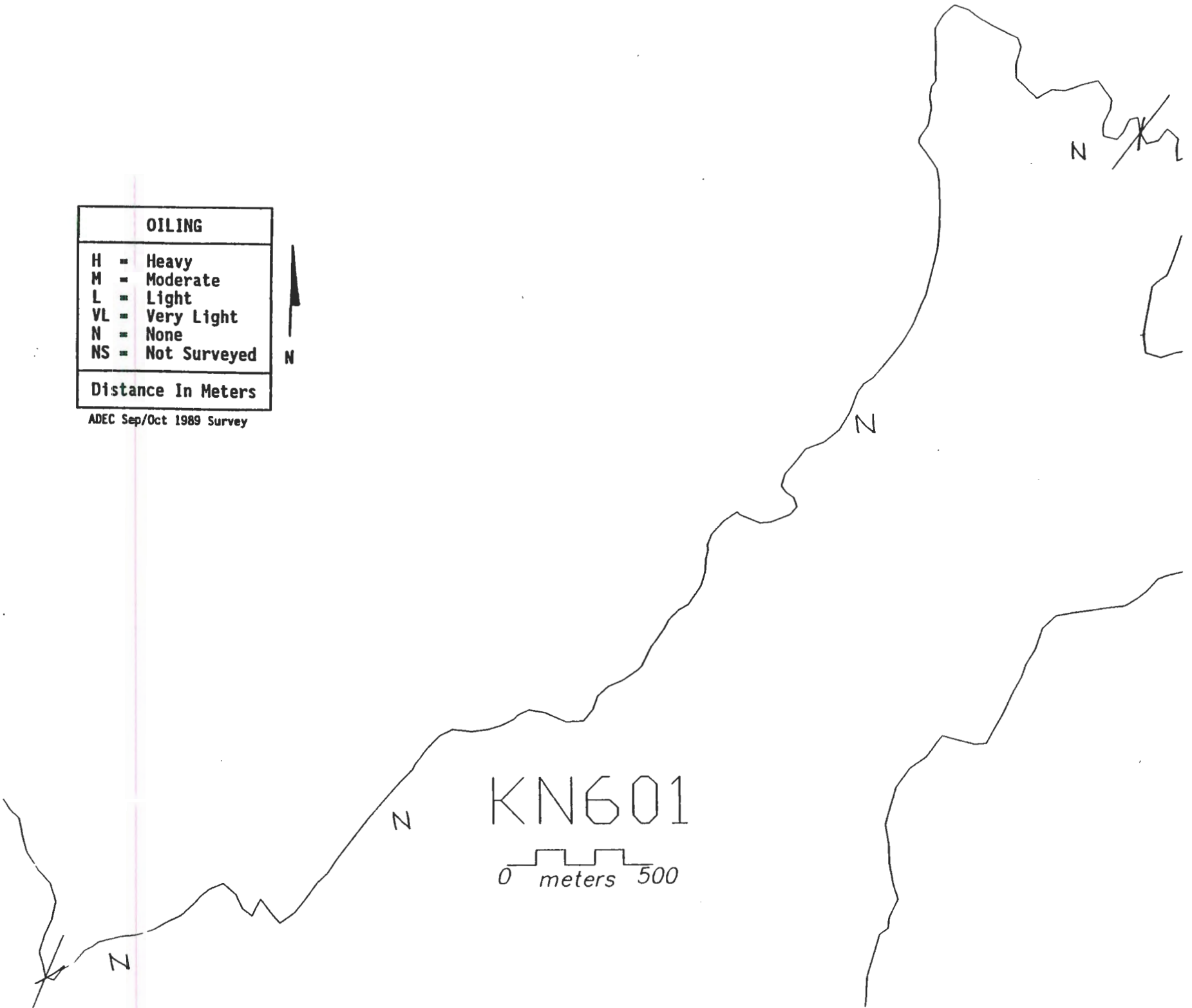
SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris
Bags Collected: 2

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN602
 LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
 TIME: 10:30

Survey Type: Boat, Ground
 Team: K. Dutcher, K. Krieger

WEATHER AND SEA CONDITIONS

Weather: Cloudy
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
 Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
 (N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 2%

Presence of Oiled Driftwood (y/n): n

Oil Types: ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

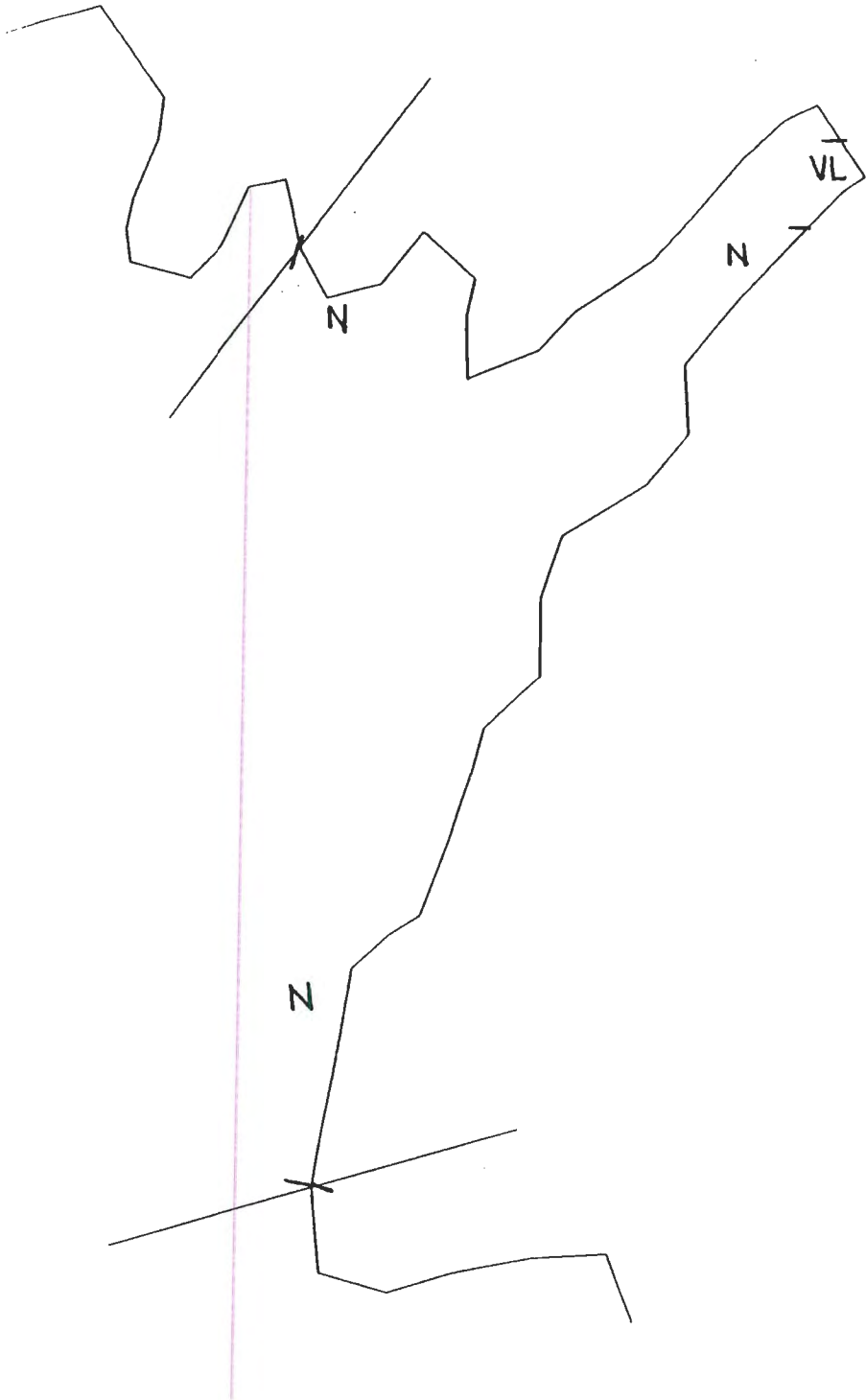
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



K N G 6 0 2



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN603
LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
TIME: 9:35

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: variable
Sea State: Calm Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 1%

Presence of Oiled Driftwood (y/n): n

Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

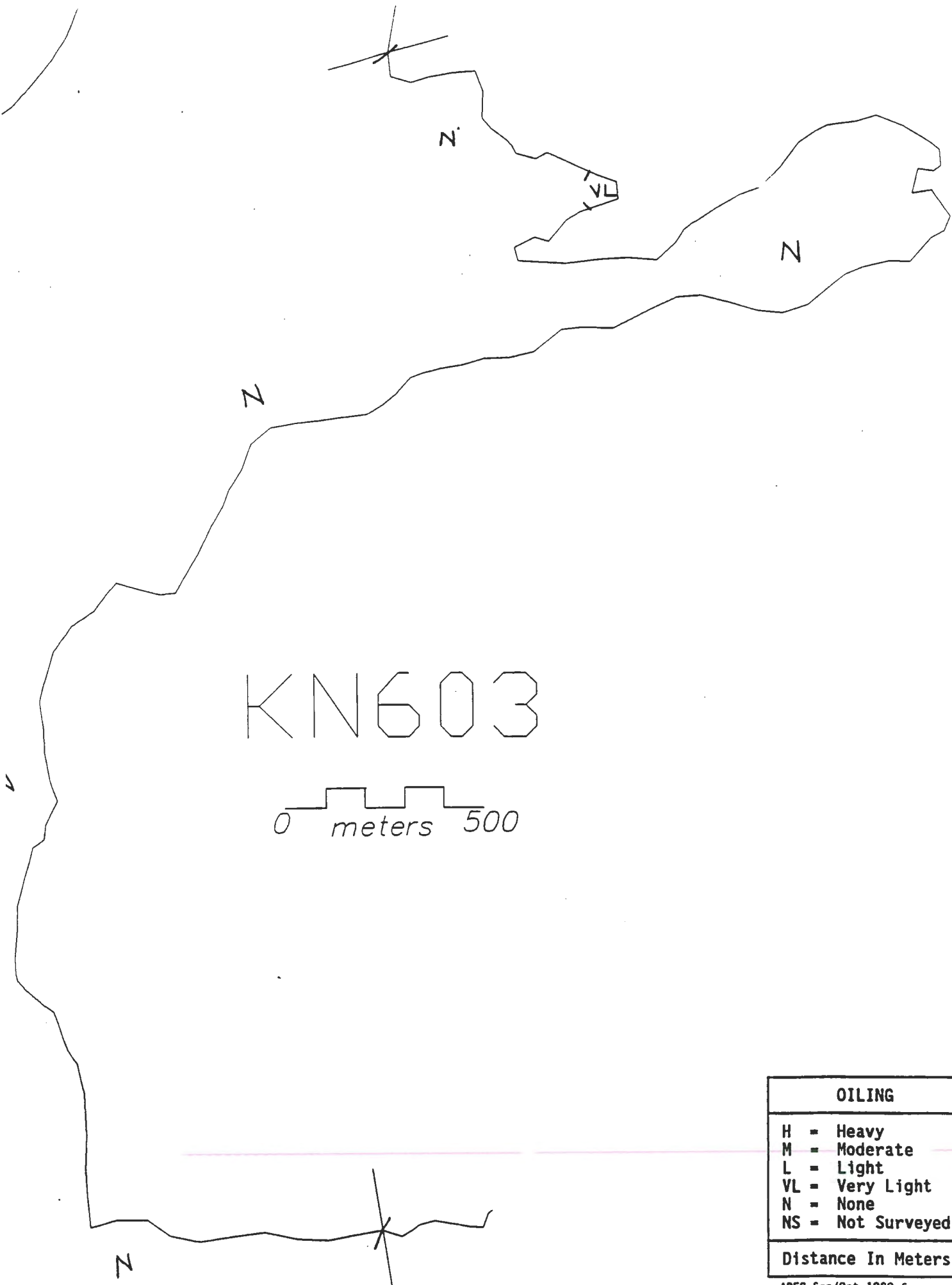
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



KN603

0 meters 500

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN604
LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
TIME: 8:34

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: variable
Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

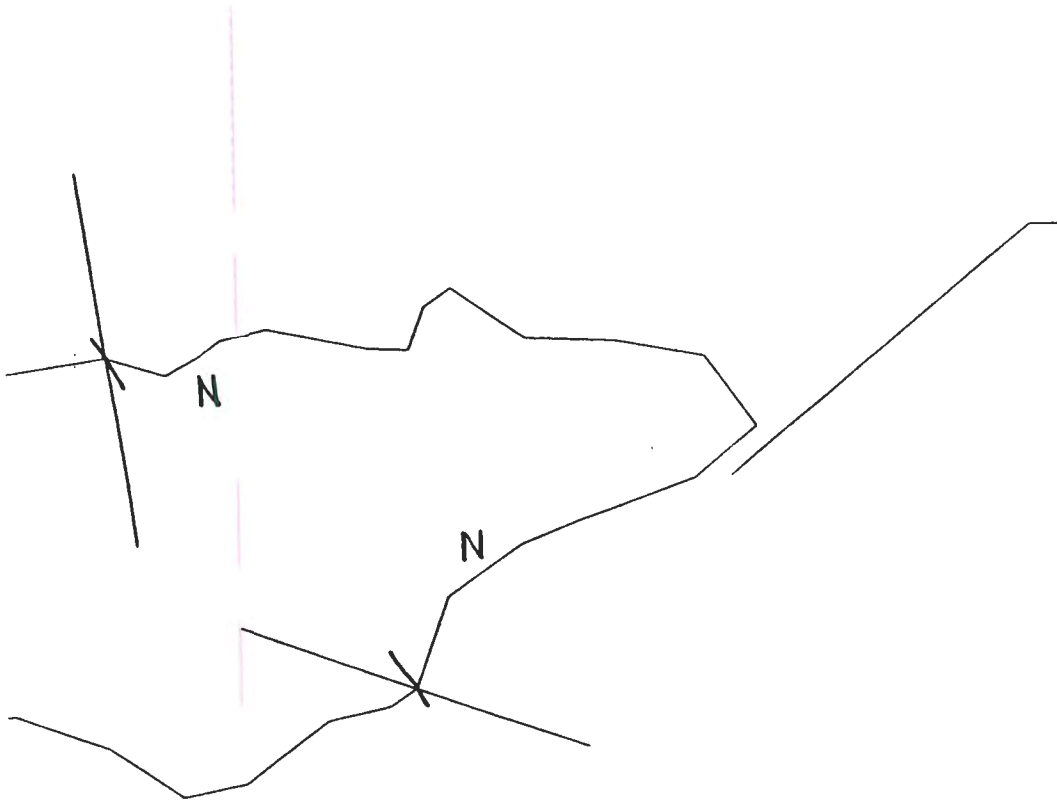
SOLID WASTE FOUND

Type: None

Bags Collected: 0

KN604

0 meters 500



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN605 DATE: 10/02/89
LOCATION: MUMMY BAY, KNIGHT ISLAND TIME: 10:02

Survey Type: Boat, Ground
Team: M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

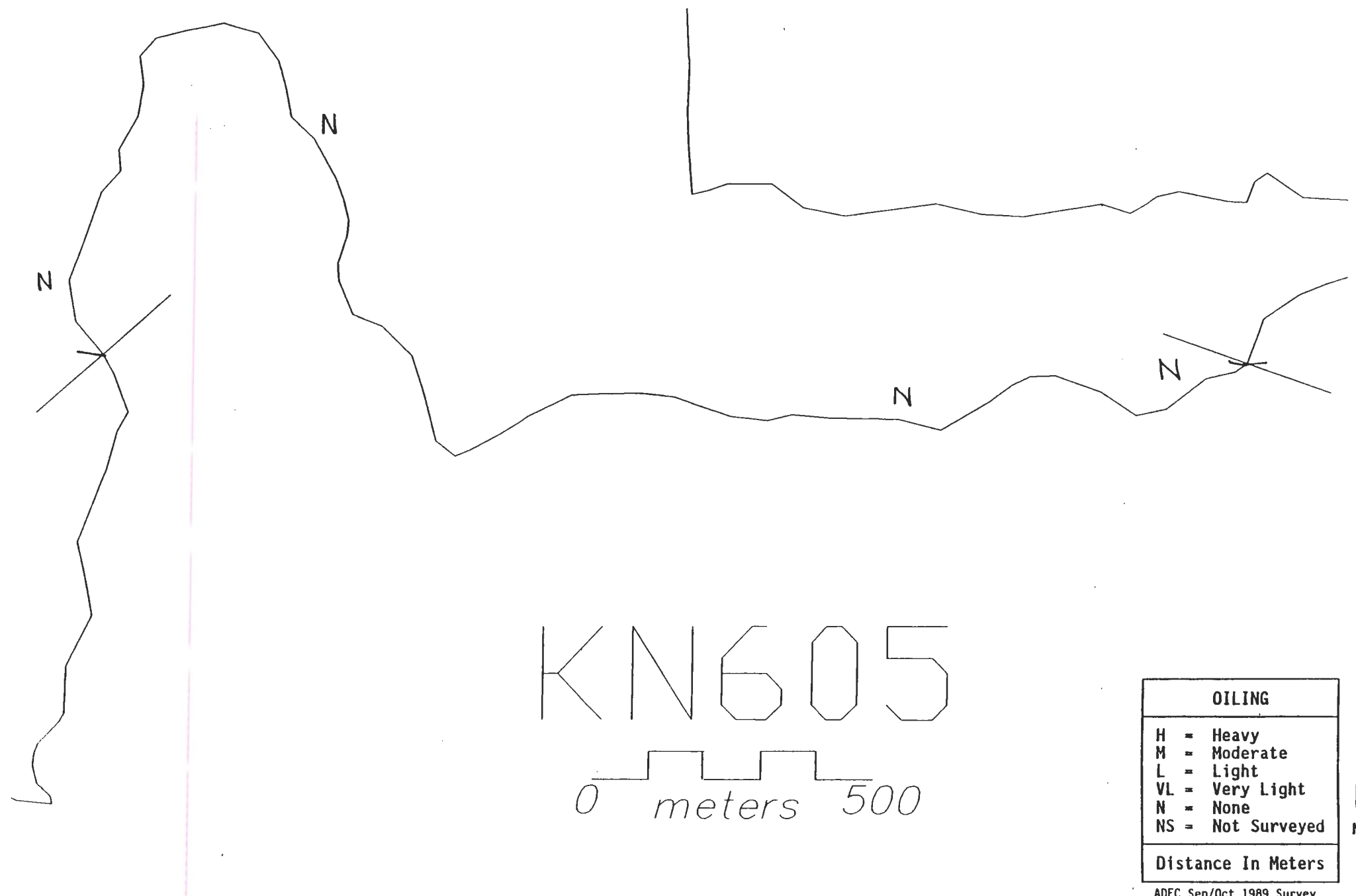
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0



KN605

0 meters 500

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN606
 LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
 TIME: 11:52

Survey Type: Boat, Ground
 Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
 Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

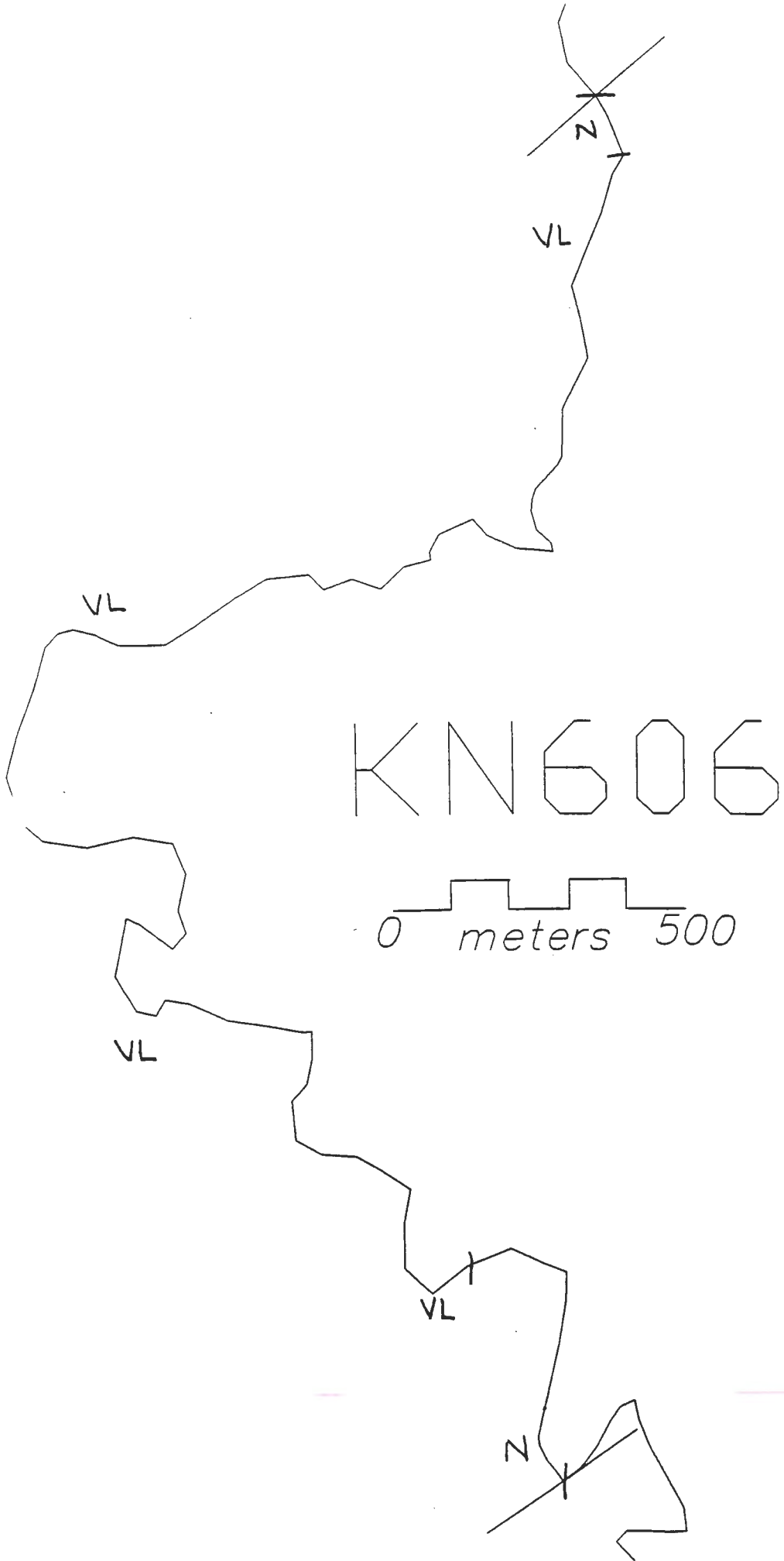
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
 Bags Collected: 0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN607
LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
TIME: 11:30

Survey Type: Boat, Ground
Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Clam

Wind Direction: 0
Knots: 0

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

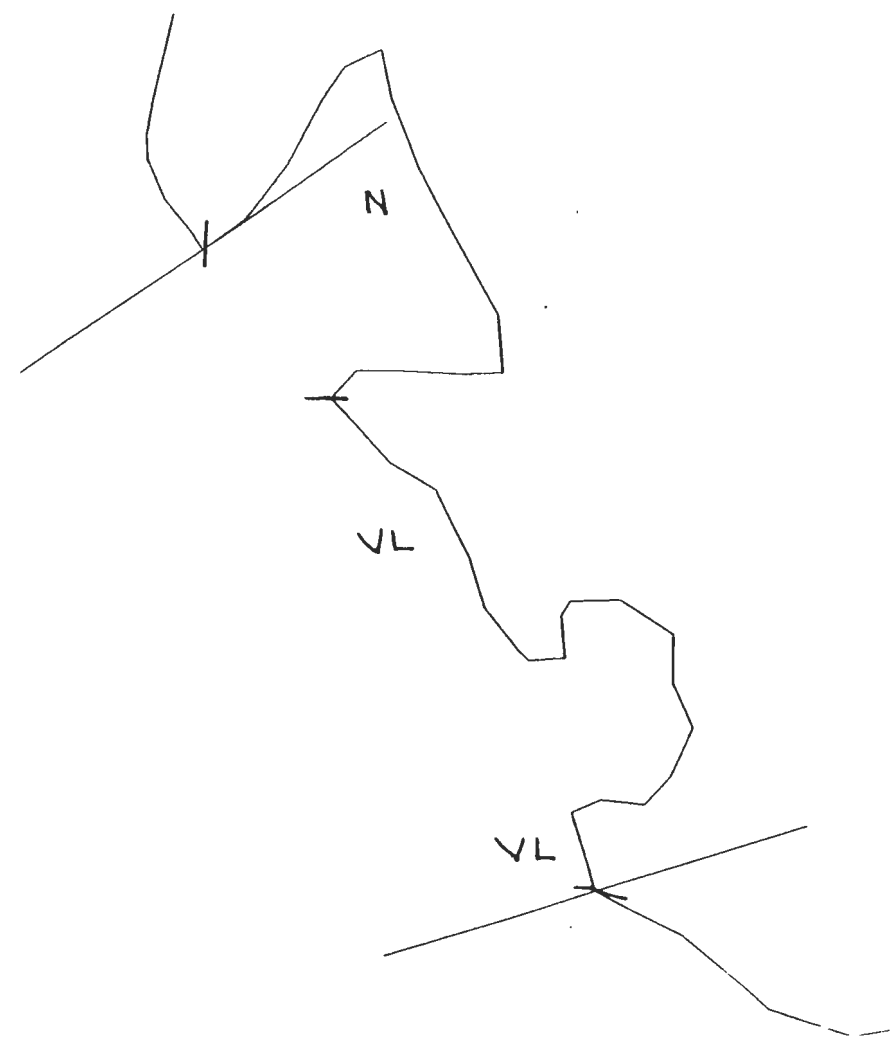
SOLID WASTE FOUND

Type: Garbage

Bags Collected: 0

K N G 6 0 7

0 meters 500



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN608
LOCATION: S KNIGHT ISLAND

DATE: 10/02/89
TIME: 8:37

Survey Type: Boat, Ground
Team: G. Pavia, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: SW
Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 45 cm (35 = 35 cm or greater)

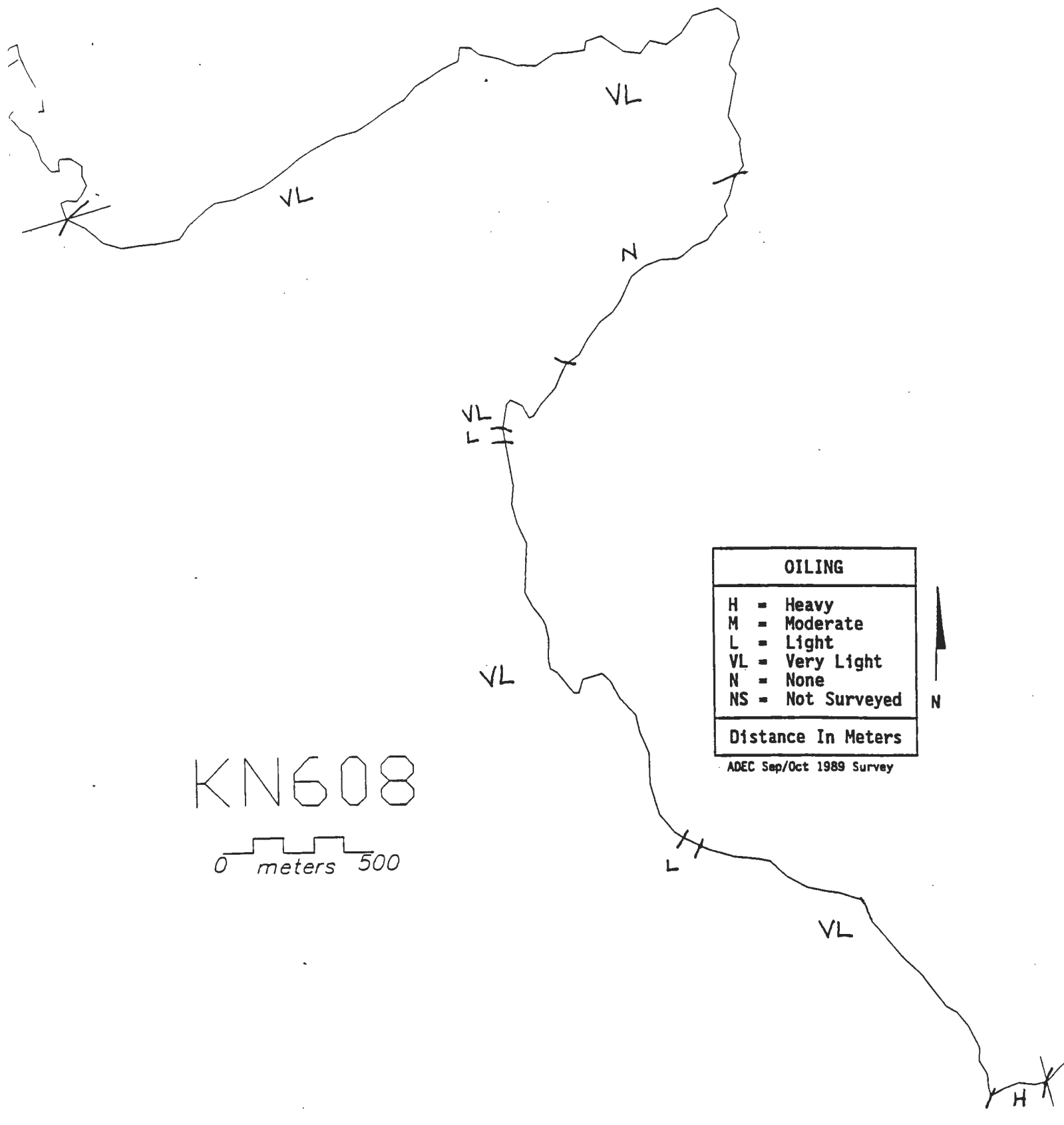
Percent Segment Categorized as Oiled: 85%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,Y,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, clean up debris, other
Bags Collected: 1



KN608



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN700 DATE: 09/30/89
LOCATION: S MARSHA BAY, KNIGHT I. TIME: 10:17

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 20 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 6 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN700-1 / KN700-2 / none / none

DAMAGED OR OILED ORGANISMS

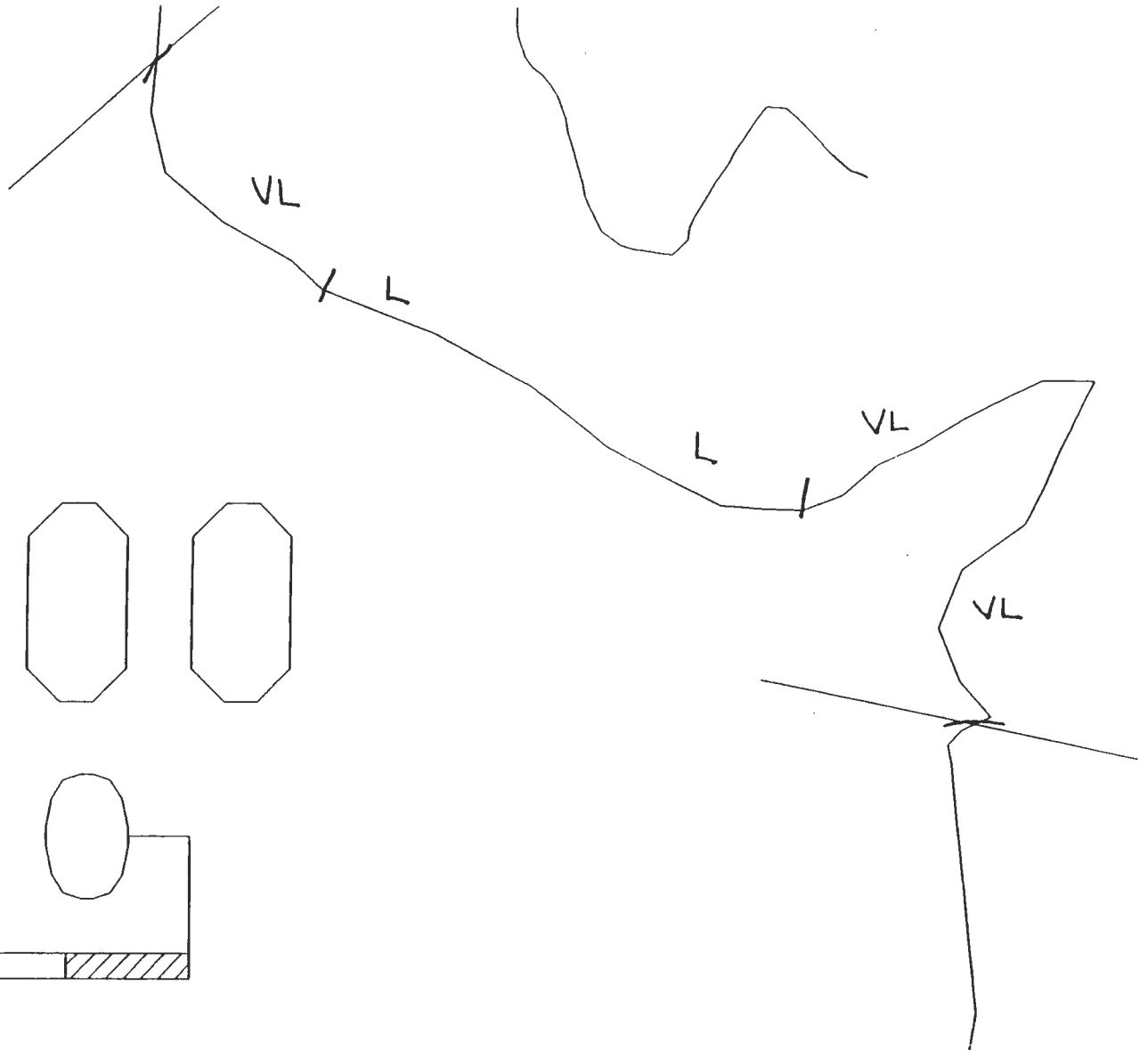
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Rebar, flagging
Bags Collected: 0

KN700

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN701 DATE: 09/30/89
LOCATION: S MARSHA BAY, KNIGHT I. TIME: 17:56

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 60 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN701-1 / KN701-2 / none / none

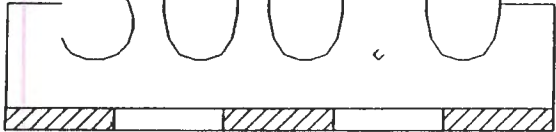
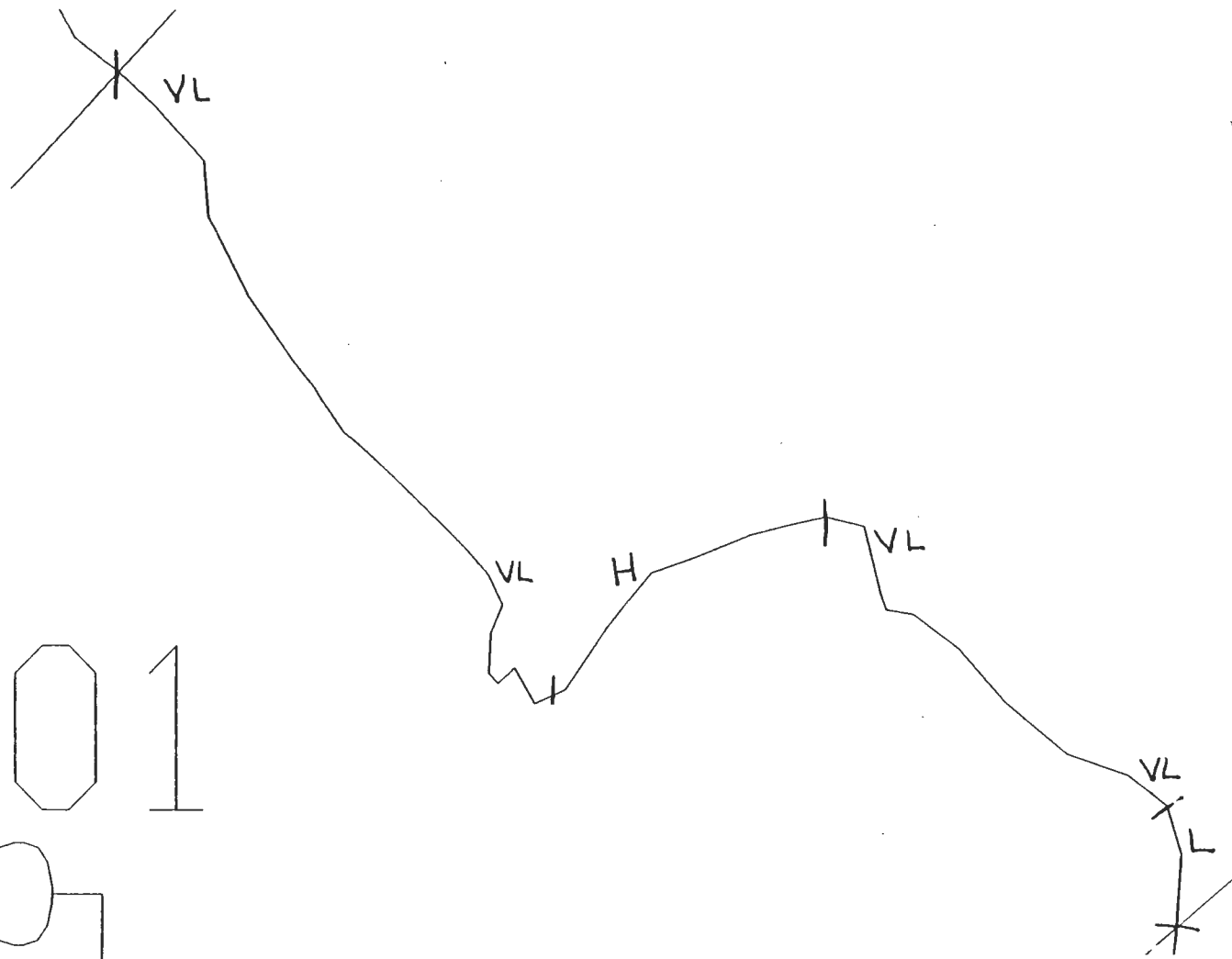
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN701
500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN702 . DATE: 09/30/89
LOCATION: S MARSHA BAY, KNIGHT I. TIME: 8:50

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 40 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 80%
Presence of Oiled Driftwood (y/n): y
Oil Types: P,M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

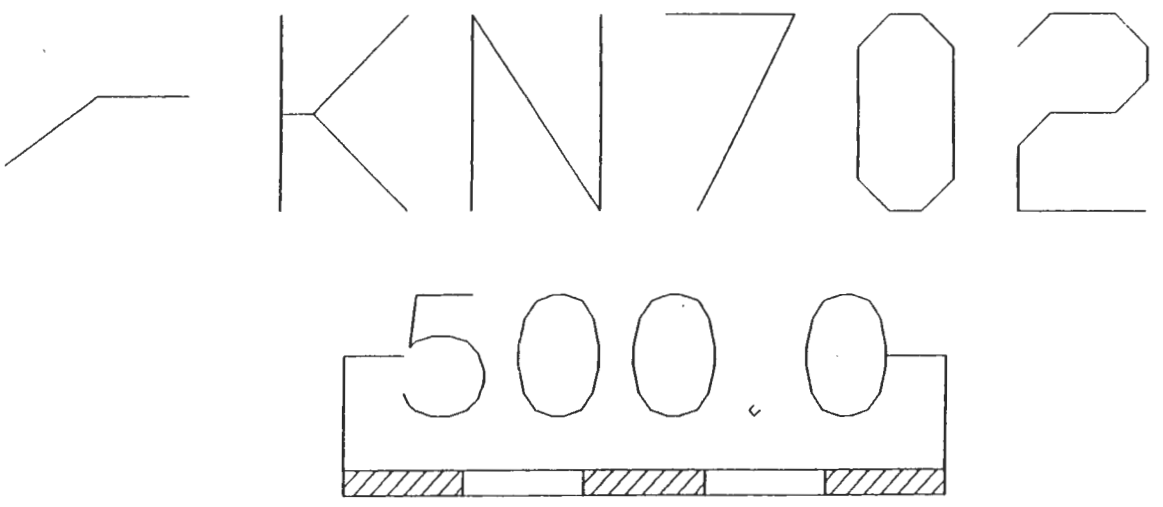
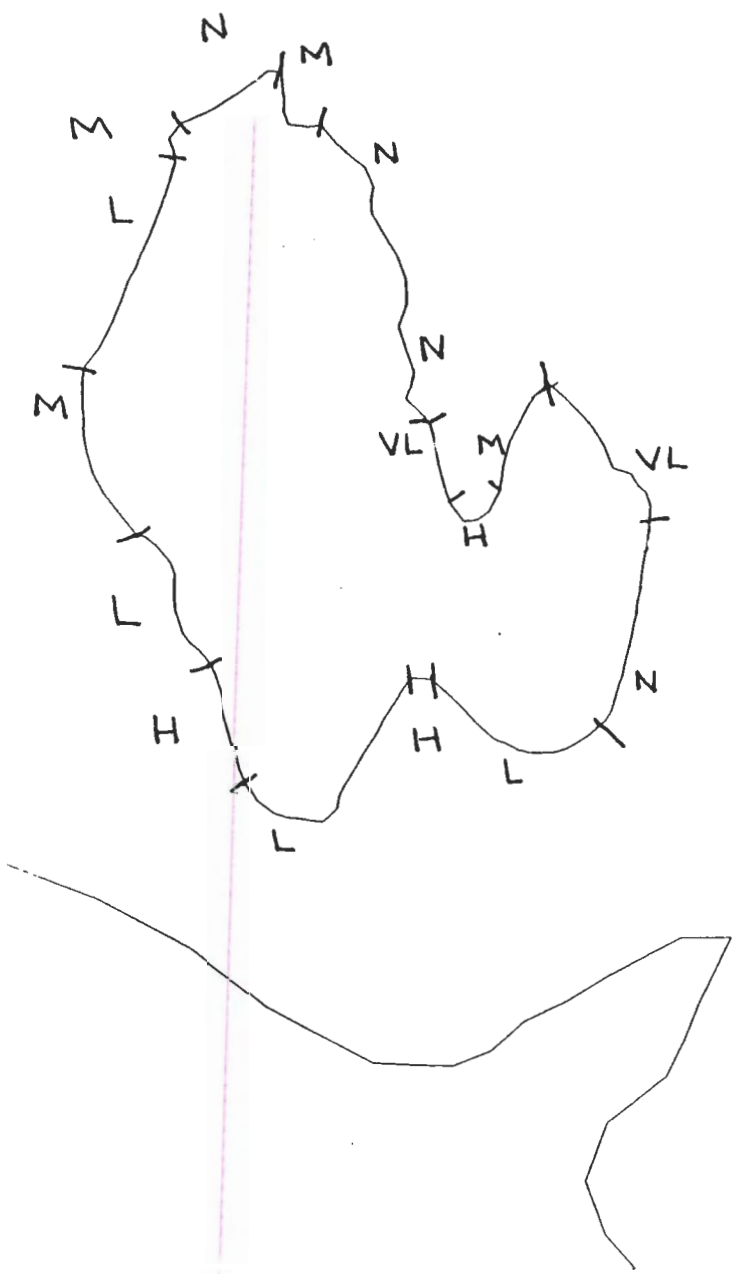
Samples: KN702-1 / KN702-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN703

DATE: 09/30/89

LOCATION: W MARSHA BAY, KNIGHT I.

TIME: 18:50

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%

Presence of Oiled Driftwood (y/n): n

Oil Types: SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN703-1 / KN703-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

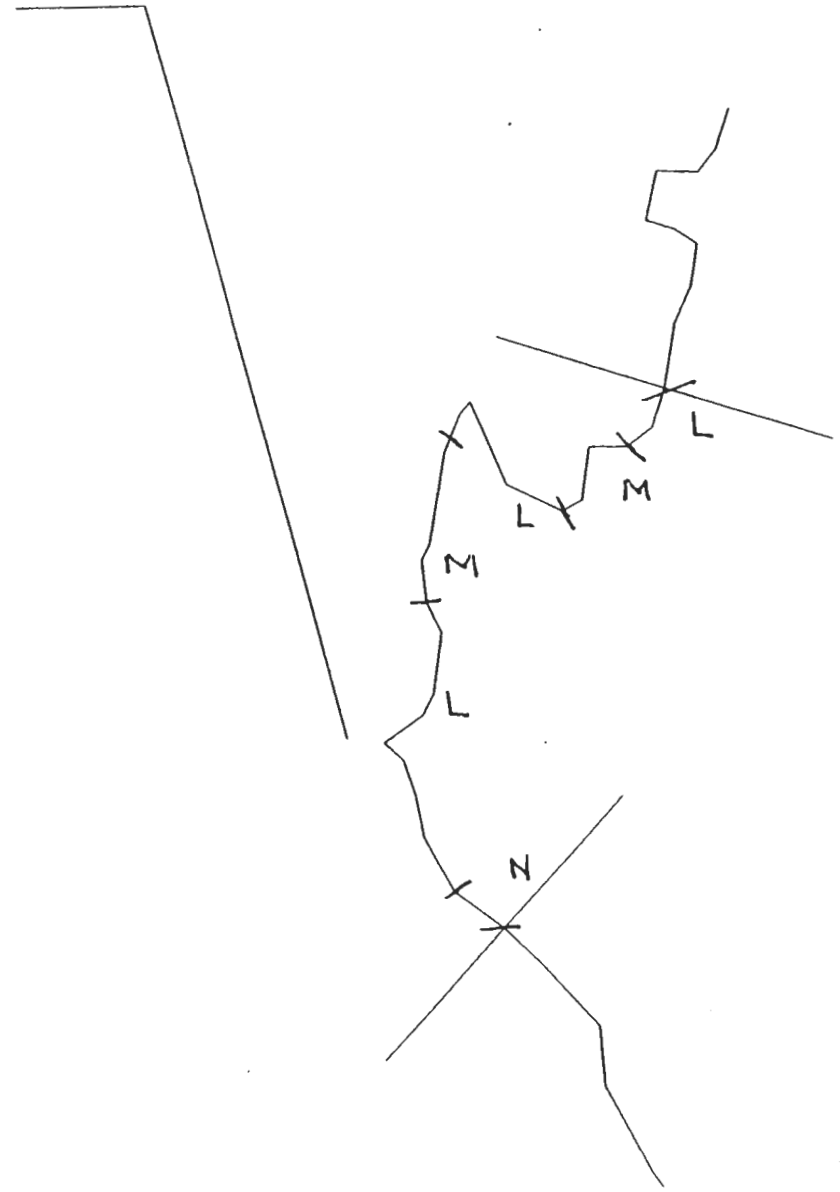
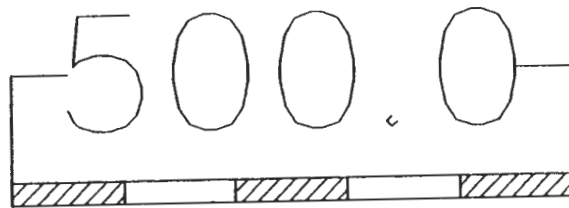
Type: Cleanup debris

Bags Collected: 1

Draft

Printed: 12/12/89 11:42

KN703



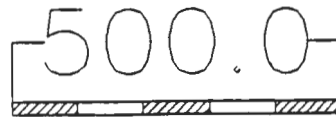
OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

KN704

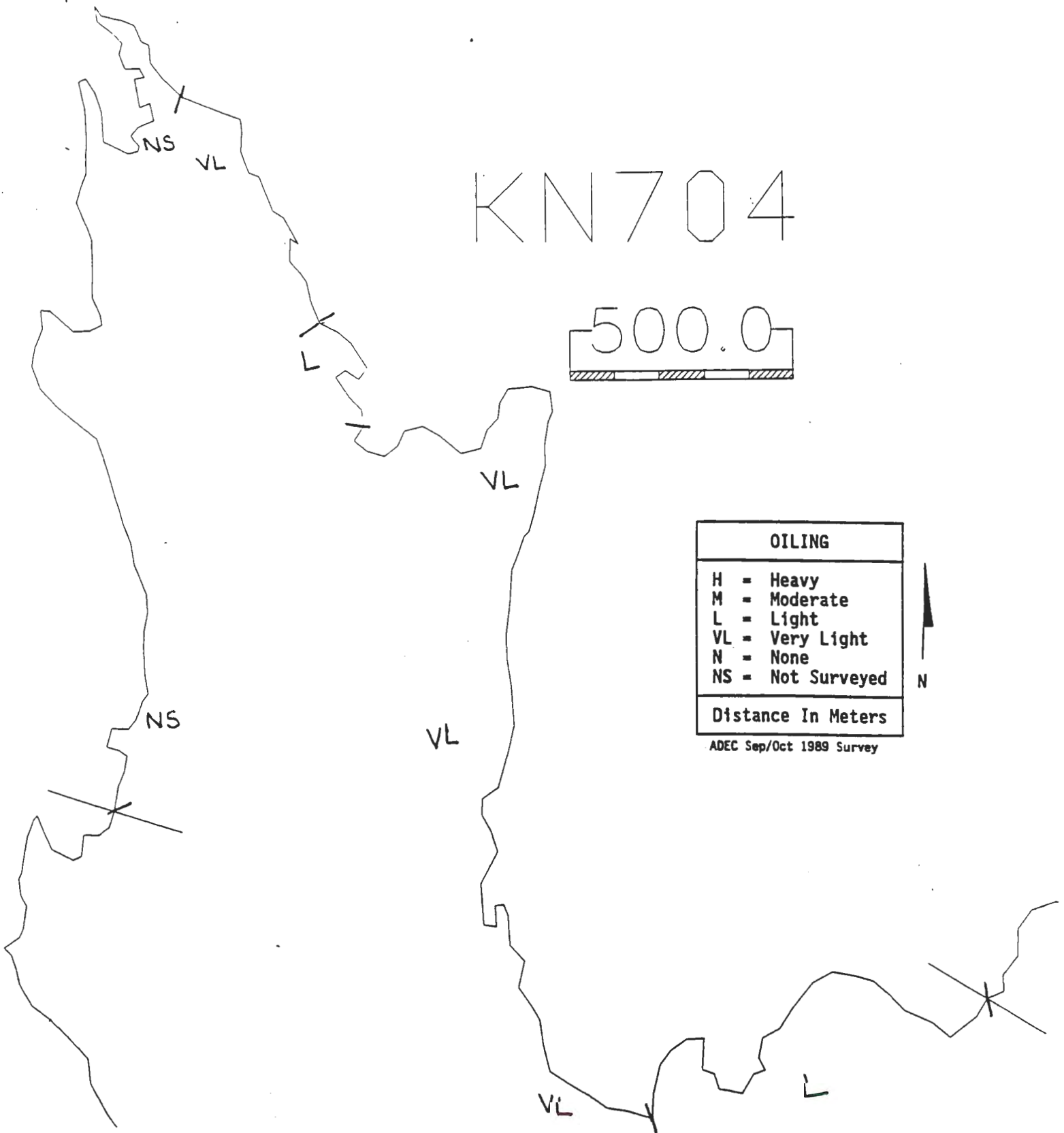
500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN705 DATE: 09/30/89
LOCATION: E CENTRAL KNIGHT ISLAND TIME: 11:00

Survey Type: Boat, Ground
Team: P. Endres, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 20 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

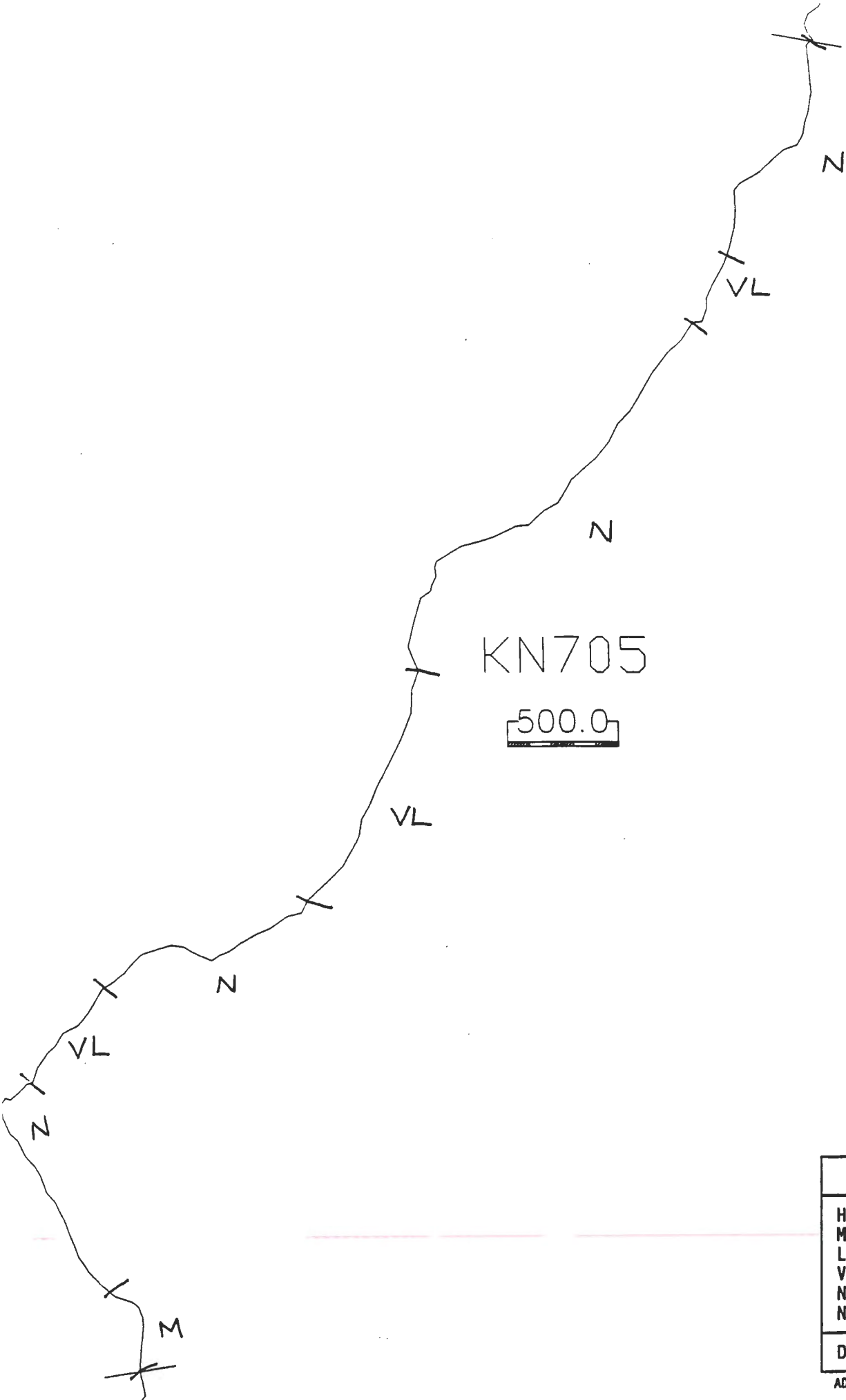
Percent Segment Categorized as Oiled: 35%
Presence of Oiled Driftwood (y/n): y
Oil Types: P,M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN705-1 / KN705-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN706 DATE: 09/30/89
LOCATION: NE SNUG HARBOR, KNIGHT I. TIME: 8:20

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 1 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 85%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

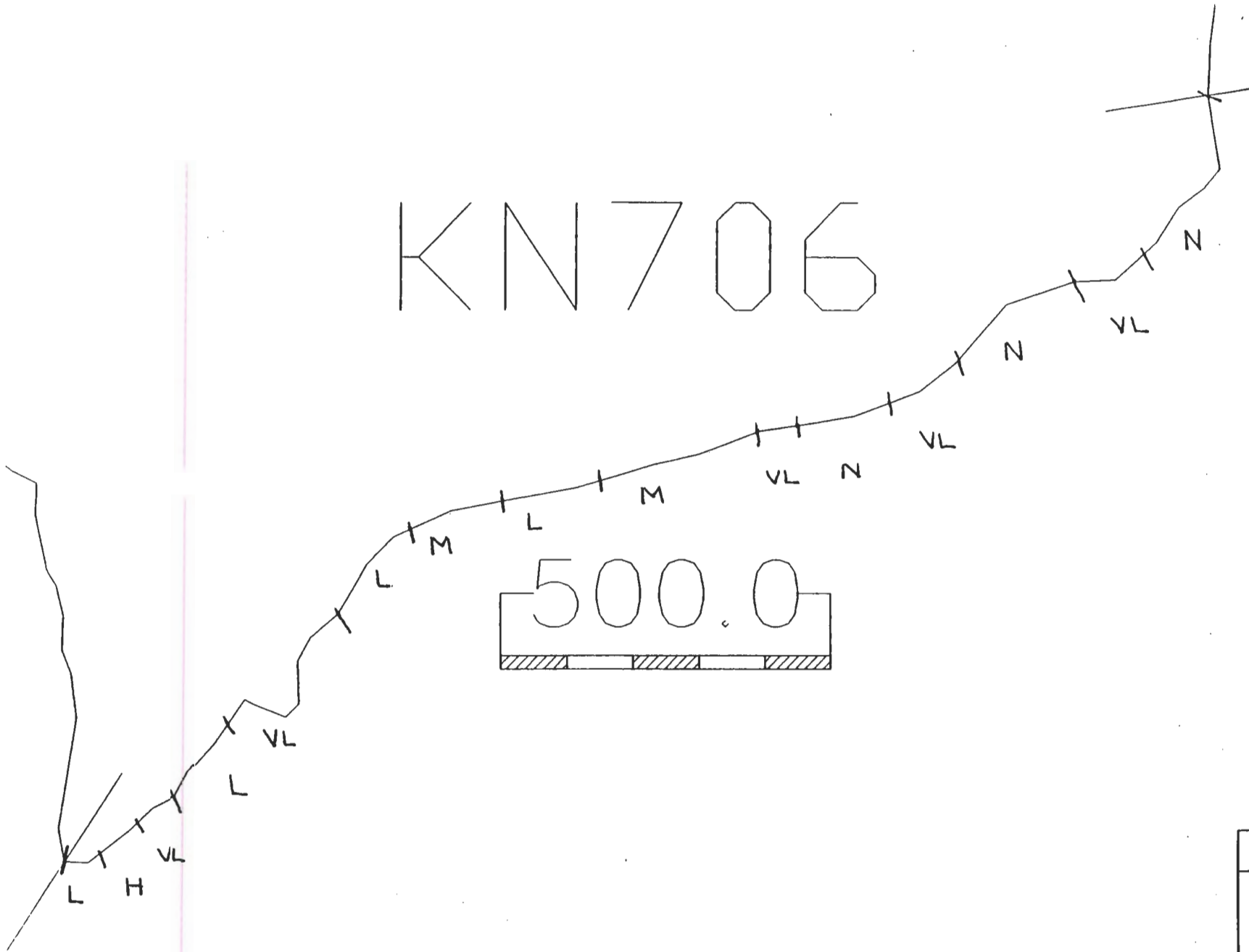
DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Boom
Bags Collected: 0

KN706



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5000 . DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 18:15

Survey Type: Boat, Ground
Team: P. Montesano, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15
Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

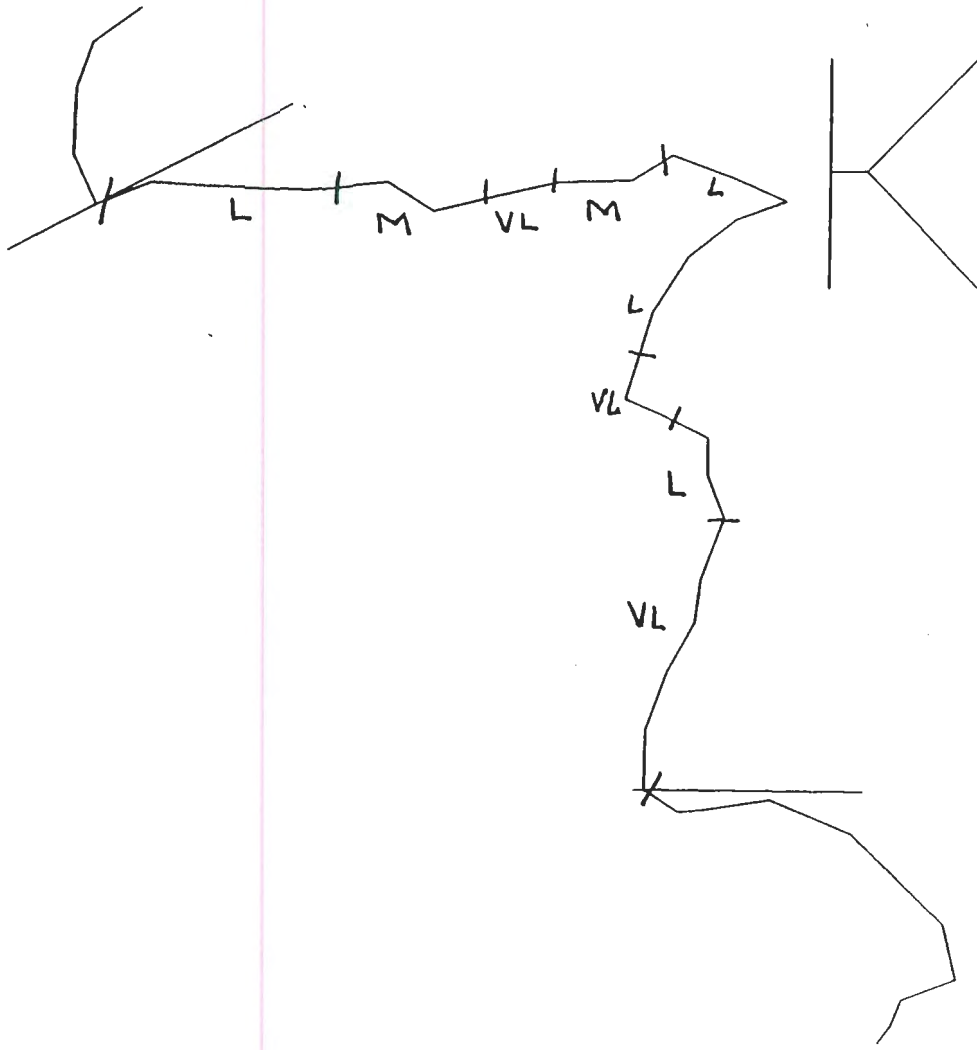
Degree of Oiling: VL,L,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN5000-1 / KN5000-2 / none / none

DAMAGED OR OILED ORGANISMS

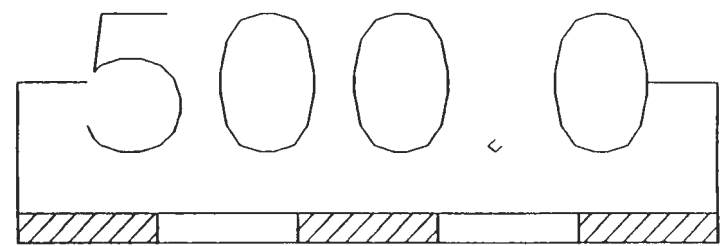
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Many localities, signs, paint marks
Bags Collected: 0



K N 5 0 0 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5001 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 18:51

Survey Type: Boat, Ground
Team: P. Montesano, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

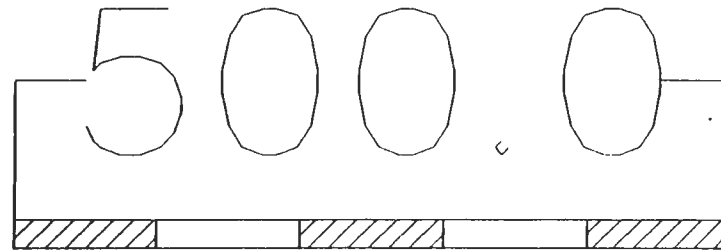
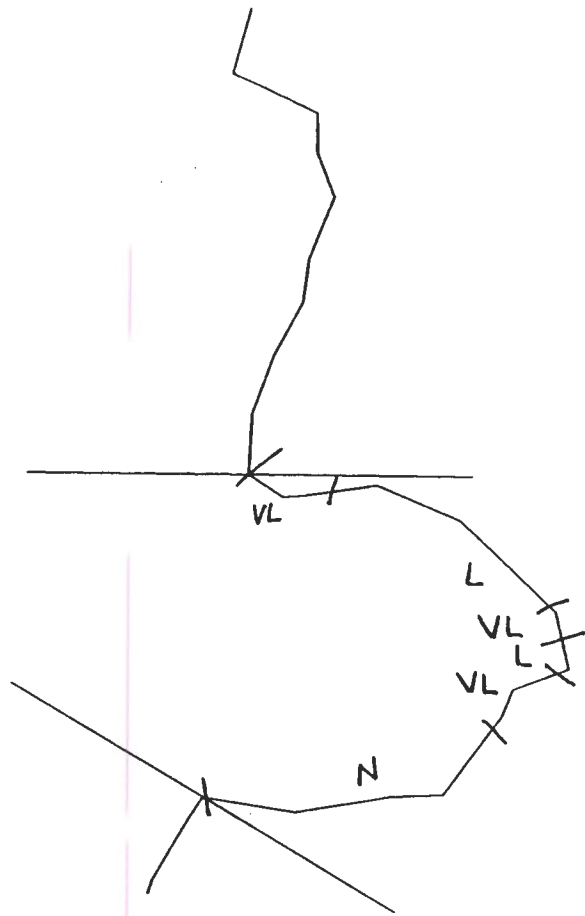
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



K N 5 0 0 1

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5002 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 18:51

Survey Type: Boat, Ground
Team: P. Montesano, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

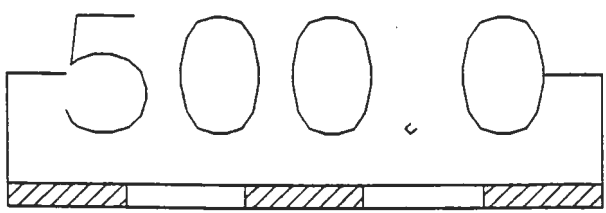
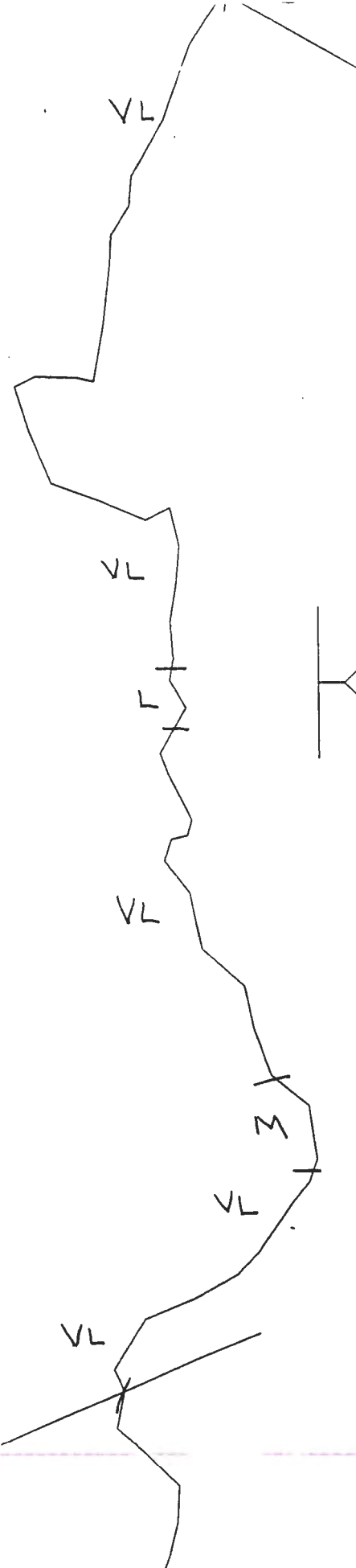
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



KN5002

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5003 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 19:59

Survey Type: Boat, Ground
Team: P. Montesano, D. Zorbrist

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

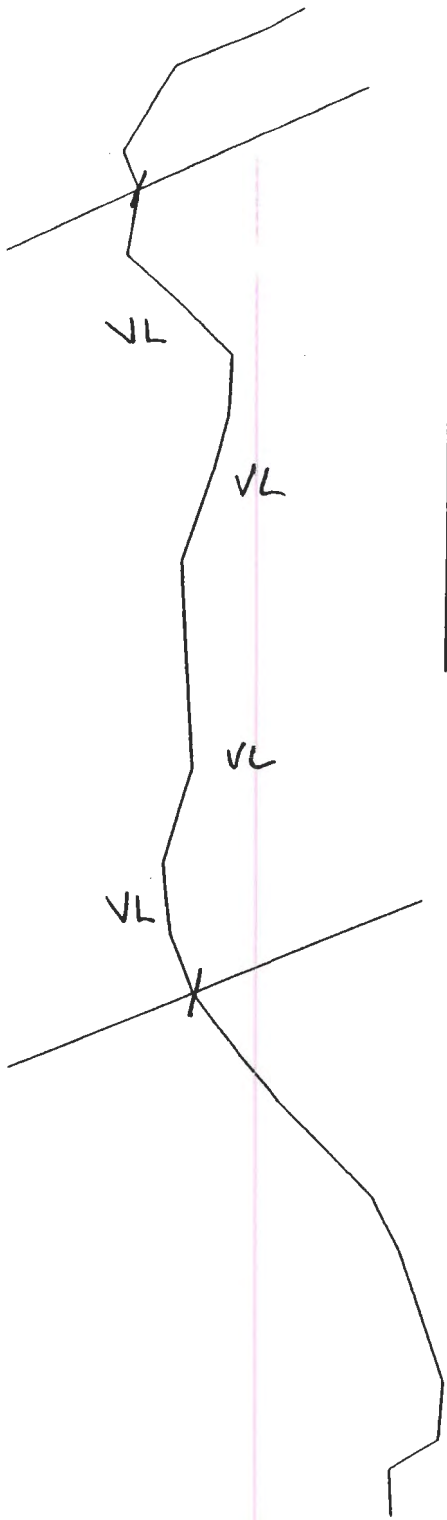
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

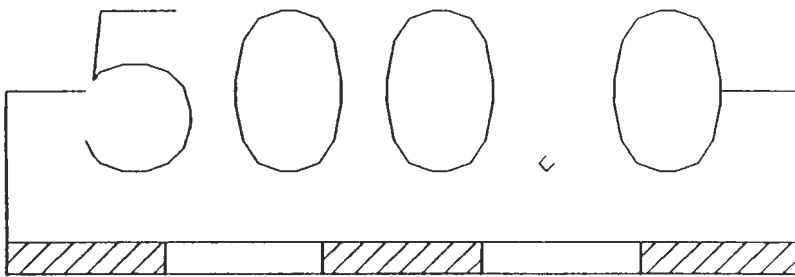
Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): -
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



K N S 5 0 0 0 3



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5004 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 20:00

Survey Type: Boat, Ground
Team: D. Zobrist, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): -
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

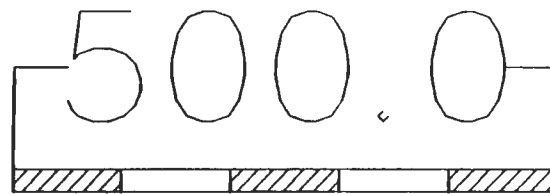
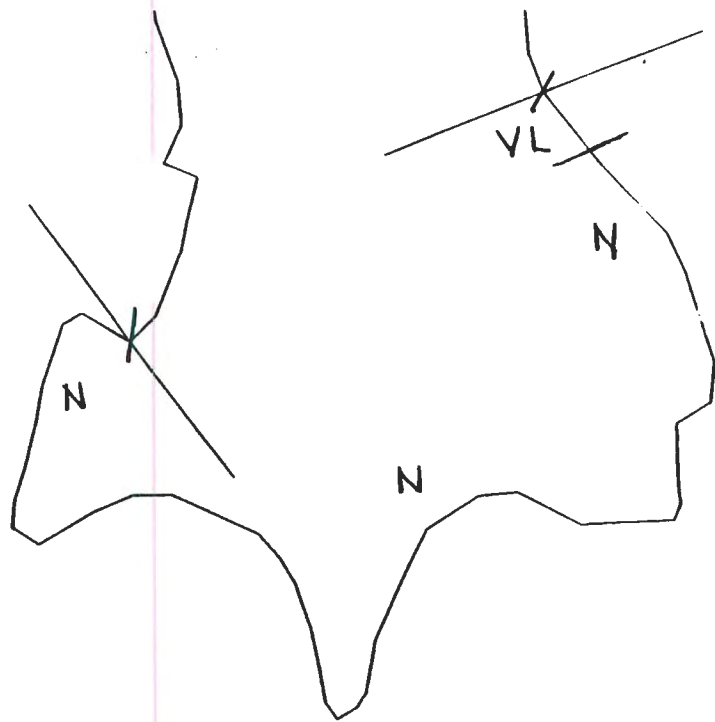
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

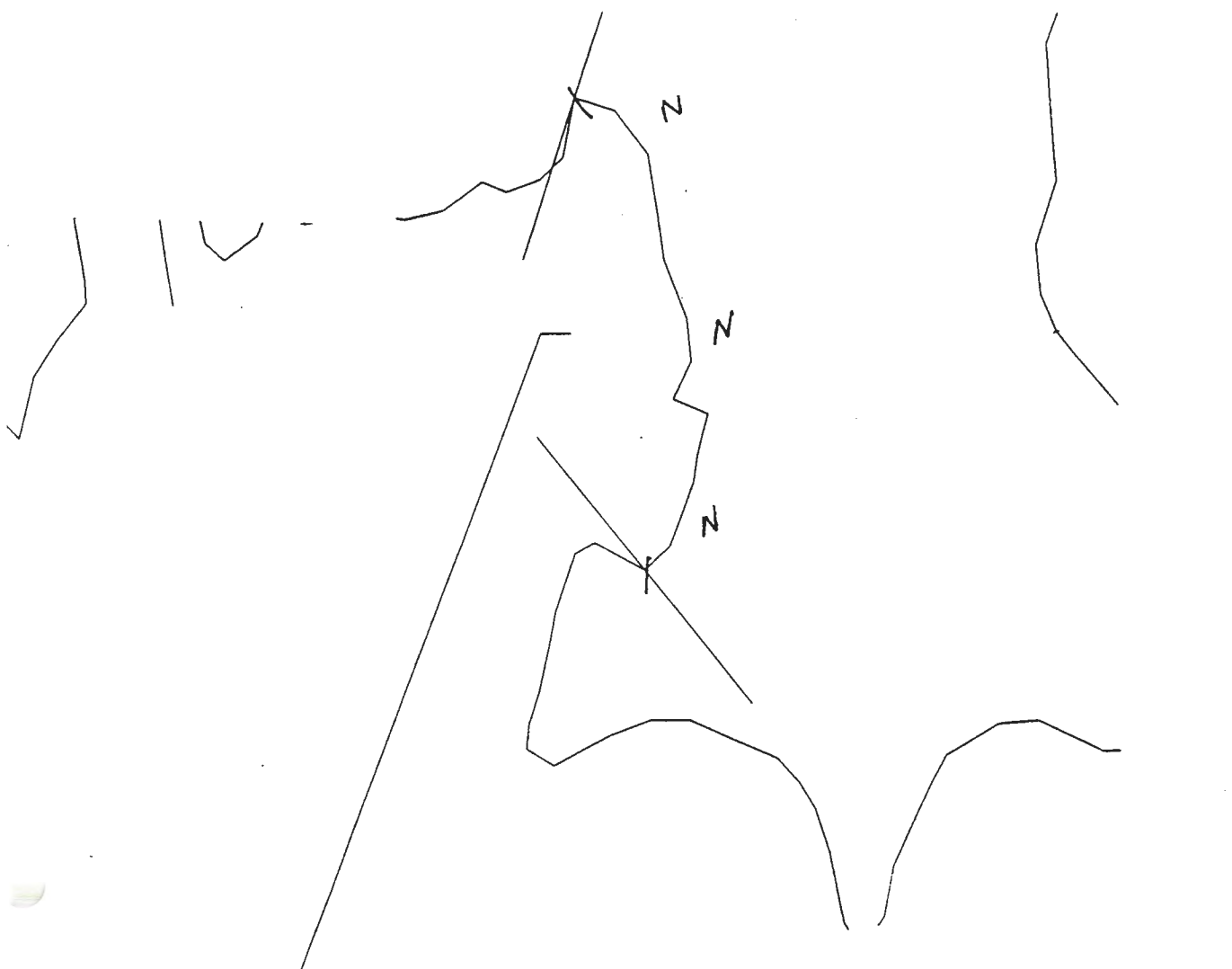
Type: None
Bags Collected: 0



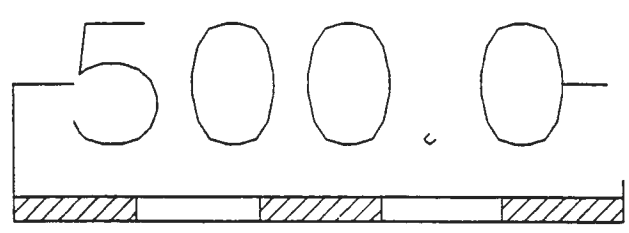
KN50004

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	





OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



KN5005

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5006 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 8:32

Survey Type: Boat, Ground
Team: P. Endres, H. Wood, C. Robinson

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

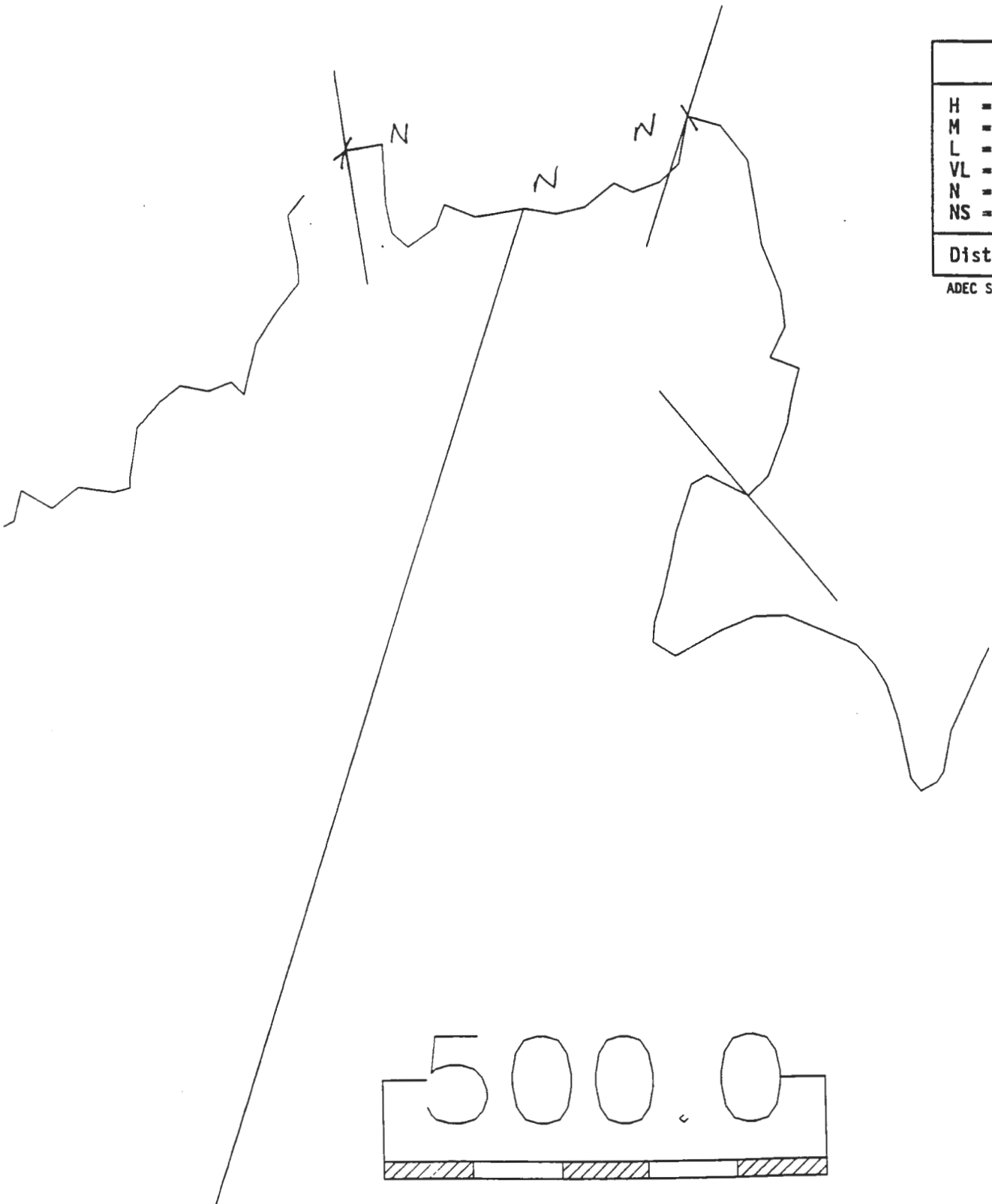
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

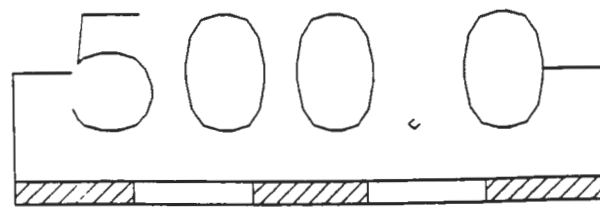
Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



KN5006

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5007 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 8:39

Survey Type: Boat, Ground
Team: P. Enders, H. Wood, C. Robinson

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

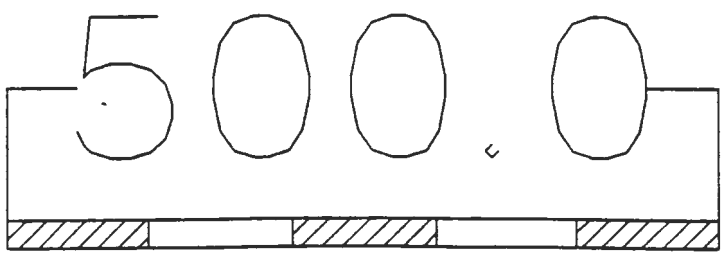
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



K N 5 0 0 7



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5008 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 20:15

Survey Type: Boat, Ground
Team: P. Endres, H. Wood, C. Robinson

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 80%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5009 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 20:15

Survey Type: Boat, Ground
Team: P. Endres, H. Wood, C. Robinson

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretupes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

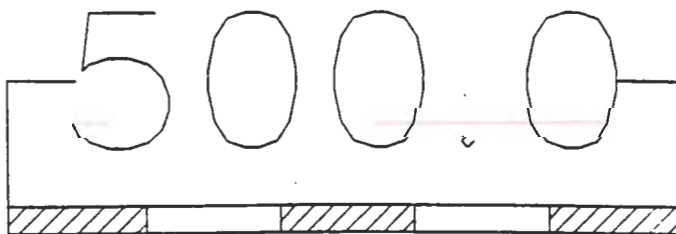
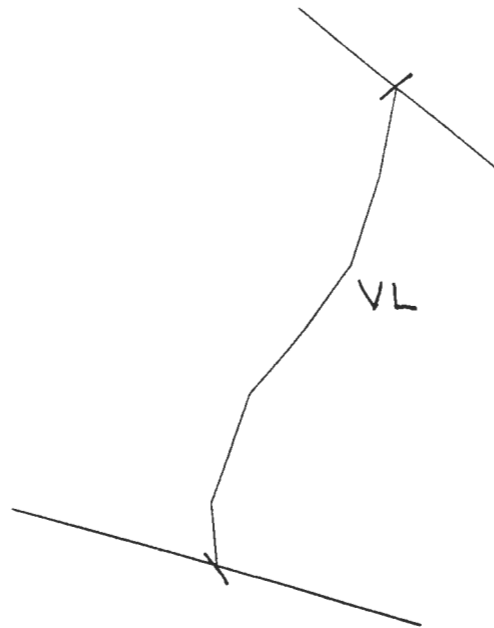
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

KN5009



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5010 DATE: 09/16/89
 LOCATION: S HERRING BAY, KNIGHT I. TIME: 20:00

Survey Type: Boat, Ground
 Team: H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
 Sea State: Calm Knots: 0
 Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
 Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretupes: H
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: L (H=high, M=moderate, L=low)
 Shoreline Composition: R
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: none
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 0%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: none
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

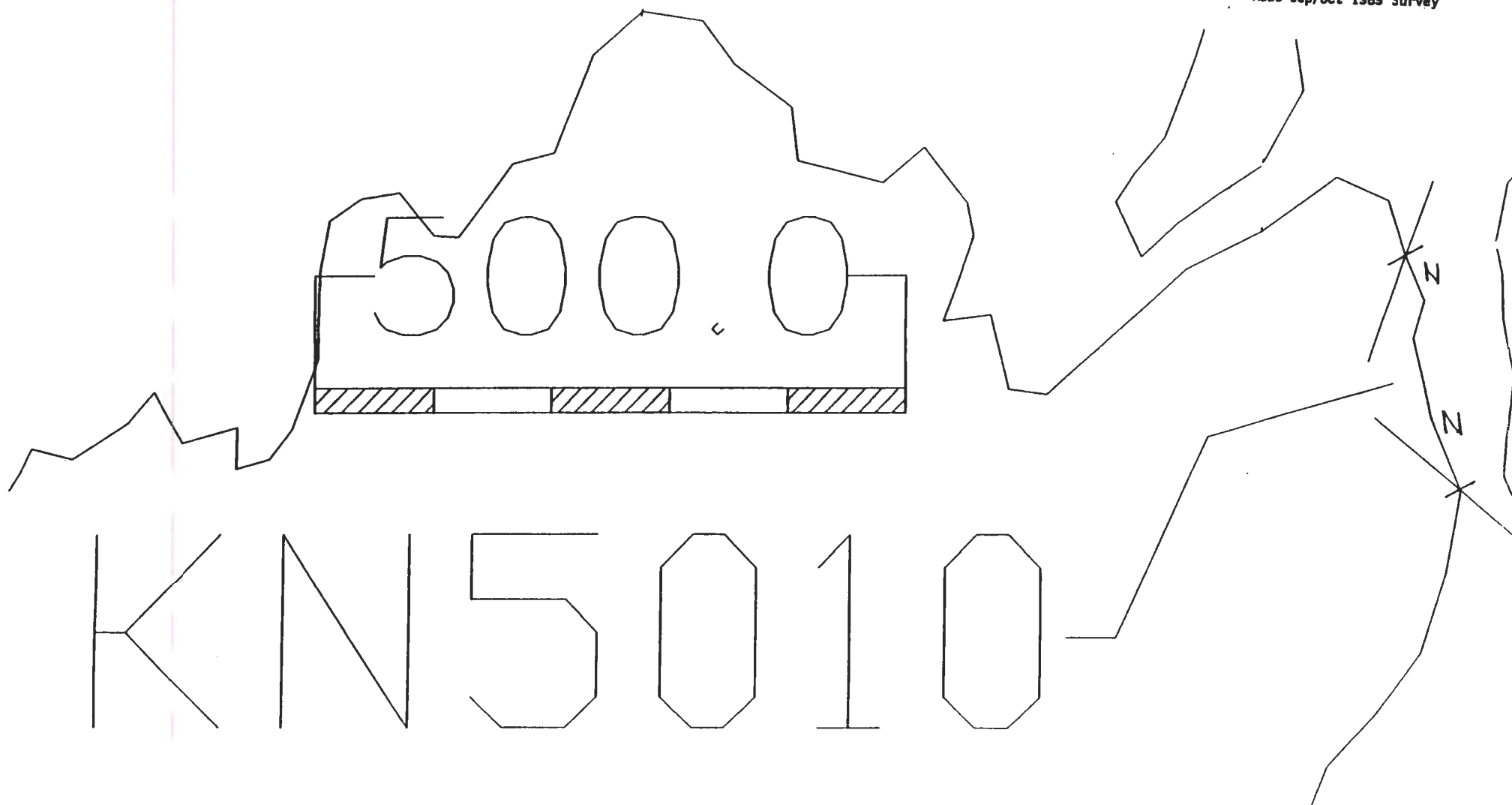
SOLID WASTE FOUND

Type: None
 Bags Collected: 0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5011 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 18:05

Survey Type: Boat, Ground
Team: C. Robinson, P. Endres, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 30%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN5012 DATE: 09/16/89
LOCATION: SE HERRING BAY, KNIGHT I. TIME: 6:58

Survey Type: Boat, Ground
Team: H. Wood, C. Robinson, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 8:28 Feet: -1.1 High Tide: 14:42 Feet: 14.
Low Tide: 20:53 Feet: -1.8 High Tide: 2:23 Feet: 13.5

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: KN5012-1 / KN5012-2 / none / none

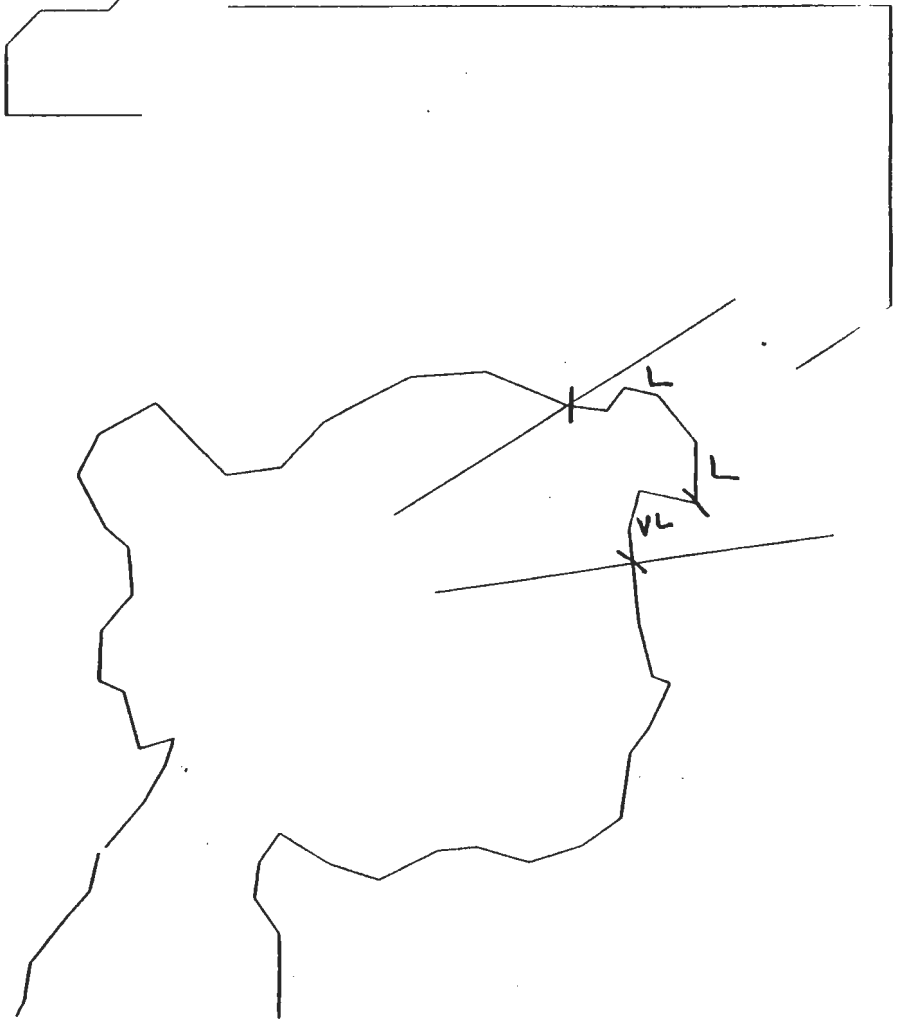
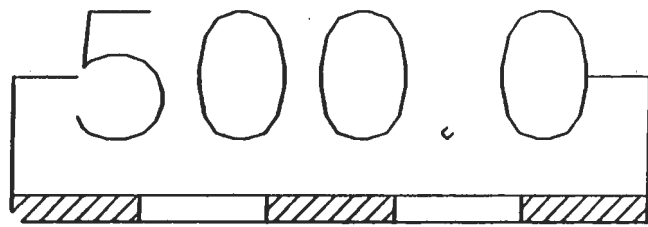
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, rope
Bags Collected: 0

KN5012



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed



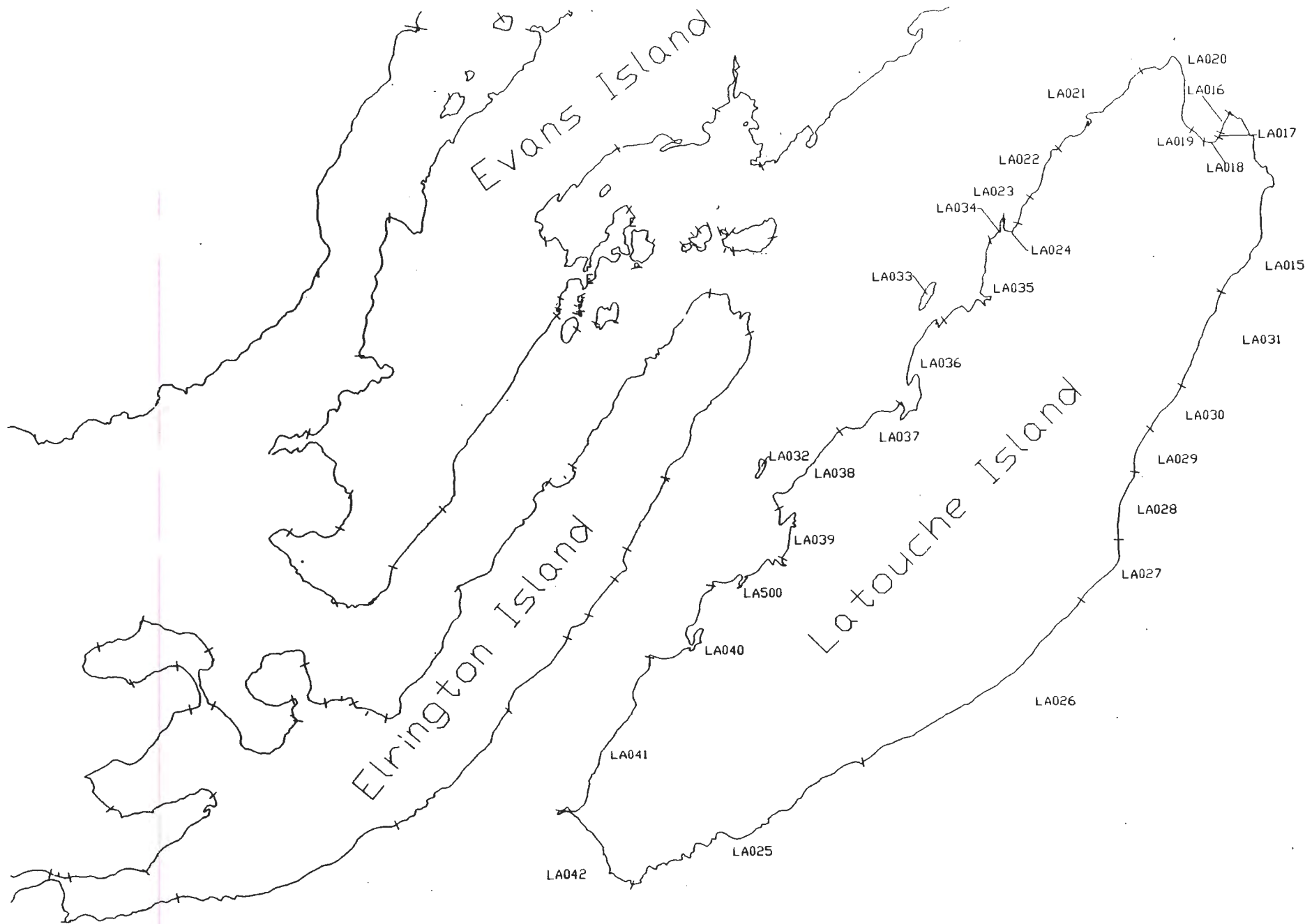
Distance In Meters

ADEC Sep/Oct 1989 Survey

SECTION CONTENTS — LATOUCHE ISLAND

SEGMENT#	LOCATION
LA015	NE LATOUCHE ISLAND
LA016	SLEEPY BAY, LATOUCHE I.
LA017	SLEEPY BAY, LATOUCHE I.
LA018	SLEEPY BAY, LATOUCHE I.
LA019	SLEEPY BAY, LATOUCHE I.
LA020	SLEEPY BAY, LATOUCHE I.
LA021	NW LATOUCHE ISLAND
LA022	NW LATOUCHE ISLAND
LA023	NW LATOUCHE ISLAND
LA024	NW LATOUCHE ISLAND
LA025	SE LATOUCHE ISLAND
LA026	SE LATOUCHE ISLAND
LA028	NE LATOUCHE ISLAND
LA029	NE LATOUCHE ISLAND
LA030	NE LATOUCHE ISLAND
LA031	NE LATOUCHE ISLAND
LA032	ISLAND OFF W LATOUCHE I.
LA033	ISLAND OFF W LATOUCHE I.
LA034	NW LATOUCHE ISLAND
LA035	NW LATOUCHE ISLAND
LA036	NW LATOUCHE ISLAND
LA037	SW LATOUCHE ISLAND
LA038	SW LATOUCHE ISLAND
LA039	SW LATOUCHE ISLAND
LA040	SW LATOUCHE ISLAND
LA041	SW LATOUCHE ISLAND
LA042	S LATOUCHE ISLAND
LA500	SW LATOUCHE ISLAND

Printed: 12/12/89



Danger Island

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA015
LOCATION: NE LATOUCHE ISLAND

DATE: 10/03/89
TIME: 8:20

Survey Type: Boat, Ground
Team: D. Munson, E. Meggart, D. Harwood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 22:19 Feet: 0.35 High Tide: 3:57 Feet: 10.8
Low Tide: 9:41 Feet: 3.06 High Tide: 15:37 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 9 cm (35 = 35 cm or greater)

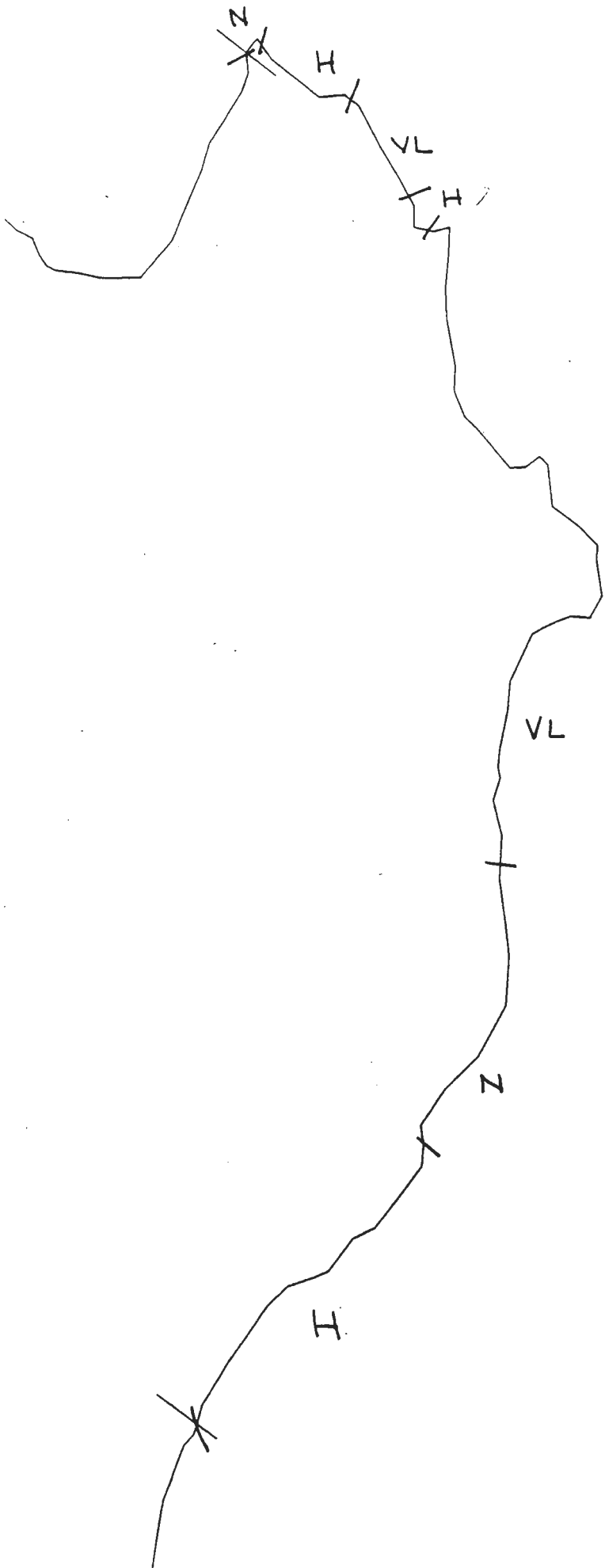
Percent Segment Categorized as Oiled: -0-%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA15-1 / LA15-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



LA015

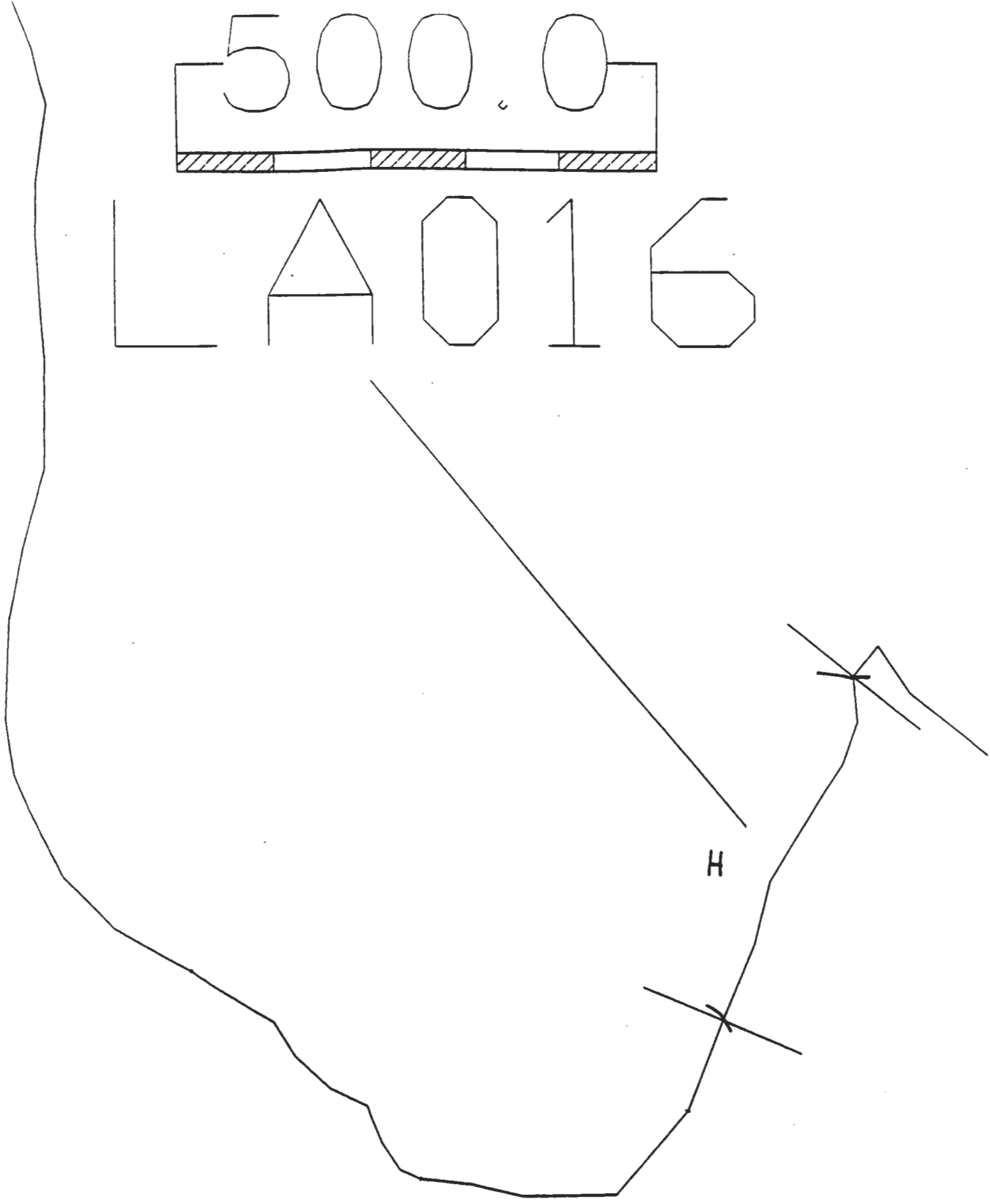


OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



500.0

LA016



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA017
LOCATION: SLEEPY BAY, LATOUCHE I.

DATE: 09/26/89
TIME: 18:45

Survey Type: Boat
Team: W. Ghormley, J. Hayes

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: N
Sea State: Moderate Knots: 0-15

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 1 cm (35 = 35 cm or greater)

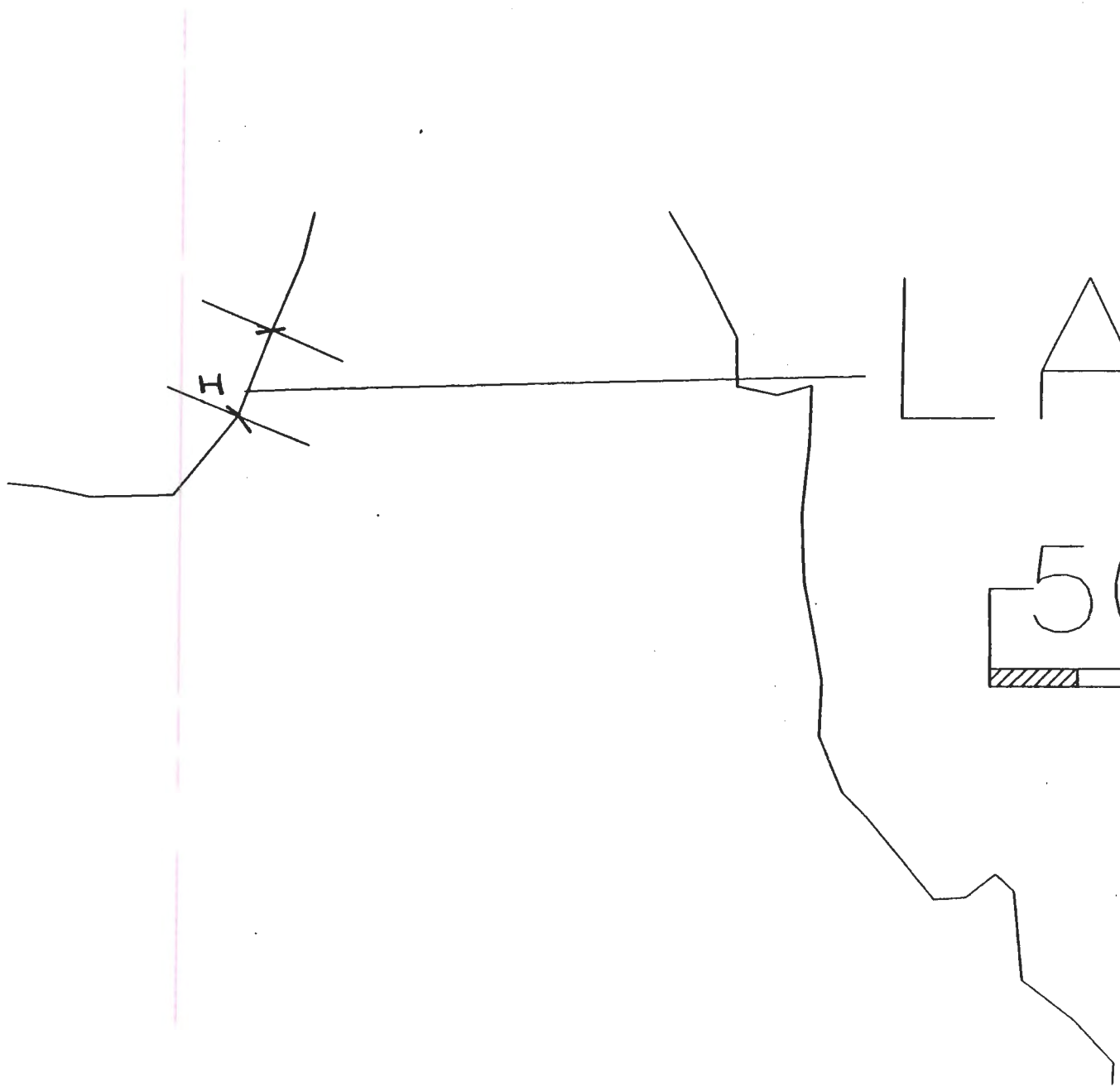
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; Boom, pom pom
Bags Collected: 1



LA017

500.0

OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA018 DATE: 10/03/89
LOCATION: SLEEPY BAY, LATOUCHE I. TIME: 10:30

Survey Type: Boat, Ground
Team: D. Hall, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy, Rain Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 22:19 Feet: 0.35 High Tide: 3:57 Feet: 10.8
Low Tide: 9:41 Feet: 3.06 High Tide: 15:37 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 40 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA018-1 / LA018-2 / none / none

DAMAGED OR OILED ORGANISMS

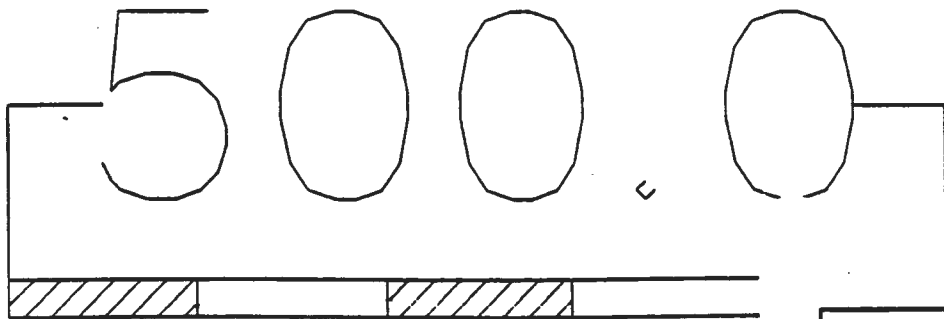
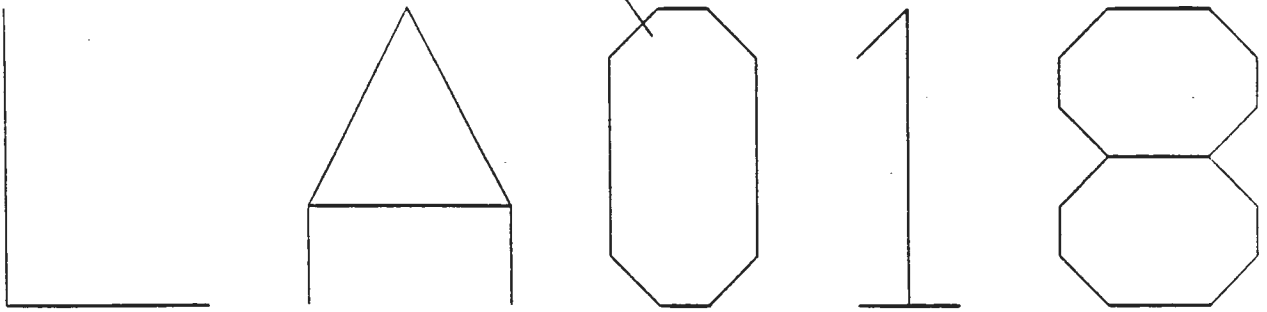
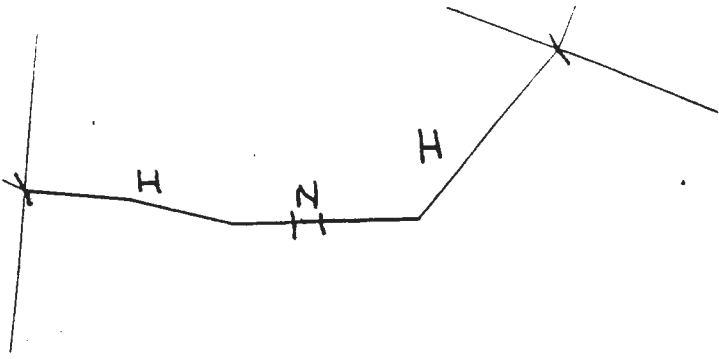
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 1

SOLID WASTE FOUND

Type: One locality, signs, paint marks
Bags Collected: 0

Draft

Printed: 12/12/89 11:43



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA019 DATE: 10/03/89
LOCATION: SLEEPY BAY, LATOUCHE I. TIME: 9:15

Survey Type: Boat, Ground
Team: D. Hall, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 22:19 Feet: 0.35 High Tide: 3:57 Feet: 10.8
Low Tide: 9:41 Feet: 3.06 High Tide: 15:37 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 45 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA019-1 / LA019-2 / none / none

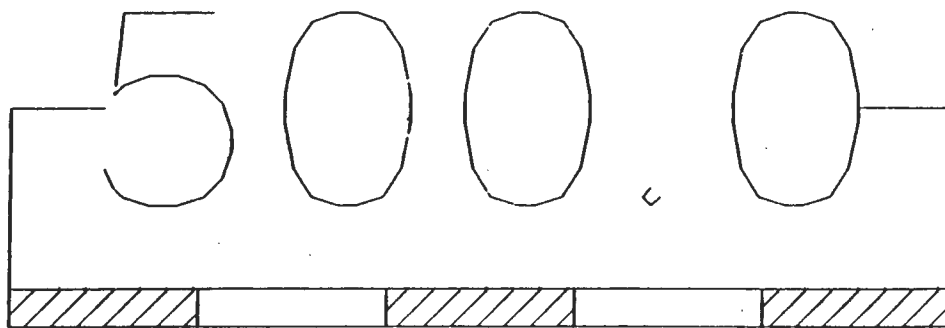
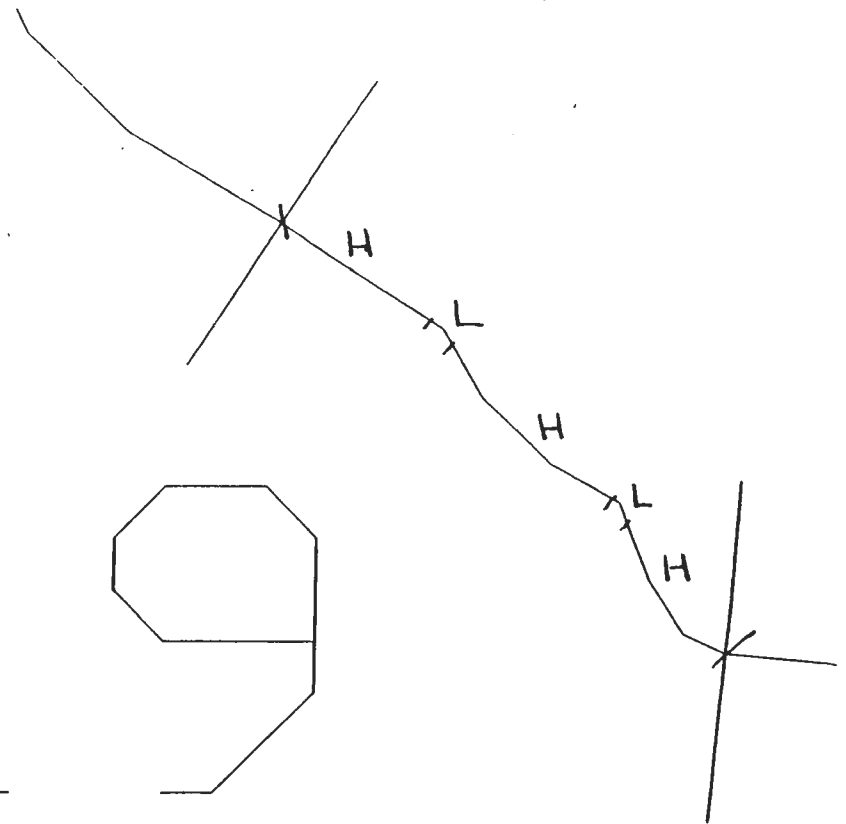
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

L A 0 1 9



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA020 DATE: 09/28/89
LOCATION: SLEEPY BAY, LATOUCHE I. TIME: 10:00

Survey Type: Boat, Ground
Team: T. Langdon, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: NE
Sea State: Calm Knots: 0-15
Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA020-1 / LA020-2 / none / none

DAMAGED OR OILED ORGANISMS

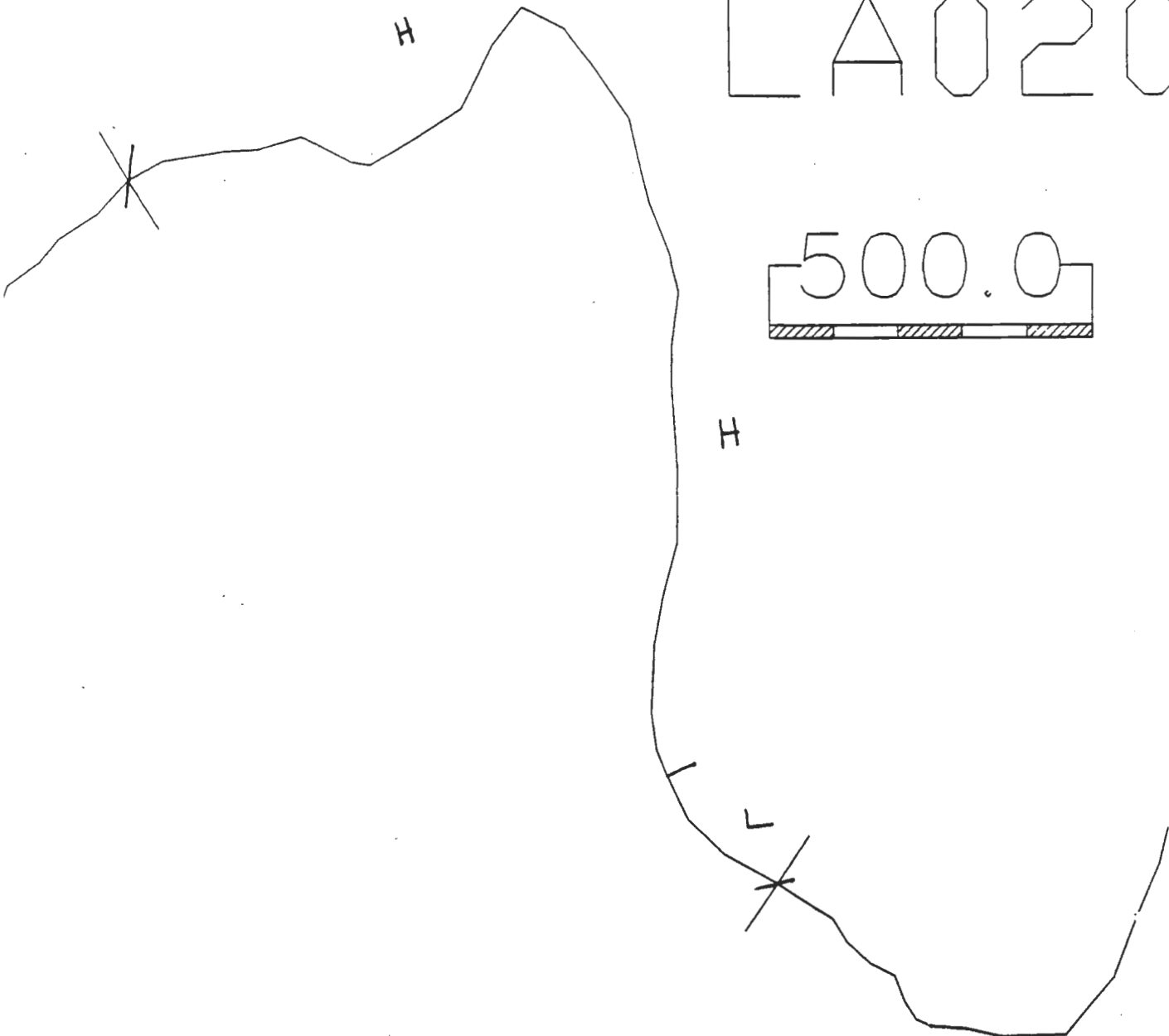
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 1

SOLID WASTE FOUND

Type: Few localities
Bags Collected: 0

LA020

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA021
LOCATION: NW LATOUCHE ISLAND

DATE: 09/28/89
TIME: 8:45

Survey Type: Boat, Ground
Team: T. Langdon, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA021-1 / LA021-2 / none / none

DAMAGED OR OILED ORGANISMS

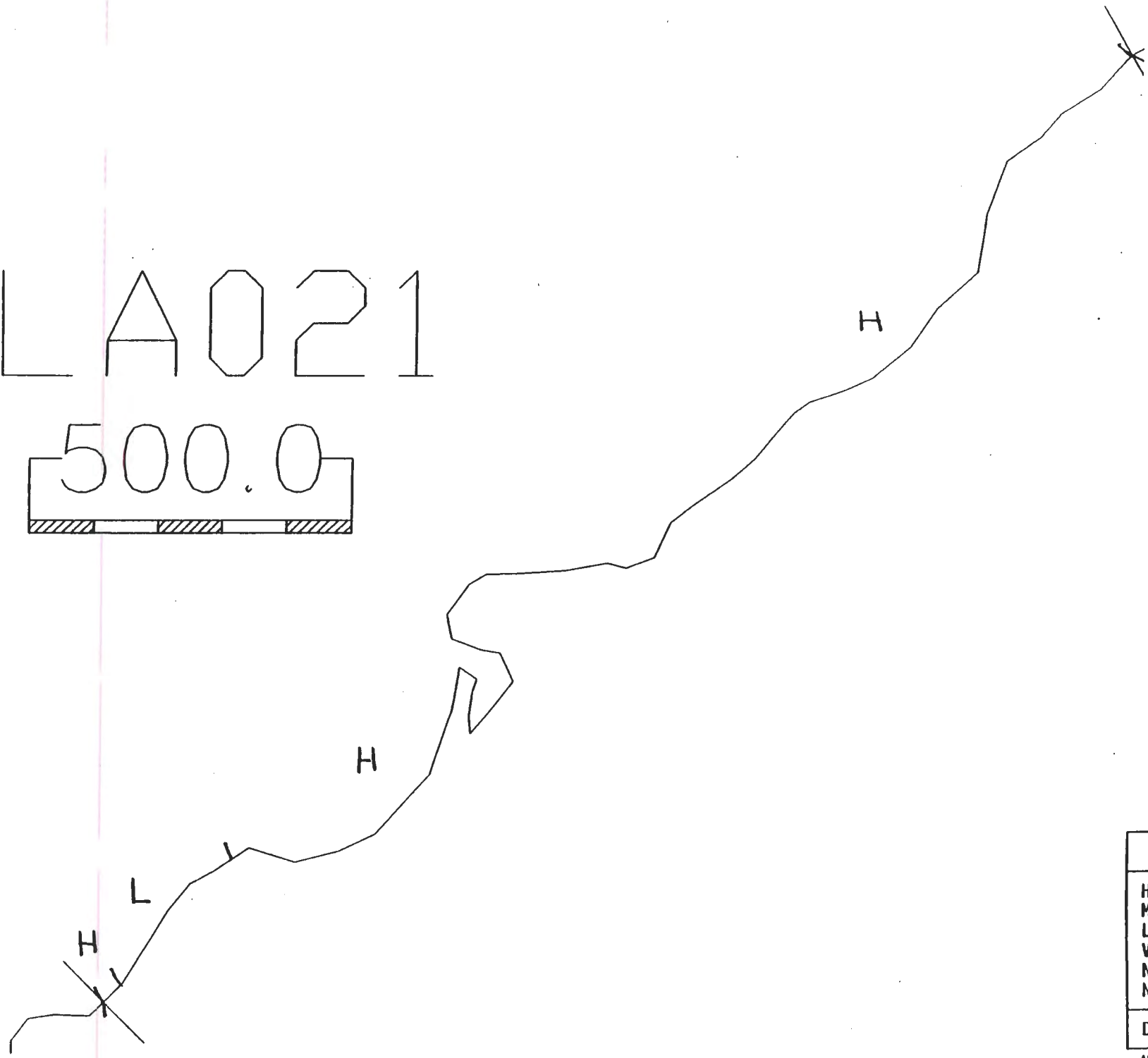
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

LA021

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA022
LOCATION: NW LATOUCHE ISLAND

DATE: 09/30/89
TIME: 18:45

Survey Type: Boat, Ground
Team: D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

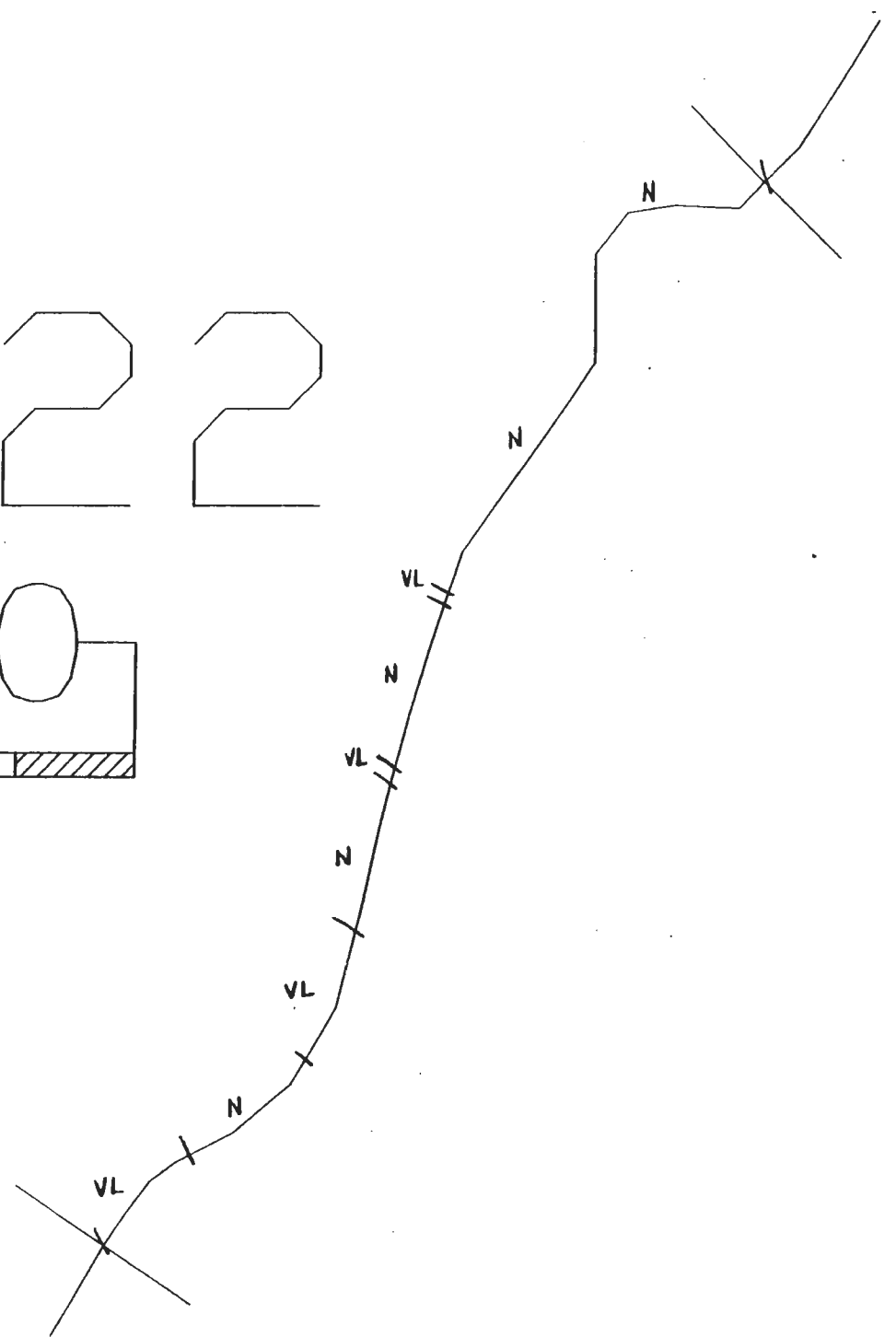
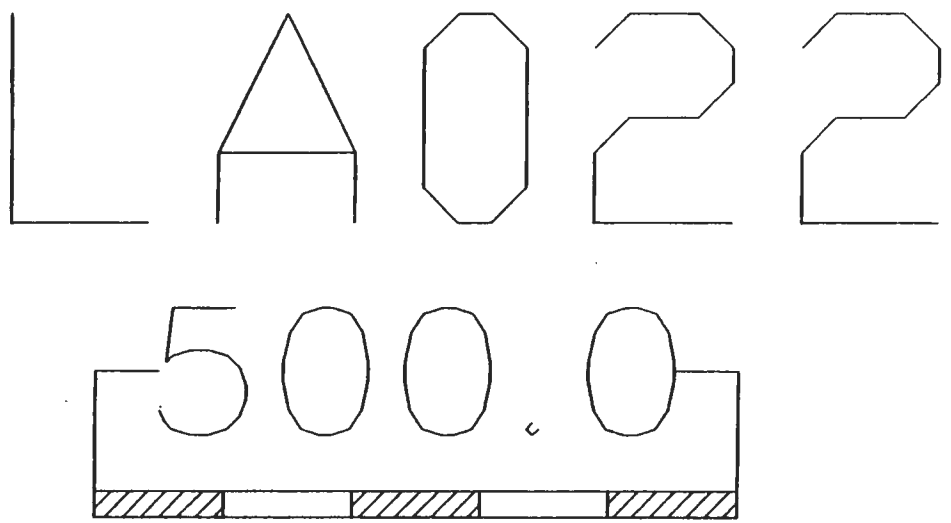
Percent Segment Categorized as Oiled: 20%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA022-1 / LA022-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA023
LOCATION: NW LATOUCHE ISLAND

DATE: 09/28/89
TIME: 19:15

Survey Type: Ground
Team: W. Ghormley, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: E
Sea State: Calm Knots: 0-15

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretupes: B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA023-1 / LA023-2 / none / none

DAMAGED OR OILED ORGANISMS

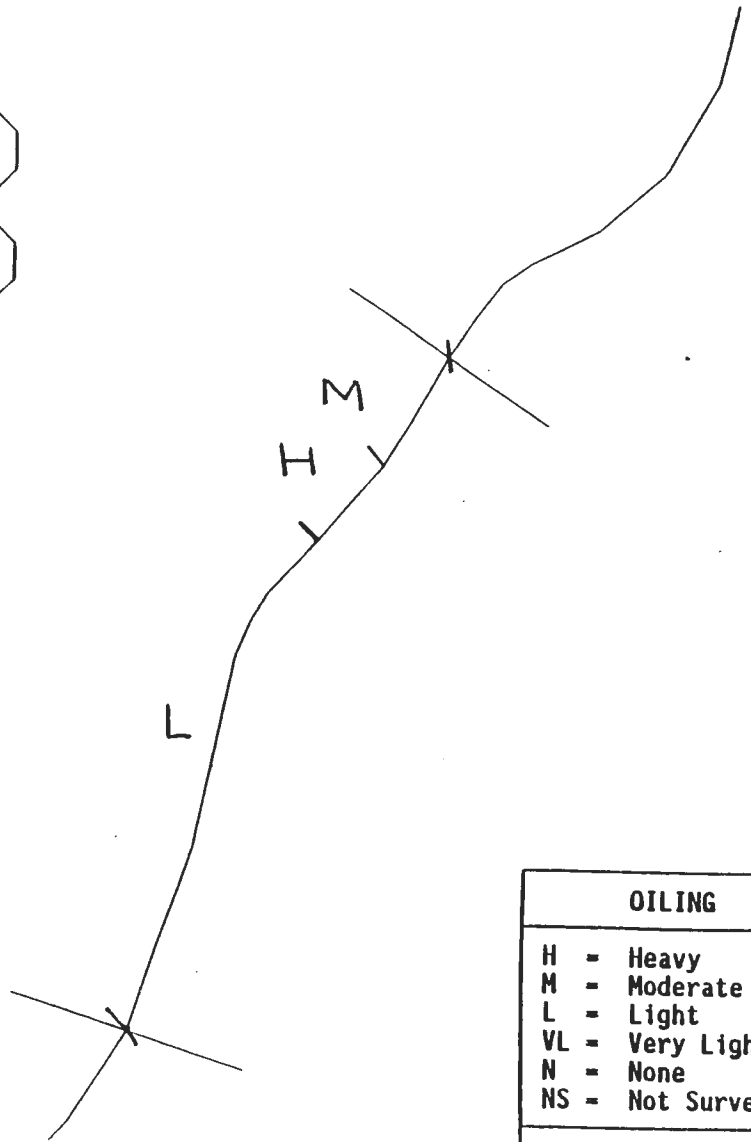
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Cleanup debris
Bags Collected: 1

L A 0 2 3

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA024
LOCATION: NW LATOUCHE ISLAND

DATE: 09/28/89
TIME: 19:00

Survey Type: Ground
Team: D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: S
Sea State: Calm Knots: 0-15

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 80%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA024-LA02 / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA025
 LOCATION: SE LATOUCHE ISLAND

DATE: 09/30/89
 TIME: 8:30

Survey Type: Boat, Ground
 Team: D. Hall, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: S
 Sea State: Moderate Knots: 0-15

Low Tide: 20:39 Feet: -0.2 High Tide: 2:18 Feet: 11.9
 Low Tide: 8:15 Feet: 0.9 High Tide: 14:22 Feet: 12.7

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

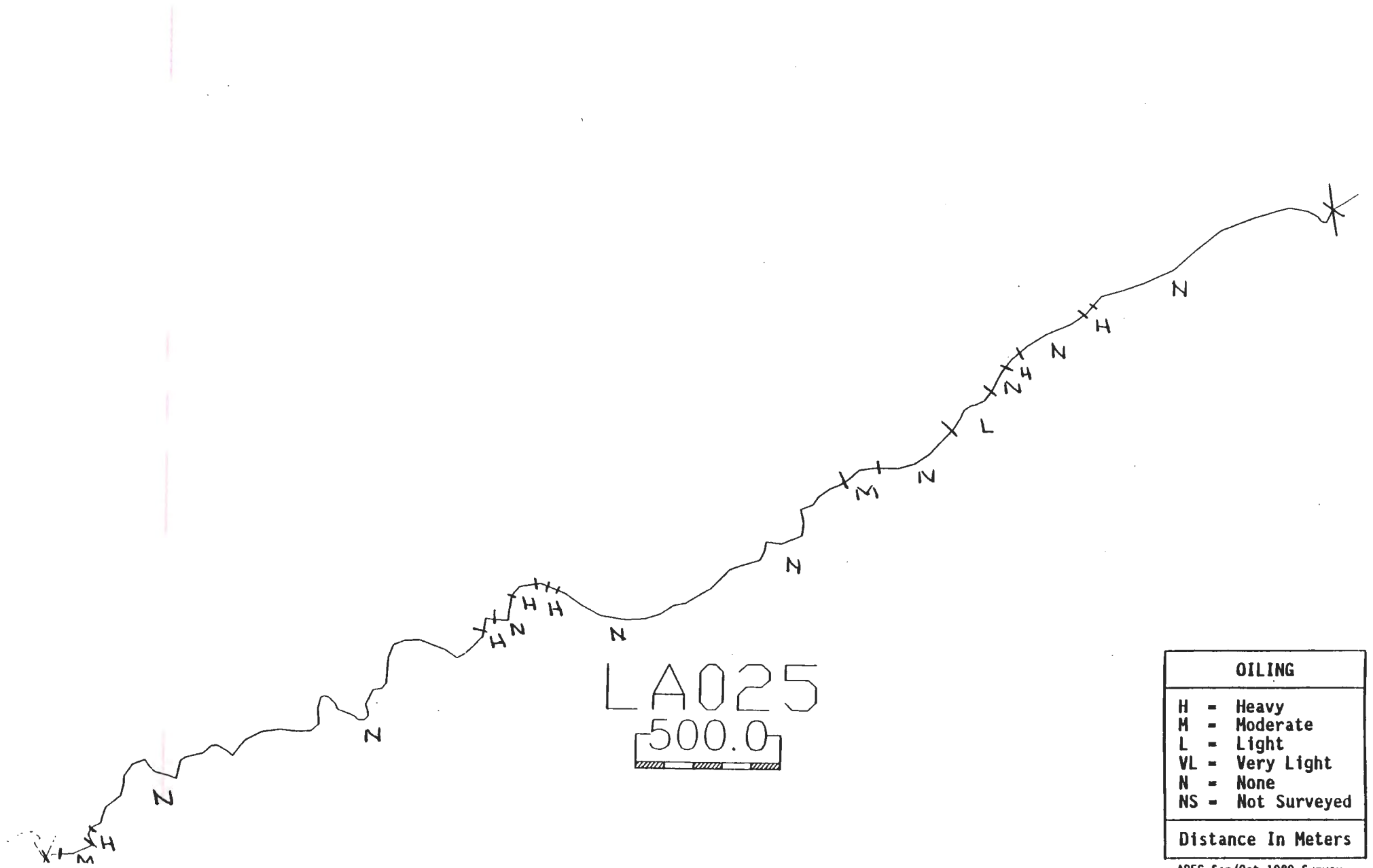
Degree of Oiling: N,VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 18 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 30%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: P,M,SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: LA025-1 / LA025-2 / LA025-3 / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
 Dead Mammals: 1 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
 Bags Collected: 1



LA025
500.0

OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA026
LOCATION: SE LATOUCHE ISLAND

DATE: 10/10/89
TIME: 16:25

Survey Type: Boat, Ground
Team: D. Zobrist, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 4:21 Feet: 2.13 High Tide: 11:02 Feet: 9.95
Low Tide: 16:44 Feet: 4.64 High Tide: 22:45 Feet: 10.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 55%
Presence of Oiled Driftwood (y/n): y
Oil Types: P,M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

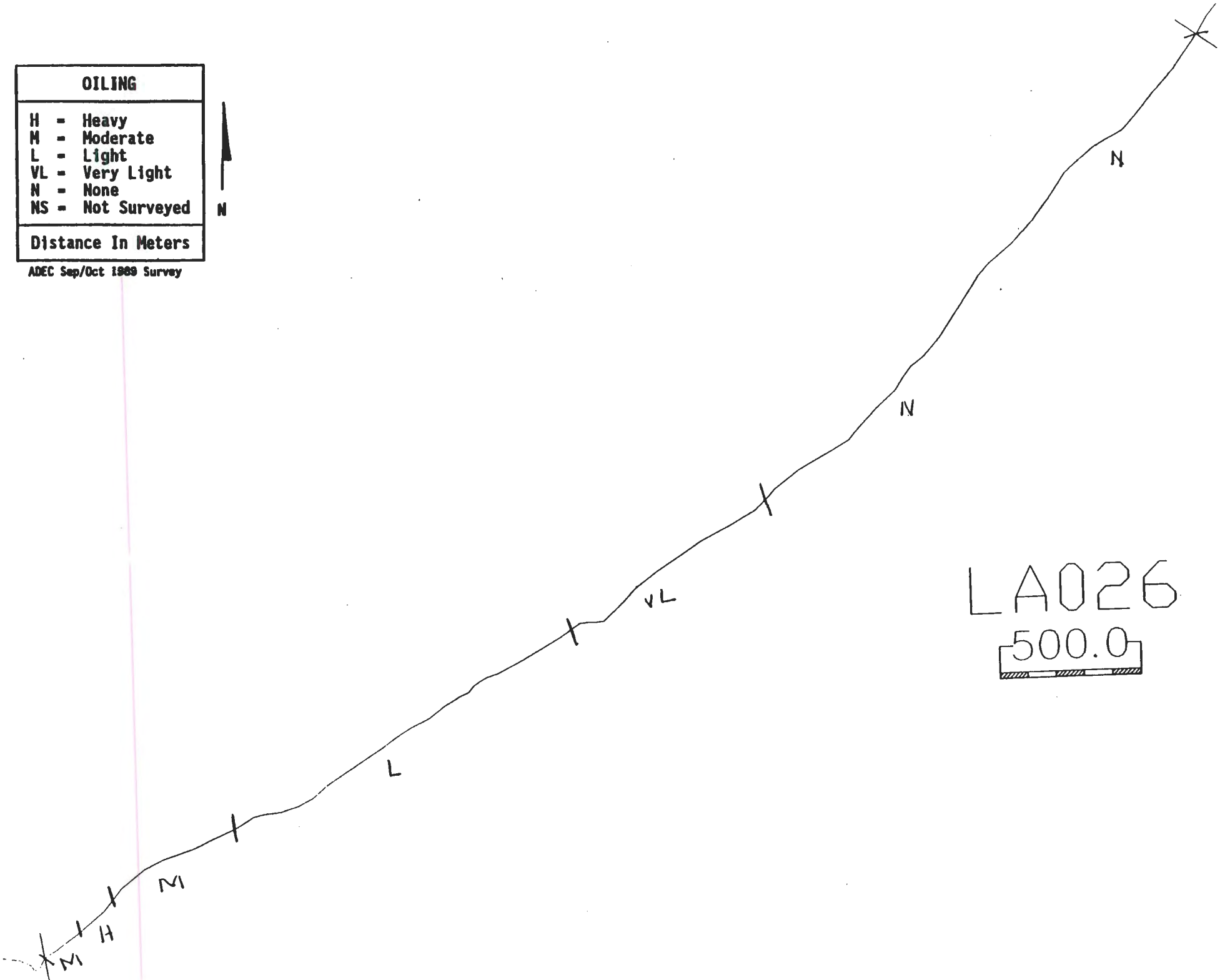
Type: One locality, boom
Bags Collected: 0

Draft

Printed: 12/12/89 11:44

OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA028
LOCATION: NE LATOUCHE ISLAND

DATE: 10/02/89
TIME: 10:00

Survey Type: Ground
Team: W. Ghormley, P. Montesano, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Rough Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretupes: B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

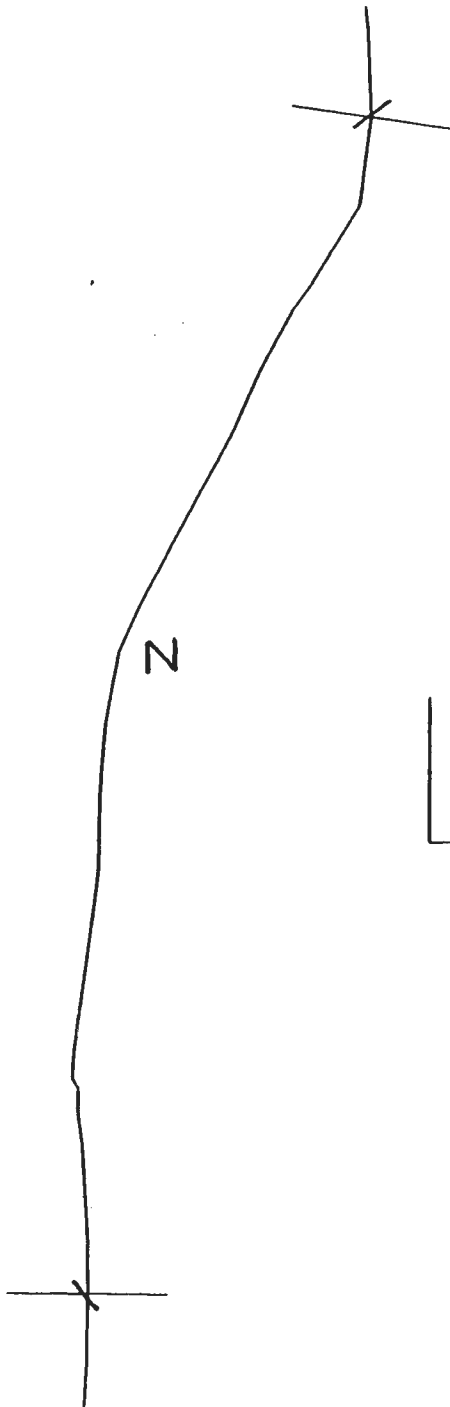
Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: None
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



LA028

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA029
LOCATION: NE LATOUCHE ISLAND

DATE: 10/02/89
TIME: 9:30

Survey Type: Ground
Team: W. Ghormley, P. Montesano, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Rough Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

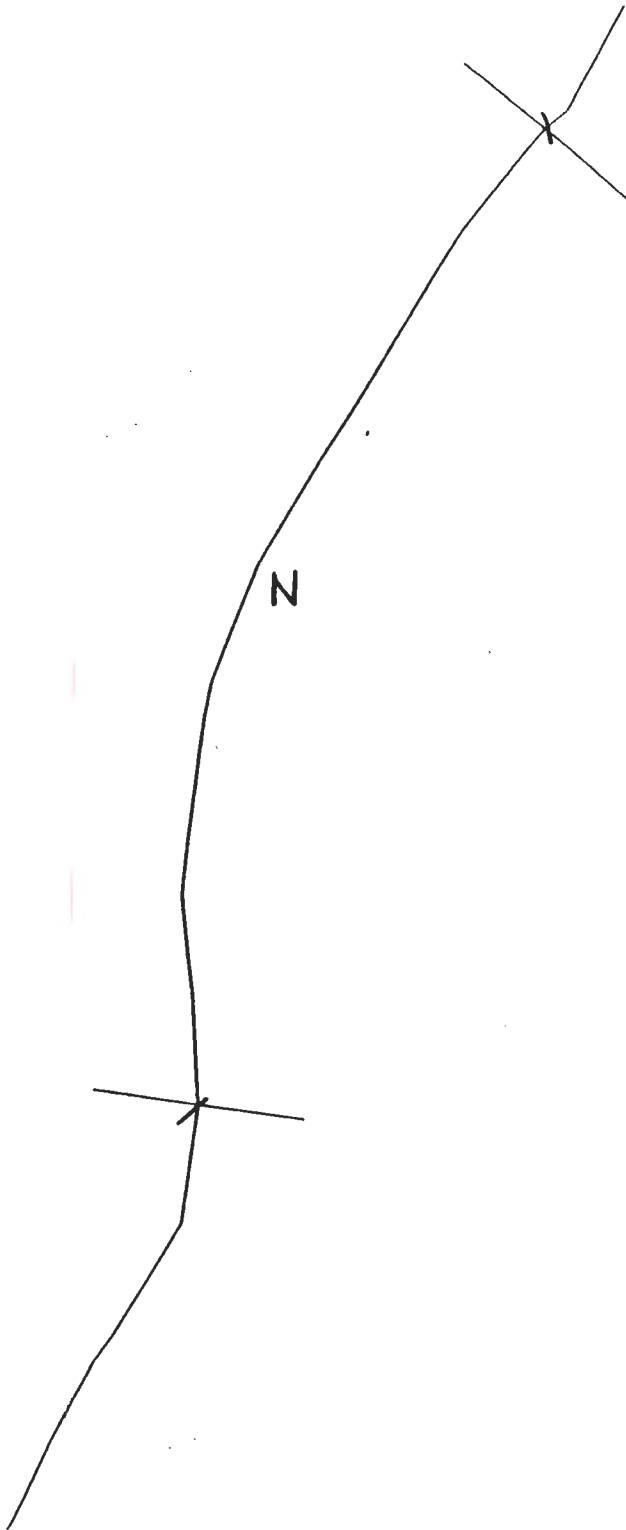
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:44



LA029

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA030
 LOCATION: NE LATOUCHE ISLAND

DATE: 10/02/89
 TIME: 8:45

Survey Type: Ground
 Team: W. Ghormley, P. Montesano, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
 Sea State: Rough Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
 Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H (H=high, M=moderate, L=low)
 Shoreline Composition: B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

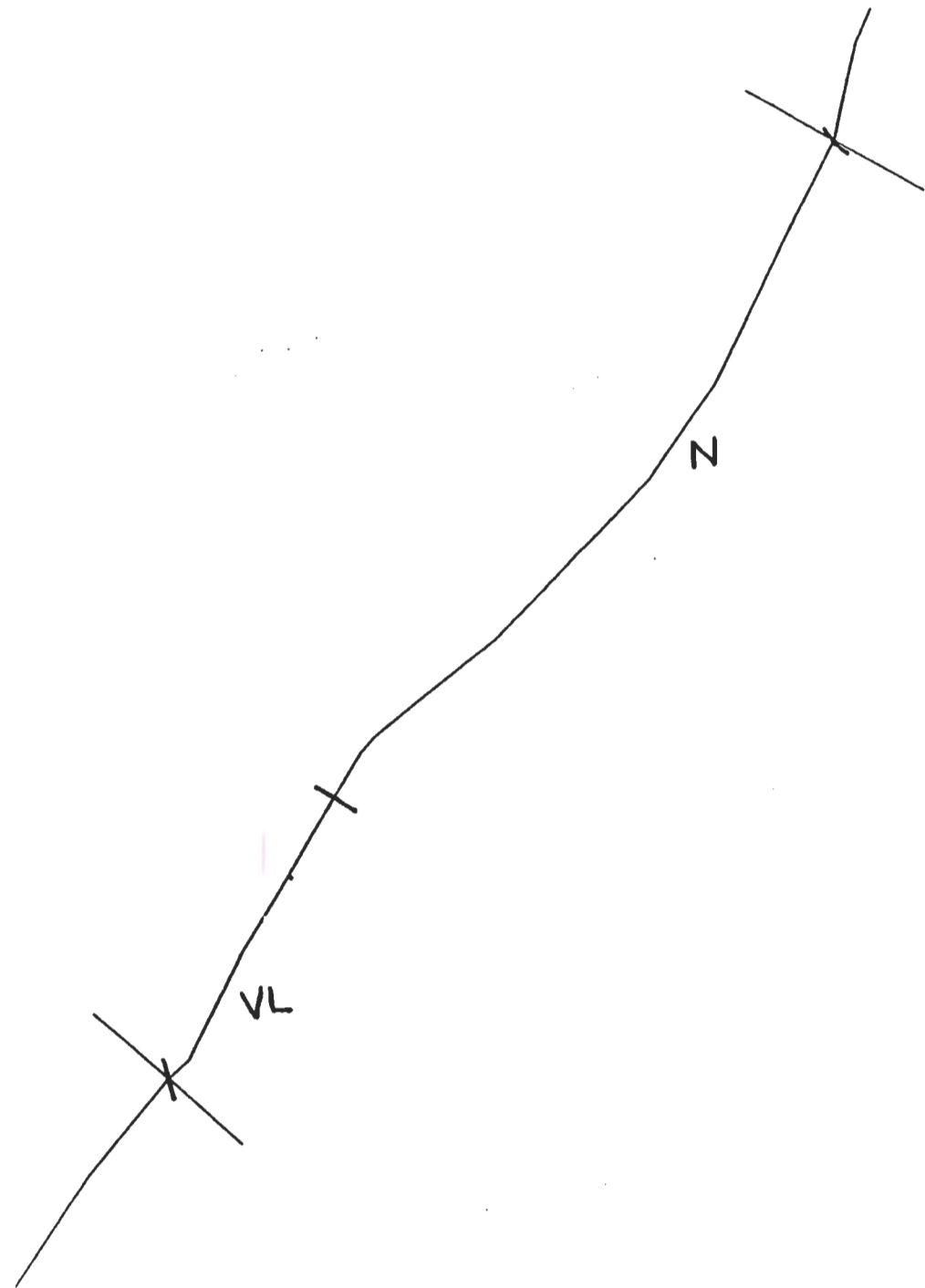
Degree of Oiling: N,VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 15 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 10%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: SY,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, boom
 Bags Collected: 0



LA030

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA031
LOCATION: NE LATOUCHE ISLAND

DATE: 10/02/89
TIME: 9:15

Survey Type: Boat, Ground
Team: D. Hall, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 40 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: M,SY,T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: LA031-1 / LA031-2 / none / none

DAMAGED OR OILED ORGANISMS

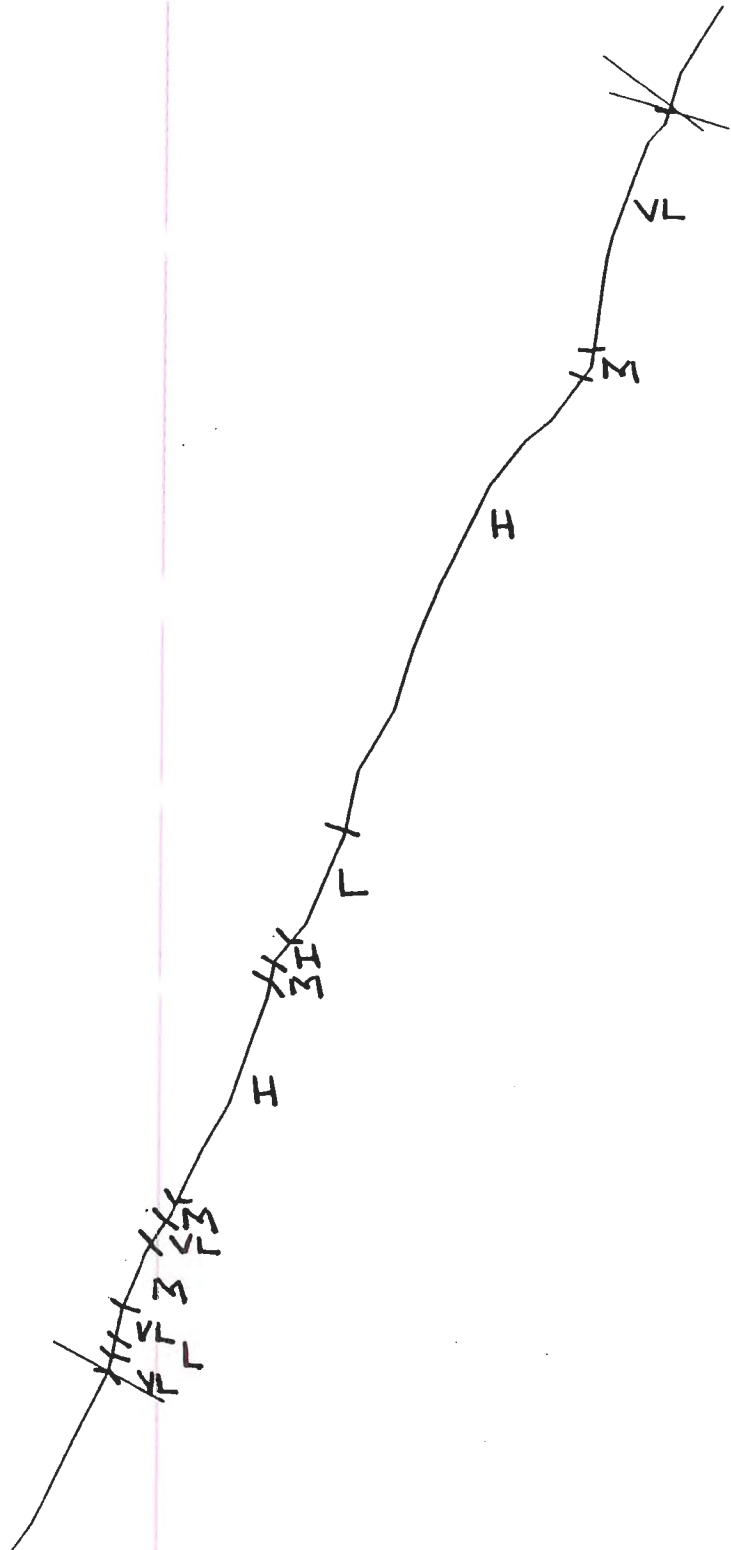
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom
Bags Collected: 0

Draft

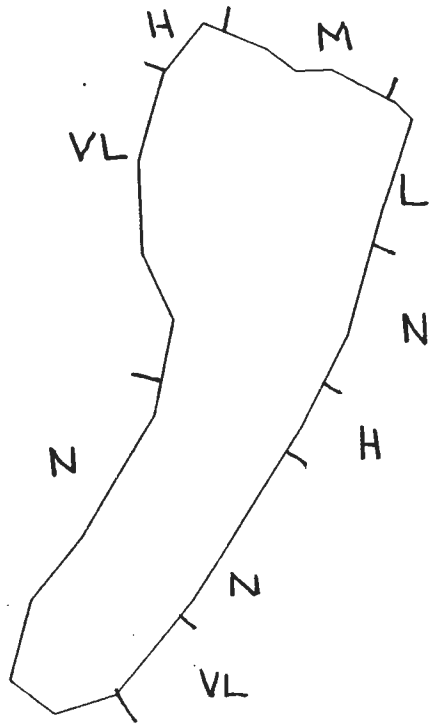
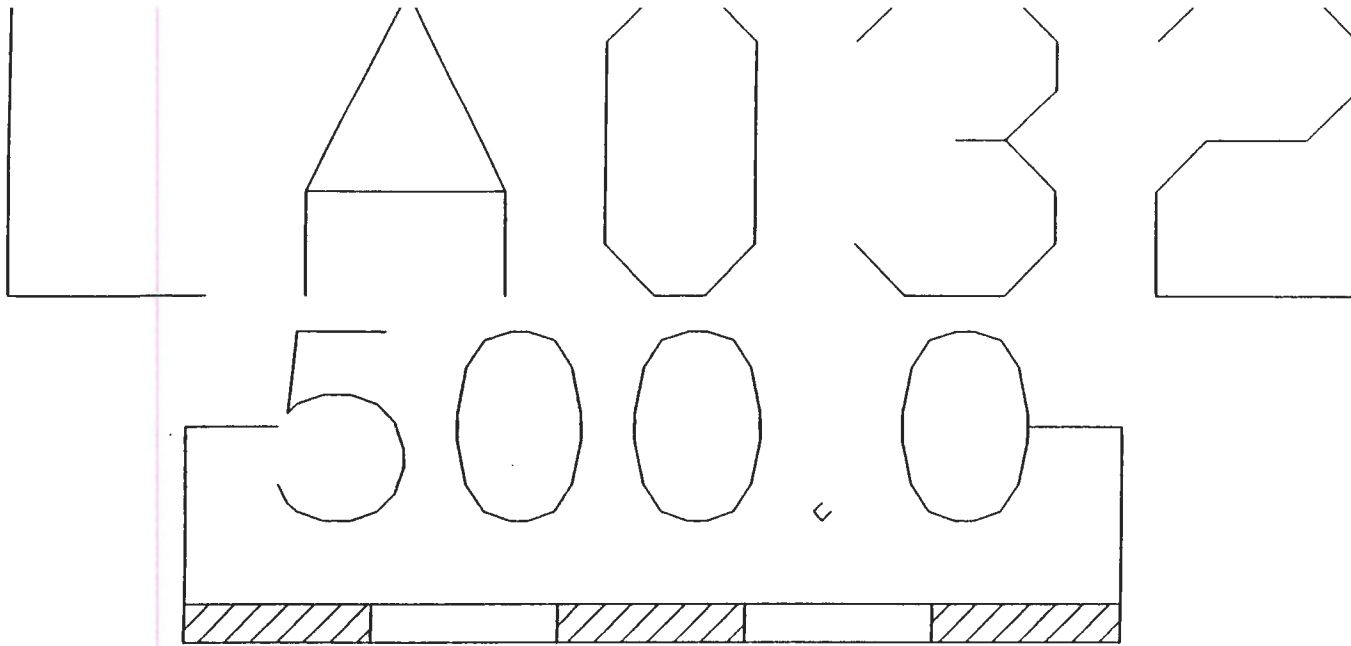
Printed: 12/12/89 11:44



LA031
 500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	





OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA033 DATE: 09/25/89
LOCATION: ISLAND OFF W LATOUCHE I. TIME: 15:00

Survey Type: Ground
Team: W. Ghormley, J. Hayes

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 17:38 Feet: 4.32 High Tide: 23:34 Feet: 11.3
Low Tide: 5:19 Feet: 1.65 High Tide: 11:54 Feet: 10.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

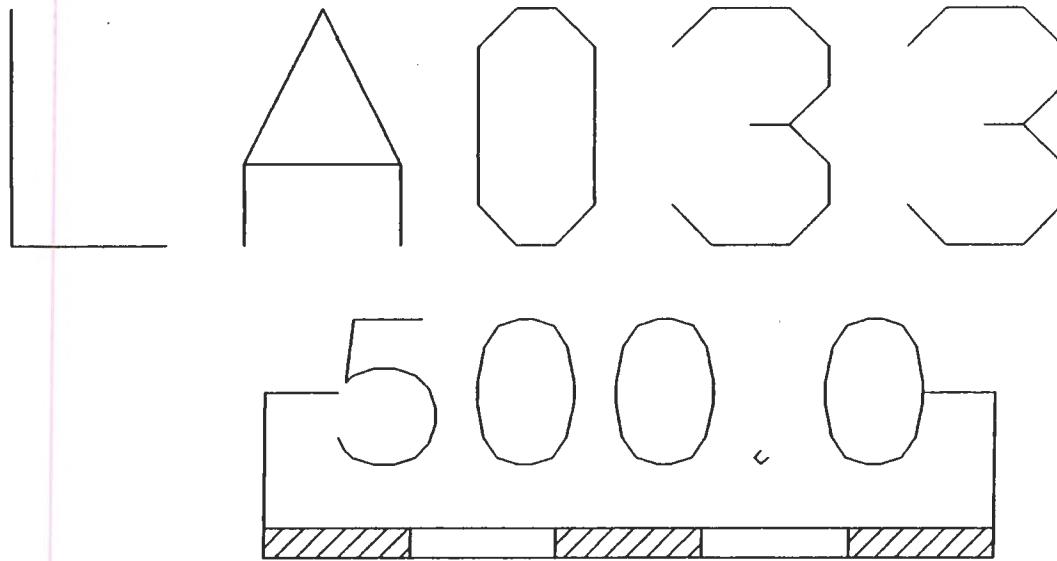
Samples: LA033-1 / LA033-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

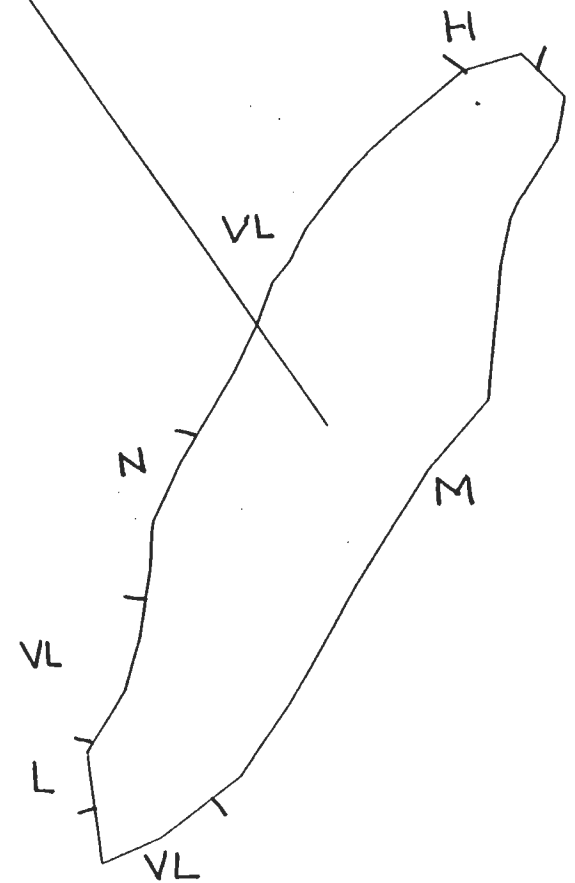
Type: Boom, paint marks
Bags Collected: 2



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA034
LOCATION: NW LATOUCHE ISLAND

DATE: 09/29/89
TIME: 19:15

Survey Type: Ground
Team: W. Ghormley, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: N
Sea State: Moderate Knots: 0-15

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: H,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 1 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

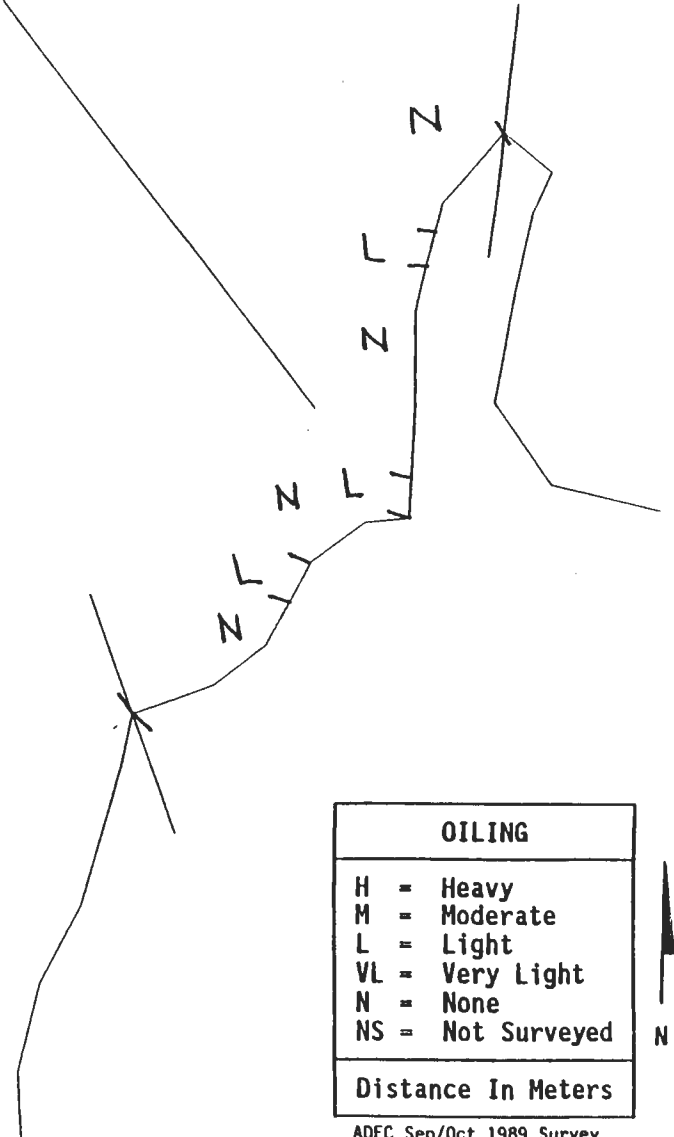
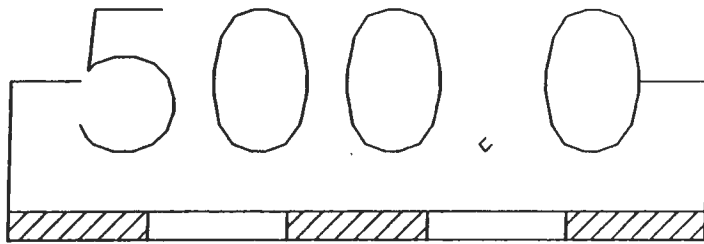
SOLID WASTE FOUND

Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:45

LA034



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA035
LOCATION: NW LATOUCHE ISLAND

DATE: 09/28/89
TIME: 19:30

Survey Type: Boat, Ground
Team: T. Langdon, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

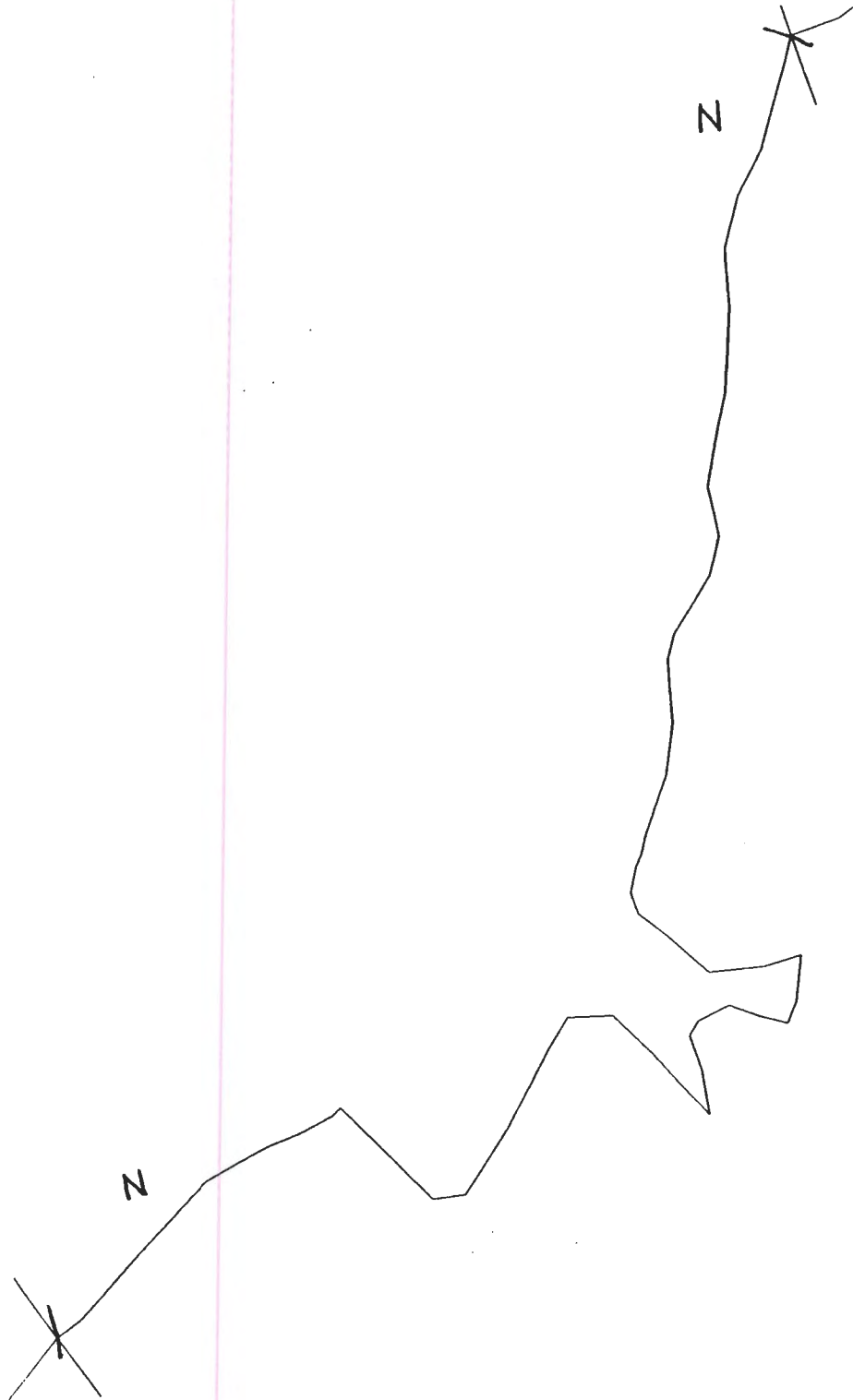
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): y
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

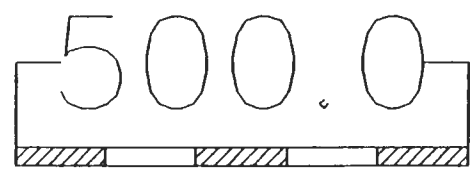
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



LA035



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA036
 LOCATION: NW LATOUCHE ISLAND

DATE: 09/25/89
 TIME: 18:47

Survey Type: Boat, Ground
 Team: T. Langdon, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy	Wind Direction: variable
Sea State: Calm	Knots: 0-15
Low Tide: 17:38 Feet: 4.32	High Tide: 23:34 Feet: 11.3
Low Tide: 5:19 Feet: 1.65	High Tide: 11:54 Feet: 10.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M,L
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 42 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%

Presence of Oiled Driftwood (y/n): n

Oil Types: P,M,SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: LA036-1 / LA036-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One Locality, boom
 Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA037
LOCATION: SW LATOUCHE ISLAND

DATE: 09/25/89
TIME: 17:10

Survey Type: Boat, Ground
Team: T. Langdon, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 17:38 Feet: 4.32 High Tide: 23:34 Feet: 11.3
Low Tide: 5:19 Feet: 1.65 High Tide: 11:54 Feet: 10.5

SHORELINE DESCRIPTION

Shoretypes: B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

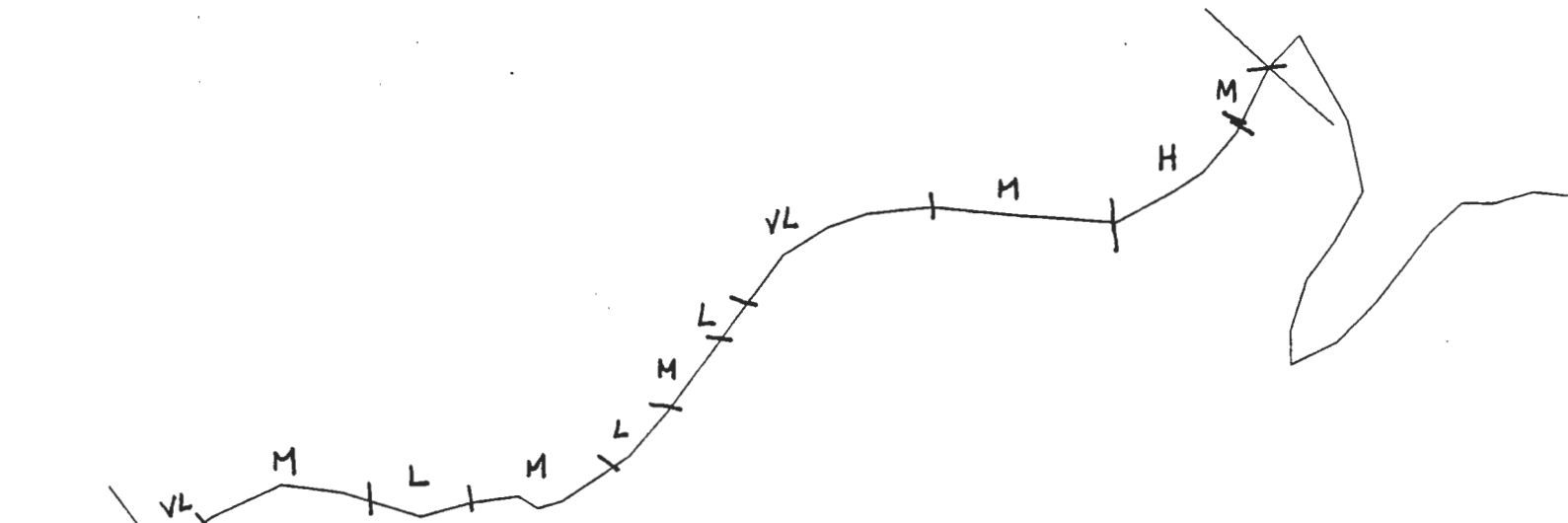
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA037-1 / LA037-2 / none / none

DAMAGED OR OILED ORGANISMS

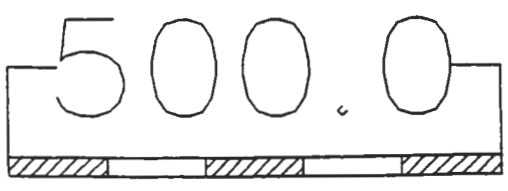
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



LA037



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA038
 LOCATION: SW LATOUCHE ISLAND

DATE: 09/28/89
 TIME: 18:34

Survey Type: Boat, Ground
 Team: T. Langdon, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
 Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: B,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
 (N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

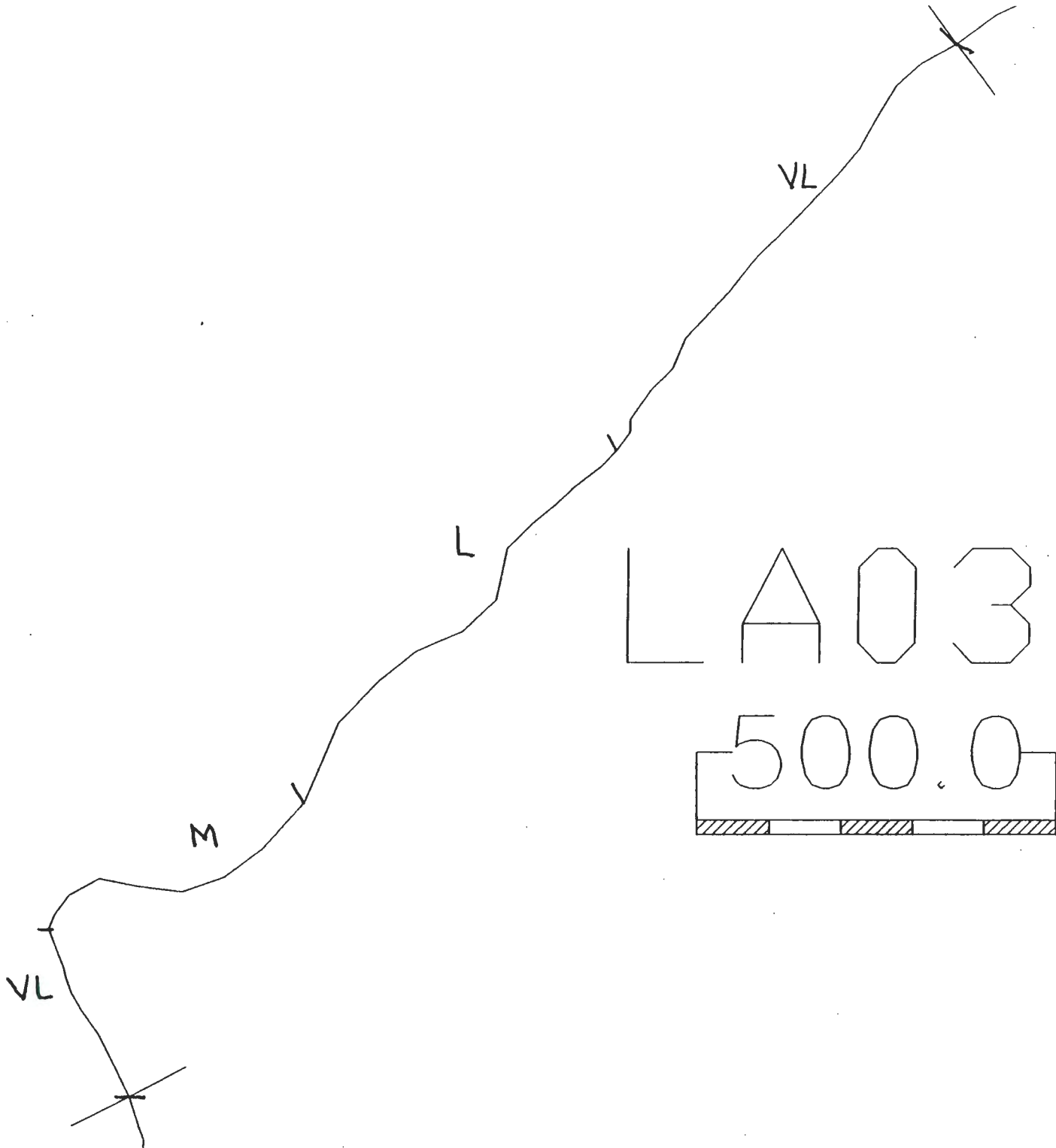
Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: M,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: LA038-1 / LA038-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



LA038

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA039
LOCATION: SW LATOUCHE ISLAND

DATE: 09/29/89
TIME: 8:15

Survey Type: Boat, Ground
Team: D. Hall, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: variable
Sea State: Calm Knots: 0-15

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

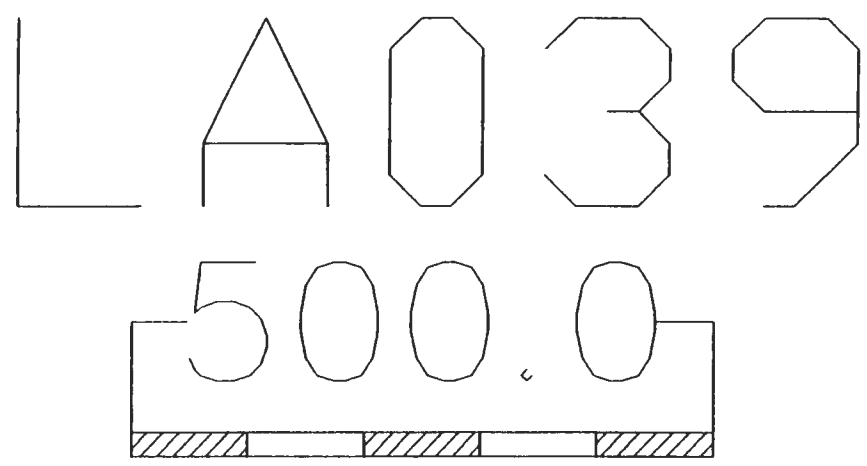
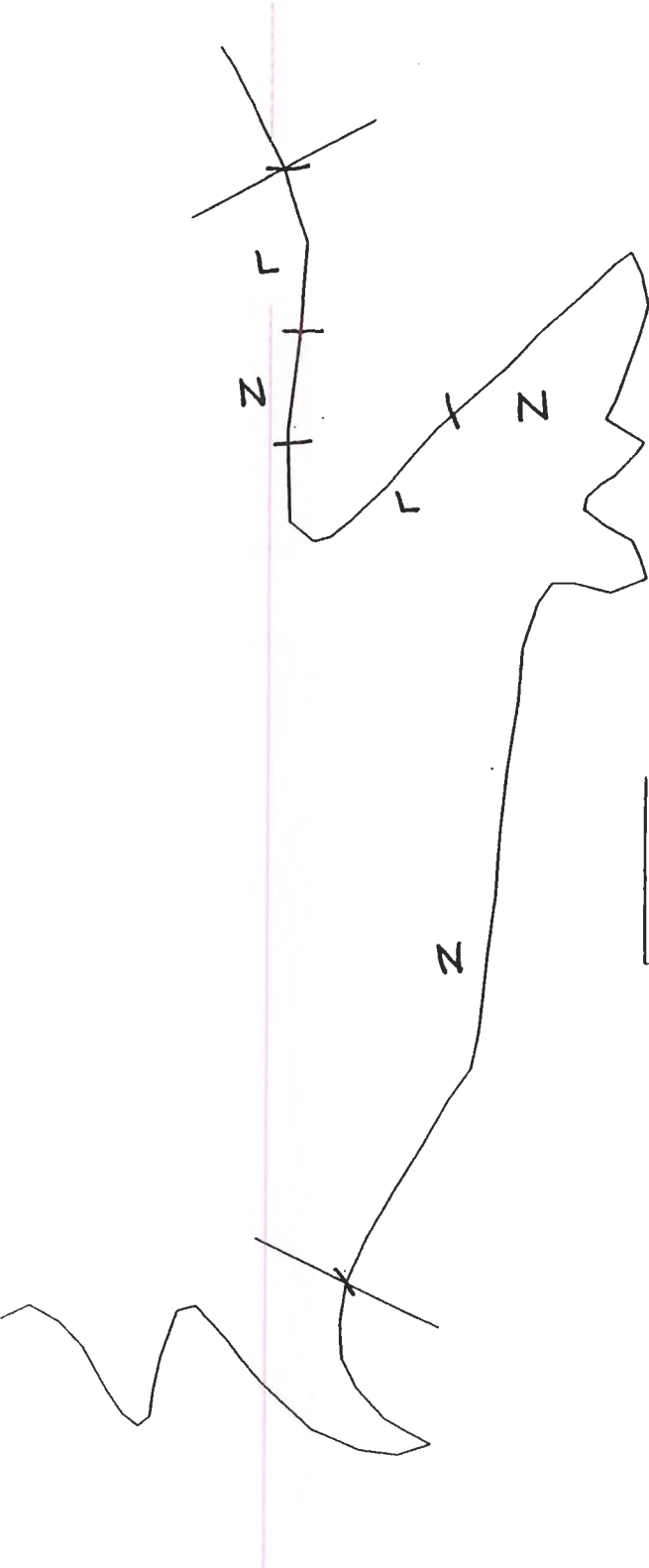
Degree of Oiling: N,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 25%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LA039-1 / LA039-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA040
 LOCATION: SW LATOUCHE ISLAND

DATE: 09/26/89
 TIME: 17:30

Survey Type: Boat, Ground
 Team: C. Strand, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy	Wind Direction: 0
Sea State: Calm	Knots: 0
Low Tide: 18:24 Feet: 3.01	High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1	High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%

Presence of Oiled Driftwood (y/n): n

Oil Types: T
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: LA040-1 / LA040-2 / none / none

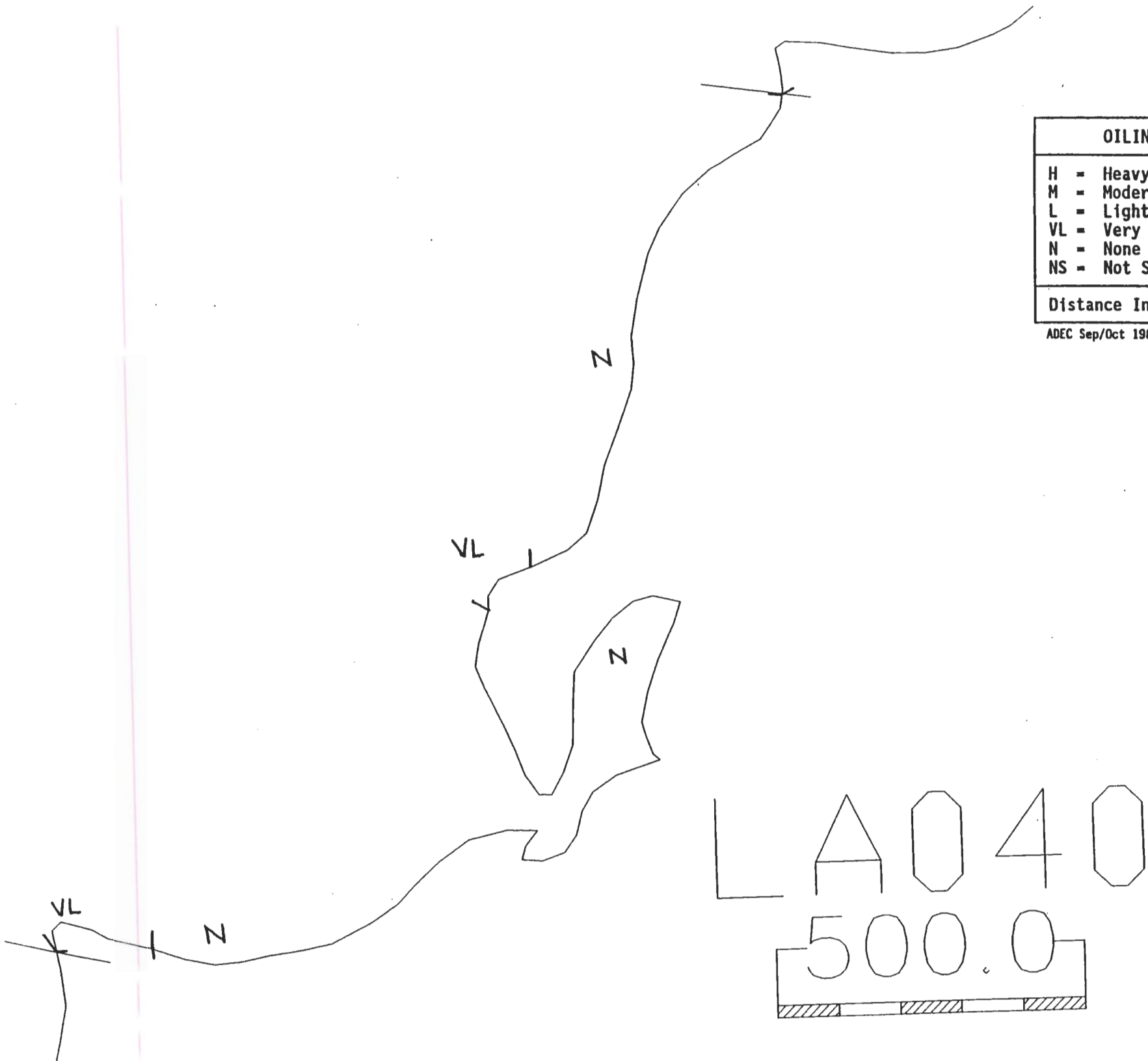
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA041
LOCATION: SW LATOUCHE ISLAND

DATE: 09/26/89
TIME: 16:44

Survey Type: Boat, Ground
Team: T. Langdon, P. Montesano, C. Strand, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: M
Sea State: Moderate Knots: 0-15

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

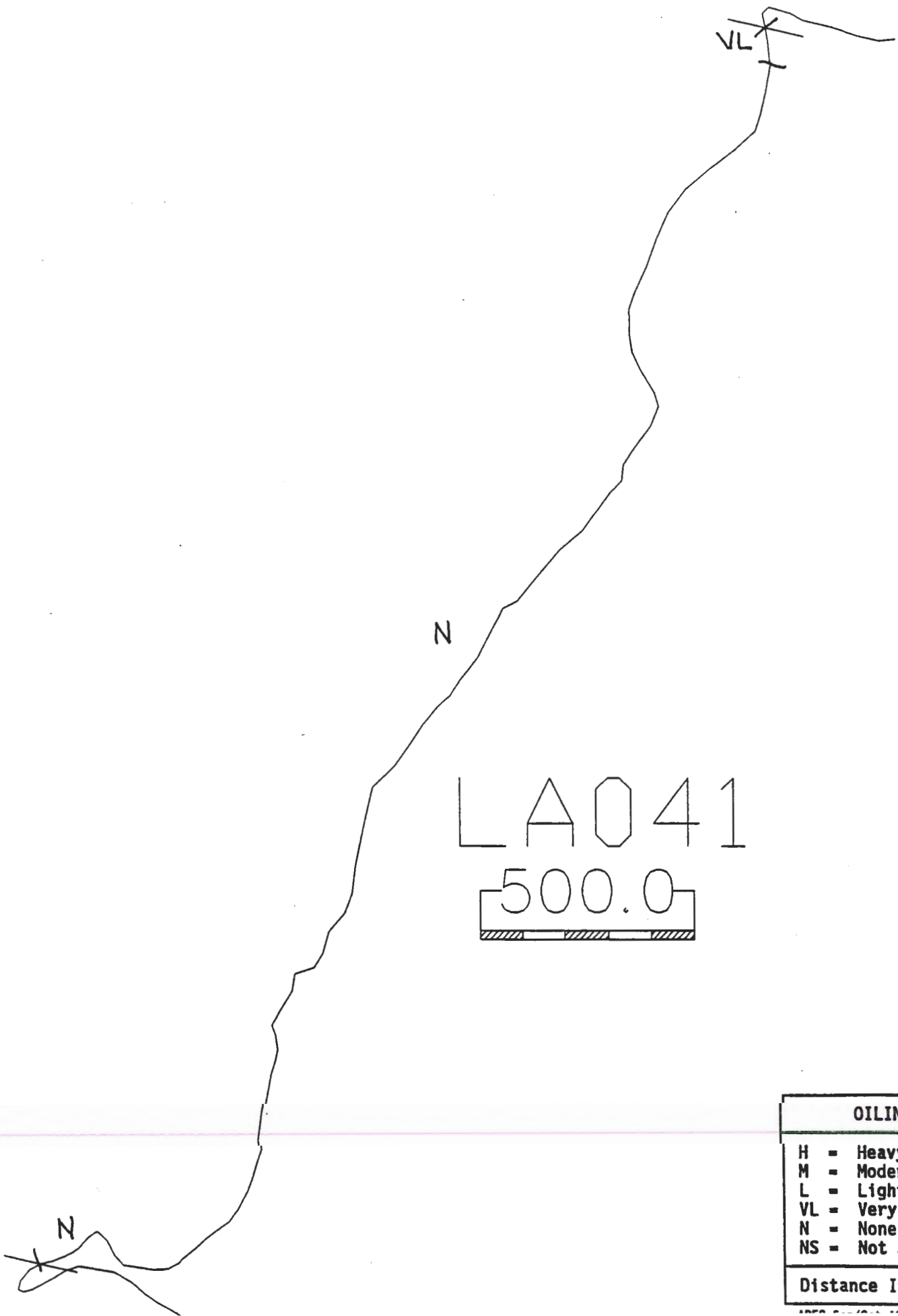
Percent Segment Categorized as Oiled: 3%
Presence of Oiled Driftwood (y/n): y
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



LA041
500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA042
LOCATION: S LATOUCHE ISLAND

DATE: 09/25/89
TIME: 16:30

Survey Type: Ground
Team: W. Ghormley, J. Hayes, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Rough

Wind Direction: SE
Knots: 0-15

Low Tide: 17:38 Feet: 4.32 High Tide: 23:34 Feet: 11.3
Low Tide: 5:19 Feet: 1.65 High Tide: 11:54 Feet: 10.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Garbage
Bags Collected: 1

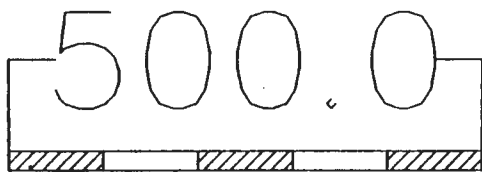


OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

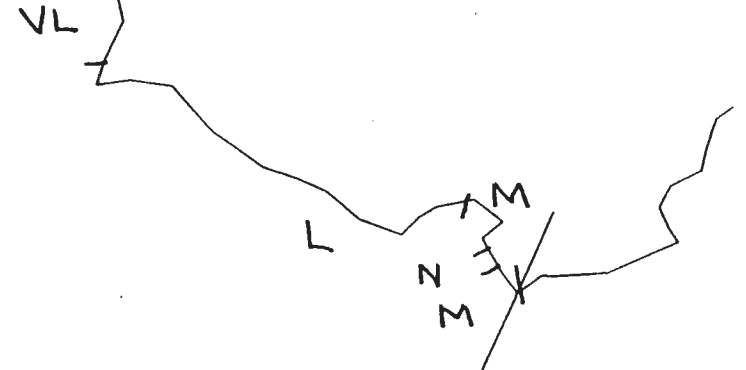
Distance In Meters



ADEC Sep/Oct 1989 Survey



LA042



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LA500
LOCATION: SW LATOUCHE ISLAND

DATE: 09/29/89
TIME: 18:30

Survey Type: Boat, Ground
Team: D. Hall, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: N
Sea State: Calm Knots: 0-15

Low Tide: 20:07 Feet: 0.18 High Tide: 1:44 Feet: 11.9
Low Tide: 7:46 Feet: 0.58 High Tide: 13:58 Feet: 12.5

SHORELINE DESCRIPTION

Shoretypes: B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

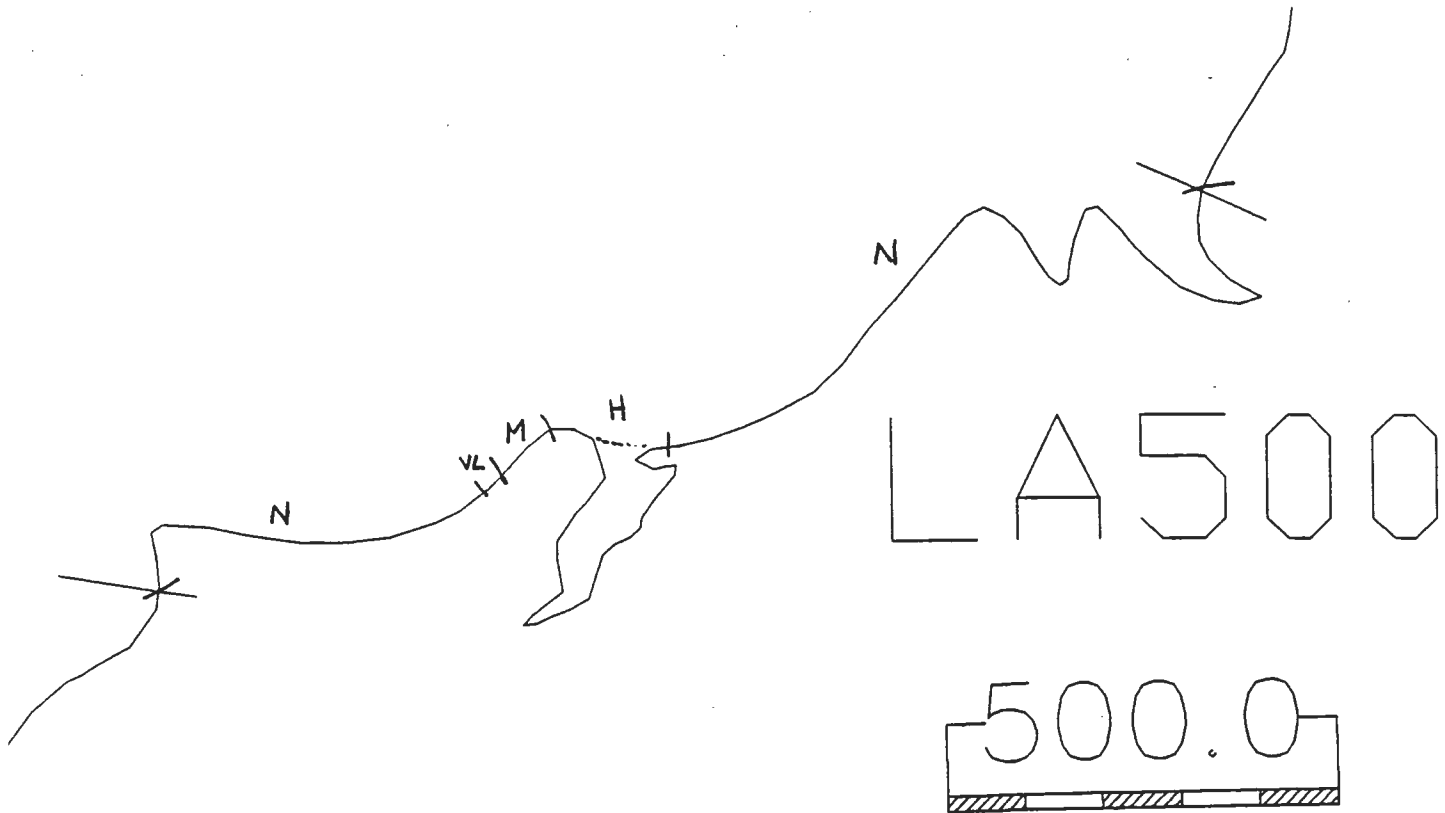
Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



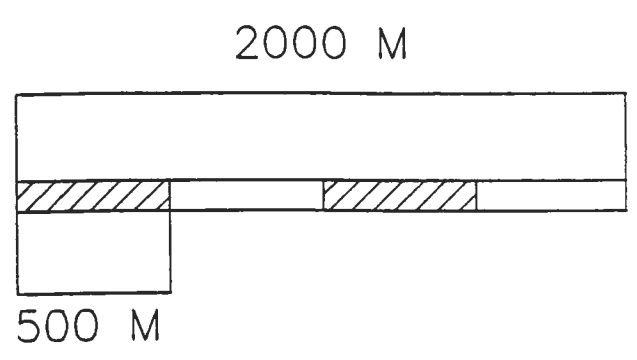
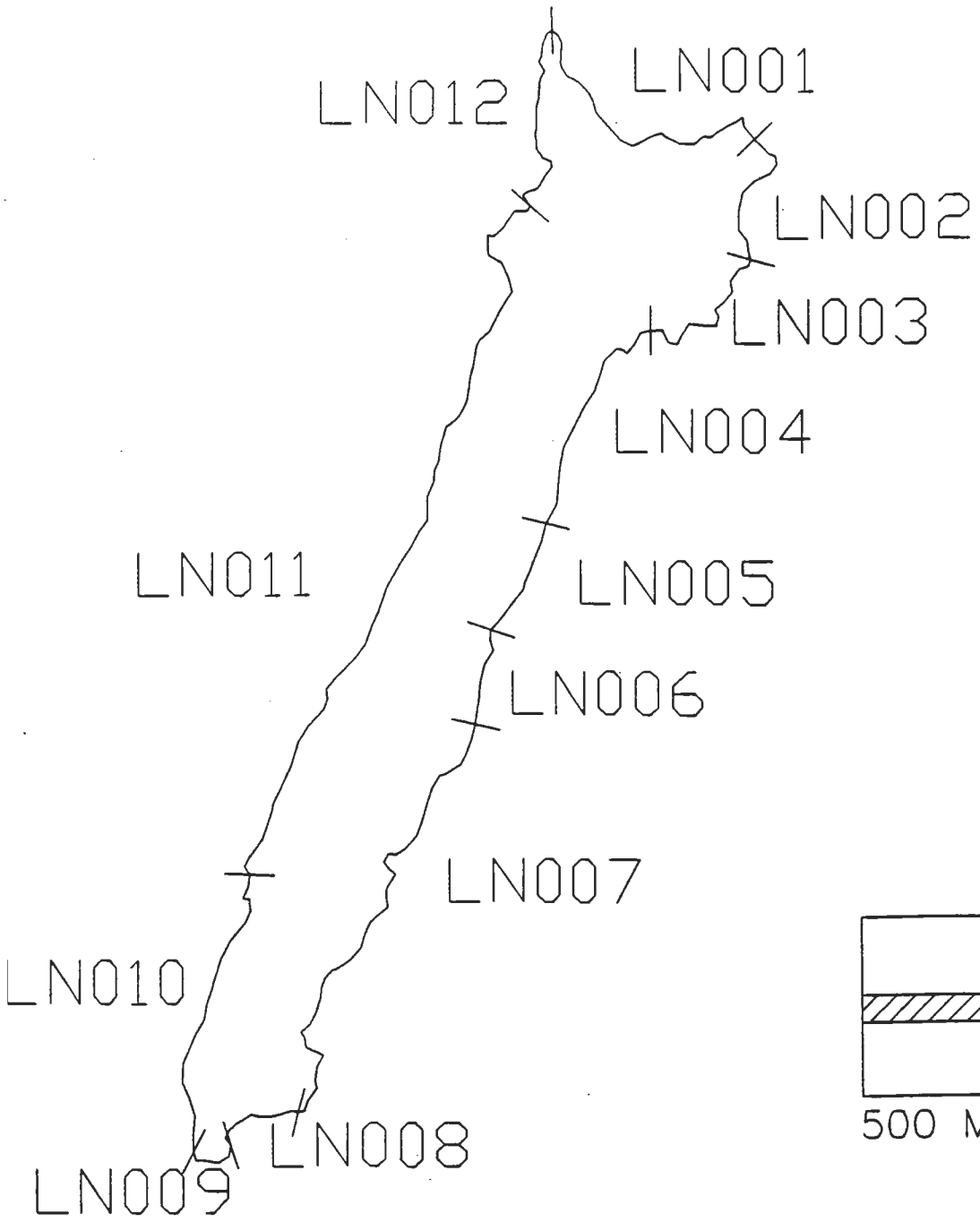
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



SECTION CONTENTS — LONE ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
LN001	N LONE ISLAND
LN002	NE LONE ISLAND
LN003	NE LONE ISLAND
LN004	E LONE ISLAND
LN005	E LONE ISLAND
LN006	E LONE ISLAND
LN007	SE LONE ISLAND
LN008	S LONE ISLAND
LN009	S LONE ISLAND
LN010	SW LONE ISLAND
LN012	NW LONE ISLAND

Printed: 12/12/89



Lone Island

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN001
LOCATION: N LONE ISLAND

DATE: 09/14/89
TIME: 8:10

Survey Type: Boat, Ground
Team: E. Gundlach, M. Mangiaracina, C. Pavia, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NE
Sea State: Rough Knots: 16-30

Low Tide: 7:16 Feet: -1. High Tide: 13:35 Feet: 12.2
Low Tide: 19:29 Feet: 0.48 High Tide: 0:50 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 85%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LN001-1 / LN001-2 / none / none

DAMAGED OR OILED ORGANISMS

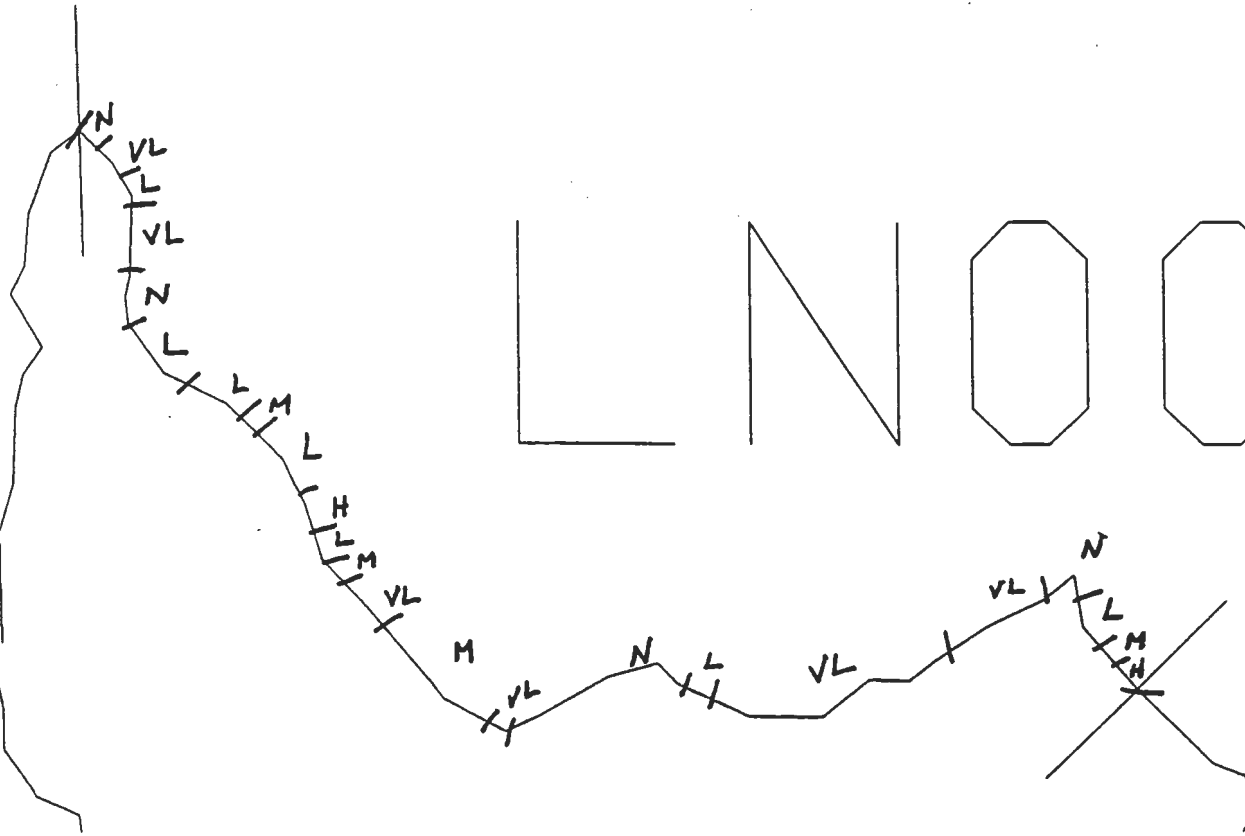
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

500.0

LN0001



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN002
LOCATION: NE LONE ISLAND

DATE: 09/14/89
TIME: 10:10

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Rough

Wind Direction: NE
Knots: 16-30

Low Tide: 7:16 Feet: -1. High Tide: 13:35 Feet: 12.2
Low Tide: 19:29 Feet: 0.48 High Tide: 0:50 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

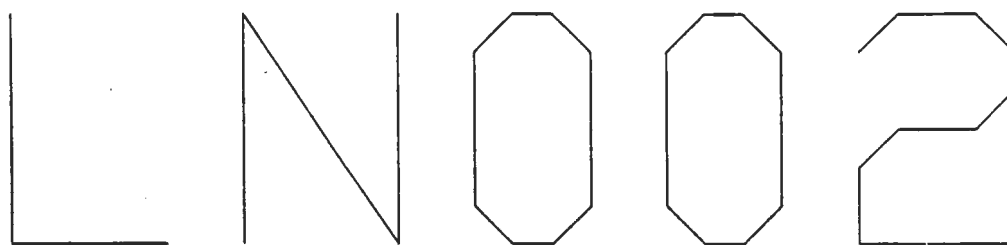
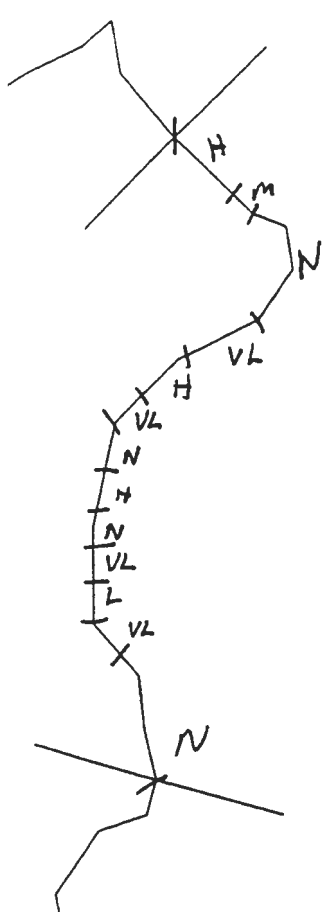
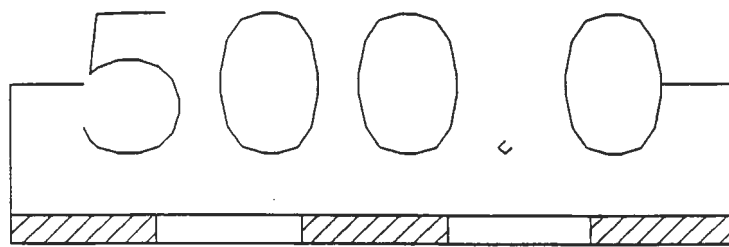
DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN003
 LOCATION: NE LONE ISLAND

DATE: 09/12/89
 TIME: 10:45

Survey Type: Boat
 Team: E. Gundlach, C. Pavia, G. Winter, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
 Sea State: Rough Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
 Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
 Shoreline Composition: R,B
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

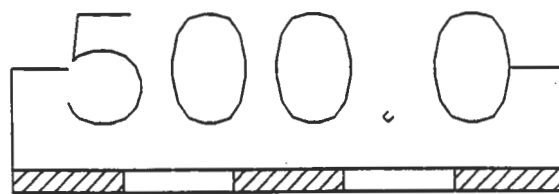
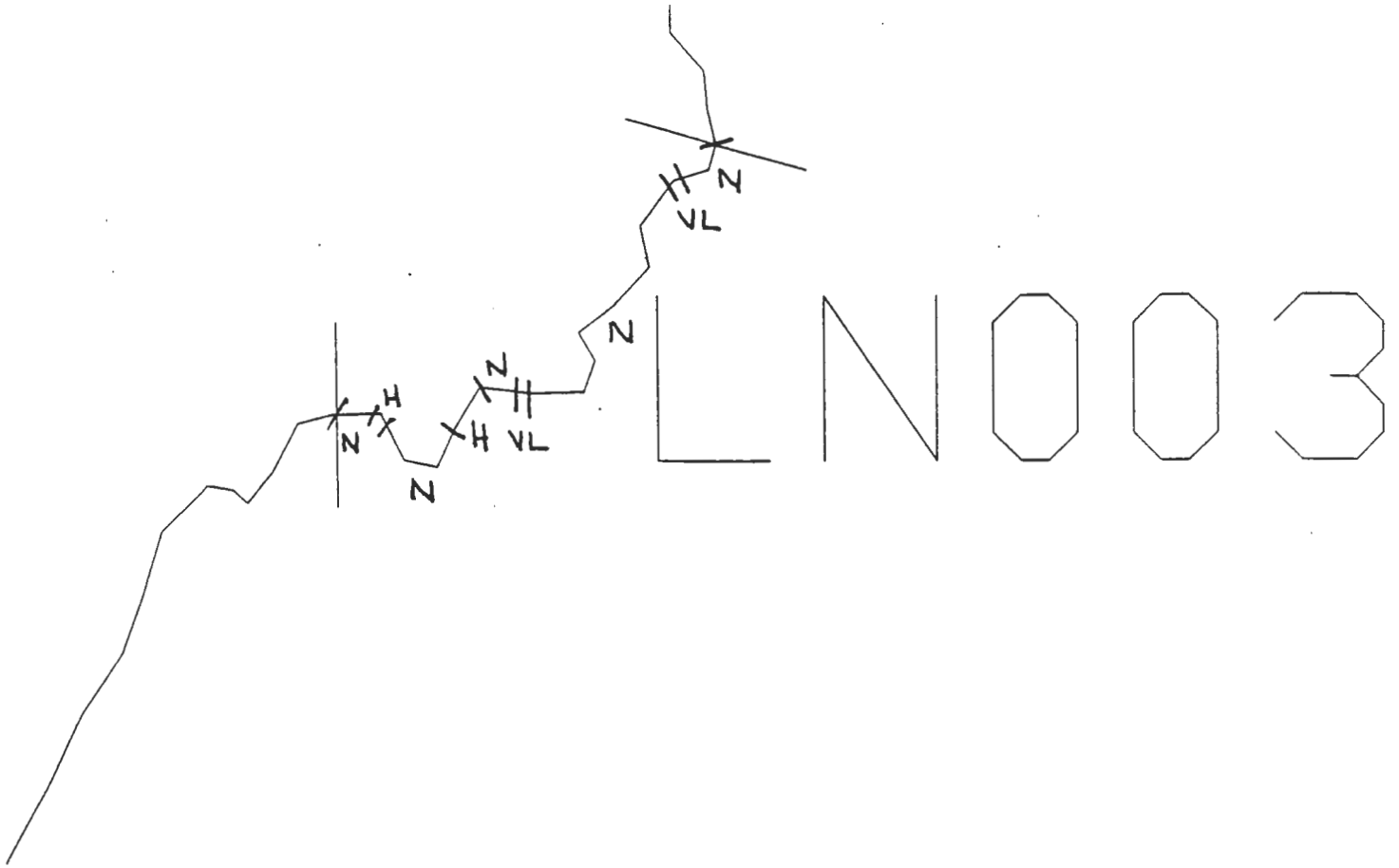
Percent Segment Categorized as Oiled: 10%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,T
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN004
LOCATION: E LONE ISLAND

DATE: 09/12/89
TIME: 10:30

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, G. Winter, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Rough

Wind Direction: NE
Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

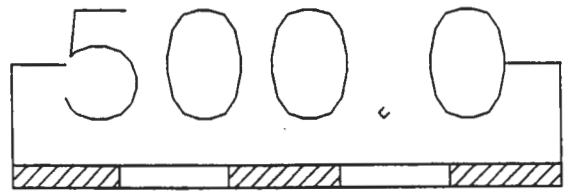
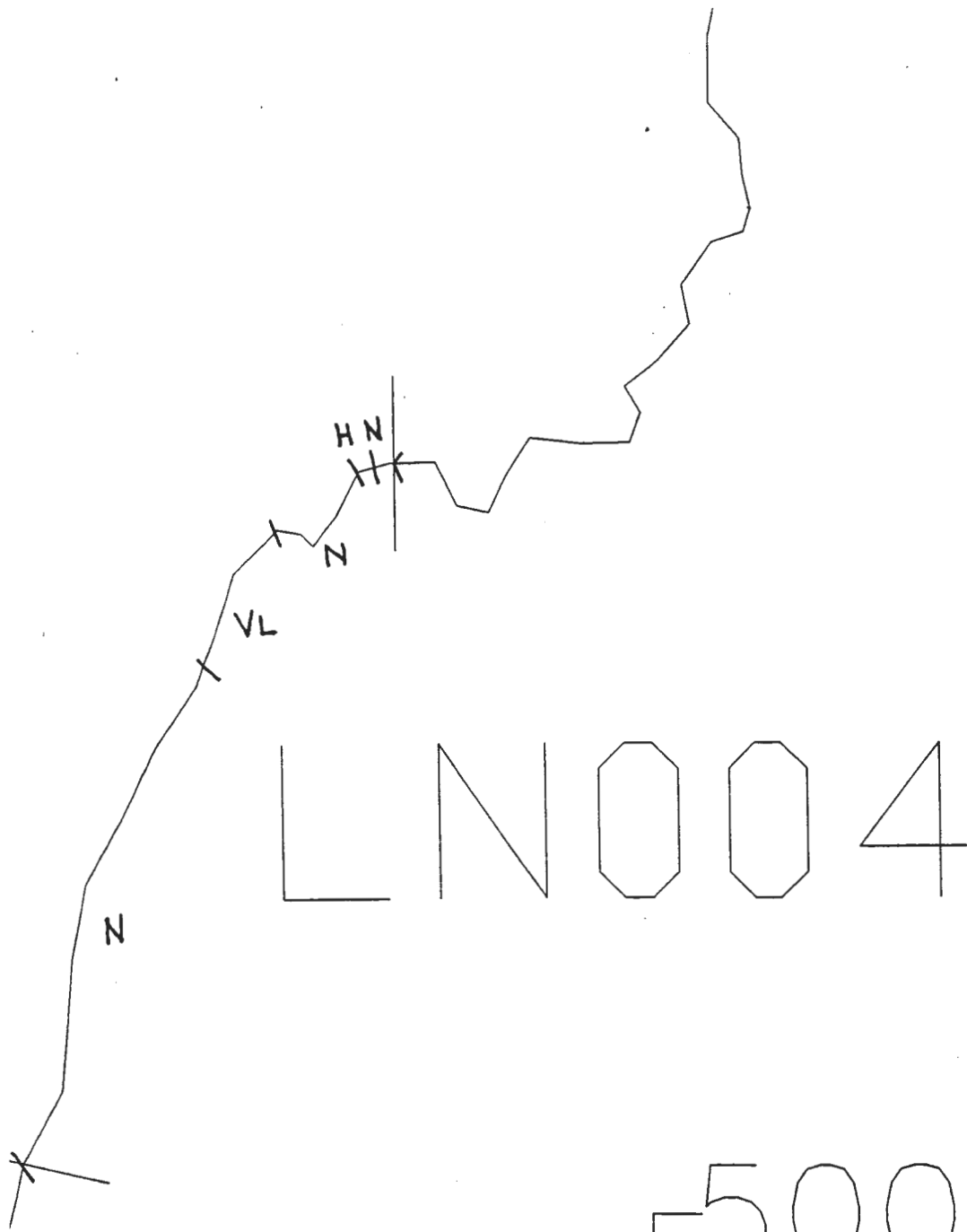
Percent Segment Categorized as Oiled: 15%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN005
LOCATION: E LONE ISLAND

DATE: 09/12/89
TIME: 10:30

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Rough Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

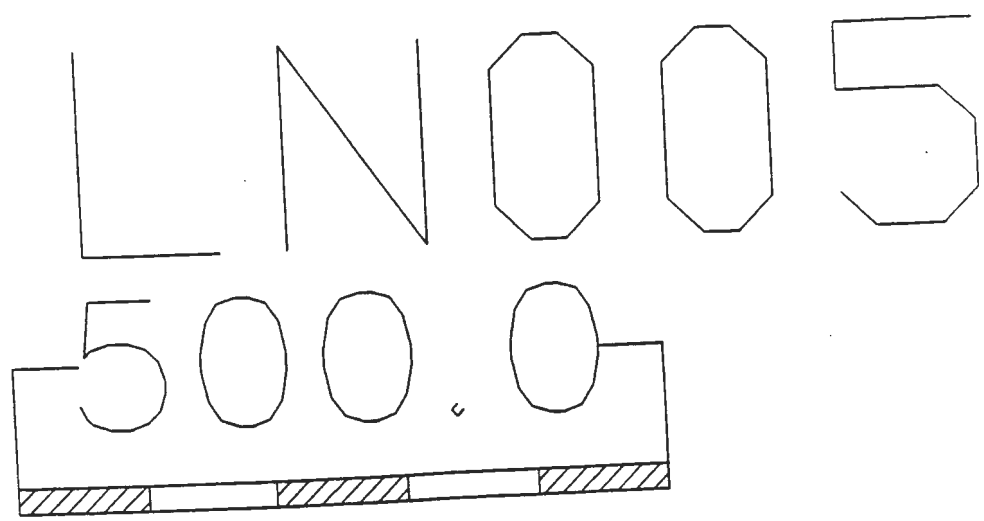
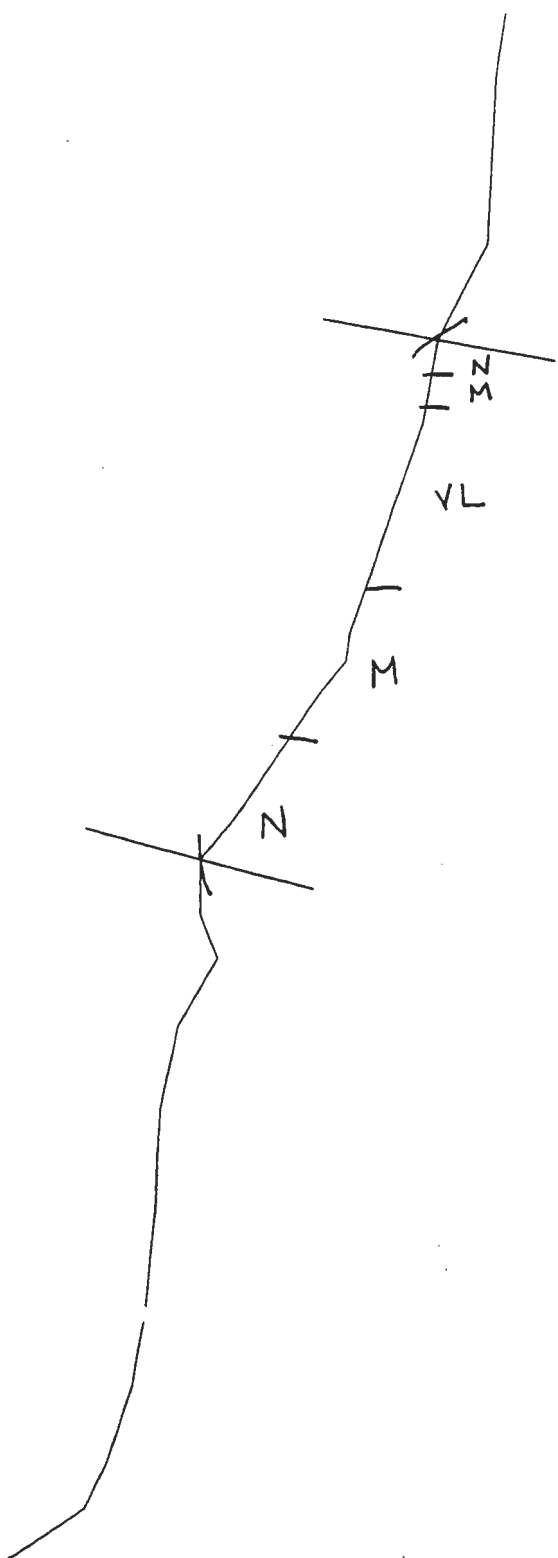
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN006
LOCATION: E LONE ISLAND

DATE: 09/12/89
TIME: 10:00

Survey Type: Boat
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Rough Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

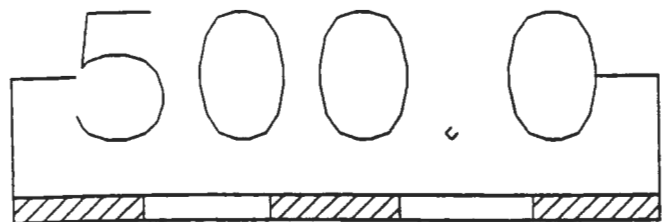
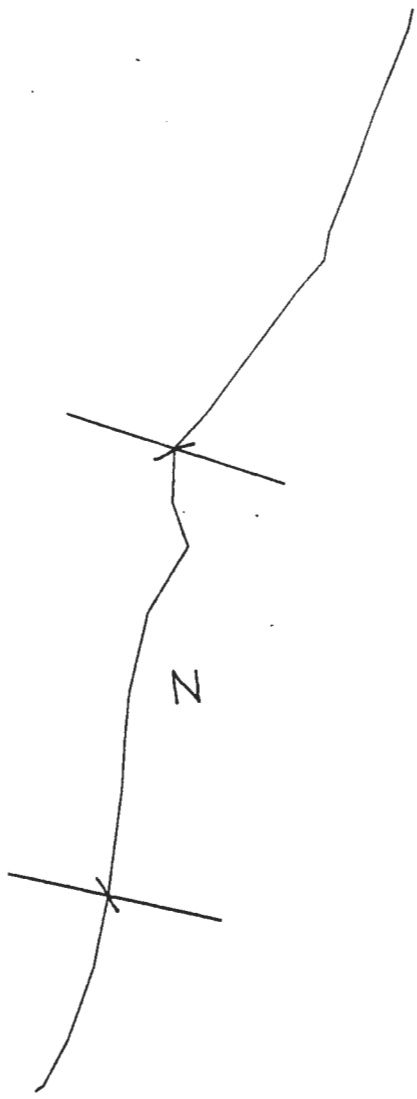
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



LN0006

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN007
LOCATION: SE LONE ISLAND

DATE: 09/12/89
TIME: 9:15

Survey Type: Boat, Ground
Team: E. Gundlach, M. Mangiaracina, C. Pavia, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

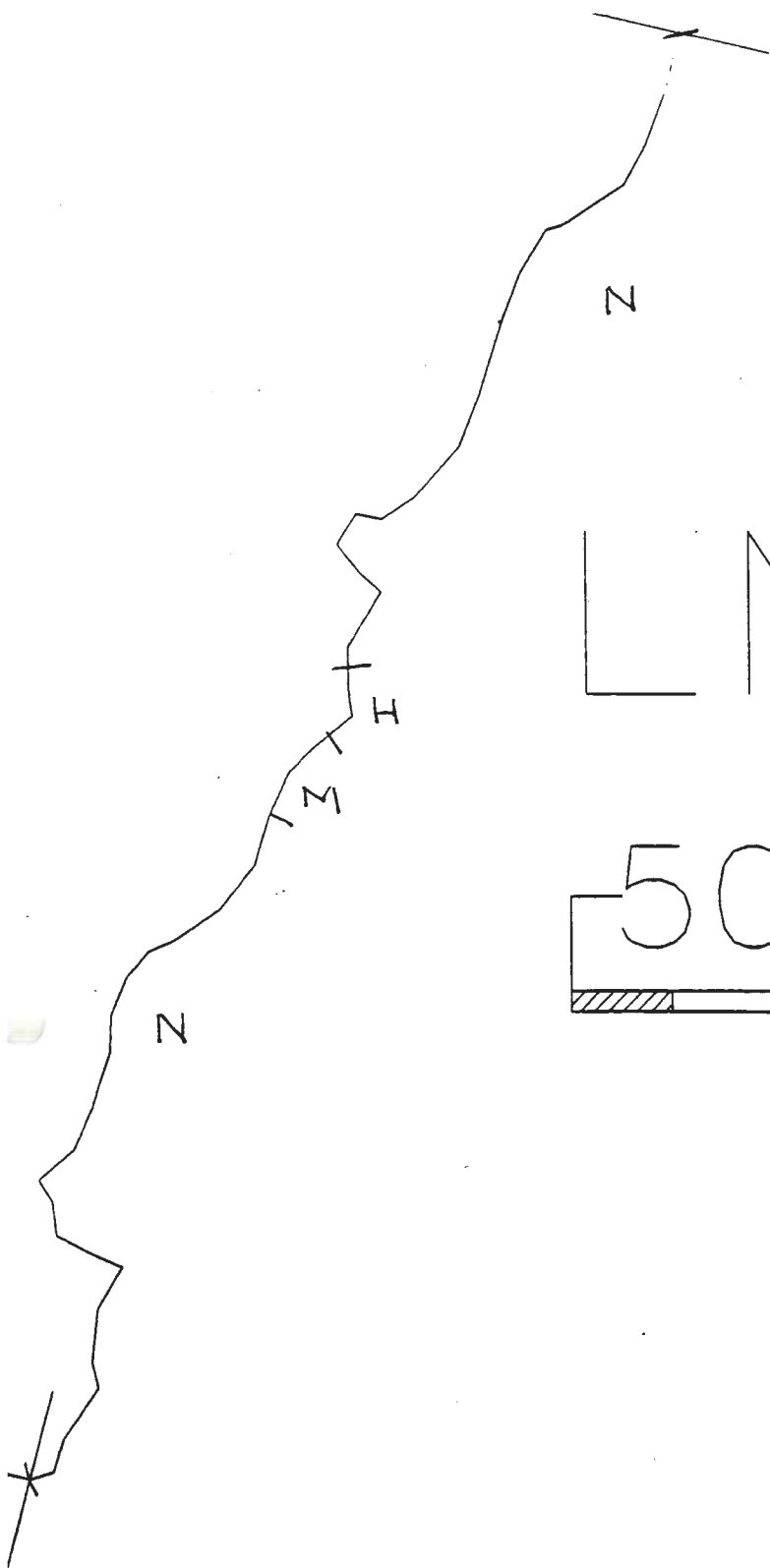
Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LN007-1 / LN007-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 1



LN0007

500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN008
LOCATION: S LONE ISLAND

DATE: 09/12/89
TIME: 8:30

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Rough

Wind Direction: NE
Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 35 cm (35 = 35 cm or greater)

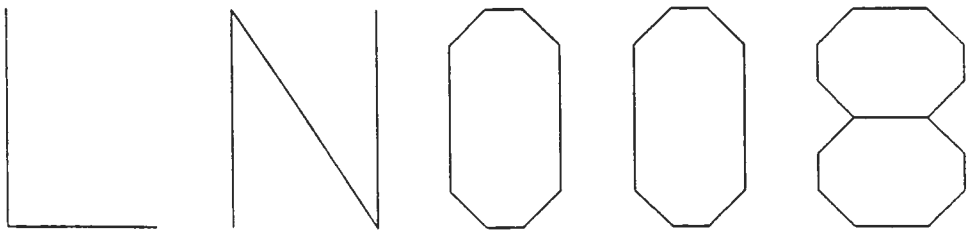
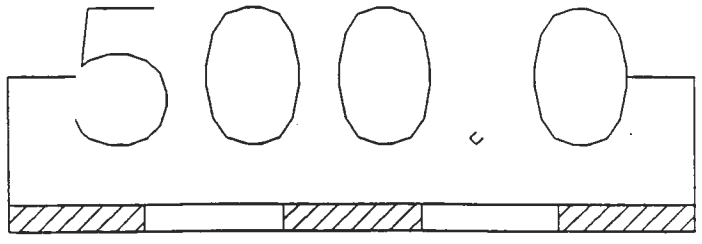
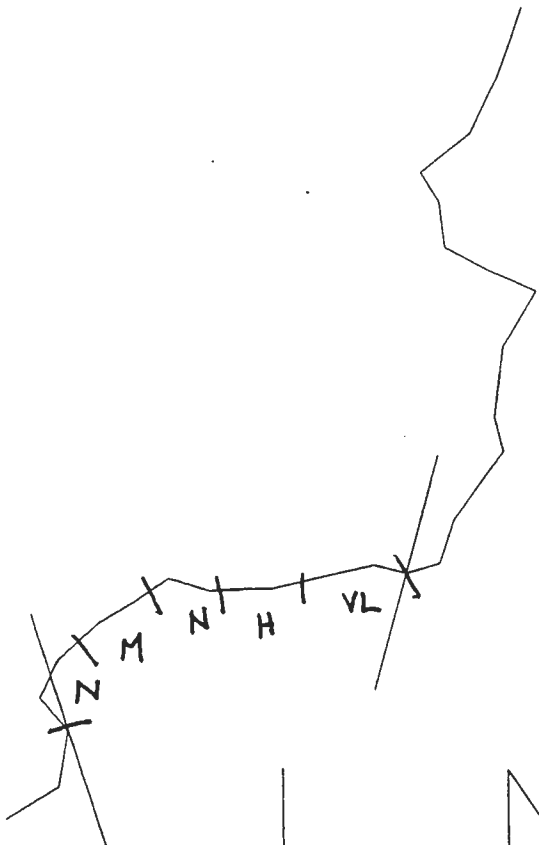
Percent Segment Categorized as Oiled: 80%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LN008-1 / LN008-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 1



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN009
LOCATION: S LOWE ISLAND

DATE: 09/12/89
TIME: 8:15

Survey Type: Boat
Team: E. Gundlach, C, Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Rough Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

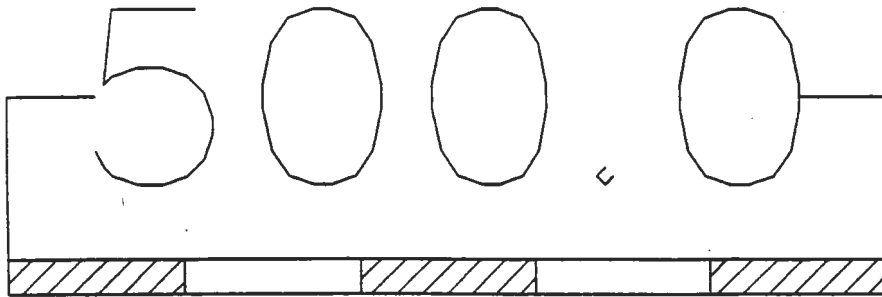
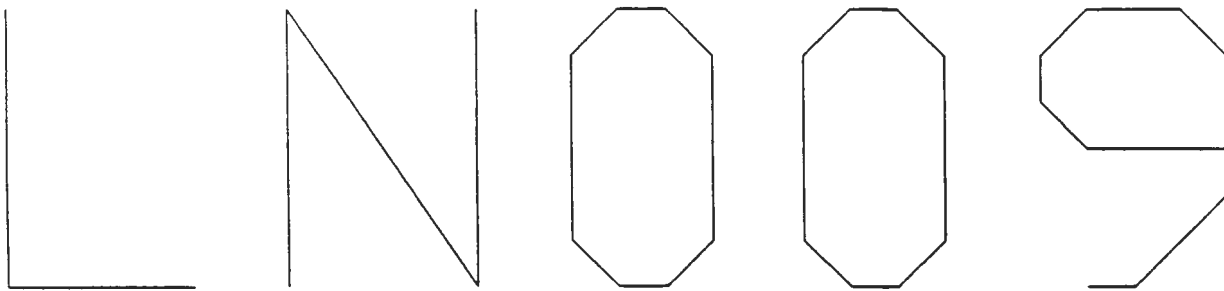
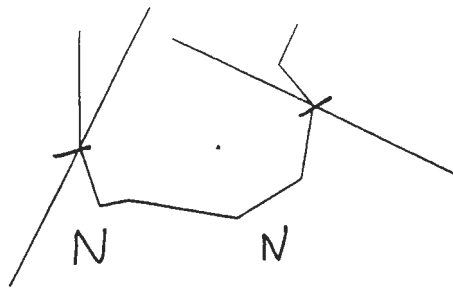
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN010
LOCATION: SW LONE ISLAND

DATE: 09/12/89
TIME: 9:30

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 16-30

Low Tide: 5:57 Feet: 0.7 High Tide: 11:44 Feet: 9.5
Low Tide: 17:57 Feet: 3.7 High Tide: 23:00 Feet: 11.8

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: -0- cm (35 = 35 cm or greater)

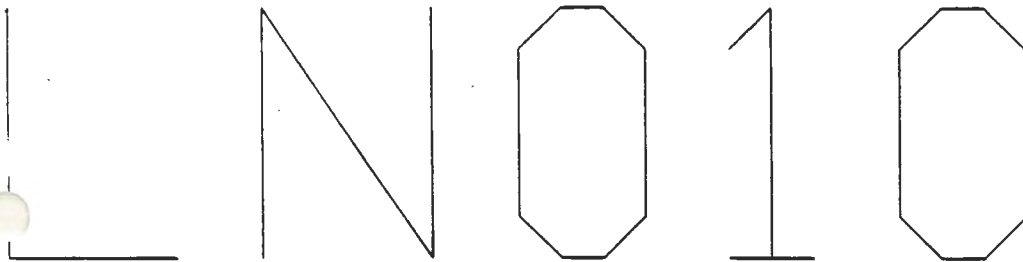
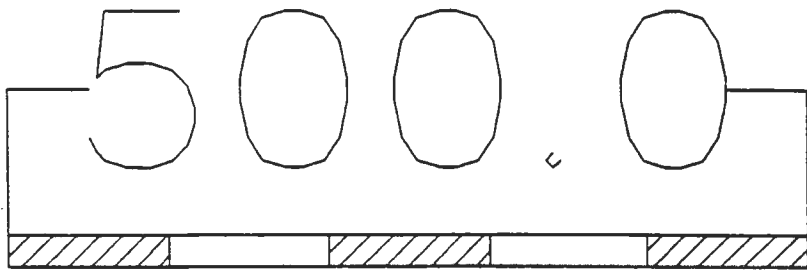
Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: M
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

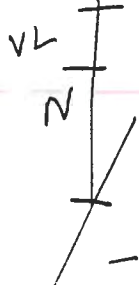
SOLID WASTE FOUND

Type: None
Bags Collected: 0



NS

NS



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LN012
LOCATION: NW LONE ISLAND

DATE: 09/14/89
TIME: 11:30

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Rough

Wind Direction: NE
Knots: 16-30

Low Tide: 7:16 Feet: -1. High Tide: 13:35 Feet: 12.2
Low Tide: 19:29 Feet: 0.48 High Tide: 0:50 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: M
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

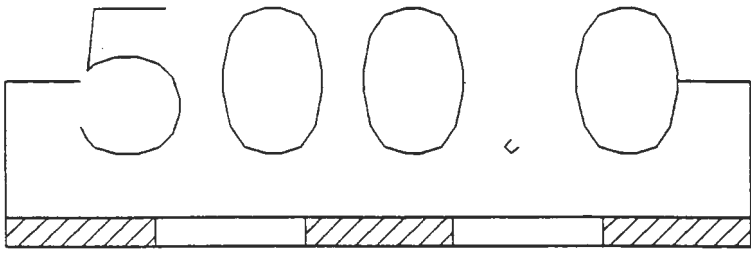
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

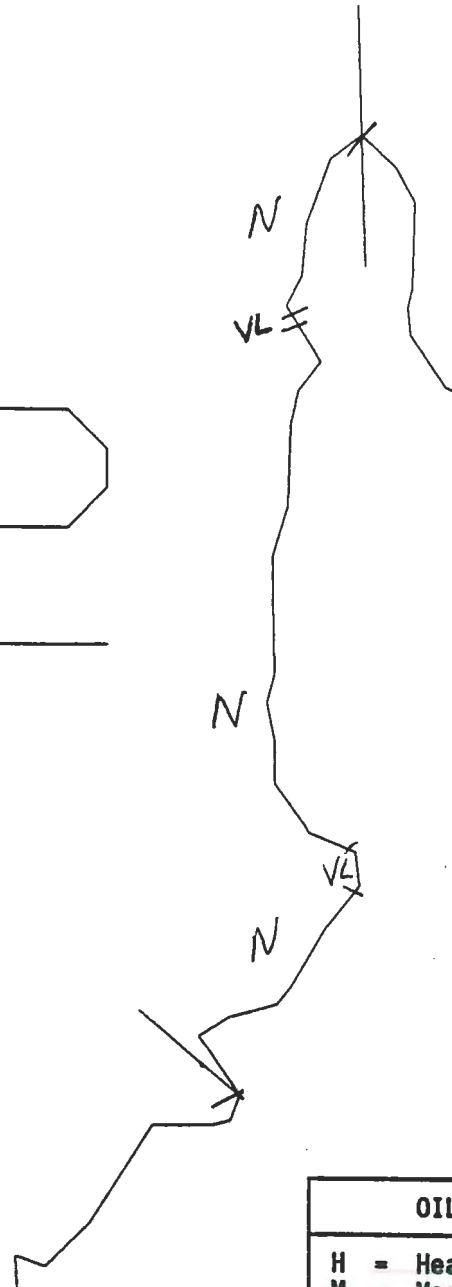
Type: One locality, clean up debris
Bags Collected: 1

Draft

Printed: 12/12/89 11:47



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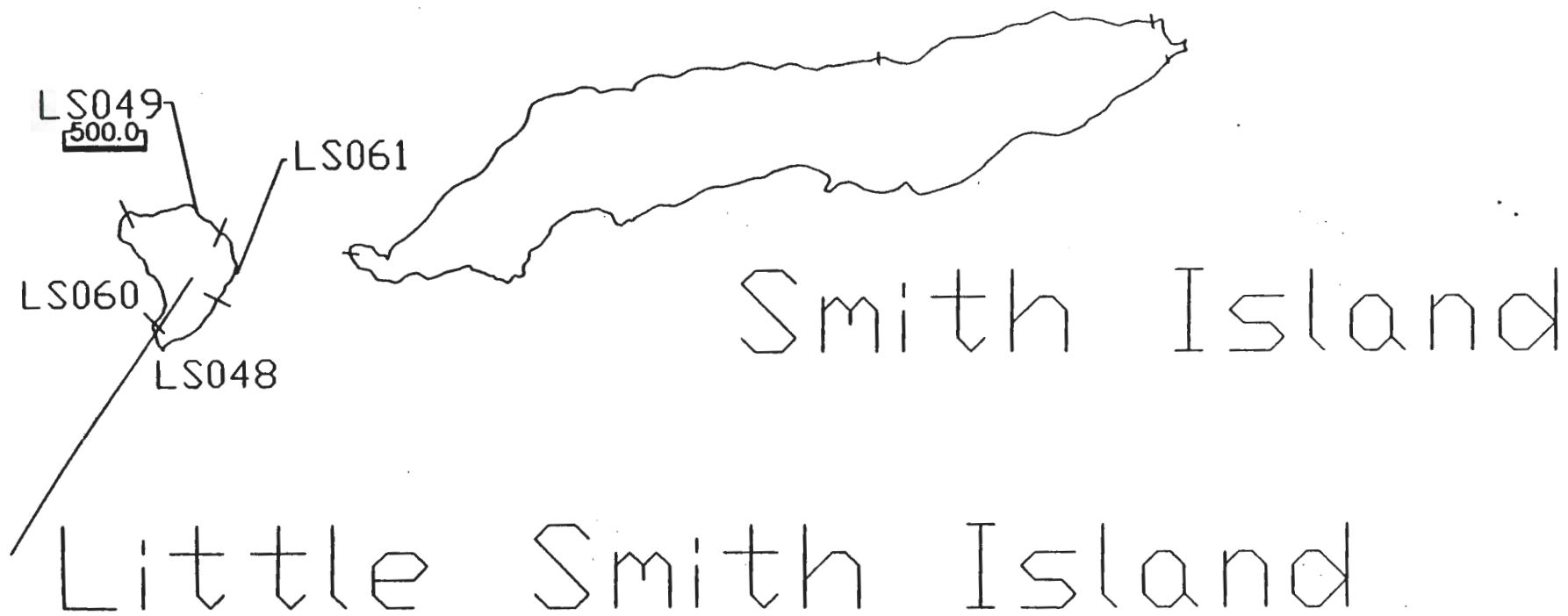
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



SECTION CONTENTS — LITTLE SMITH ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
LS049	N LITTLE SMITH ISLAND
LS060	W LITTLE SMITH ISLAND
LS061	E LITTLE SMITH ISLAND

Printed: 12/12/89



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LS049
LOCATION: N LITTLE SMITH ISLAND

DATE: 09/18/89
TIME: 11:25

Survey Type: Boat, Ground
Team: J. DeRuyter

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): n

Oil Types: T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: LS049-1 / LS049-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

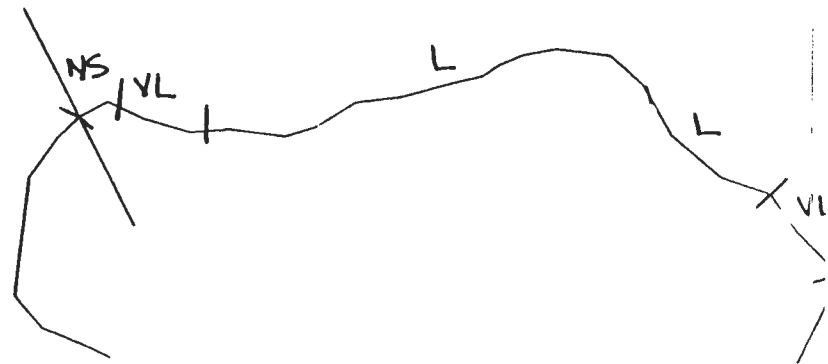
LS049

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LS060
LOCATION: W LITTLE SMITH ISLAND

DATE: 09/18/89
TIME: 12:00

Survey Type: Boat, Ground
Team: J. DeRuyter, M. East

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretupes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

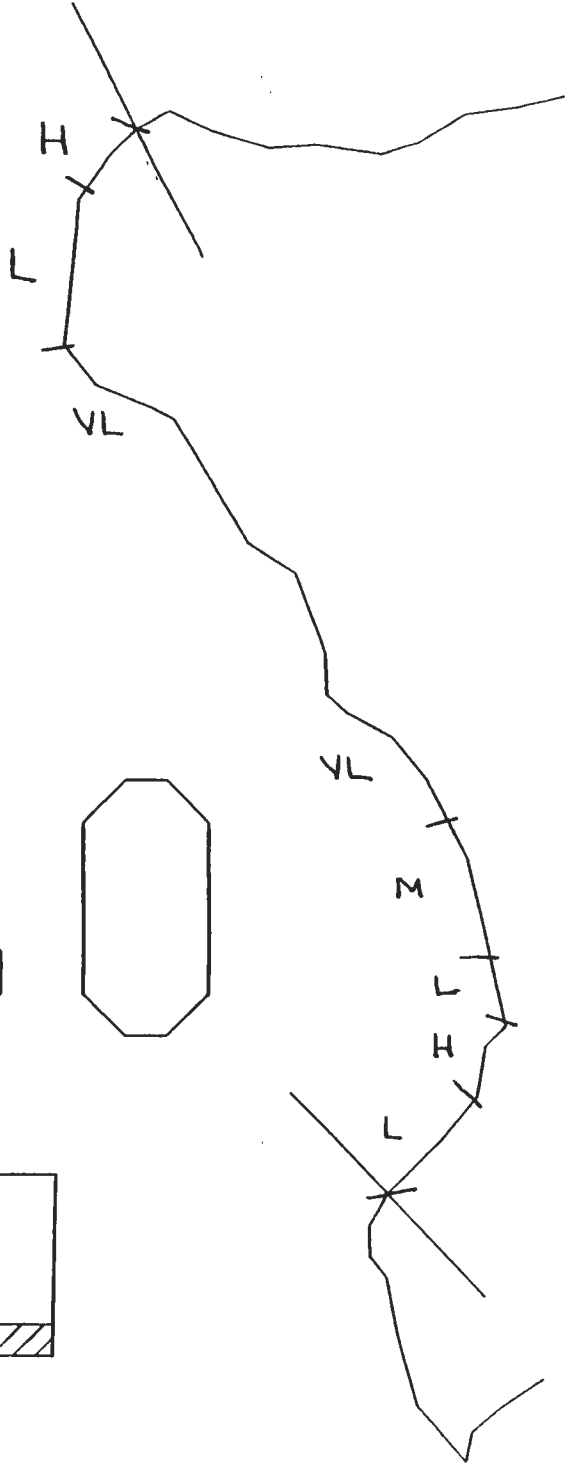
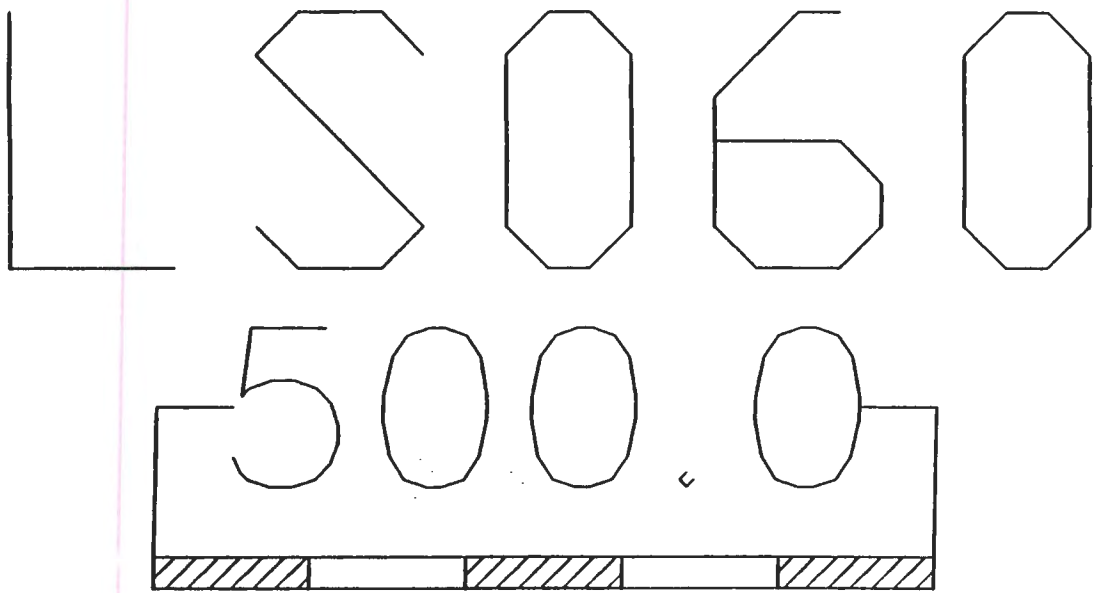
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LS060-1 / LS060-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: LS061
LOCATION: E LITTLE SMITH ISLAND

DATE: 09/18/89
TIME: 10:49

Survey Type: Boat, Ground
Team: J. DeRuyter, M. East

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: LS061-1 / LS061-2 / none / none

DAMAGED OR OILED ORGANISMS

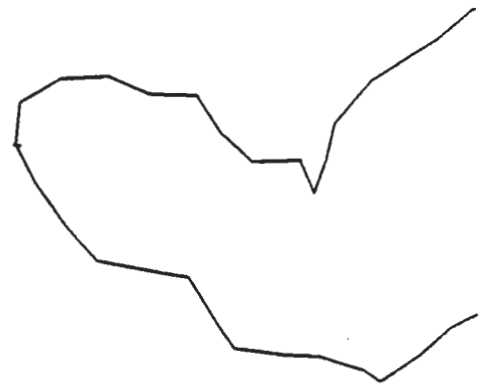
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

LS061

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

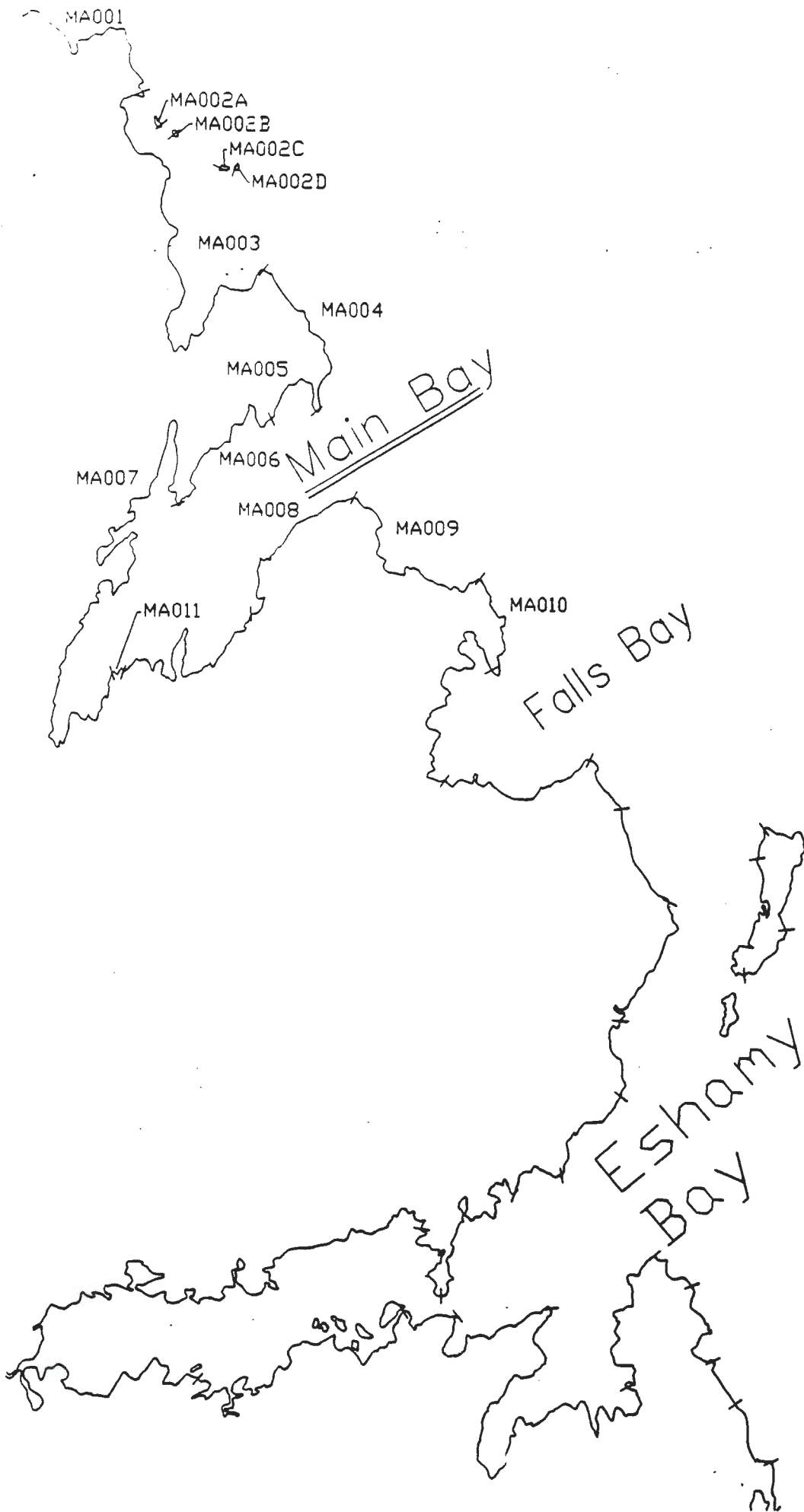
ADEC Sep/Oct 1989 Survey



SECTION CONTENTS — MAIN BAY

<u>SEGMENT#</u>	<u>LOCATION</u>
MA001	MAINLAND N OF MAIN BAY
MA002A	ISLAND N OF MAIN BAY
MA002B	ISLAND N OF MAIN BAY
MA002C	ISLAND N OF MAIN BAY
MA002D	ISLAND N OF MAIN BAY
MA003	N OF MAIN BAY
MA004	N OF MAIN BAY
MA005	W MAIN BAY
MA006	W MAIN BAY
MA007	W MAIN BAY
MA008	E MAIN BAY
MA009	S OF MAIN BAY
MA010	S OF MAIN BAY

Printed: 12/12/89



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA001 DATE: 09/13/89
LOCATION: MAINLAND N OF MAIN BAY TIME: 7:48

Survey Type: Ground
Team: J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
Sea State: Calm Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: MA001-1 / MA001-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA002A
LOCATION: ISLAND N OF MAIN BAY

DATE: 09/13/89
TIME: 9:45

Survey Type: Ground
Team: J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretupes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: MA002A-1 / MA002A-1 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA002B
LOCATION: ISLAND N OF MAIN BAY

DATE: 09/13/89
TIME: 9:45

Survey Type: Ground
Team: J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: MA002B-1 / MA002B-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA002C
LOCATION: ISLAND N OF MAIN BAY

DATE: 09/13/89
TIME: 10:15

Survey Type: Ground
Team: J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M,L
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA002D
LOCATION: ISLAND N OF MAIN BAY

DATE: 09/13/89
TIME: 9:45

Survey Type: Ground
Team: J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

OILING

- H - Heavy
- M - Moderate
- L - Light
- VL - Very Light
- N - None
- NS - Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

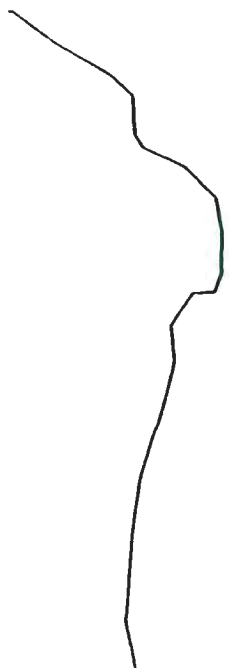
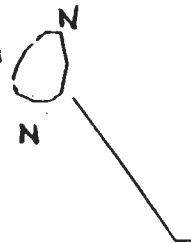
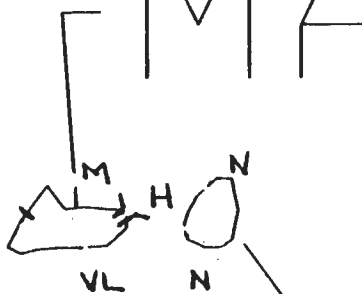
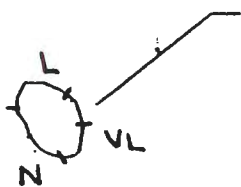
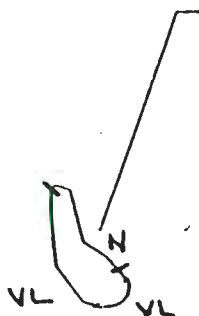
MA0002A

MA0002B

MA0002C

MA0002D

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ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA003
LOCATION: N OF MAIN BAY

DATE: 09/13/89
TIME: 21:30

Survey Type: Boat, Ground
Team: C. Robinson, B. Fitzsimons, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: SE
Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

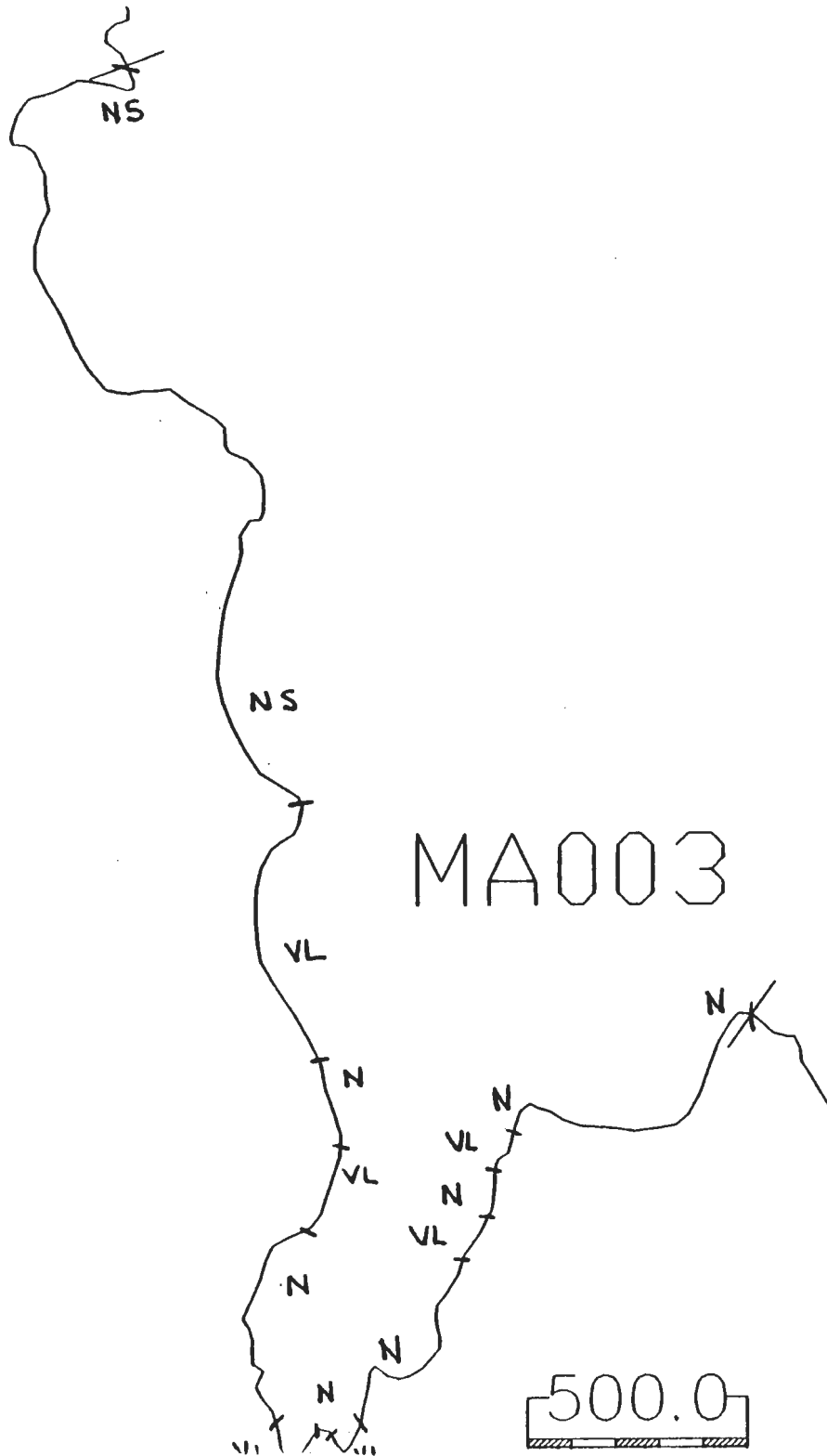
Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: S,H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 15%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA004
 LOCATION: N OF MAIN BAY

DATE: 09/13/89
 TIME: 21:30

Survey Type: Boat, Ground
 Team: C. Robinson, B. Fitzsimons, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: SE
 Sea State: Calm Knots: 0-15

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
 Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: S,H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 20%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,SY,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: MA004-1 / MA004-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 1 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed



Distance In Meters
ADEC Sep/Oct 1989 Survey

M A 0 0 4

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ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA005
 LOCATION: W MAIN BAY

DATE: 09/12/89
 TIME: 16:00

Survey Type: Boat, Ground
 Team: B. McCready, C. Robinson

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
 Sea State: Rough Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
 Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,C
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

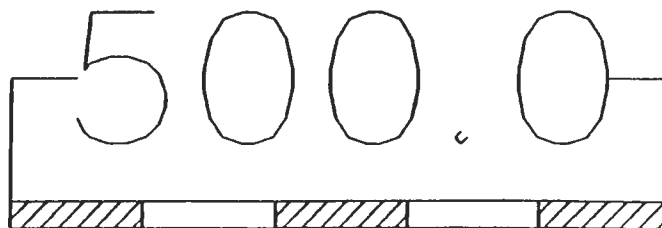
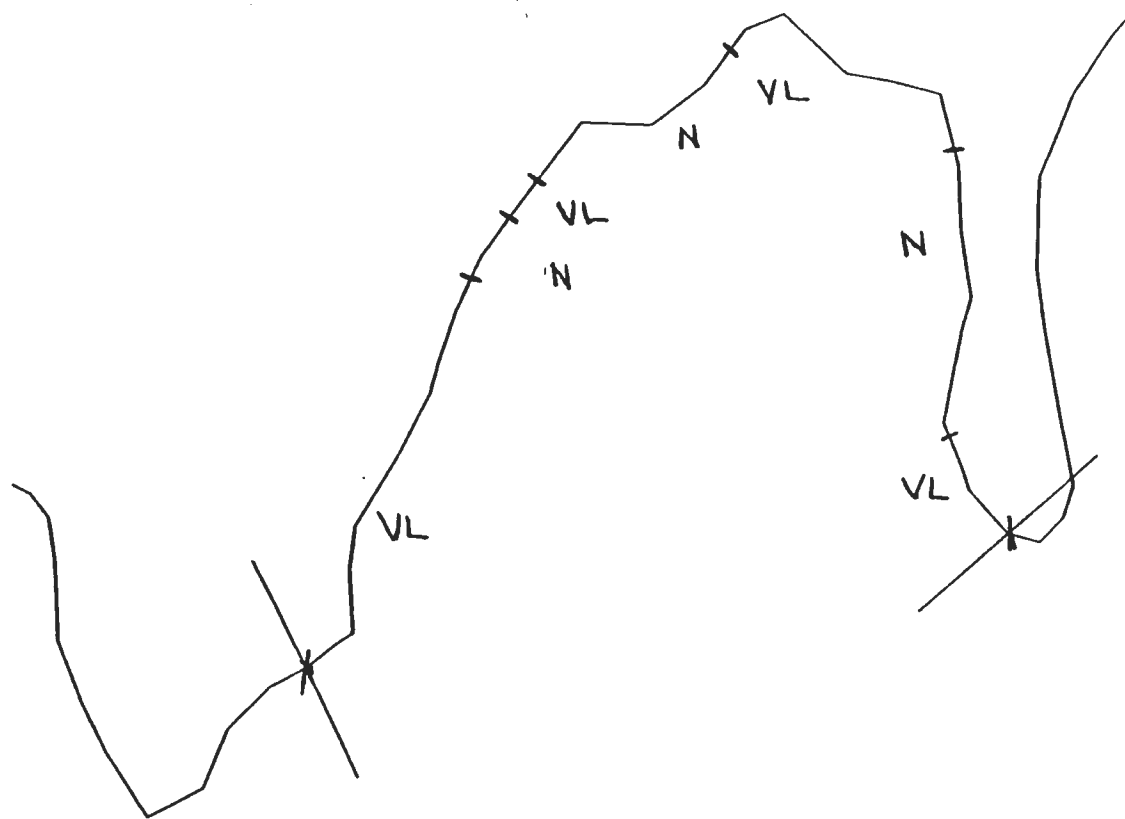
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

M A 0005



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA006
LOCATION: W MAIN BAY

DATE: 09/12/89
TIME: 16:00

Survey Type: Boat, Ground
Team: C. Robinson, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

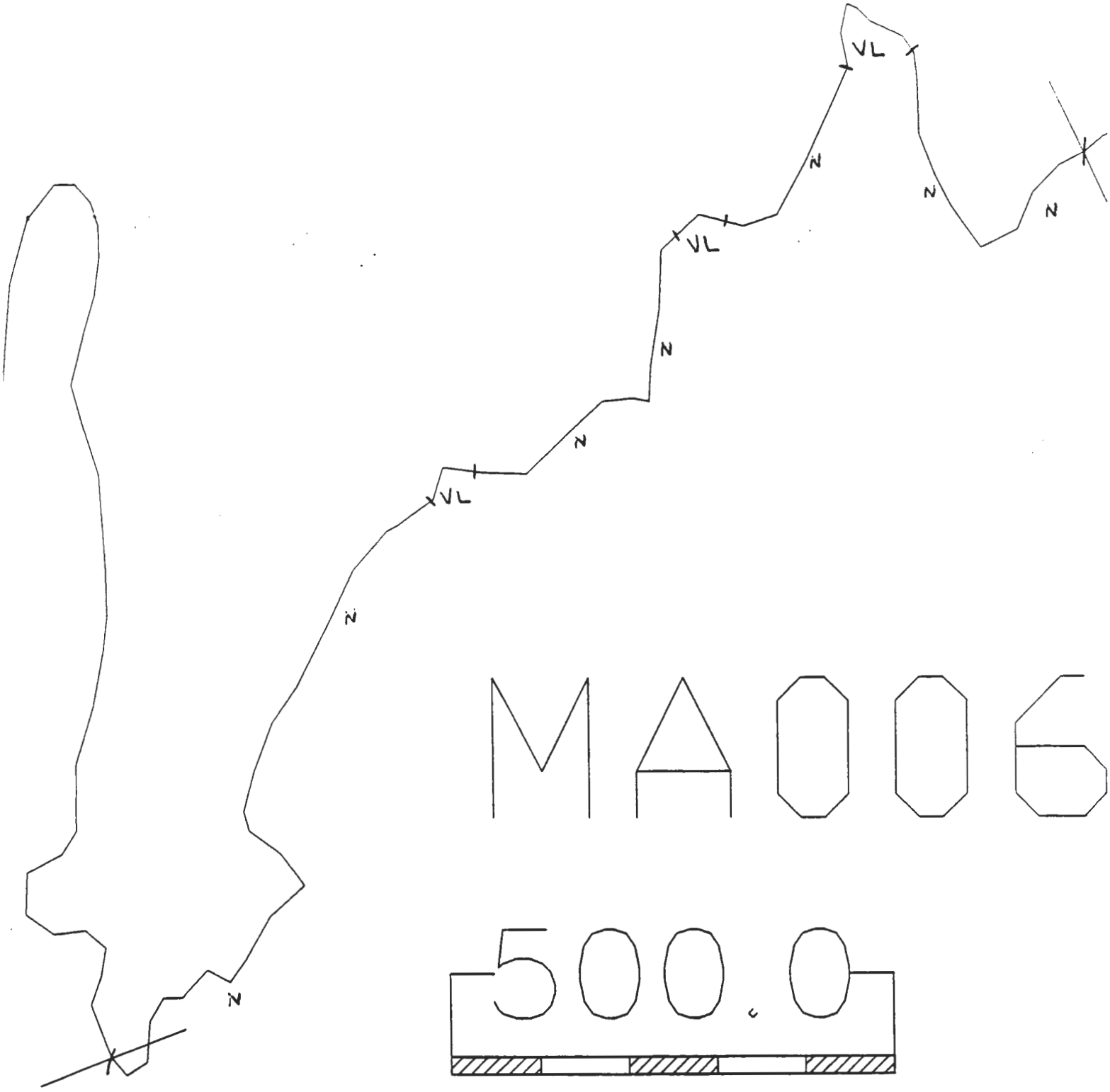
Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 2 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



GILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA007
LOCATION: W MAIN BAY

DATE: 09/12/89
TIME: 16:00

Survey Type: Boat, Ground
Team: C. Robinson, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 16-30

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey



M A 0 0 7



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA008
LOCATION: E MAIN BAY

DATE: 09/13/89
TIME: 12:00

Survey Type: Boat, Ground
Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

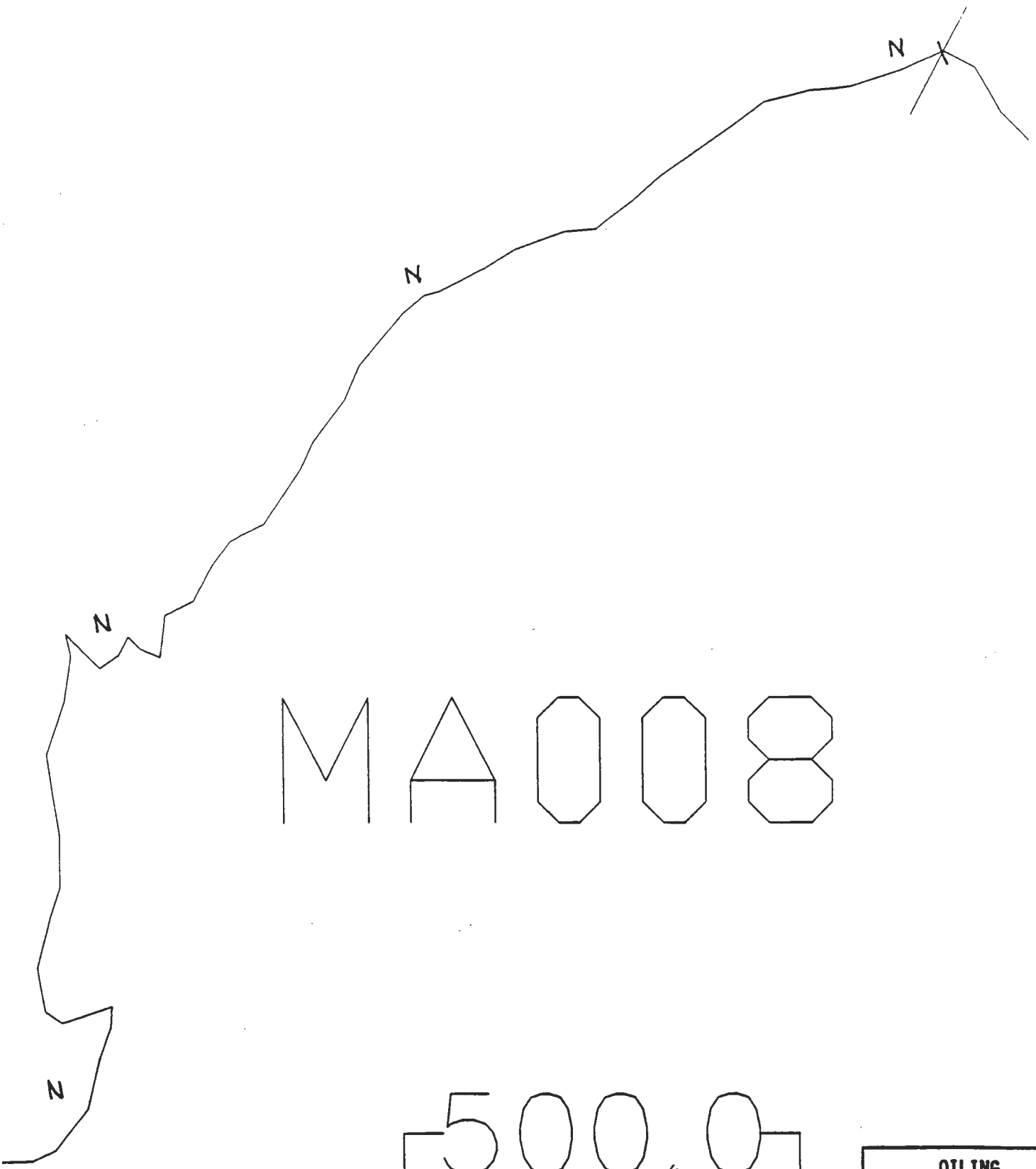
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, boom
Bags Collected: 0



MAA008

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OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA009
 LOCATION: S OF MAIN BAY

DATE: 09/13/89
 TIME: 11:00

Survey Type: Boat, Ground
 Team: G. Pavia, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
 Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

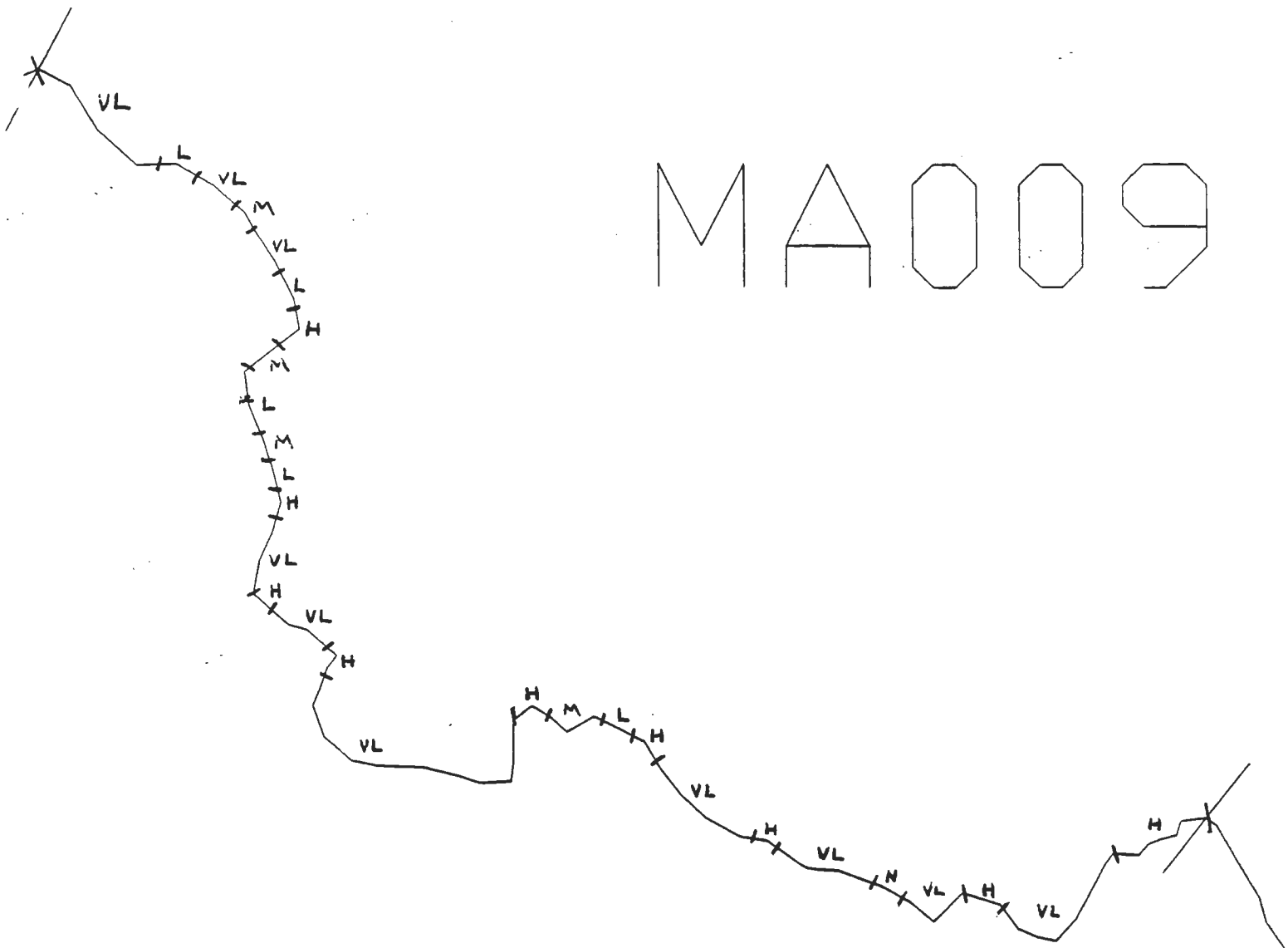
Degree of Oiling: N,VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 20 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,SY,T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



MA009

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OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA010
LOCATION: S OF MAIN BAY

DATE: 09/13/89
TIME: 11:00

Survey Type: Boat, Ground
Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: MA010-1 / MA010-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One Locality, cleanup debris
Bags Collected: 1

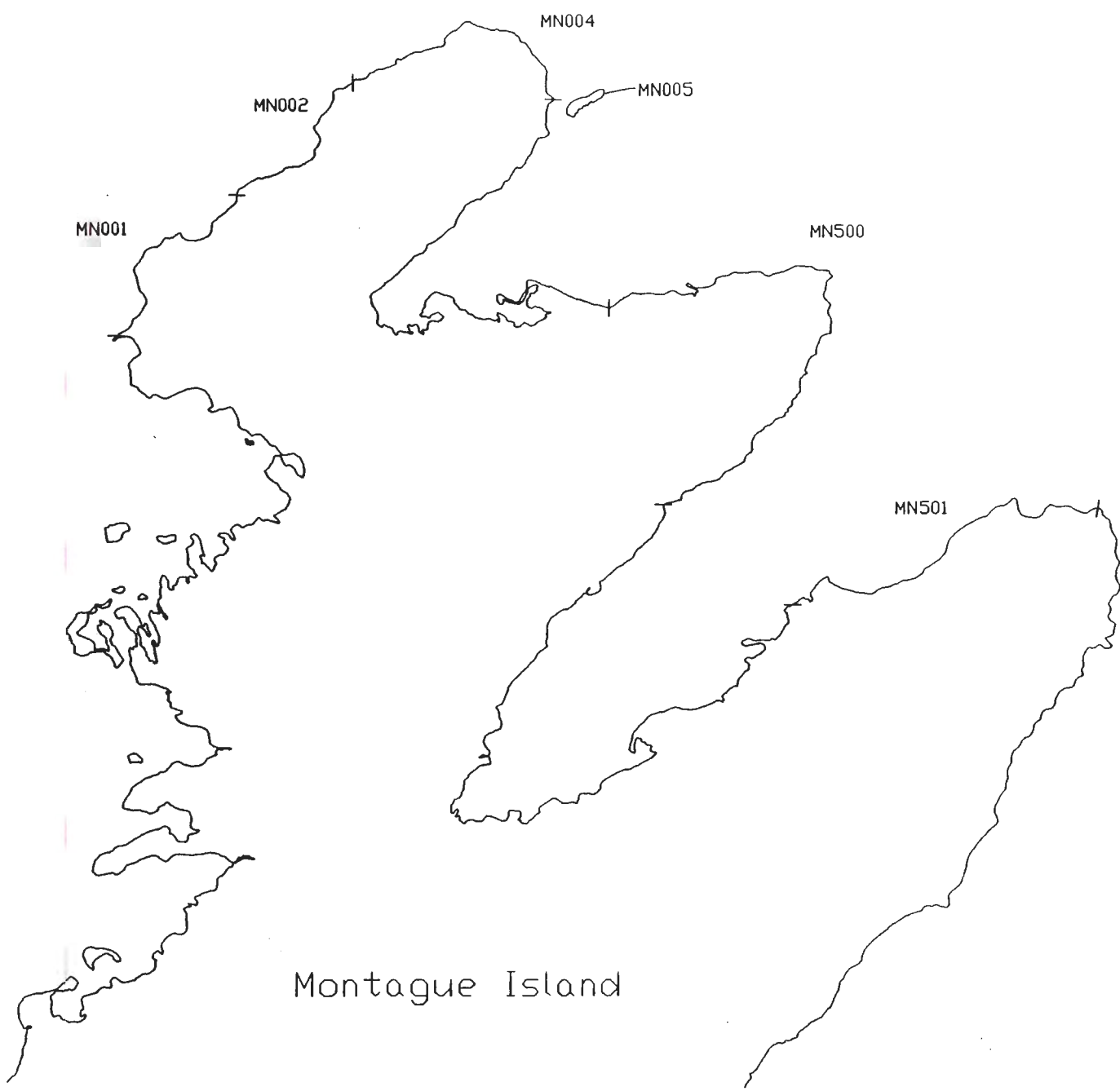
Draft

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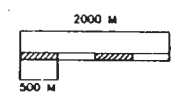
SECTION CONTENTS — MONTAGUE ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
MN001	NW MONTAGUE ISLAND
MN002	NW MONTAGUE ISLAND
MN004	NW MONTAGUE ISLAND
MN005	ISLAND N MONTAGUE ISLAND
MN500	N MONTAGUE ISLAND
MN501	N MONTAGUE ISLAND

Printed: 12/12/89



Montague Island



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MN001
 LOCATION: NW MONTAGUE ISLAND

DATE: 10/03/89
 TIME: 11:30

Survey Type: Boat, Ground Reconnaissance
 Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: W
 Sea State: Moderate Knots: 0-15

Low Tide: 9:35 Feet: 3.1 High Tide: 3:55 Feet: 11.2
 Low Tide: 22:12 Feet: 0.4 High Tide: 15:32 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: S,H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MN002
LOCATION: NW MONTAGUE ISLAND

DATE: 10/03/89
TIME: 11:15

Survey Type: Boat, Ground Reconnaissance
Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: W
Sea State: Moderate Knots: 0-15

Low Tide: 9:35 Feet: 3.1 High Tide: 3:55 Feet: 11.2
Low Tide: 22:12 Feet: 0.4 High Tide: 15:32 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L (some areas not surveyed)
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 2 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

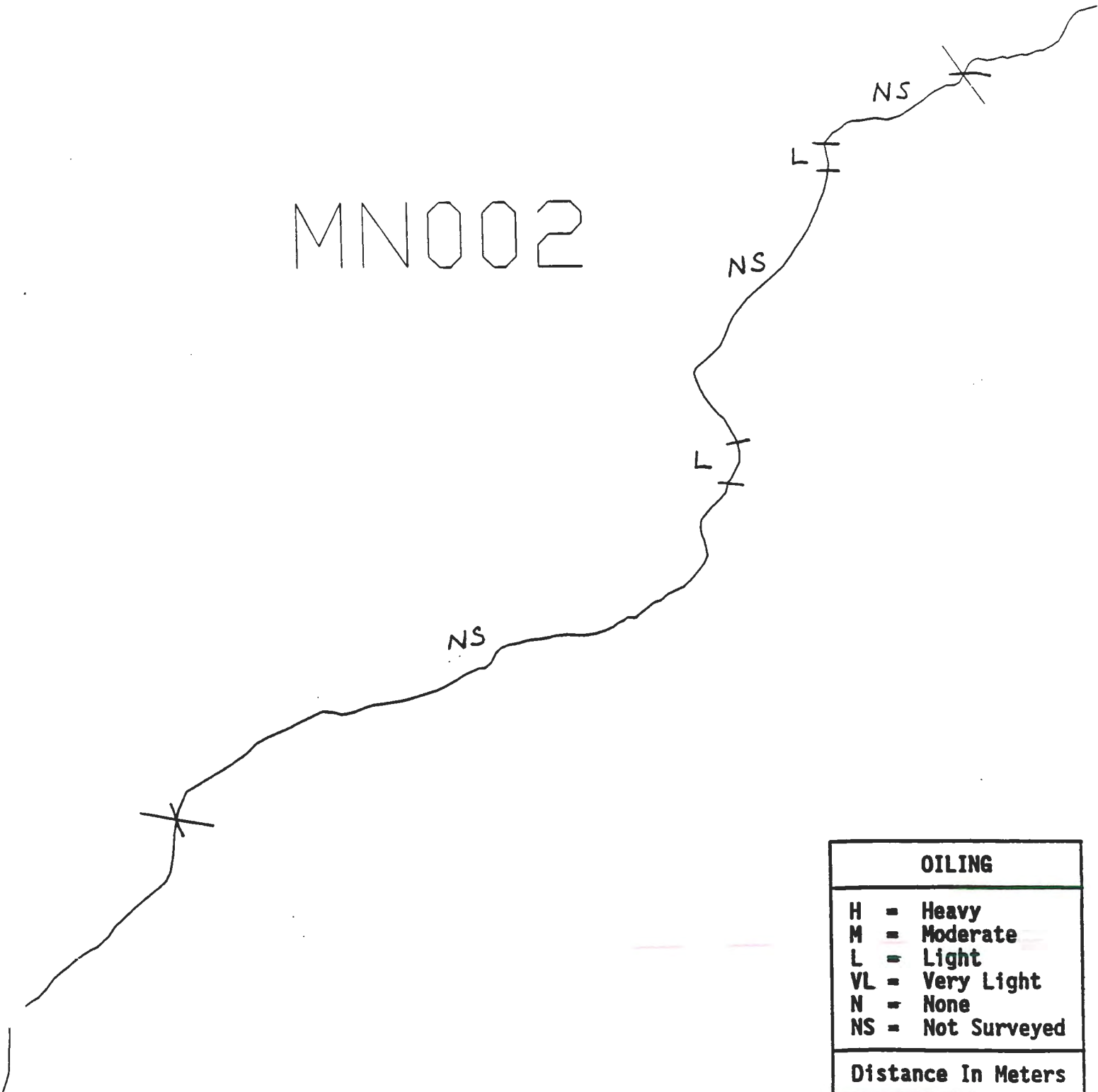
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

500.0

MN0002



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MN004
 LOCATION: NW MONTAGUE ISLAND

DATE: 10/03/89
 TIME: 11:00

Survey Type: Boat, Ground Reconnaissance
 Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: W
 Sea State: Moderate Knots: 0-15

Low Tide: 9:35 Feet: 3.1 High Tide: 3:55 Feet: 11.2
 Low Tide: 22:12 Feet: 0.4 High Tide: 15:32 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

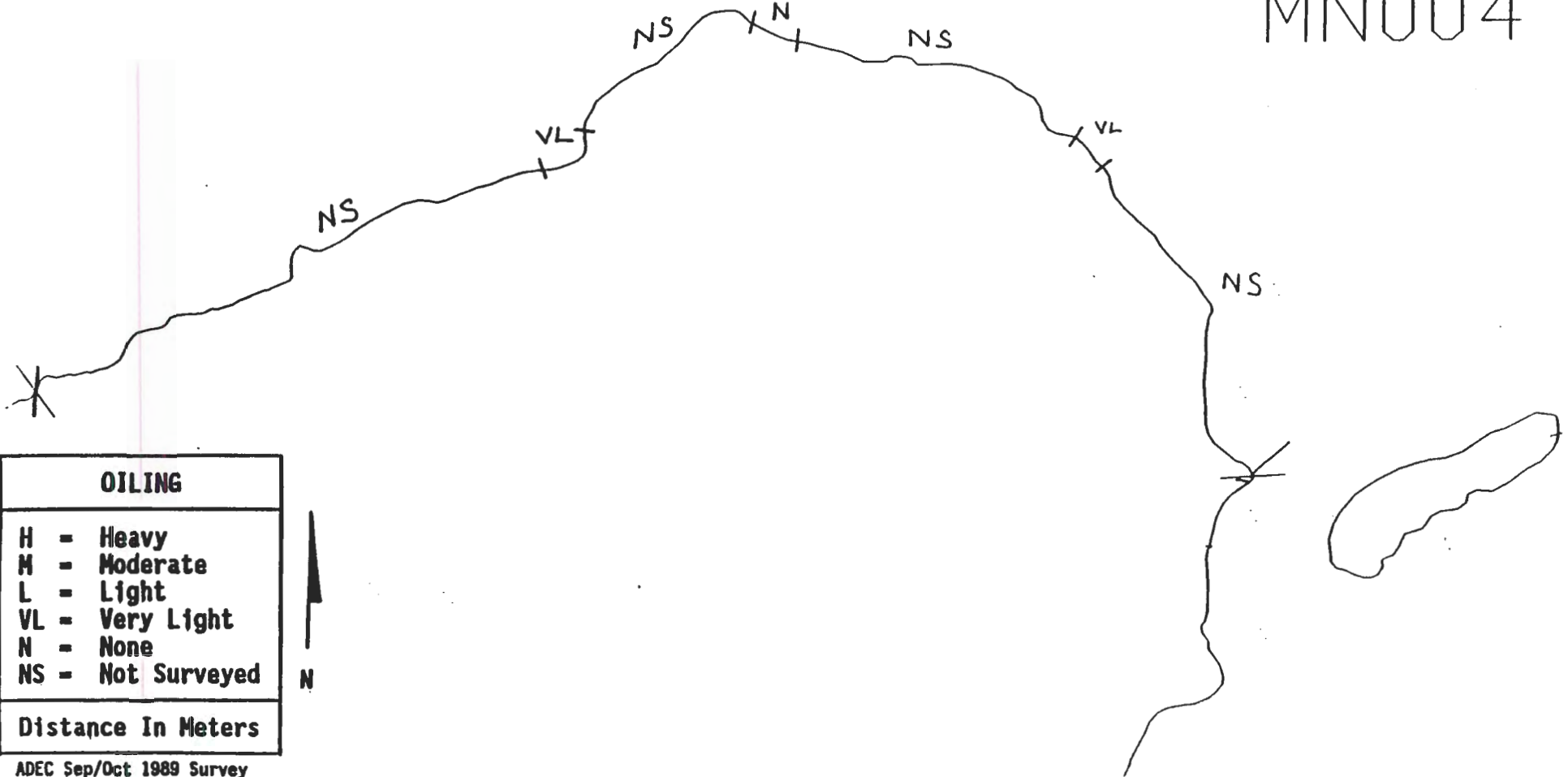
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, garbage
 Bags Collected: 0

500.0

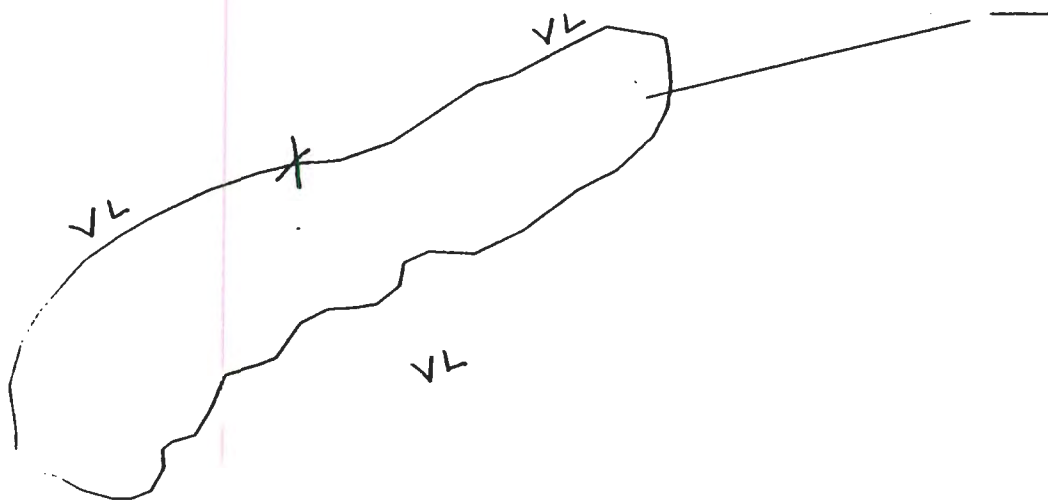
MN004



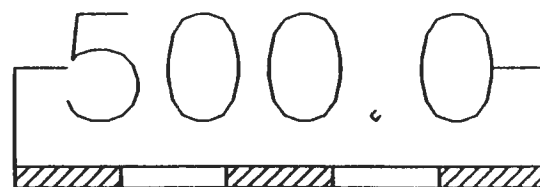
OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



MN005



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MN500
LOCATION: N MONTAGUE ISLAND

DATE: 10/03/89
TIME: 9:50

Survey Type: Boat, Ground Reconnaissance
Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: W
Sea State: Moderate Knots: 0-15

Low Tide: 9:35 Feet: 3.1 High Tide: 3:55 Feet: 11.2
Low Tide: 22:12 Feet: 0.4 High Tide: 15:32 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

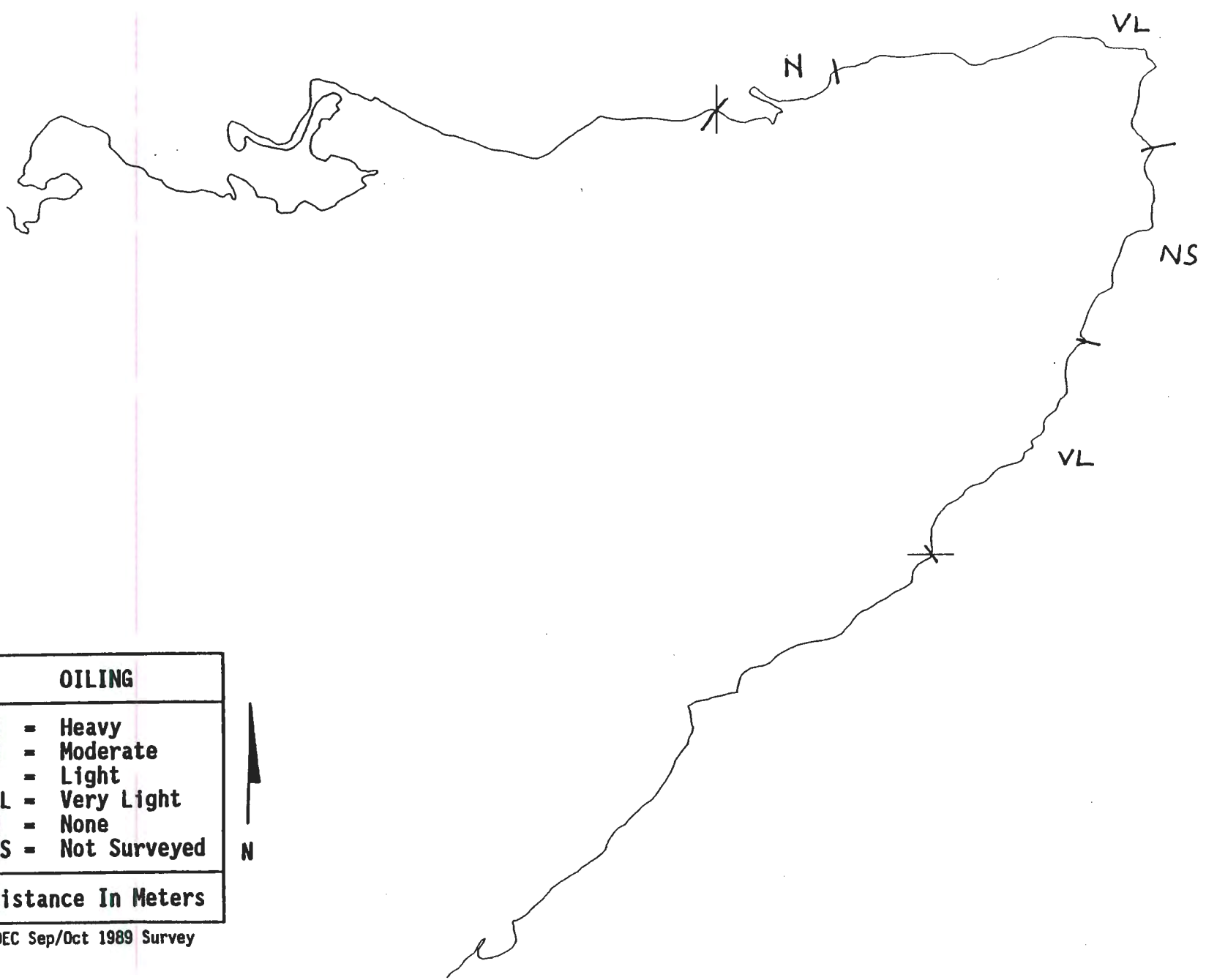
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Many localities, cleanup debris, garbage, other

Bags Collected: 0

MN500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC Sep/Oct 1989 Survey

500.0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MN501
 LOCATION: N MONTAGUE ISLAND

DATE: 10/03/89
 TIME: 9:20

Survey Type: Boat, Ground Reconnaissance
 Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: W
 Sea State: Calm Knots: 0-15

Low Tide: 9:35 Feet: 3.1 High Tide: 3:55 Feet: 11.2
 Low Tide: 22:12 Feet: 0.4 High Tide: 15:32 Feet: 13.

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 25%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

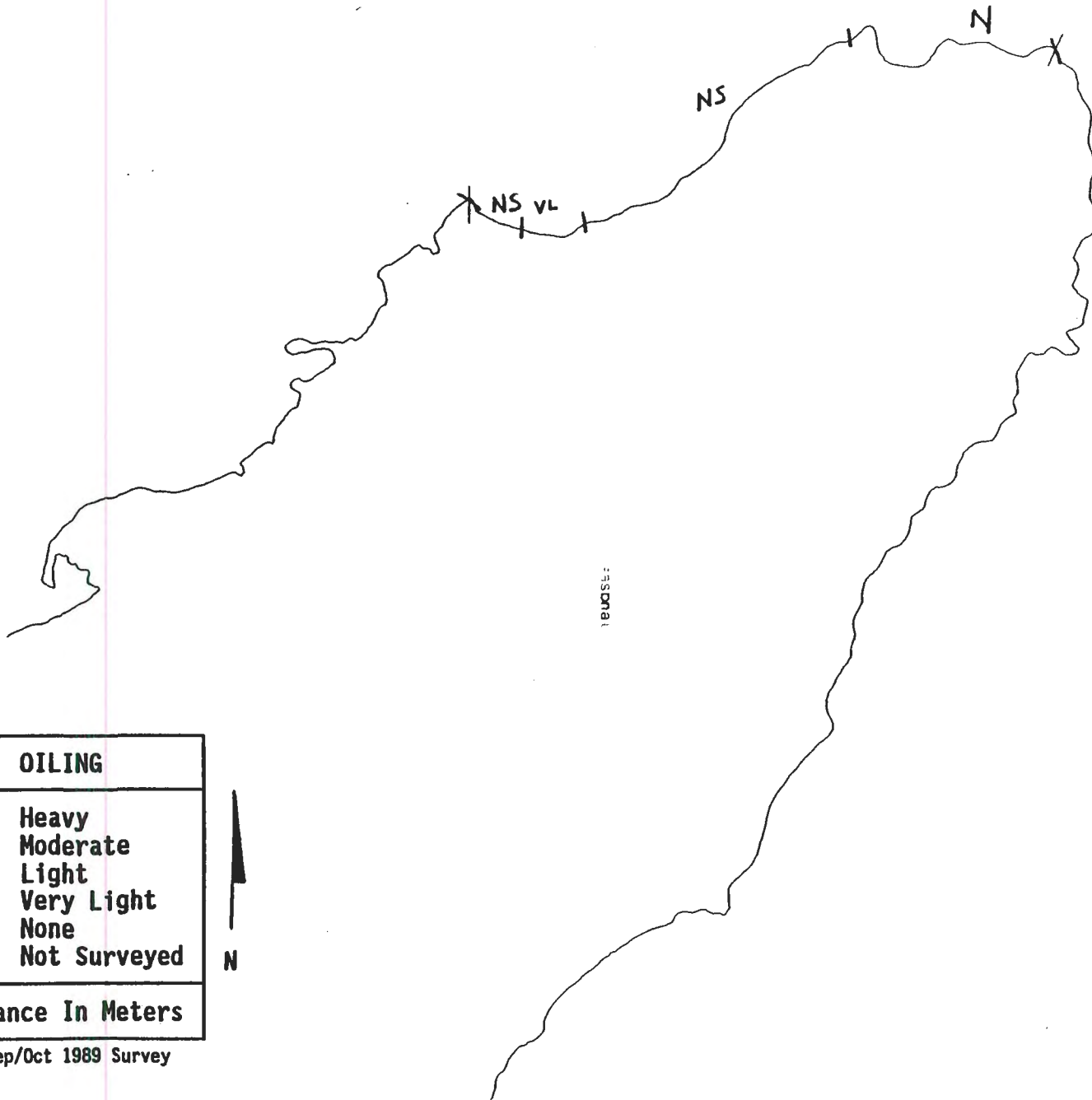
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, other
 Bags Collected: 0

MN501



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

500.0

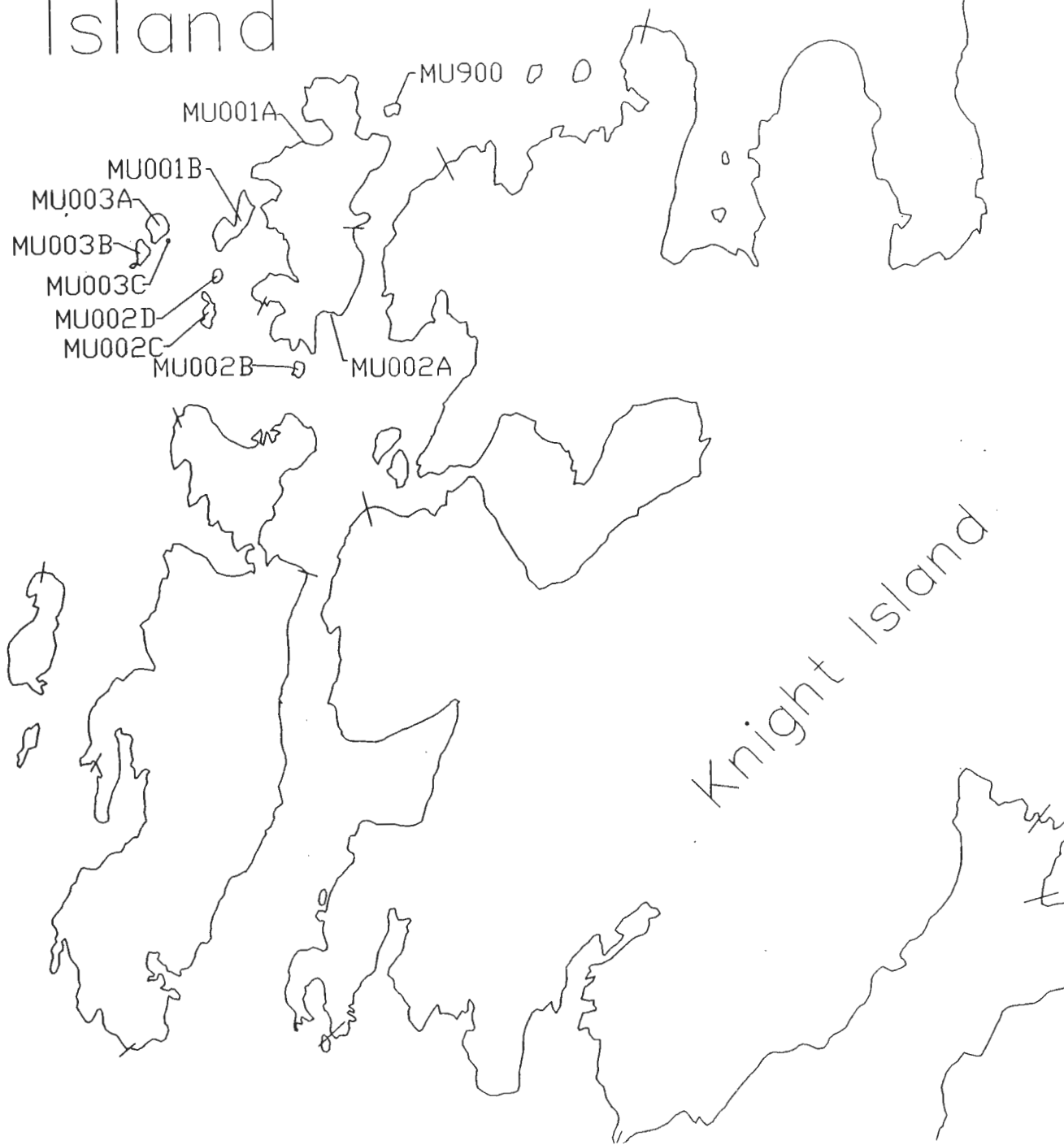
SECTION CONTENTS — MUMMY ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
MU001A	ISLAND W OF KNIGHT I.
MU001B	ISLAND W OF KNOGHT I.
MU002A	ISLAND W OF KNIGHT I.
MU002B	ISLAND W OF KNIGHT I.
MU002C	ISLAND W OF KNIGHT I.
MU002D	ISLAND W OF KNIGHT I.
MU003 A,B,C	ISLAND W OF KNIGHT I.

Printed: 12/12/89

Mummy Island

Drier Bay



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MU001A
LOCATION: ISLAND W OF KNIGHT I.

DATE: 09/28/89
TIME: 8:40

Survey Type: Boat, Ground
Team: J. DeRuyter, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S,M
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: MU001A-1 / MU001A-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; Trash
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MU001B
 LOCATION: ISLAND W OF KNOGHT I.

DATE: 09/28/89
 TIME: 10:00

Survey Type: Boat, Ground
 Team: G. Pavia, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny, Fog Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
 Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 6 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 50%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=algal, ST=stain)

Samples: MU001B-1 / MN001B-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; boom, cleanup debris, signs
 Bags Collected: 1

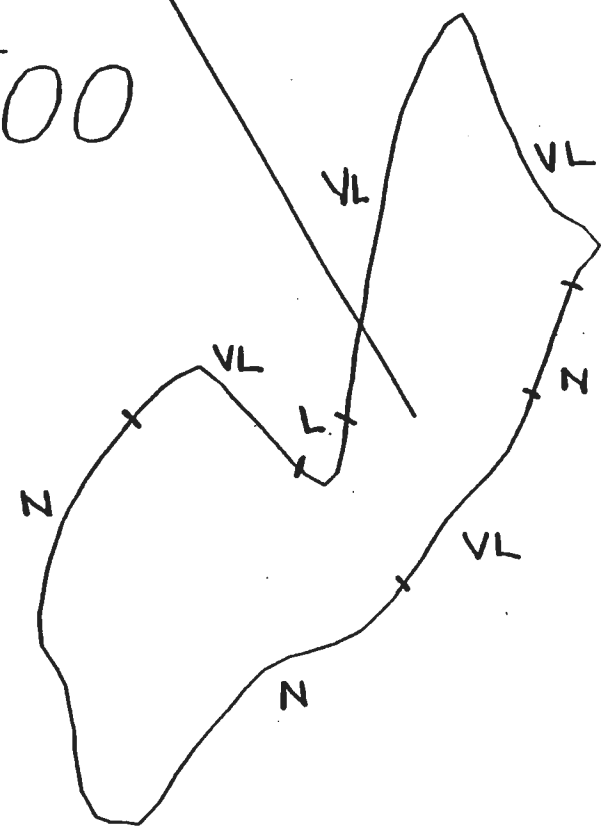
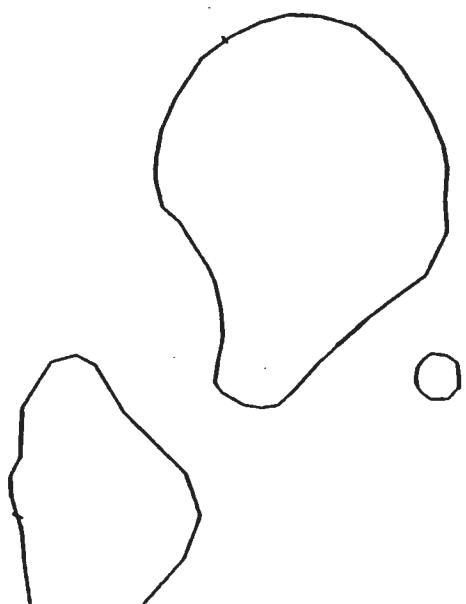
M U O O 1 B

0 meters 500

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MU002A
LOCATION: ISLAND W OF KNIGHT I.

DATE: 09/28/89
TIME: 8:50

Survey Type: Boat, Ground
Team: G. Pavia, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy, Fog Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 3 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 85%
Presence of Oiled Driftwood (y/n): y
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: MU002A-1 / MU002A-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 1

SOLID WASTE FOUND

Type: One locality; boom, cleanup debris, garbage
Bags Collected: 1

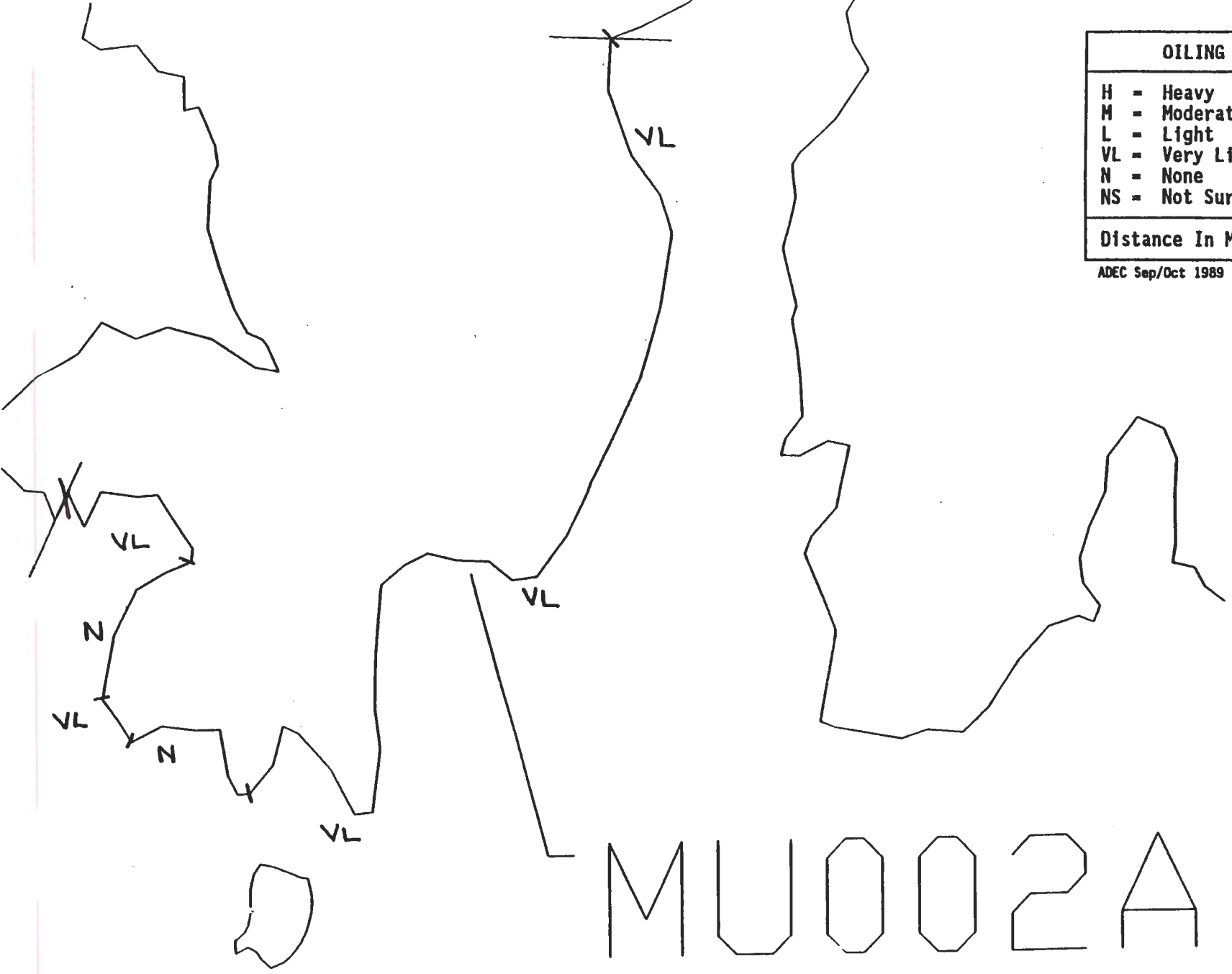
Draft

Printed: 12/12/89 11:50

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



MU0002A



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MU002B
LOCATION: ISLAND W OF KNIGHT I.

DATE: 09/28/89
TIME: 10:42

Survey Type: Boat, Ground
Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Fog Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

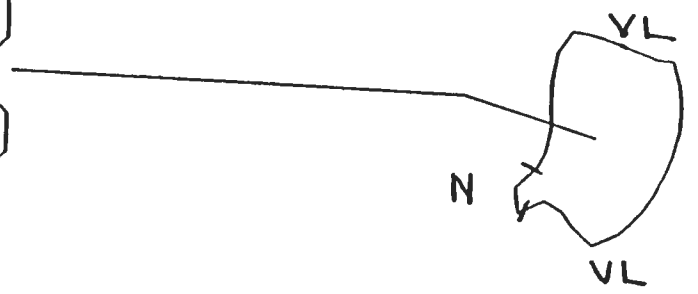
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; boom, cleanup debris

Bags Collected: 0

M U 0 0 2 B



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MU002C
LOCATION: ISLAND W OF KNIGHT I.

DATE: 09/28/89
TIME: 10:42

Survey Type: Boat, Ground
Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Fog Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

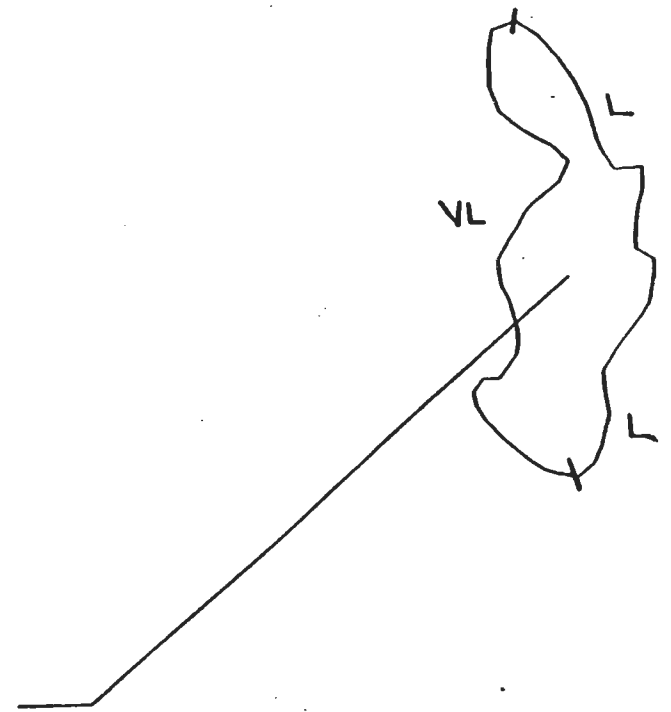
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; boom, cleanup debris
Bags Collected: 0

MU002C

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MJ002D
LOCATION: ISLAND W OF KNIGHT I.

DATE: 09/28/89
TIME: 10:42

Survey Type: Boat, Ground
Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

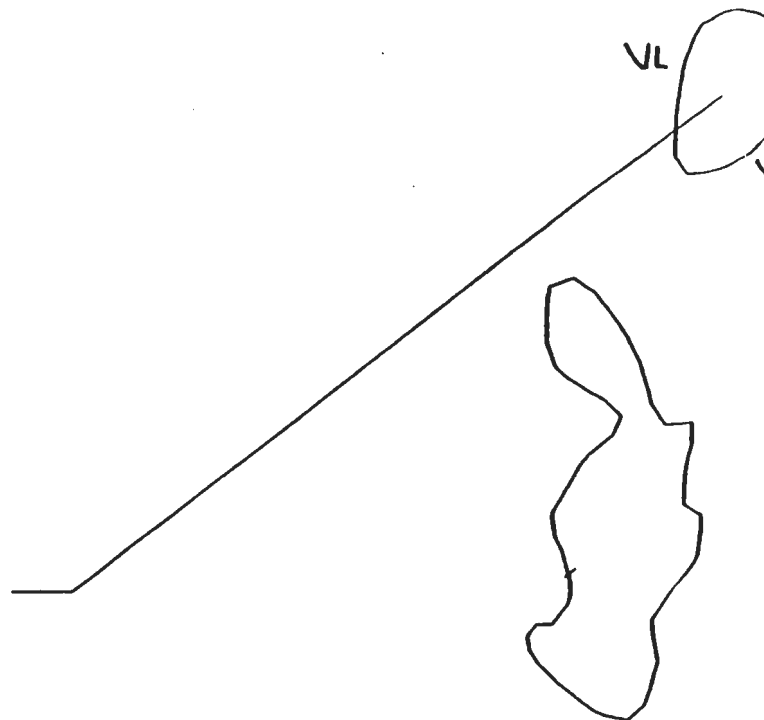
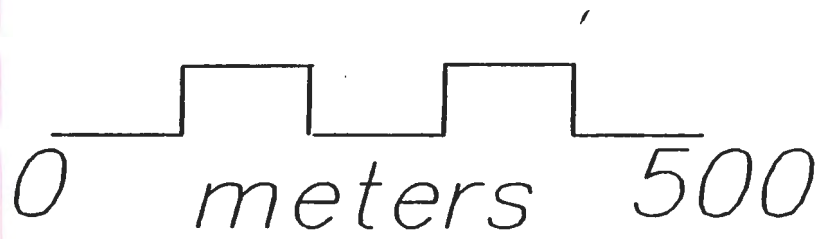
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; Boom, cleanup debris
Bags Collected: 0

MU002D



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MU003 A,B,C
LOCATION: ISLAND W OF KNIGHT I.

DATE: 09/28/89
TIME: 9:45

Survey Type: Boat, Ground
Team: B. McCreedy, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Fog Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: MU003A-1 / MU003A-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

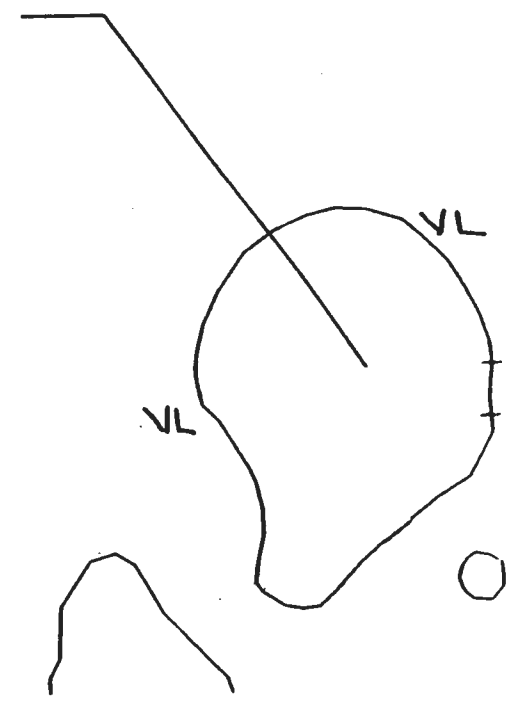
SOLID WASTE FOUND

Type: None

Bags Collected: 0

MU0003A

0 meters 500

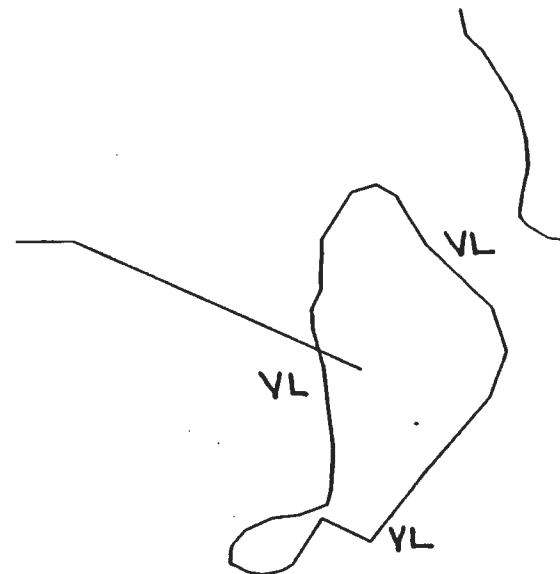


OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



M U O O 3 B

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



M U O O 3 C

0 meters 500

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



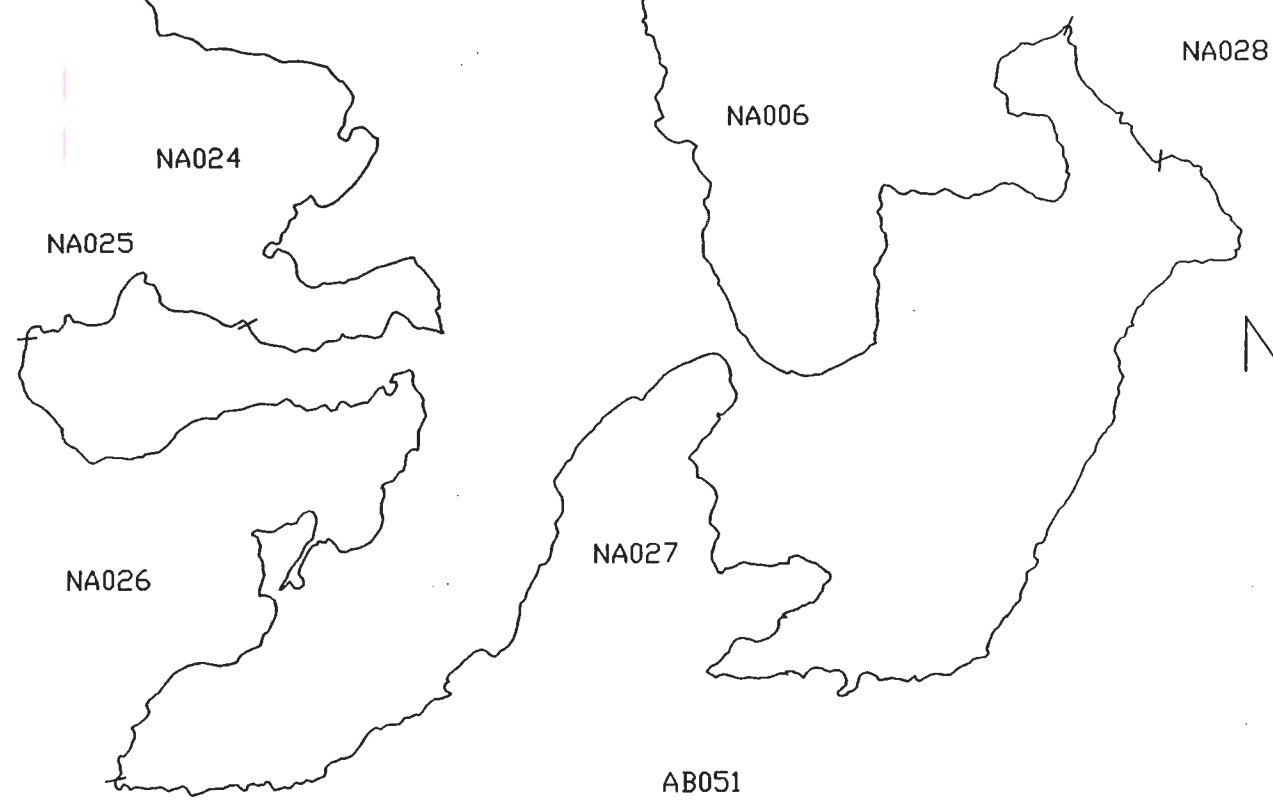
SECTION CONTENTS — NAKED ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
NA005	N NAKED ISLAND
NA006-1	McPHERSON BAY, NAKED I.
NA006-2	McPHERSON BAY, NAKED I.
NA020	N NAKED ISLAND
NA021	N NAKED ISLAND
NA022	N NAKED ISLAND
NA023	N NAKED ISLAND
NA024	CABIN BAY, NAKED ISLAND
NA026	SW NAKED ISLAND
NA027	S NAKED ISLAND
NA028	NE NAKED ISLAND

Printed: 12/12/89



Island.



Naked Island

AB051



Agnes Island

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA005
 LOCATION: N NAKED ISLAND

DATE: 09/26/89
 TIME: 17:10

Survey Type: Boat, Ground
 Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
 Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 12 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: NA005-1 / NA005-2 / none / none

DAMAGED OR OILED ORGANISMS

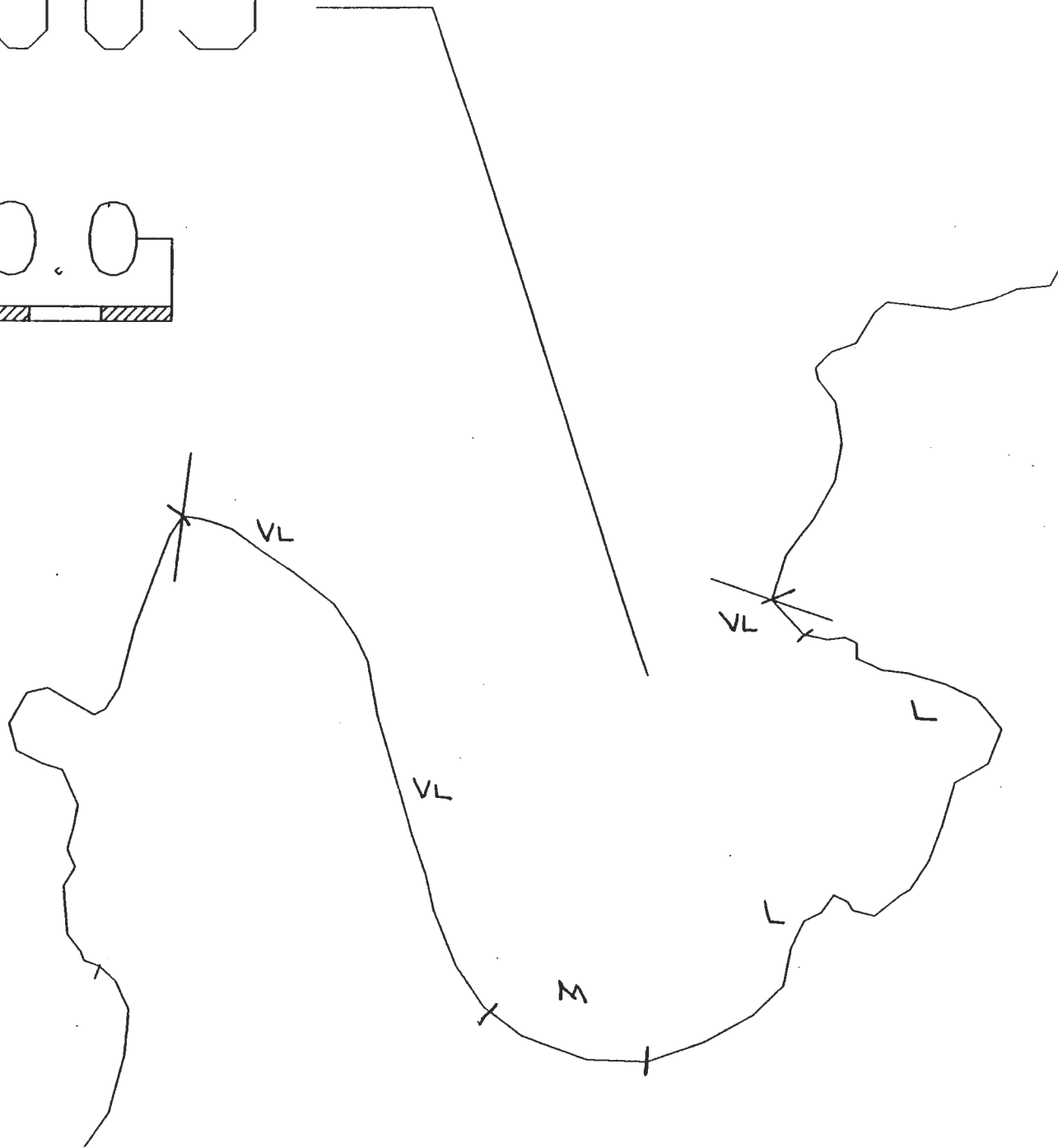
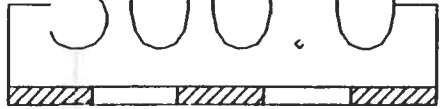
Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

NA0005

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA006-1 DATE: 09/26/89
 LOCATION: McPHERSON BAY, NAKED I. TIME: 7:40

Survey Type: Boat, Ground
 Team: L.Gresehover, P.Endres, B.McCready, K.Dutcher, J. Krieger

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
 Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 10 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

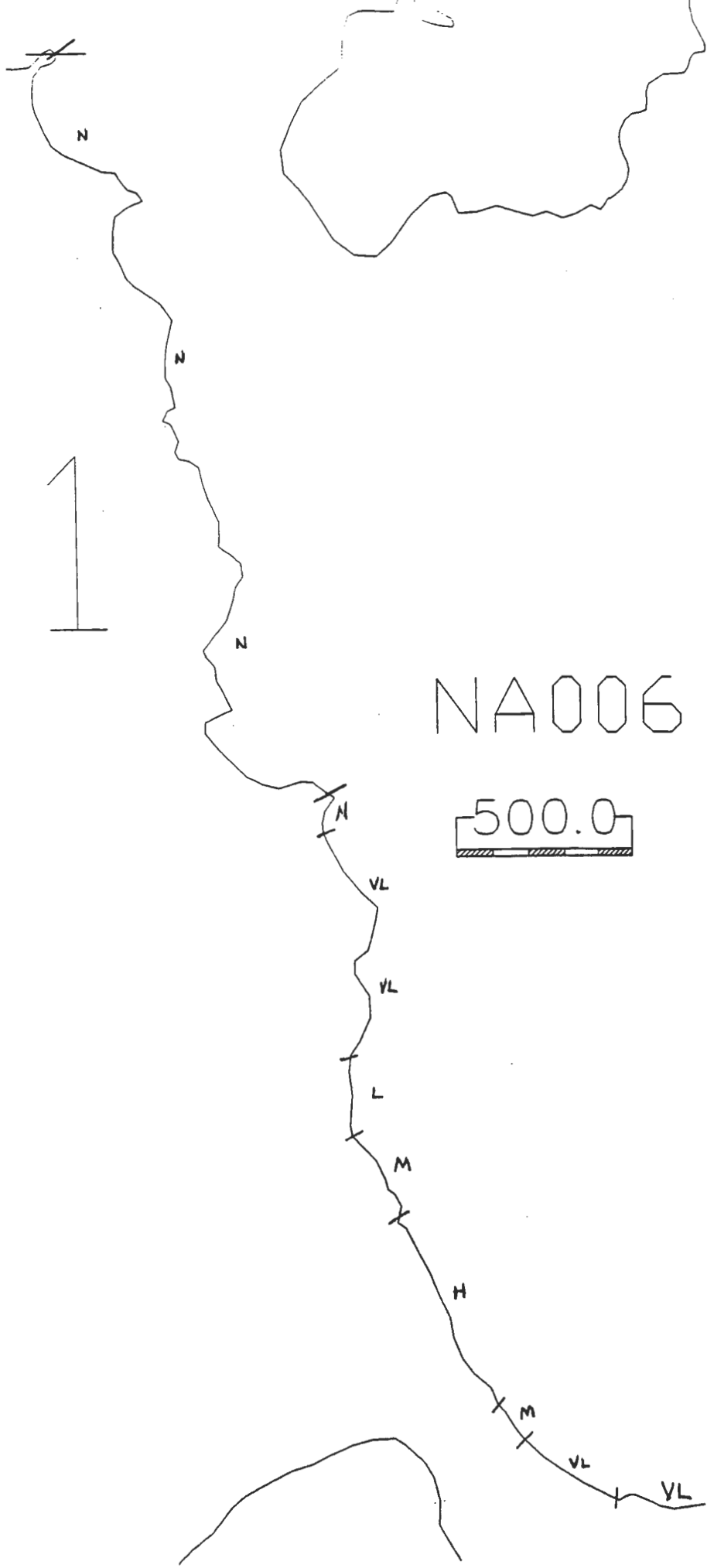
Percent Segment Categorized as Oiled: 45%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: SY,T,A
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris
 Bags Collected: 0



NA006

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA006-2 DATE: 09/26/89
LOCATION: McPHERSON BAY, NAKED I. TIME: 8:15

Survey Type: Boat, Ground
Team: J.DeRuyter, H.Wood, D.Gardner, K.Dutcher, J.Krieger

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretupes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: NA006-1 / NA006-2 / none / none

DAMAGED OR OILED ORGANISMS

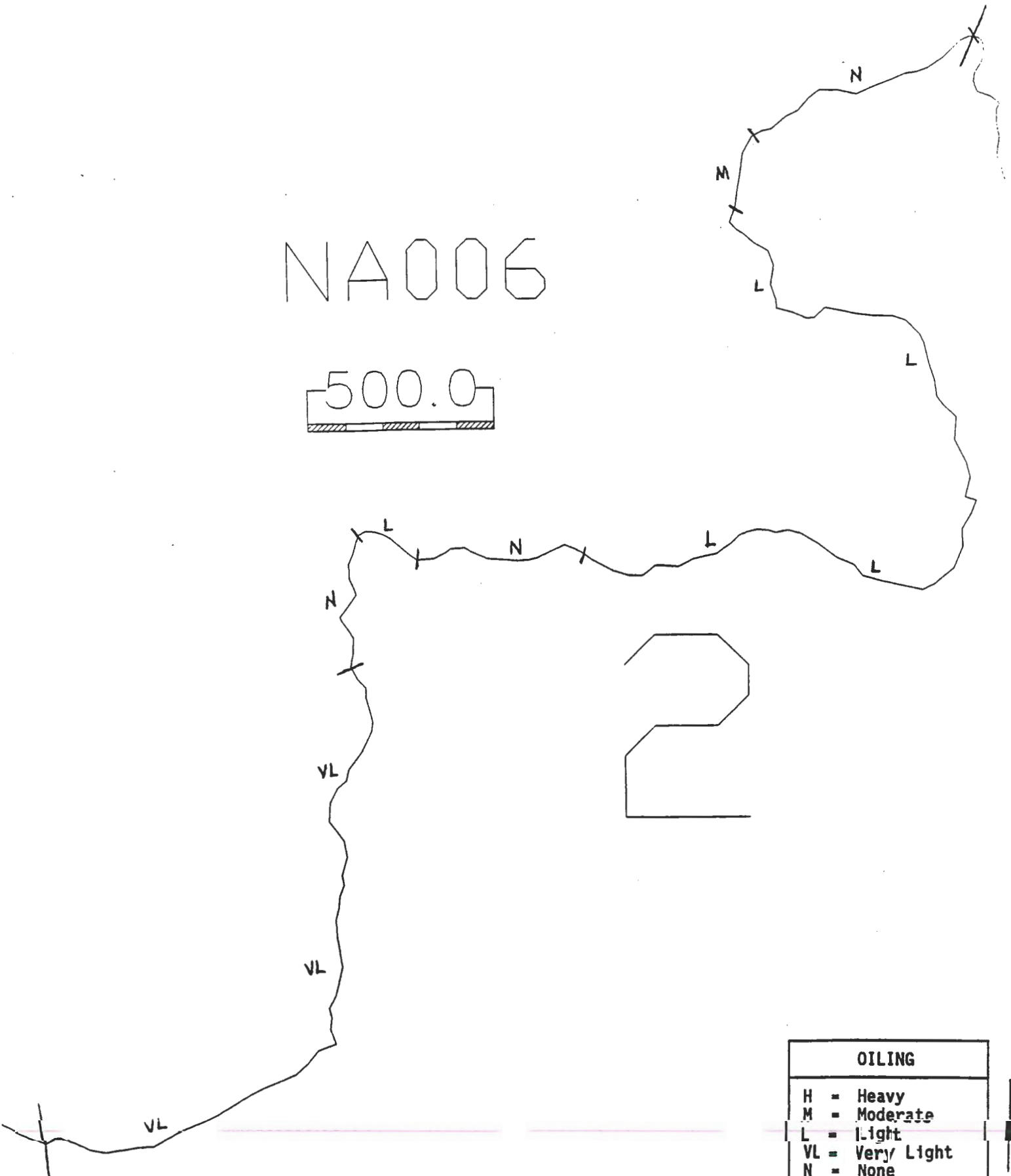
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

NA006

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA020
LOCATION: N NAKED ISLAND

DATE: 09/26/89
TIME: 17:10

Survey Type: Boat, Ground
Team: J. DeRuyter, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 5%

Presence of Oiled Driftwood (y/n): n

Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: NA020-1 / NA020-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, boom
Bags Collected: 1

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA021
LOCATION: N NAKED ISLAND

DATE: 09/26/89
TIME: 18:15

Survey Type: Boat, Ground
Team: J. DeRuyter, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 4 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: NA021-1 / NA021-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

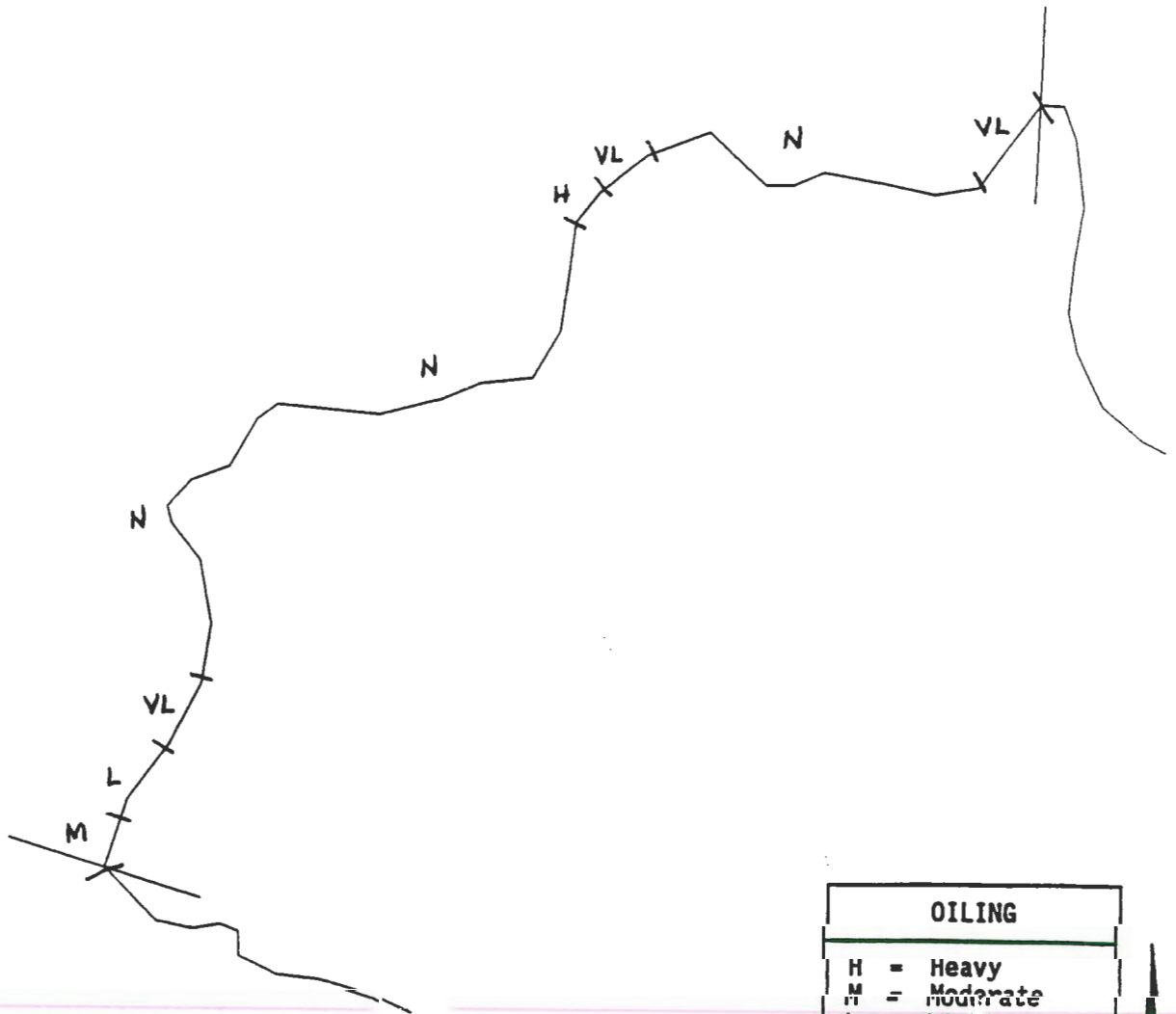
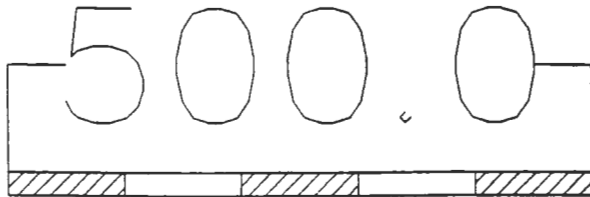
SOLID WASTE FOUND

Type: One locality
Bags Collected: 0

Draft

Printed: 12/12/89 11:51

N A 0 2 1



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA022
LOCATION: N NAKED ISLAND

DATE: 09/26/89
TIME: 18:10

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 30%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: NA022-1 / NA022-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

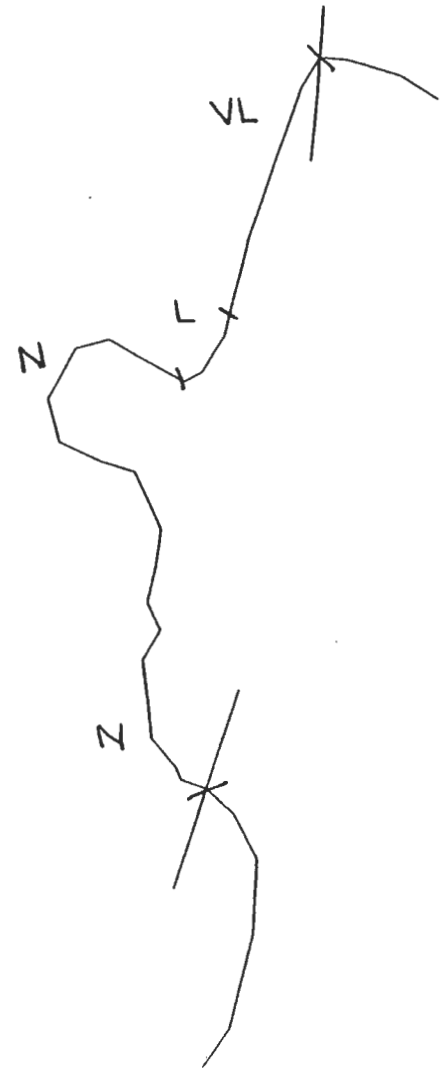
N A 0 2 2

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA023
LOCATION: N NAKED ISLAND

DATE: 09/26/89
TIME: 18:41

Survey Type: Boat, Ground
Team: L. Gresehover, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 18:24 Feet: 3.01 High Tide: -0- Feet: -0-
Low Tide: 6:07 Feet: 1.1 High Tide: 12:33 Feet: 11.1

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 12 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: NA023-1 / NA023-2 / none / none

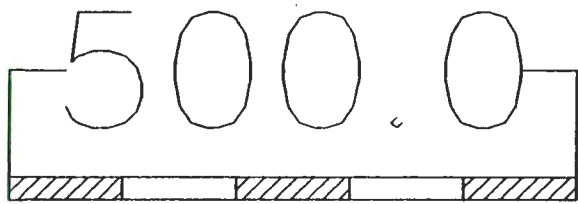
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

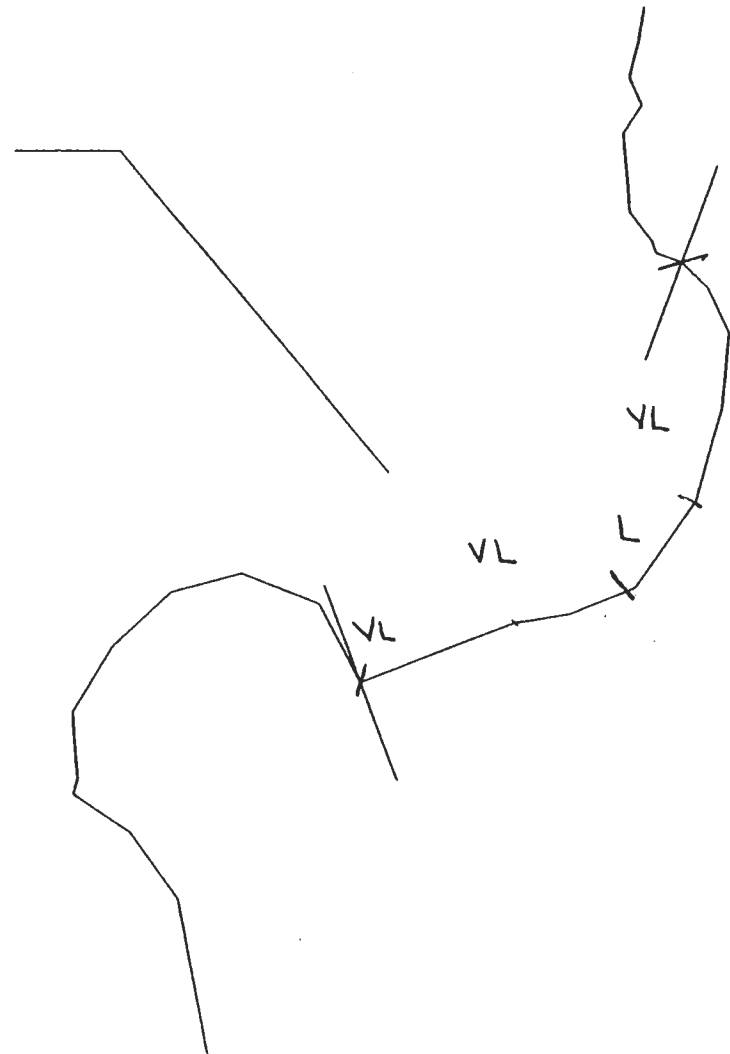
NA023



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA026
LOCATION: SW NAKED ISLAND

DATE: 09/24/89
TIME: 16:05

Survey Type: Boat, Ground
Team: D. Gardner, J. DeRuyter, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 16:25 Feet: 5.57 High Tide: 22:32 Feet: 10.9
Low Tide: 4:06 Feet: 2.1 High Tide: 11:03 Feet: 9.75

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 20%

Presence of Oiled Driftwood (y/n): n

Oil Types: T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: NA026-1 / NA026-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, paint marks, cleanup debris

Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA027
LOCATION: S NAKED ISLAND

DATE: 09/25/89
TIME: 21:00

Survey Type: Boat, Ground
Team: P. Endres, D. Gardner, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 17:38 Feet: 4.32 High Tide: 23:34 Feet: 11.3
Low Tide: 5:19 Feet: 1.65 High Tide: 11:54 Feet: 10.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

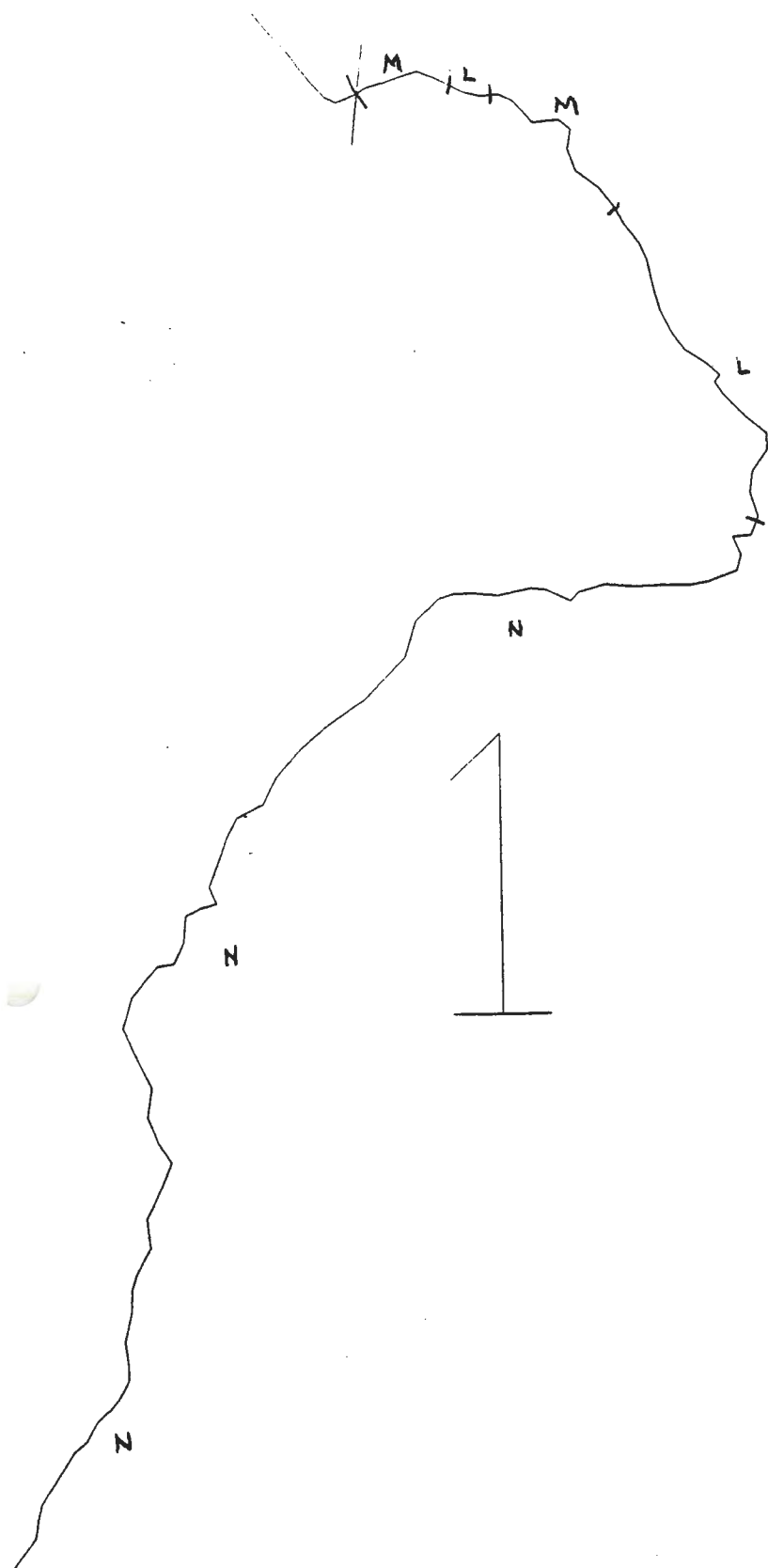
Percent Segment Categorized as Oiled: 5%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality
Bags Collected: 0

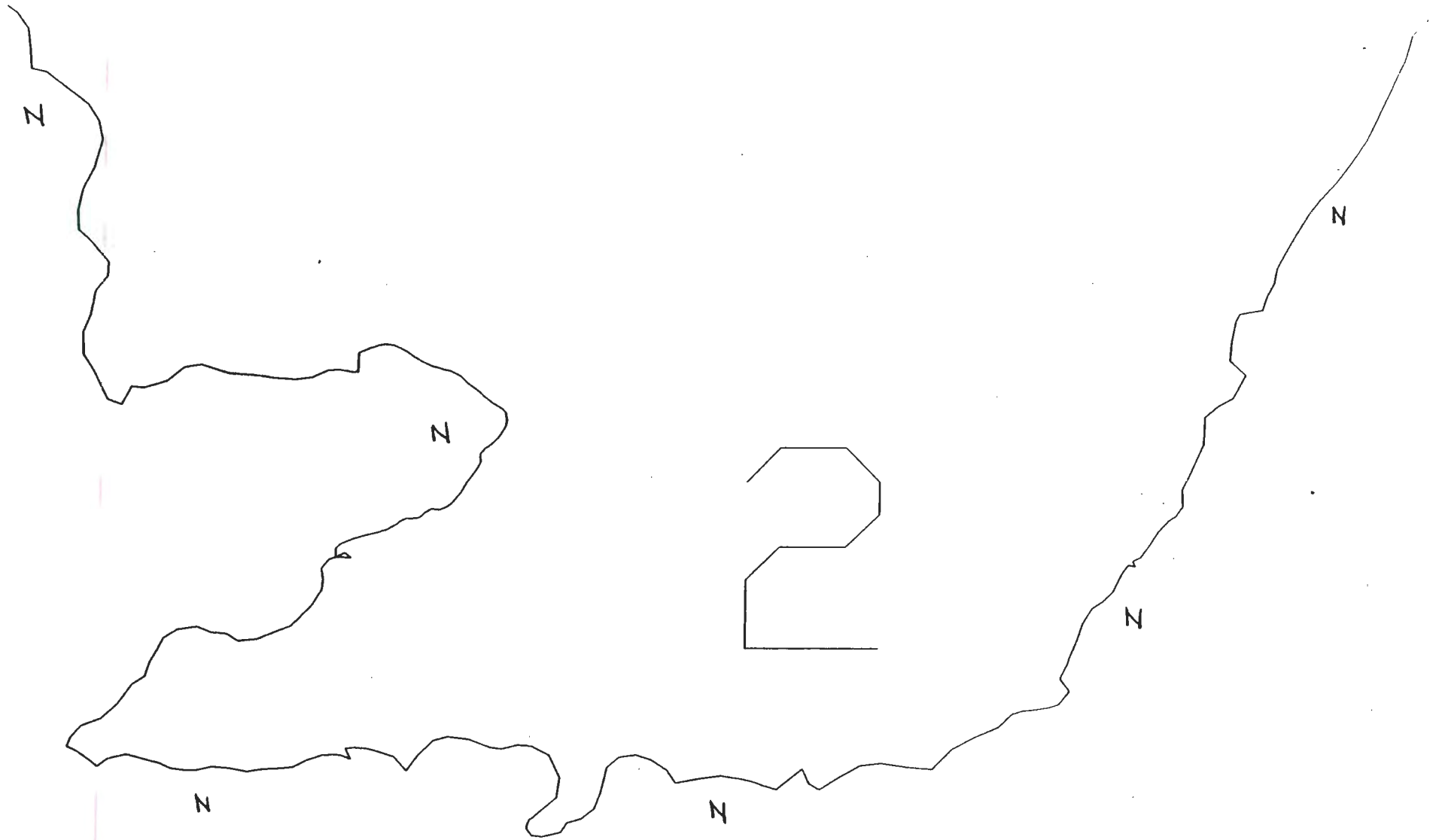


NA027



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	



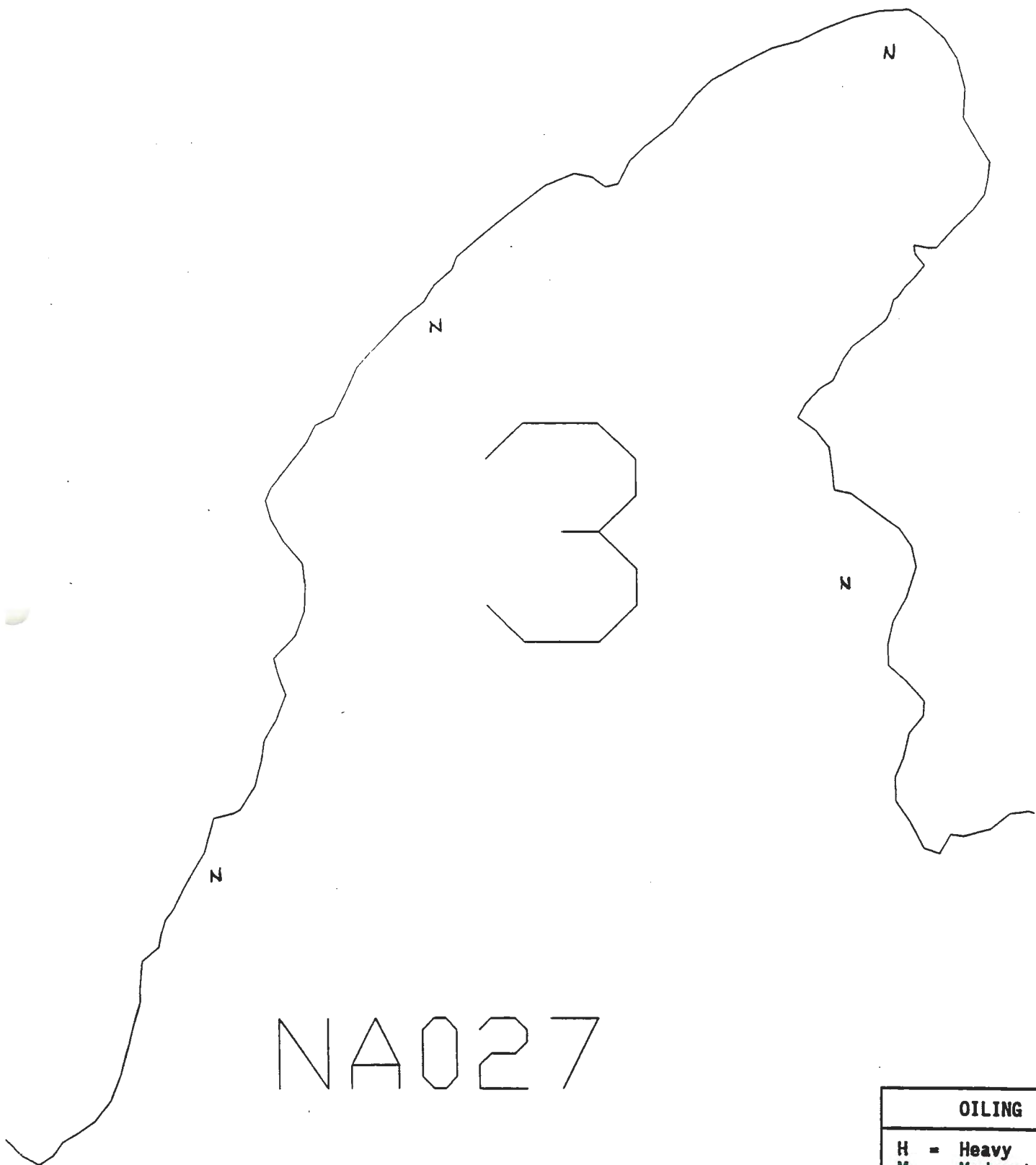


NA027



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	





NA027



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	





NA027

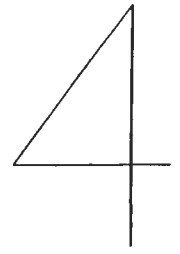
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Z

Z

Z

N



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NA028
LOCATION: NE NAKED ISLAND

DATE: 09/25/89
TIME: -0-

Survey Type: Boat, Ground
Team: D.Gardner, J.DeRuyter, L.Gresehover, P.Endres, K.Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 17:38 Feet: 4.32 High Tide: 23:34 Feet: 11.3
Low Tide: 5:19 Feet: 1.65 High Tide: 11:54 Feet: 10.5

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

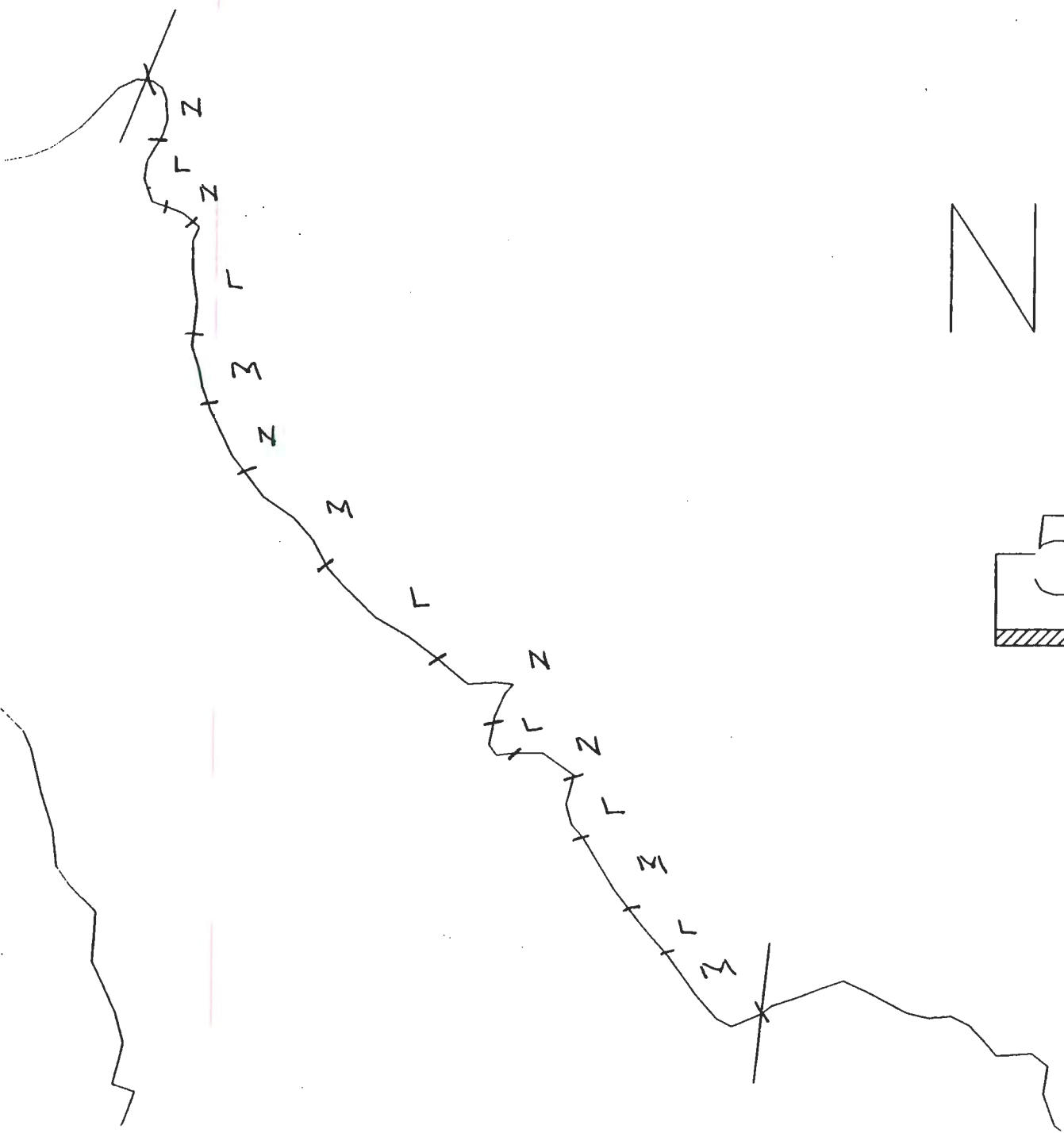
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

NA028

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



SECTION CONTENTS — NEW YEARS ISLAND

SEGMENT#

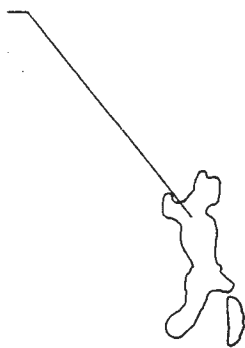
LOCATION

NY001

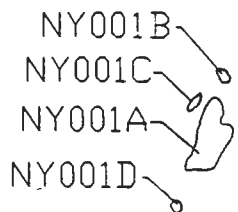
ISLANDS W OF KNIGHT I.

Printed: 12/12/89

Squirrel Island



New Year
Islands



Drier Bay

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: NY001 DATE: 09/28/89
LOCATION: ISLANDS W OF KNIGHT I. TIME: 18:15

Survey Type: Boat, Ground
Team: B. McCready, G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: NY001a-1 / NY001A-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

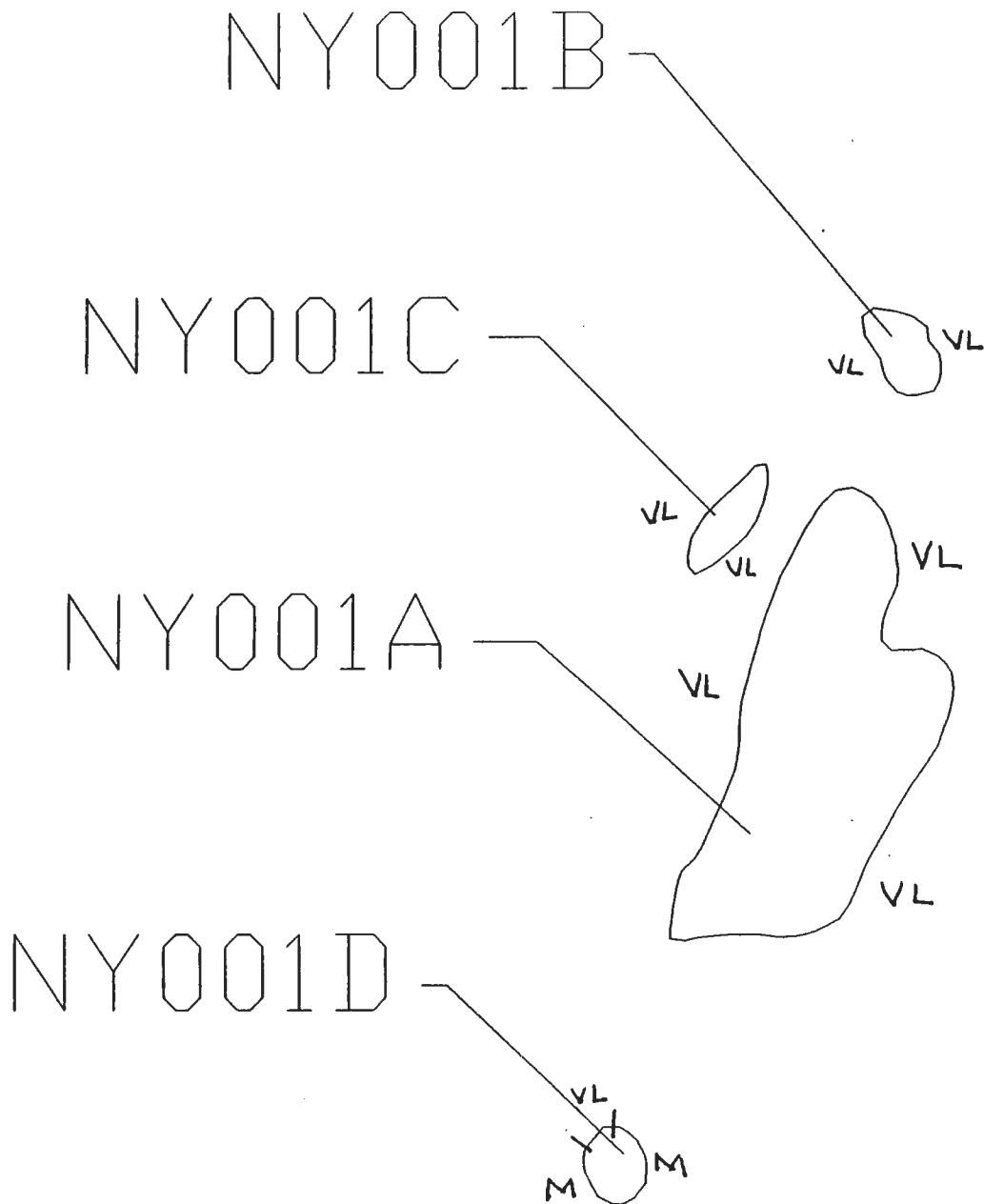
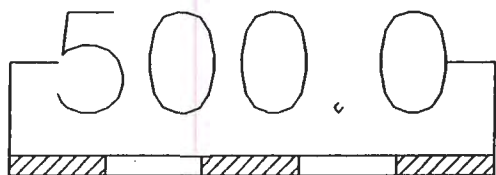
Type: Few localities
Bags Collected: 0

New Year Islands

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

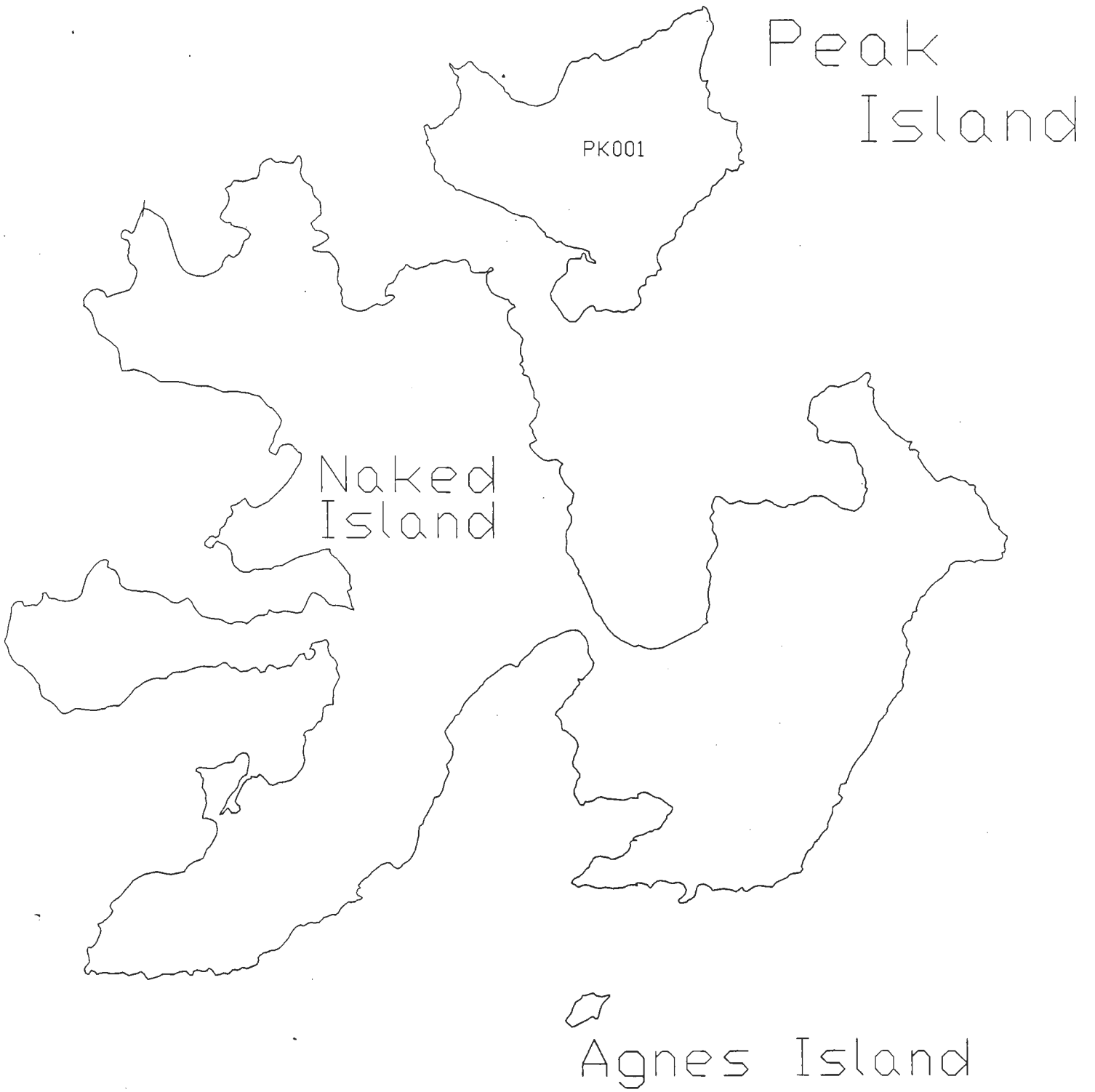
ADEC Sep/Oct 1989 Survey



SECTION CONTENTS — PEAK ISLAND

SEGMENT#	LOCATION
PK001	PEAK ISLAND

Printed: 12/12/89



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PK001
LOCATION: PEAK ISLAND

DATE: 10/29/89
TIME: 12:50

Survey Type: Ground, Helicopter
Team: C. Robinson, J. Kitagawa, T. Osborn

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 19:15 Feet: -0.7 High Tide: 1:00 Feet: 11.1
Low Tide: 6:41 Feet: 2.56 High Tide: 12:39 Feet: 13.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL (some areas not surveyed)
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 1 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 1%

Presence of Oiled Driftwood (y/n): n

Oil Types: ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, garbage
Bags Collected: 0

Draft

Printed: 12/12/89 11:52



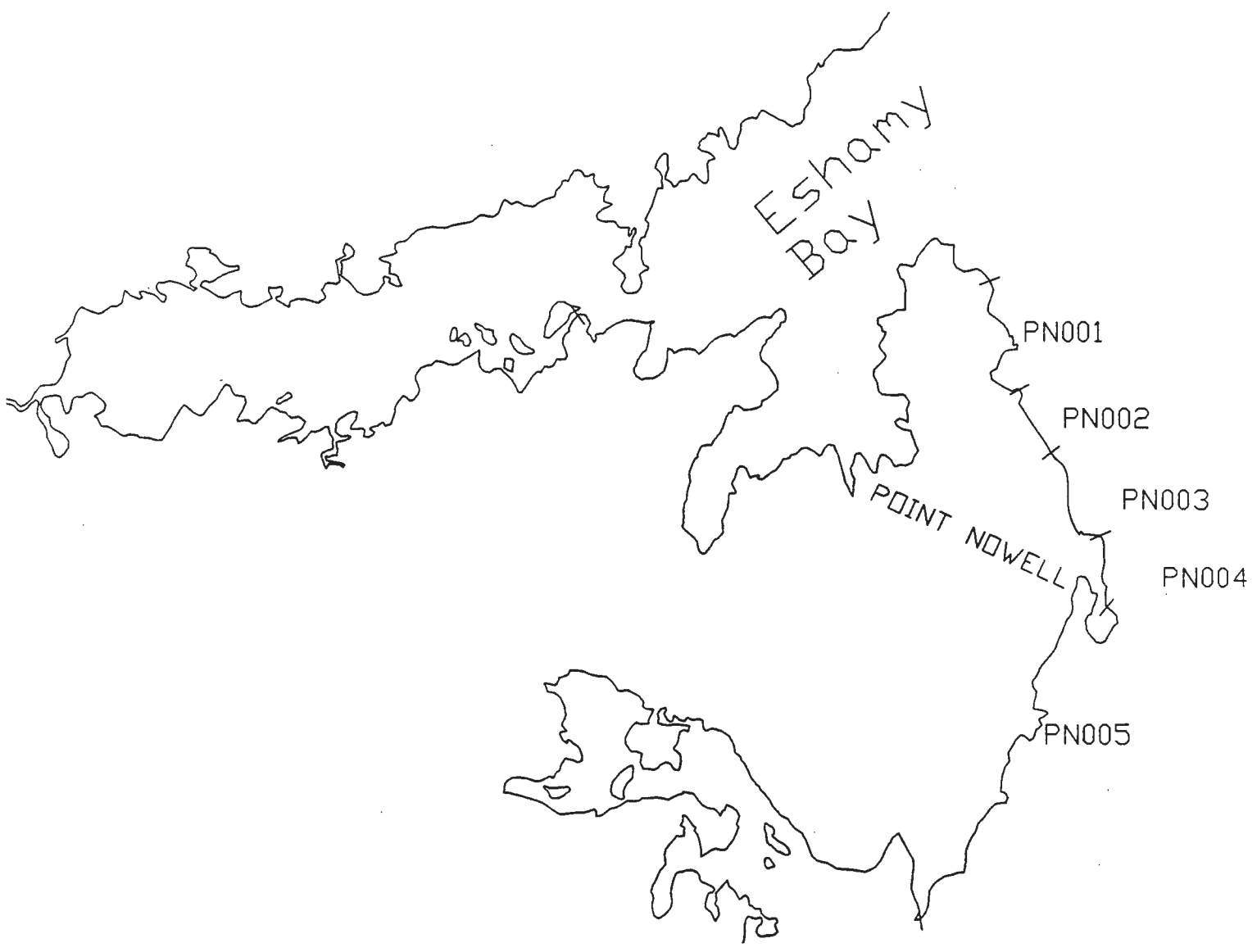
OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



SECTION CONTENTS — POINT NEWELL

<u>SEGMENT#</u>	<u>LOCATION</u>
PN001	POINT NEWELL
PN002	POINT NOWELL
PN003	POINT NOWELL
PN004	POINT NOWELL
PN005	POINT NOWELL

Printed: 12/12/89



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PN001
 LOCATION: POINT NEWELL

DATE: 09/11/89
 TIME: 18:50

Survey Type: Ground
 Team: J. DeRuyter, J. Ebel

WEATHER AND SEA CONDITIONS

Weather: Cloudy
 Sea State: Calm

Wind Direction: 0
 Knots: 0

Low Tide: 5:12 Feet: 1.87 High Tide: 11:46 Feet: 9.02
 Low Tide: 17:07 Feet: 5.31 High Tide: 23:07 Feet: 11.3

SHORELINE DESCRIPTION

Shoretypes: H
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

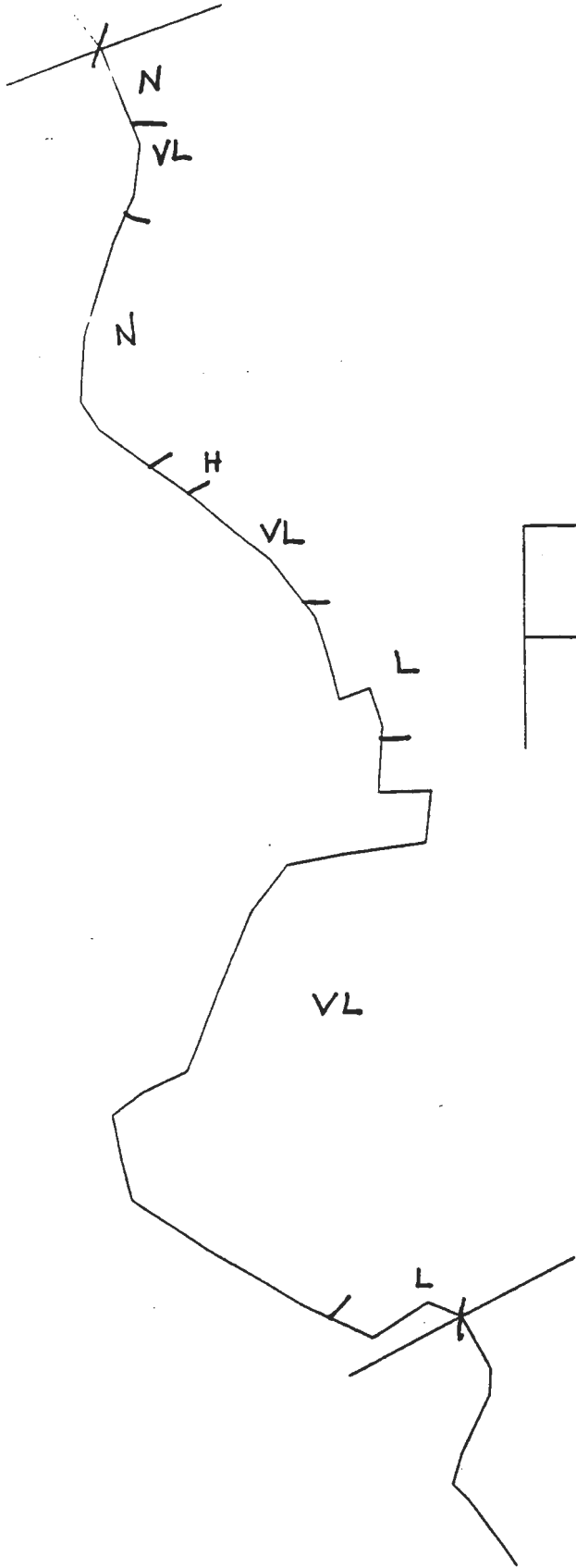
Percent Segment Categorized as Oiled: 40%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: PN001-1 / PN001-2 / none / none

DAMAGED OR OILED ORGANISMS

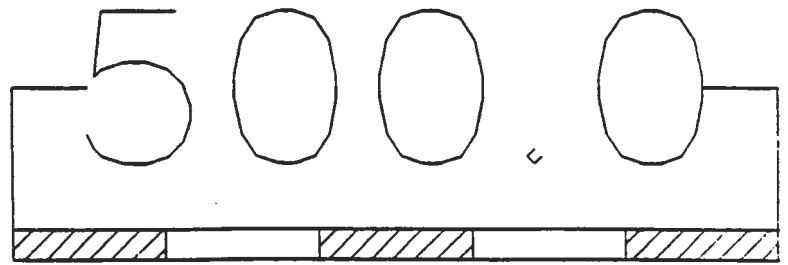
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0



P N 0 0 0 1



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PN002
LOCATION: POINT NOWELL

DATE: 09/11/89
TIME: 18:03

Survey Type: Ground
Team: J. DeRuyter, J. Ebel

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 5:12 Feet: 1.87 High Tide: 11:46 Feet: 9.02
Low Tide: 17:07 Feet: 5.31 High Tide: 23:07 Feet: 11.3

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 30%

Presence of Oiled Driftwood (y/n): n

Oil Types: A,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: PN002-1 / PN002-2 / none / none

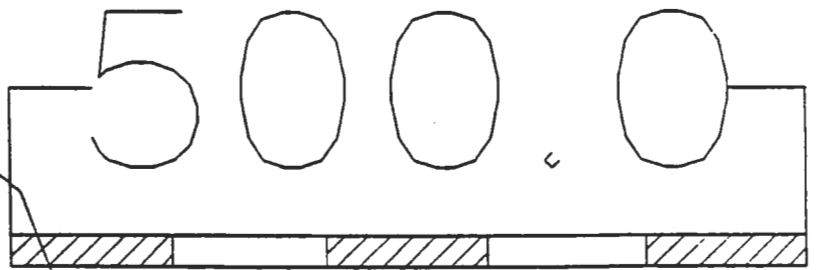
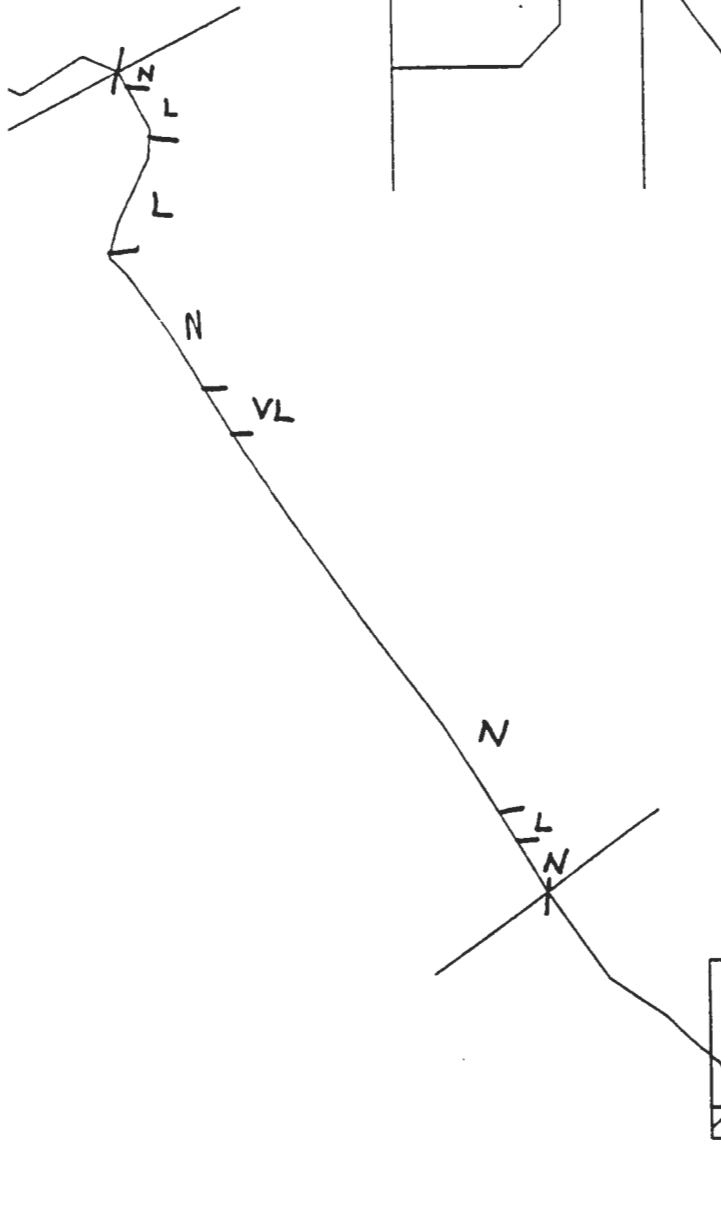
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, cleanup debris
Bags Collected: 0

P N 0 0 0 2



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PN003
LOCATION: POINT NOWELL

DATE: 09/11/89
TIME: 16:58

Survey Type: Ground
Team: J. DeRuyter, J. Ebel

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 5:12 Feet: 1.87 High Tide: 11:46 Feet: 9.02
Low Tide: 17:07 Feet: 5.31 High Tide: 23:07 Feet: 11.3

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 10%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

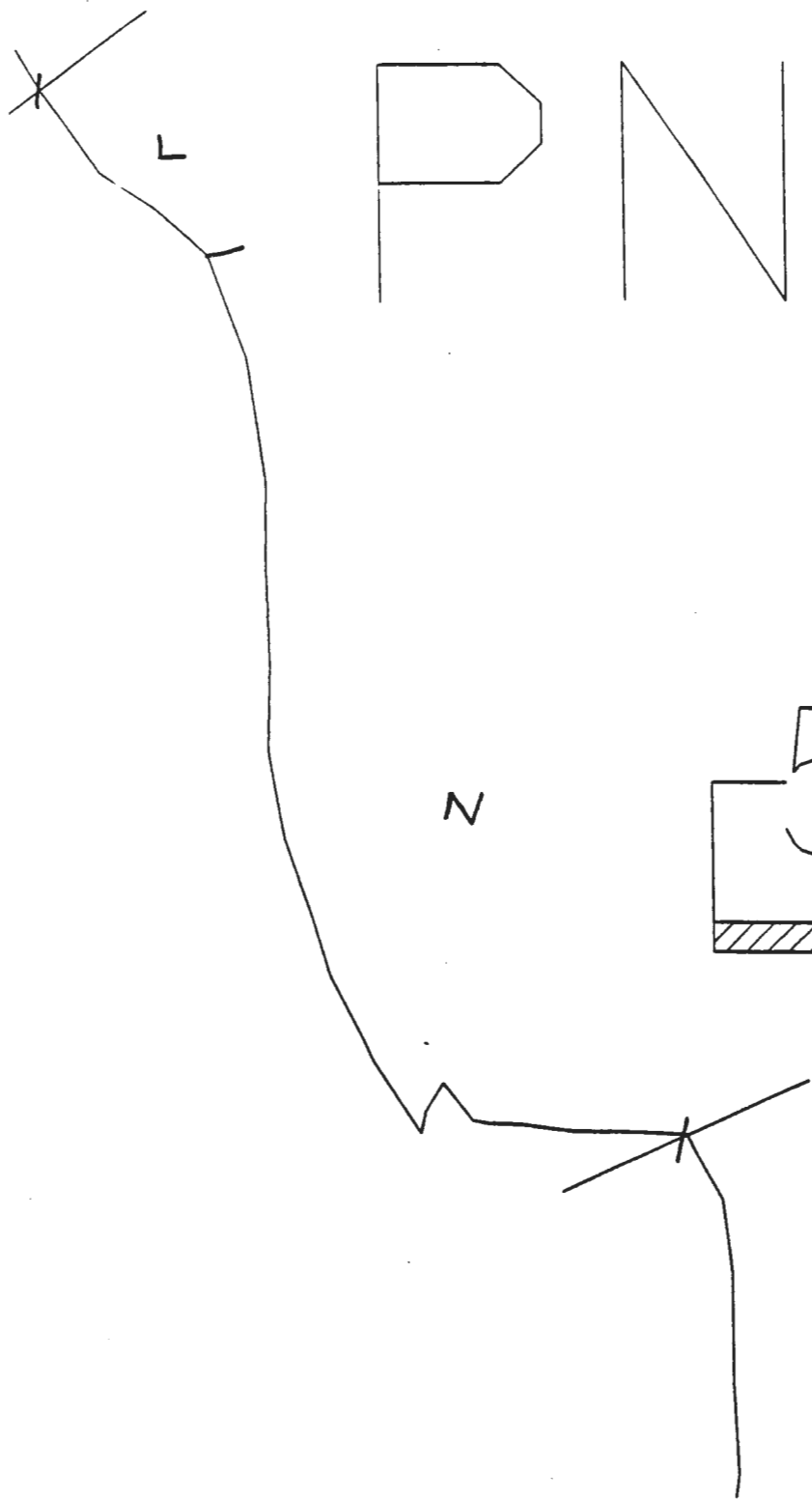
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

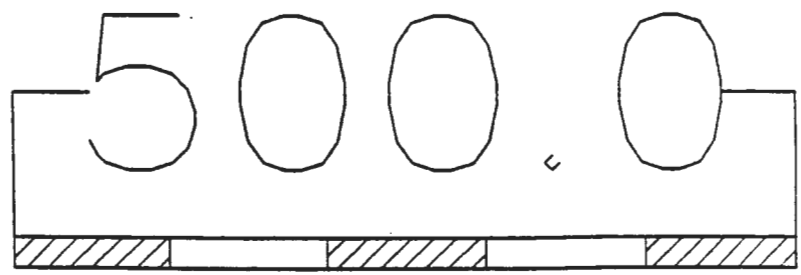
SOLID WASTE FOUND

Type: None

Bags Collected: 0



R N O O 3



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PN004
LOCATION: POINT NOWELL

DATE: 09/11/89
TIME: 15:33

Survey Type: Ground
Team: J. DeRuyter, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 5:12 Feet: 1.87 High Tide: 11:46 Feet: 9.02
Low Tide: 17:07 Feet: 5.31 High Tide: 23:07 Feet: 11.3

SHORELINE DESCRIPTION

Shoretypes: H,LR
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,A

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: PN004-1 / PN004-2 / none / none

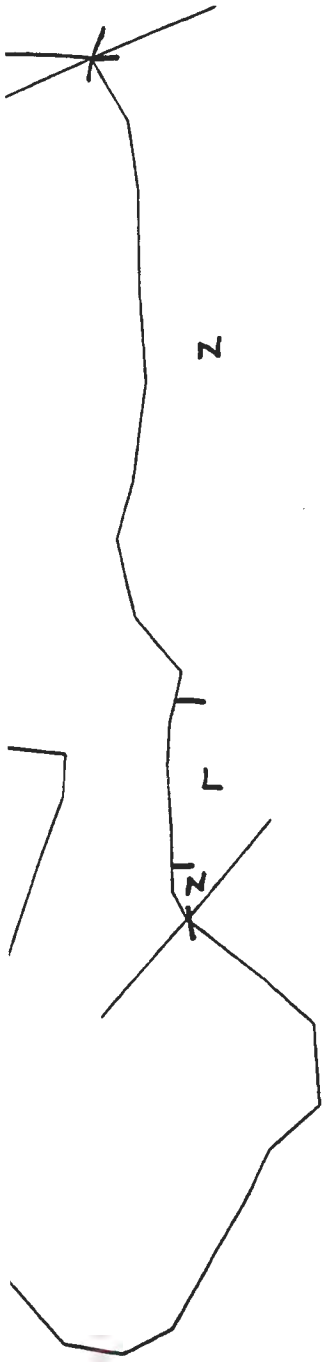
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



P N 0 0 4

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PN005
LOCATION: POINT NOWELL

DATE: 09/11/89
TIME: 15:35

Survey Type: Boat, Ground
Team: C. Robinson, L. Gresehover, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 5:12 Feet: 1.87 High Tide: 11:46 Feet: 9.02
Low Tide: 17:07 Feet: 5.31 High Tide: 23:07 Feet: 11.3

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris
Bags Collected: 0

Draft

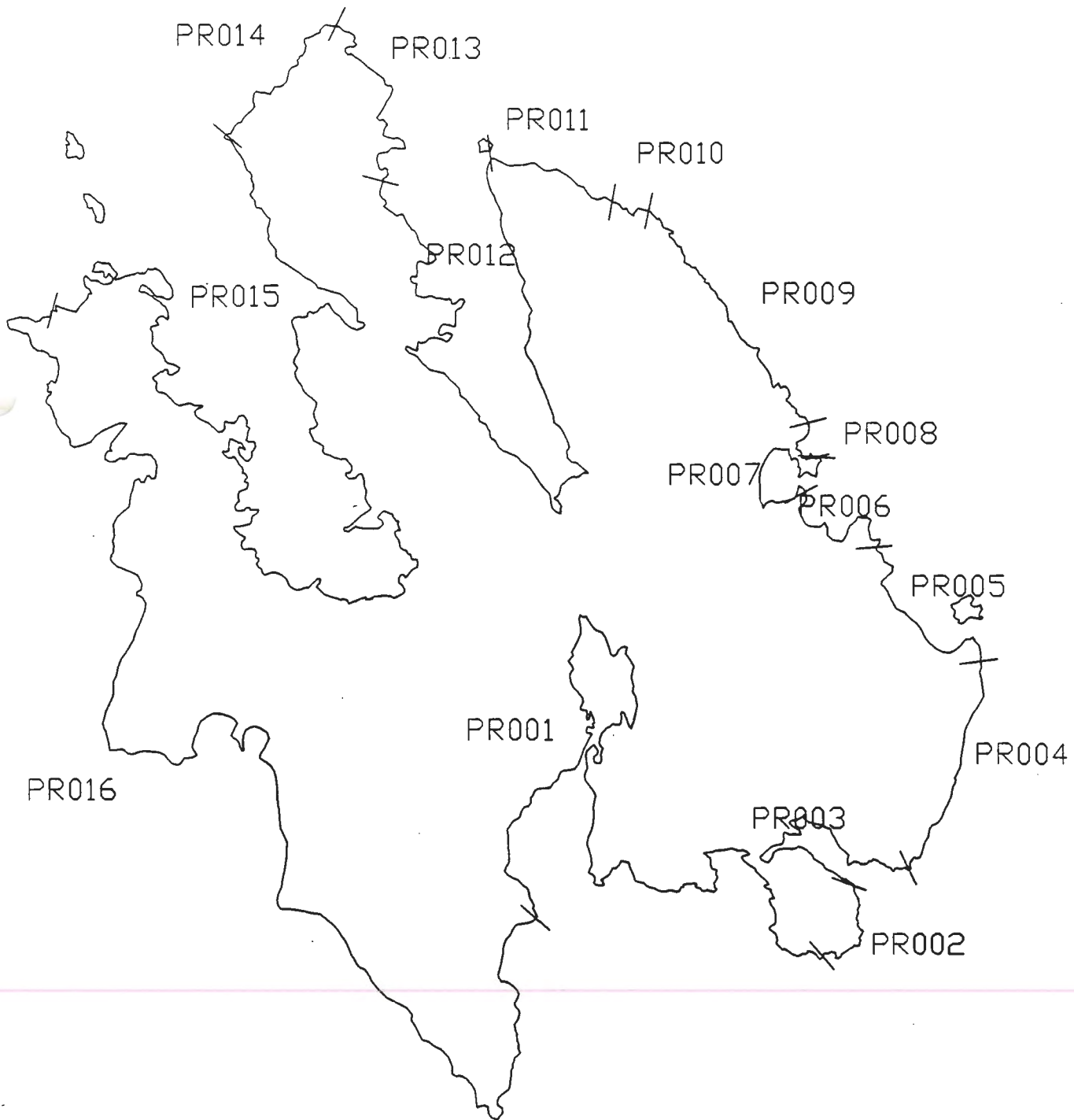
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SECTION CONTENTS — PERRY ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
PR002	SE PERRY ISLAND
PR003	SE PERRY ISLAND
PR004	NE PERRY ISLAND
PR005	NE PERRY ISLAND
PR006	NE PERRY ISLAND
PR007	NE PERRY ISLAND
PR008	NE PERRY ISLAND
PR009	N PERRY ISLAND
PR016	SE PERRY ISLAND

Printed: 12/12/89

Perry Island



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR002
LOCATION: SE PERRY ISLAND

DATE: 09/13/89
TIME: 8:15

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, G. Winter, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,B,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 30%

Presence of Oiled Driftwood (y/n): n

Oil Types: T

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: PR002-1 / PR002-2 / none / none

DAMAGED OR OILED ORGANISMS

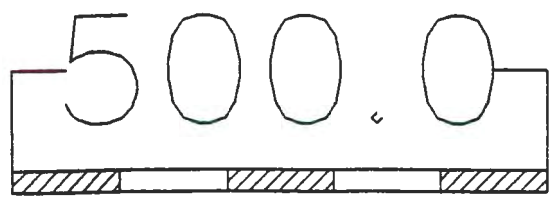
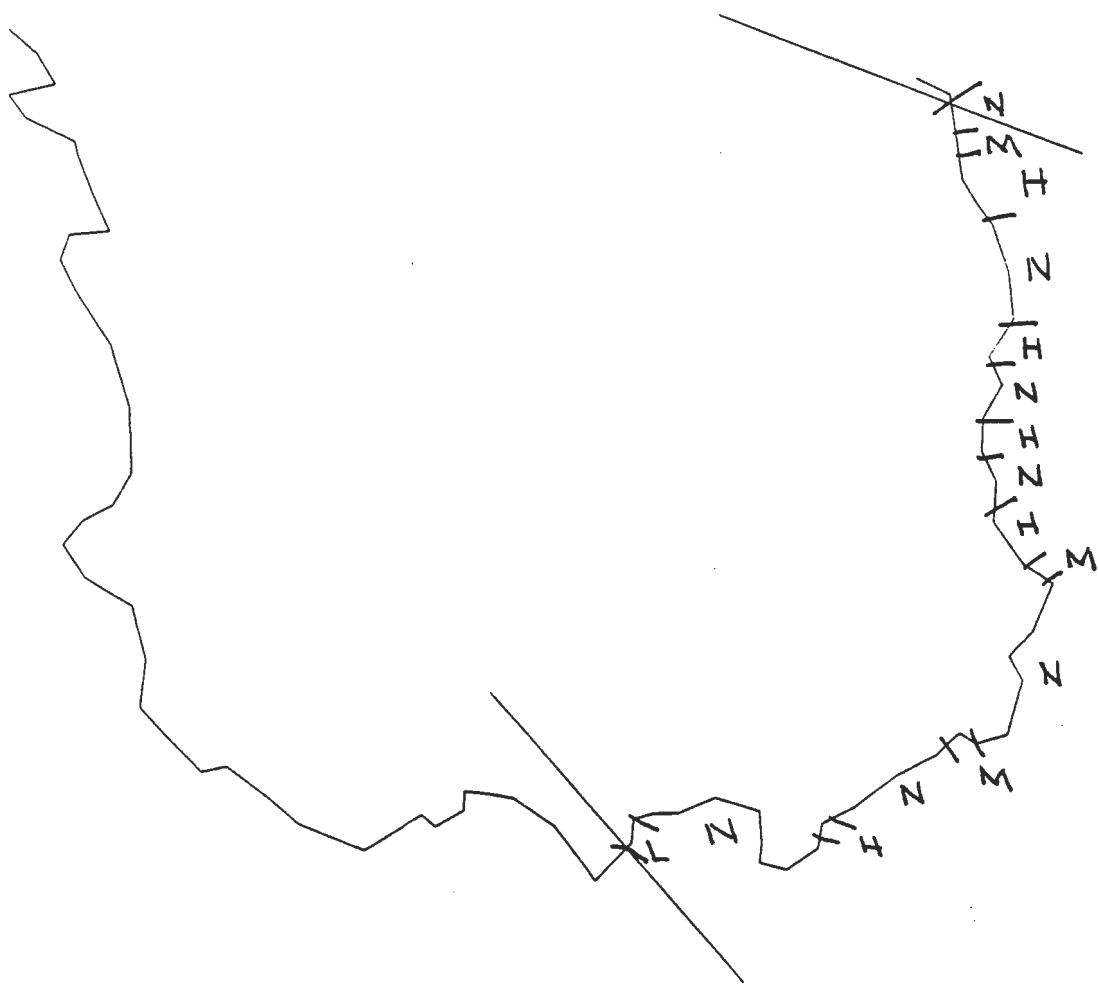
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, cleanup debris
Bags Collected: 1

PROO02



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR003
LOCATION: SE PERRY ISLAND

DATE: 09/12/89
TIME: 17:05

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: PR003-1 / PR003-2 / none / none

DAMAGED OR OILED ORGANISMS

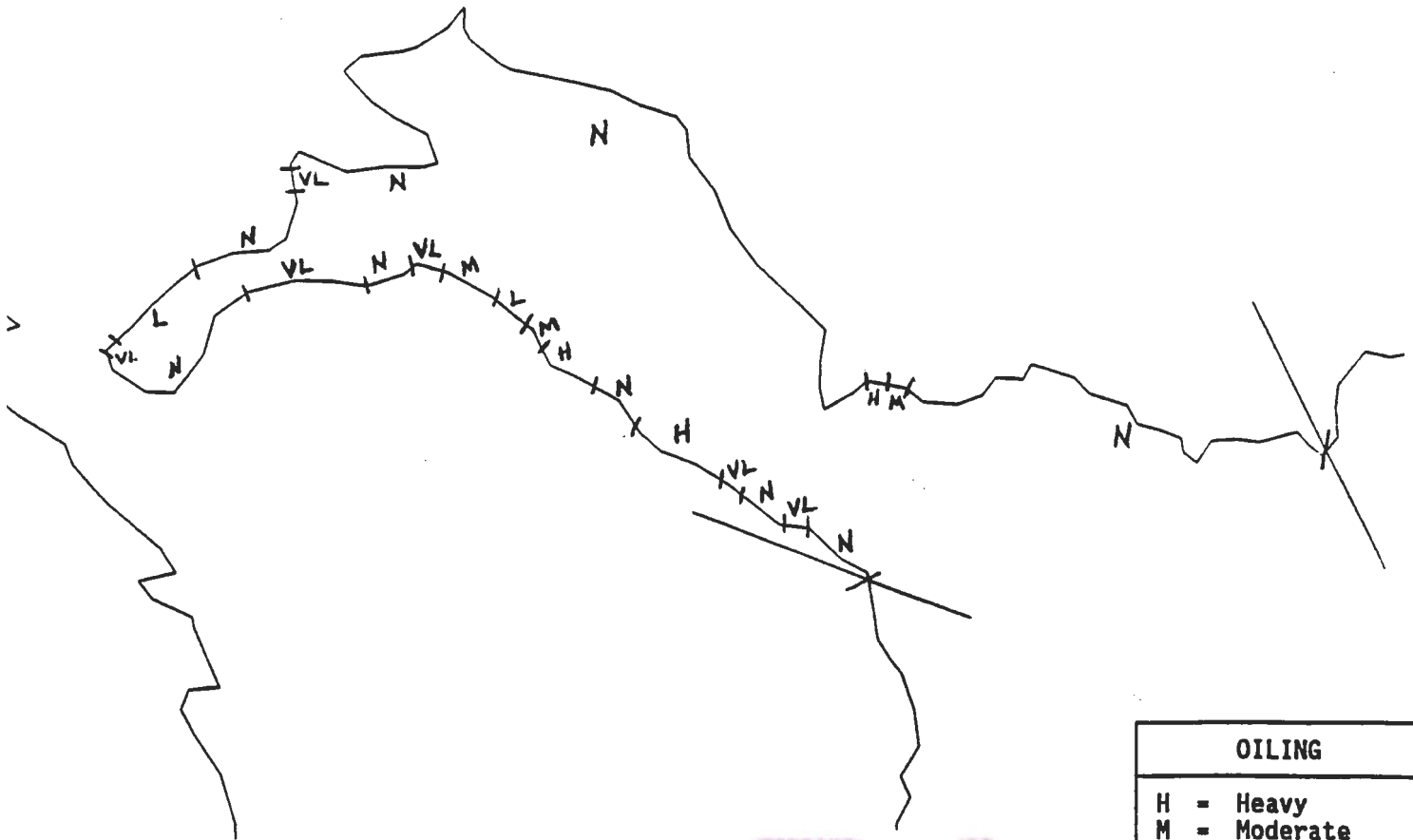
Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 1

SOLID WASTE FOUND

Type: Many localities, cleanup debris
Bags Collected: 4

500.0

PR003



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PRO04
LOCATION: NE PERRY ISLAND

DATE: 09/13/89
TIME: 10:15

Survey Type: Boat, Ground
Team: E. Gundlach, M. Mangiaracina, C. Pavia, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR005
LOCATION: NE PERRY ISLAND

DATE: 09/13/89
TIME: 14:15

Survey Type: Boat, Ground
Team: E. Gundlach, G. Winter, C. Pavia, M. Mangiaracina

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: PR005-1 / PR005-2 / none / none

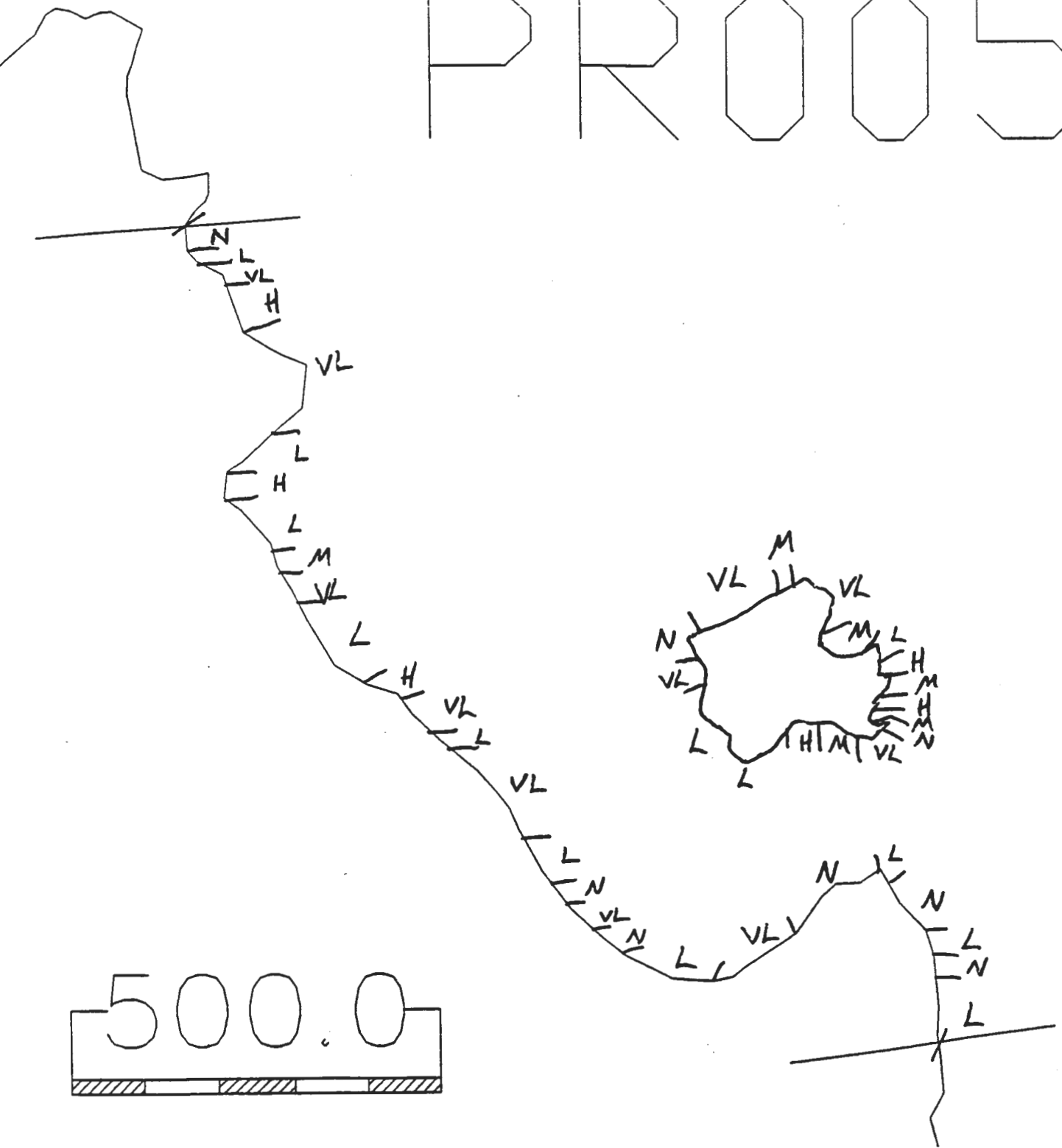
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities; Pom poms
Bags Collected: 1

PRR005



500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR006
LOCATION: NE PERRY ISLAND

DATE: 09/13/89
TIME: 16:13

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretupes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

Draft

Printed: 12/12/89 11:53

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR007
 LOCATION: NE PERRY ISLAND

DATE: 09/13/89
 TIME: 17:05

Survey Type: Boat, Ground
 Team: E. Gundlach, M. Mangiaracina, C. Pavia, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Sunny	Wind Direction: 0		
Sea State: Calm	Knots: 0		
Low Tide: 6:40	Feet: -0.3	High Tide: 13:01	Feet: 11.1
Low Tide: 18:47	Feet: 2.09	High Tide: 0:01	Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,L
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M,L
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 1 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 80%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

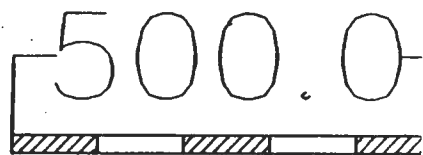
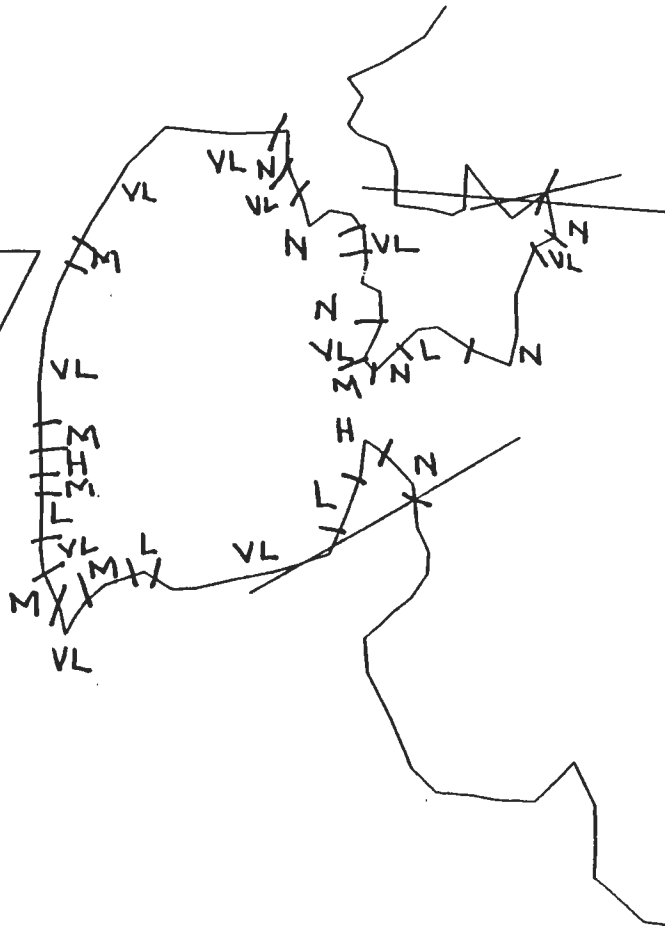
DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

PROO 7



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR008
LOCATION: NE PERRY ISLAND

DATE: 09/13/89
TIME: 17:35

Survey Type: Boat, Ground
Team: E. Gundlach, C. Pavia, M. Mangiaracina, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 30 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%

Presence of Oiled Driftwood (y/n): y

Oil Types: M,SY,T

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

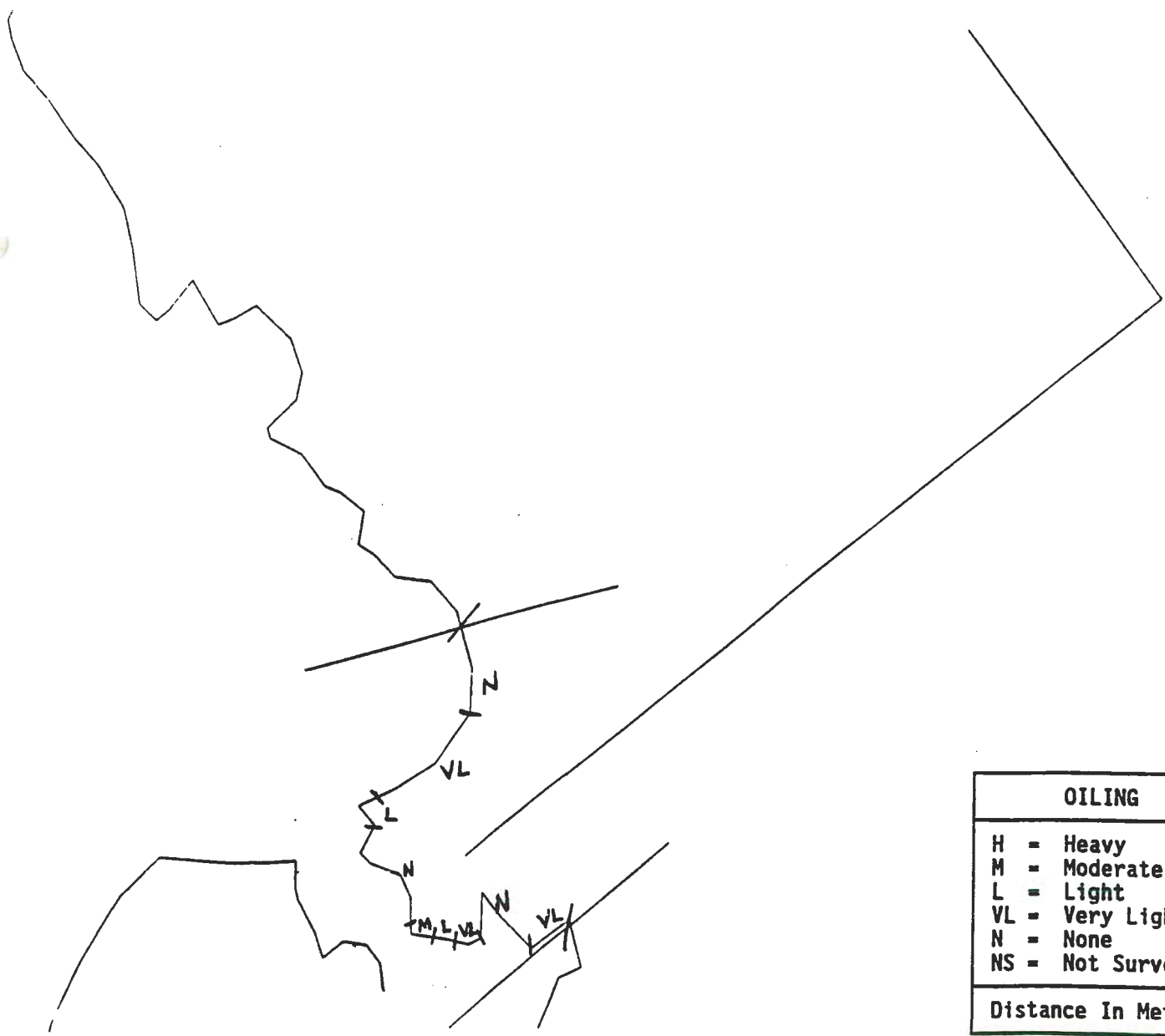
SOLID WASTE FOUND

Type: None

Bags Collected: 0

500.0

PRR0008



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR009
LOCATION: N PERRY ISLAND

DATE: 09/13/89
TIME: 19:00

Survey Type: Boat, Ground
Team: E. Gundlach, M. Mangiaracina, G. Winter, C. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
Sea State: Calm Knots: 0

Low Tide: 6:40 Feet: -0.3 High Tide: 13:01 Feet: 11.1
Low Tide: 18:47 Feet: 2.09 High Tide: 0:01 Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL (some areas not surveyed)
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 1%
Presence of Oiled Driftwood (y/n): n
Oil Types: ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

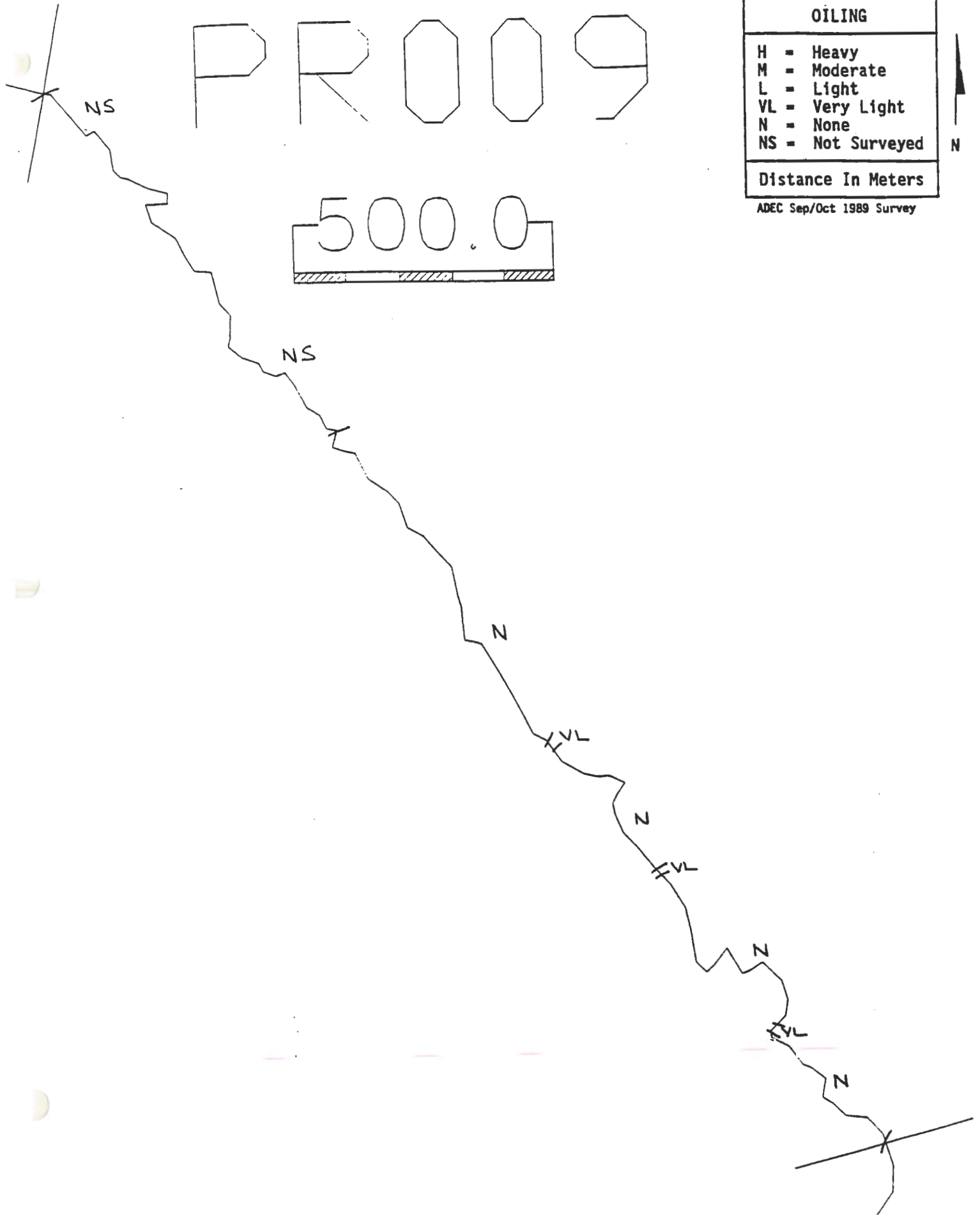
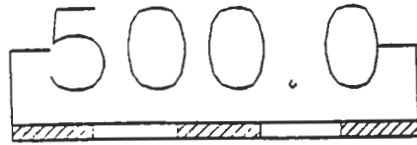
PR009

OILING

- H = Heavy
- M = Moderate
- L = Light
- VL = Very Light
- N = None
- NS = Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: PR016
LOCATION: SE PERRY ISLAND

DATE: 09/12/89
TIME: 14:00

Survey Type: Boat, Ground
Team: E. Gundlach, M. Mangiaracina, C. Pavia, G. Winter

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Rough Knots: 0

Low Tide: 6:01 Feet: 0.72 High Tide: 12:26 Feet: 10.
Low Tide: 18:02 Feet: 3.77 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 40 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 20%
Presence of Oiled Driftwood (y/n): n
Oil Types: T
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

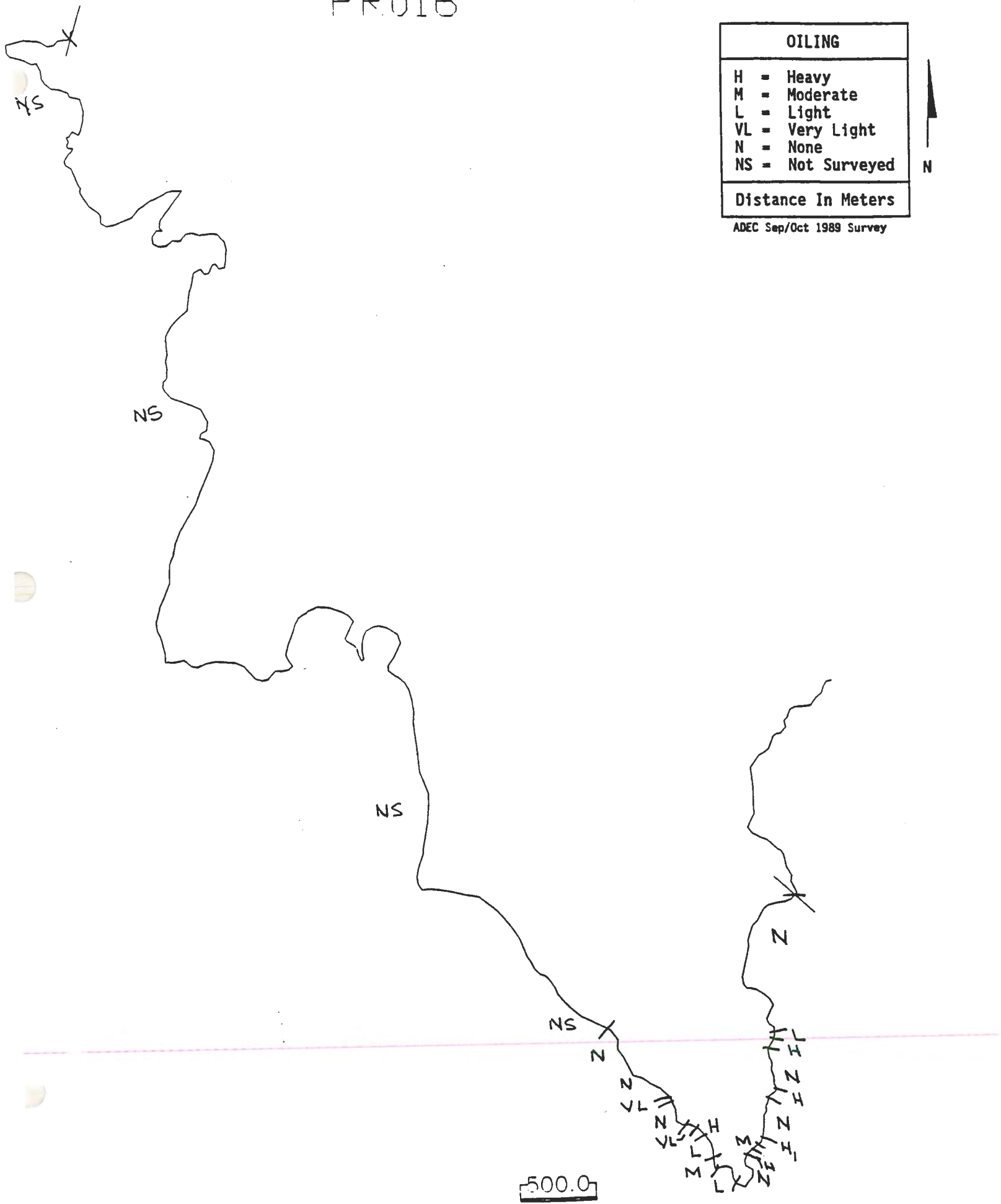
Type: One locality, cleanup debris pom poms
Bags Collected: 1

PR016

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey



500.0

SECTION CONTENTS — SQUIRREL ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
SL001	SQUIRREL ISLAND

Printed: 12/12/89



A hand-drawn map showing the outline of Knight Island and its surrounding islands and bay. The map is drawn with simple black lines on a white background. Knight Island is the largest island in the center, with several smaller islands to its north and west. A bay is located to the south of Knight Island. A line points from the text 'Squirrel Island' to a small island to the west of Knight Island.

*KNIGHT
ISLAND*

Squirrel Island

Drier Bay

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SLO01
 LOCATION: SQUIRREL ISLAND

DATE: 09/28/89
 TIME: 6:50

Survey Type: Boat, Ground
 Team: G. Pavia, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 19:35 Feet: 0.88 High Tide: 1:07 Feet: 11.8
 Low Tide: 7:16 Feet: 0.51 High Tide: 13:33 Feet: 12.1

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M,L
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: SLO01-1 / SLO0-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris, garbage

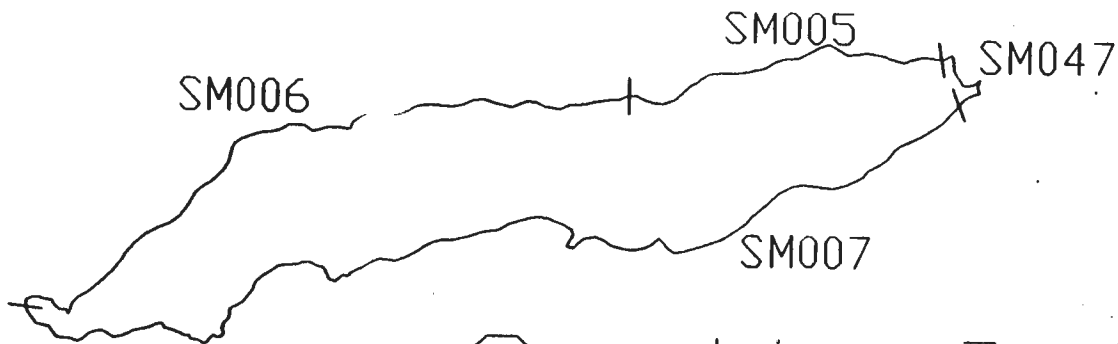
Bags Collected: 1

SECTION CONTENTS — SMITH ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
SM005	N SMITH ISLAND
SM006	N SMITH ISLAND
SM007	SE SMITH ISLAND
SM047	E SMITH ISLAND

Printed: 12/12/89

500.0



Smith Island

Little Smith Island

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SMO05
LOCATION: N SMITH ISLAND

DATE: 09/19/89
TIME: 8:15

Survey Type: Boat, Ground
Team: D. Hall, W. Ghormley, M. East

WEATHER AND SEA CONDITIONS

Weather: Rain
Sea State: Rough

Wind Direction: SE
Knots: 0-15

Low Tide: 10:26 Feet: 1.83 High Tide: 16:31 Feet: 14.1
Low Tide: 23:16 Feet: -1.1 High Tide: 4:43 Feet: 11.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 60 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 95%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

500.0

SM005



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SM006
LOCATION: N SMITH ISLAND

DATE: 09/18/89
TIME: 8:45

Survey Type: Boat, Ground
Team: G. Pavia, M. Baer, L. Gresehover

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NE
Sea State: Moderate Knots: 0-15

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: S,H,M,L,S
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 4 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 40 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 98%

Presence of Oiled Driftwood (y/n): y

Oil Types: M,SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: SM006-1 / SM006-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y

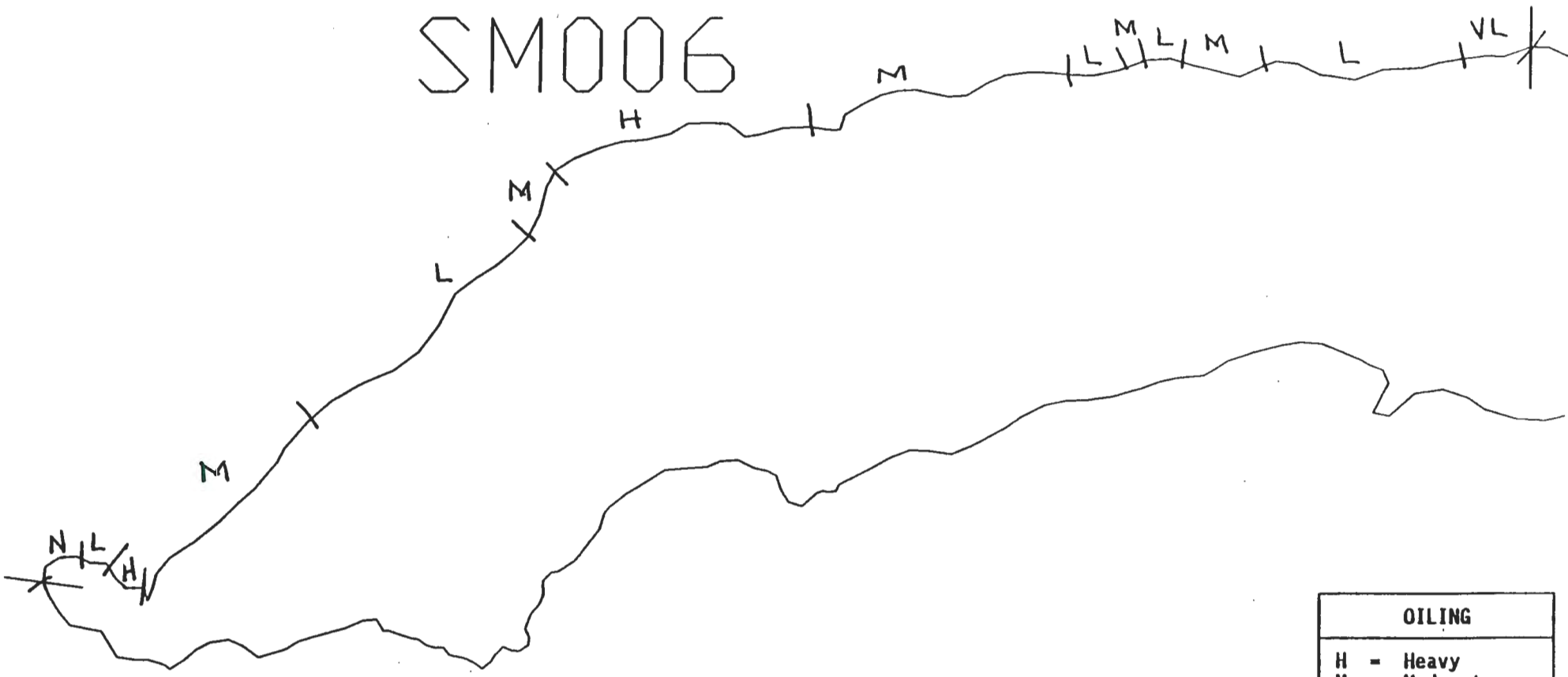
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Many localities, Cleanup debris, signs, paint marks
Bags Collected: 1

500.0

SM006



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed

Distance In Meters

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SM007
 LOCATION: SE SMITH ISLAND

DATE: 09/19/89
 TIME: 9:00

Survey Type: Boat, Ground
 Team: D. Zobrist, B. Fitzsimons, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Rain Wind Direction: NE
 Sea State: Moderate Knots: 16-30

Low Tide: 10:26 Feet: 1.83 High Tide: 16:31 Feet: 14.1
 Low Tide: 23:16 Feet: -1.1 High Tide: 4:43 Feet: 11.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

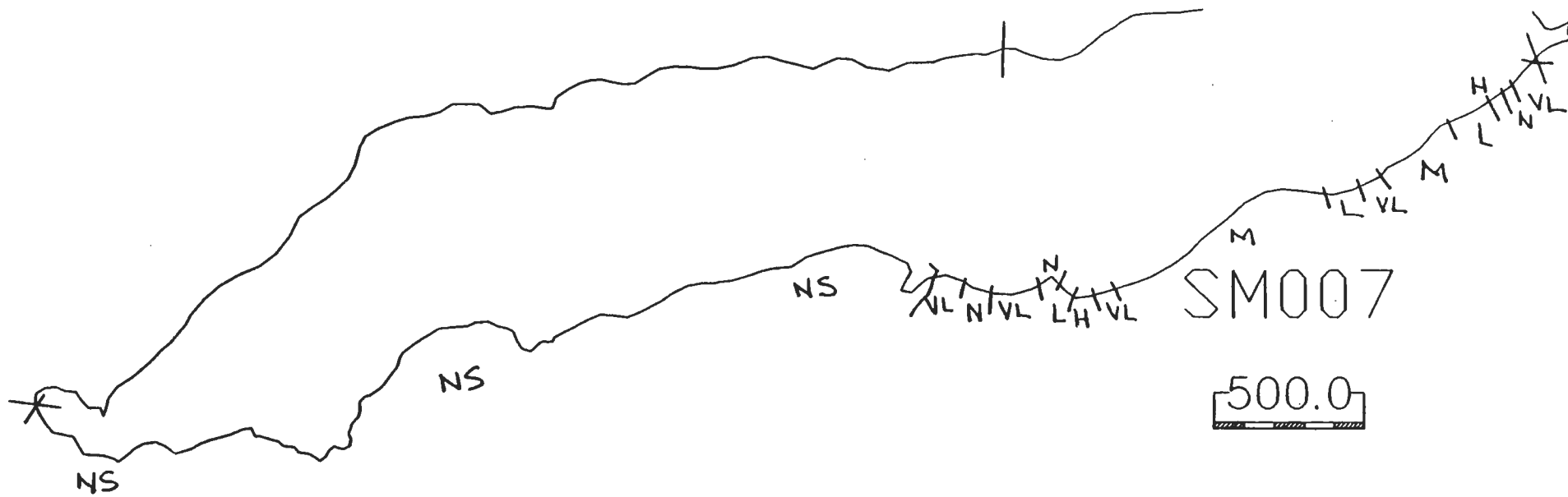
Degree of Oiling: N,VL,L,M,H
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H,M
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 25 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 90%
 Presence of Oiled Driftwood (y/n): y
 Oil Types: SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: SM007-1 / SM007-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities
 Bags Collected: 0



OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SM047
LOCATION: E SMITH ISLAND

DATE: 09/18/89
TIME: 10:30

Survey Type: Boat, Ground
Team: C. Robinson, D. Hall

WEATHER AND SEA CONDITIONS

Weather: Cloudy
Sea State: Calm

Wind Direction: 0
Knots: 0-15

Low Tide: 9:45 Feet: 0.54 High Tide: 15:53 Feet: 14.5
Low Tide: 22:25 Feet: -1.9 High Tide: 3:54 Feet: 12.6

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 15 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 90%

Presence of Oiled Driftwood (y/n): n

Oil Types: SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): - Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

Draft

Printed: 12/12/89 11:54

SECTION CONTENTS — SPHINX ISLAND

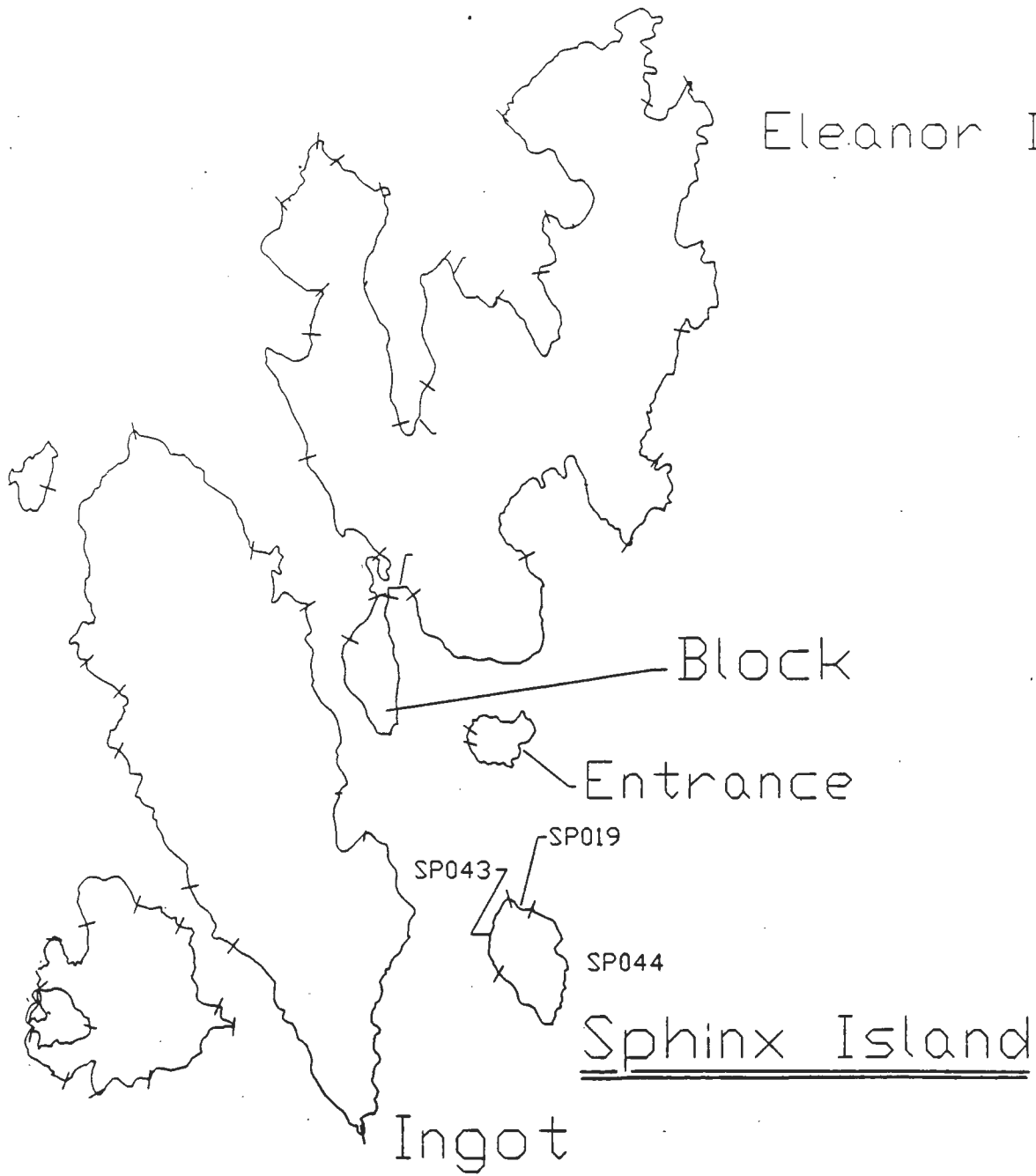
SEGMENT#

LOCATION

SP019,043,044

SPHINX ISLANDS

Printed: 12/12/89



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SP019,043,044
 LOCATION: SPHINX ISLANDS

DATE: 09/15/89
 TIME: 18:00

Survey Type: Boat
 Team: B. McCready, D. Zobrist, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: 0
 Sea State: Calm Knots: 0

Low Tide: 20:11 Feet: -1.3 High Tide: 14:08 Feet: 13.2
 Low Tide: 20:11 Feet: -0.9 High Tide: 1:37 Feet: 13.4

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
 Wave Exposure: H,M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
 Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
 Percent Segment Categorized as Oiled: 100%
 Presence of Oiled Driftwood (y/n): -
 Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

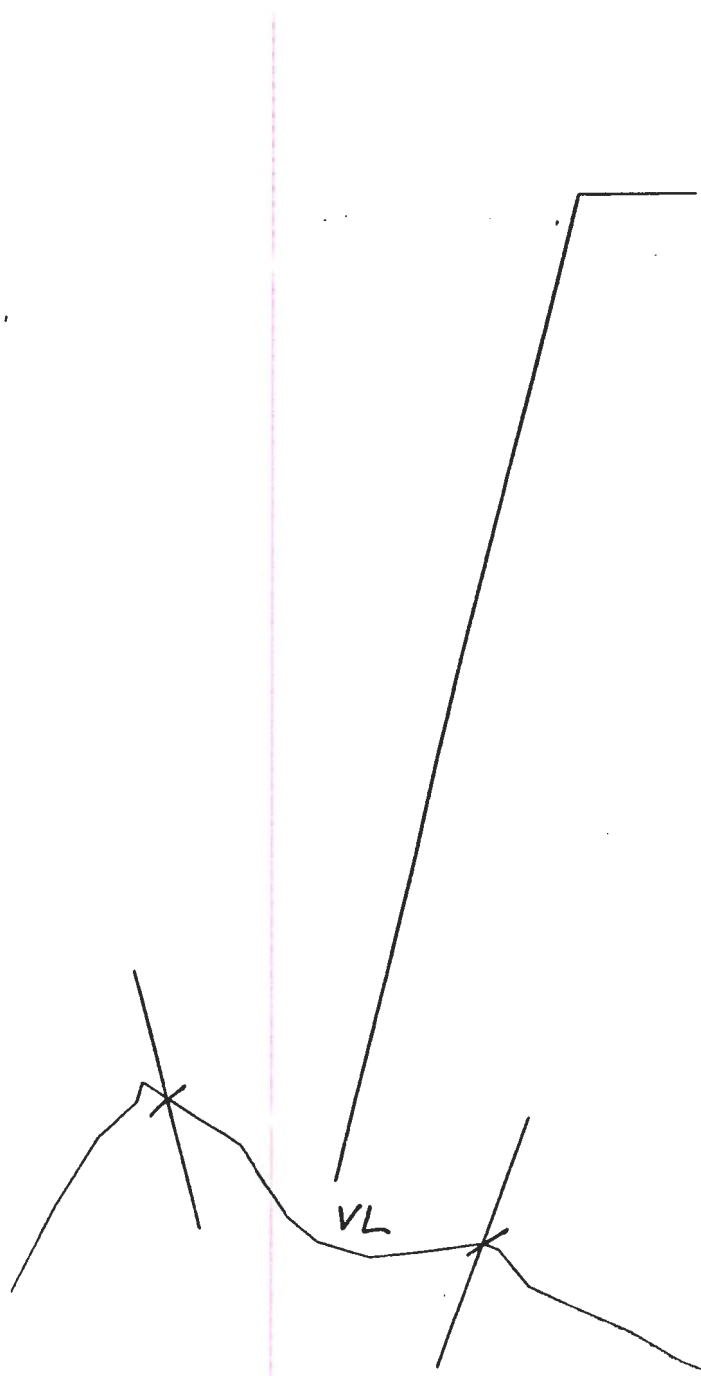
Fucus (y/n): - Barnacles (y/n): - Mussels (y/n): -
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

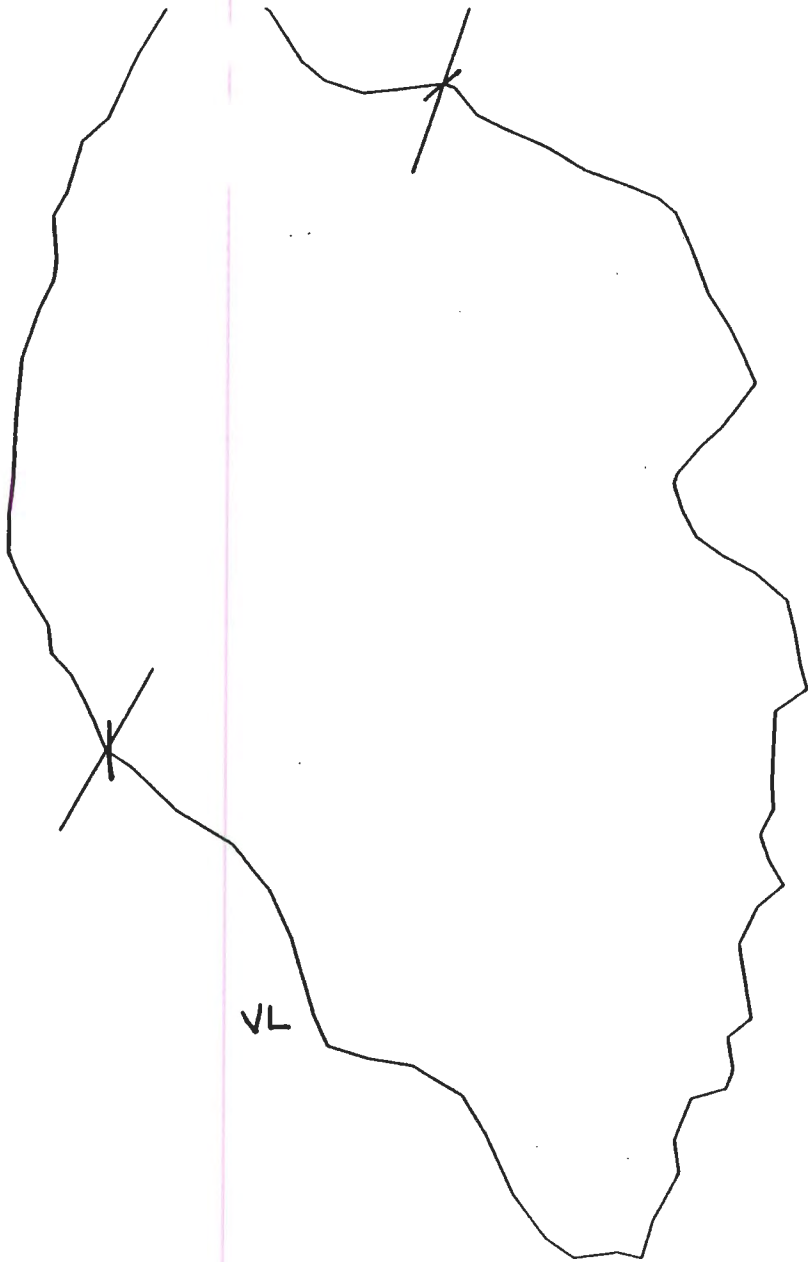
Type: None
 Bags Collected: 0

SP019

500.0

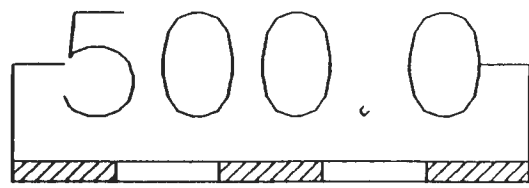


OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



VL

SP044



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

SECTION CONTENTS — SQUIRE ISLAND

<u>SEGMENT#</u>	<u>LOCATION</u>
SQ001	ISLAND SW OF KNIGHT I.
SQ002	ISLAND SW OF KNIGHT I.
SQ003	ISLAND SW OF KNIGHT I.
SQ004	ISLAND SW OF KNIGHT I.
SQ005	ISLAND SW OF KNIGHT I.

Printed: 12/15/89



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: S0001 DATE: 10/01/89
LOCATION: ISLAND SW OF KNIGHT I. TIME: 18:15

Survey Type: Boat, Ground
Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: S
Sea State: Rough Knots: 16-30

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H,S
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

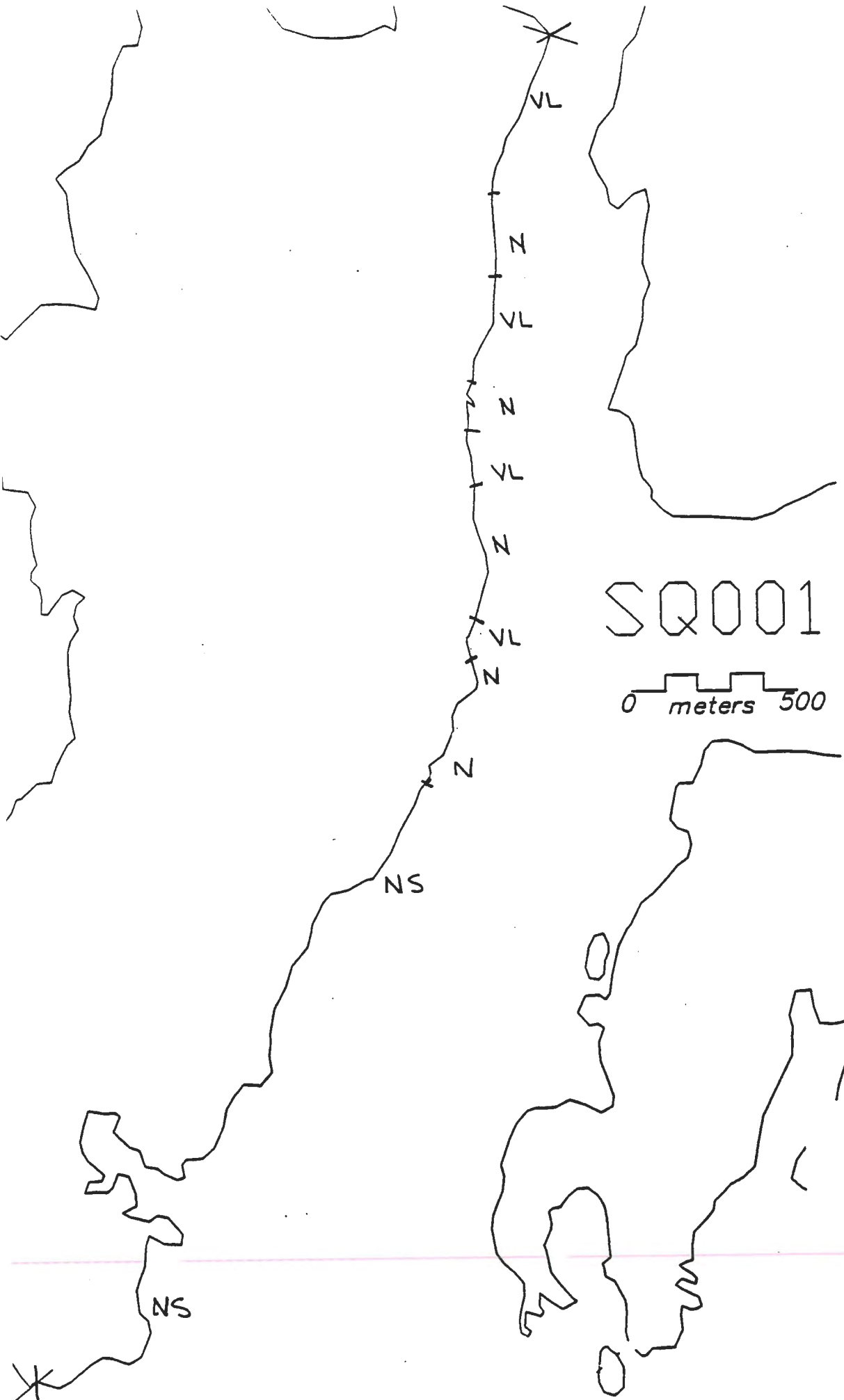
Percent Segment Categorized as Oiled: 25%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, Boom
Bags Collected: 0



SQ0001

0 meters 500

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SQ002 DATE: 10/01/89
LOCATION: ISLAND SW OF KNIGHT I. TIME: 18:10

Survey Type: Boat, Ground
Team: D. Gardner, B. McCreedy

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: 0
Sea State: Moderate Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

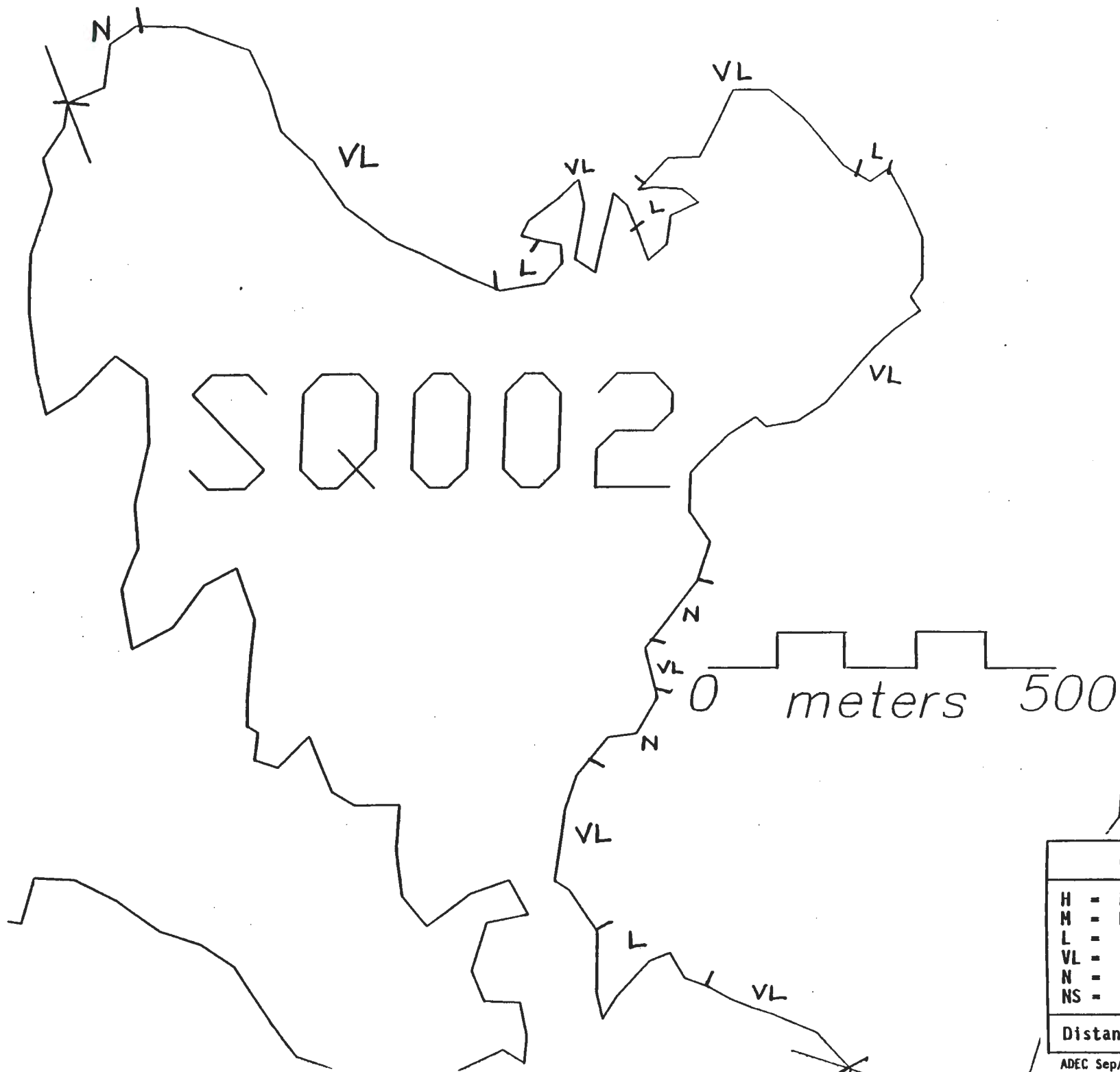
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: SQ002-1 / SQ002-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SQ003 DATE: 10/01/89
LOCATION: ISLAND SW OF KNIGHT I. TIME: 18:10

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain, Fog Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 20%
Presence of Oiled Driftwood (y/n): y
Oil Types: T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

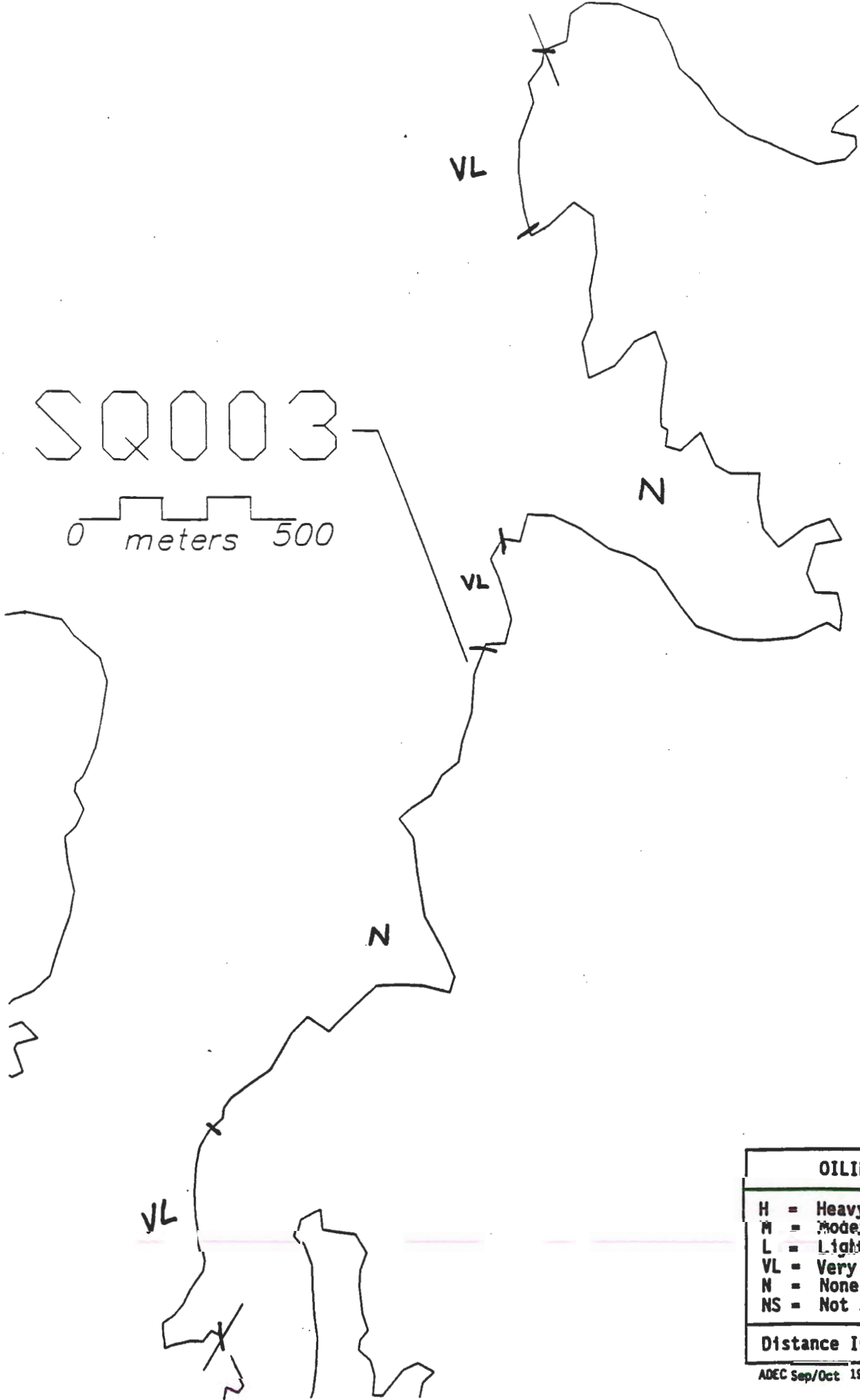
Type: One locality; Snare Boom
Bags Collected: 0

Draft

Printed: 12/12/89 11:54

SQ0003

0 meters 500



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: S0004 DATE: 10/02/89
LOCATION: ISLAND SW OF KNIGHT I. TIME: 9:23

Survey Type: Boat, Ground
Team: L. Gresehover, P. Enders

WEATHER AND SEA CONDITIONS

Weather: Cloudy Wind Direction: NW
Sea State: Moderate Knots: 0-15

Low Tide: 21:44 Feet: -0.1 High Tide: 3:24 Feet: 11.3
Low Tide: 9:12 Feet: 2.2 High Tide: 15:12 Feet: 12.8

SHORELINE DESCRIPTION

Shoretypes: H,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: H (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,H
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 3 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 50 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 95%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): y Barnacles (y/n): y Mussels (y/n): y
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:54

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: SQ005 . DATE: 10/01/89
LOCATION: ISLAND SW OF KNIGHT I. TIME: 18:55

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Rain Wind Direction: SE
Sea State: Moderate Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

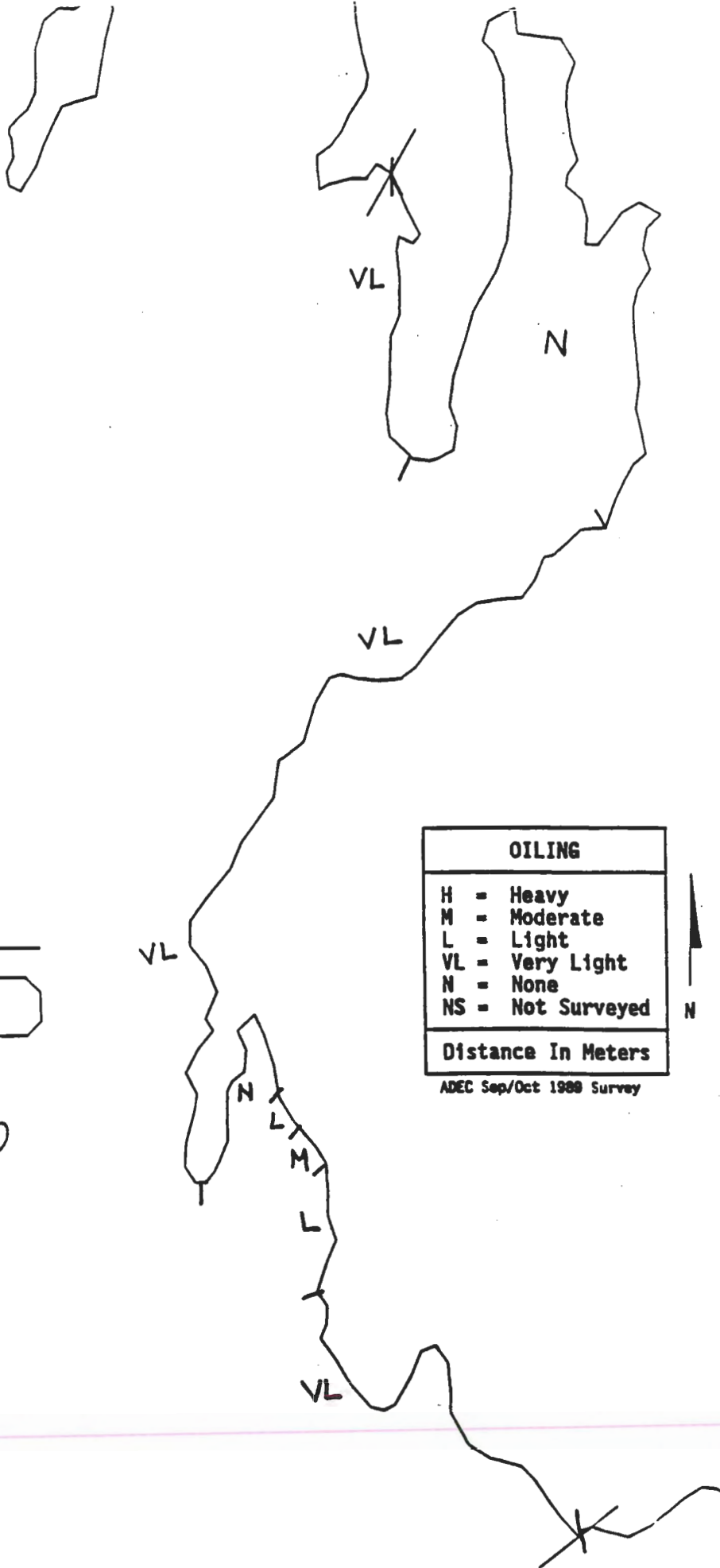
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality; Cleanup debris
Bags Collected: 0

Draft

Printed: 12/12/89 11:55



SQ0005



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

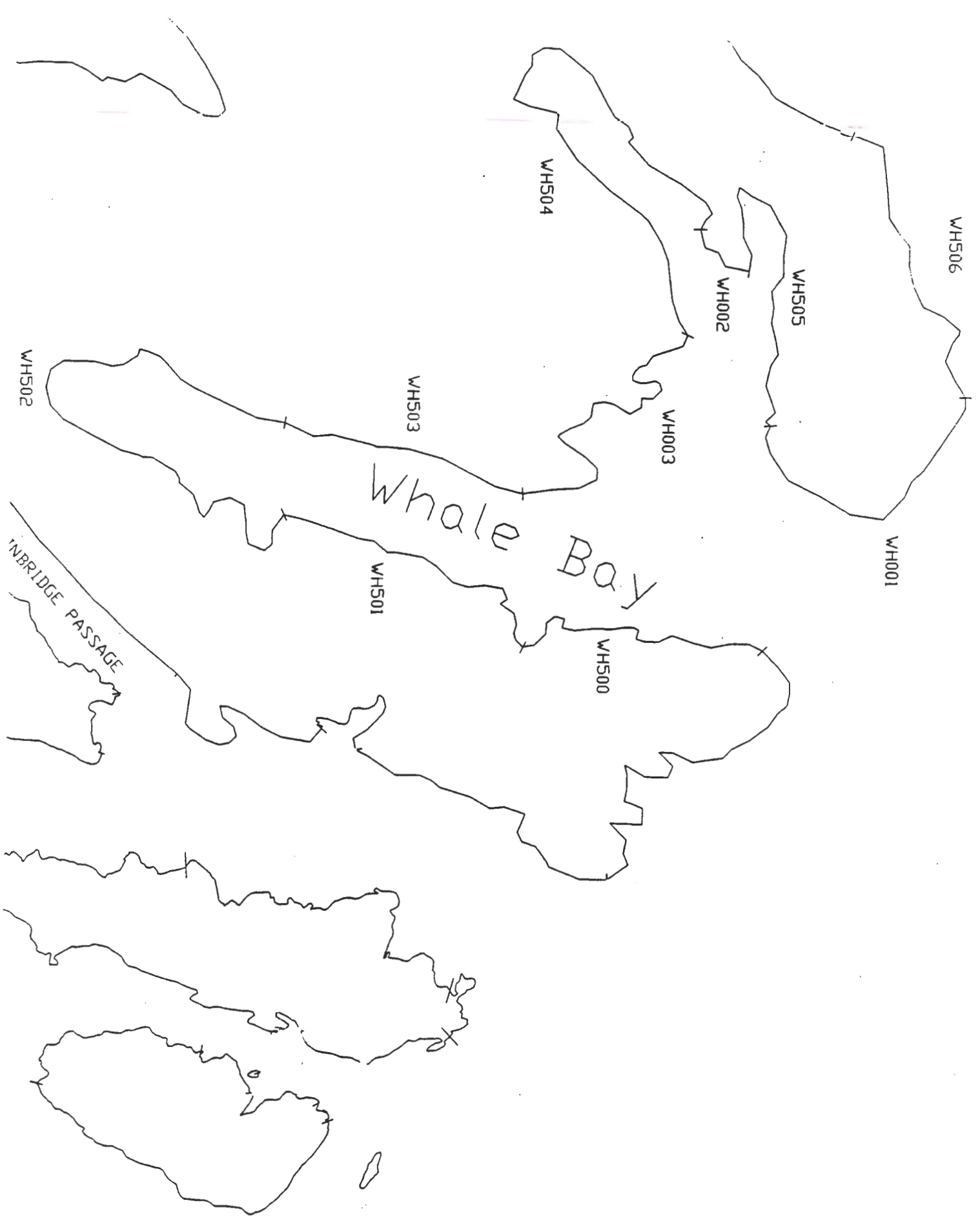
ADEC Sep/Oct 1989 Survey



SECTION CONTENTS — WHALE BAY

<u>SEGMENT#</u>	<u>LOCATION</u>
WH001	WHALE BAY
WH002	WHALE BAY
WH003	WHALE BAY
WH500	WHALE BAY
WH501	WHALE BAY
WH502	WHALE BAY
WH503	WHALE BAY
WH504	WHALE BAY
WH505	WHALE BAY
WH506	WHALE BAY

Printed: 12/12/89



Whale Bay

WH502

WH503

WH504

WH002

WH505

WH506

WH003

WH001

WH501

WH500

INBRIDGE PASSAGE

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH001
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 8:32

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

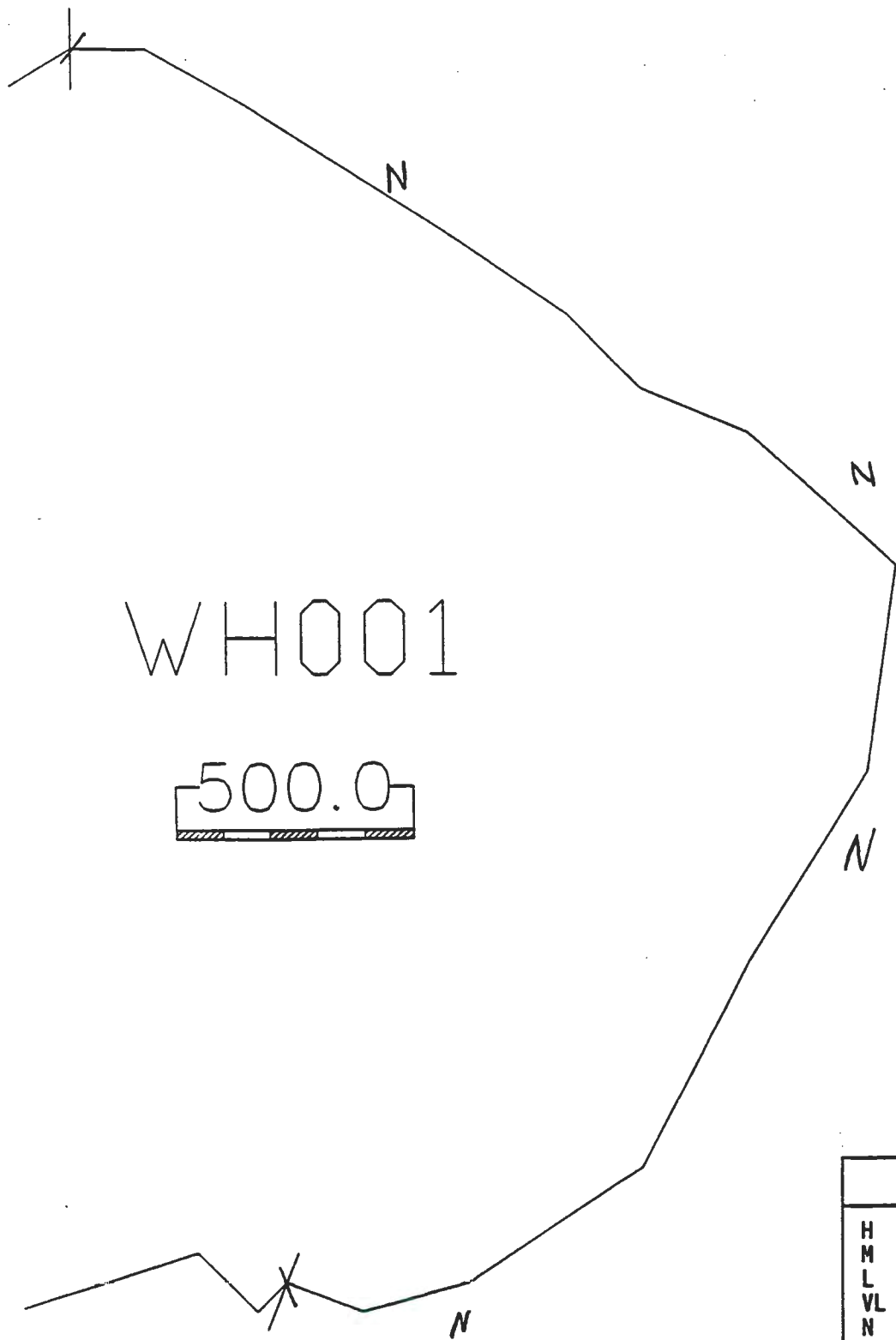
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



WH001

500.0

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH002
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 8:25

Survey Type: Boat, Ground
Team: D. Gardner, P. Endres

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH003
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 8:45

Survey Type: Boat, Ground
Team: D. Zobrist, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NW
Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,L
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H,M
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 1%

Presence of Oiled Driftwood (y/n): n

Oil Types: SY,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: WH003-1 / WH003-2 / none / none

DAMAGED OR OILED ORGANISMS

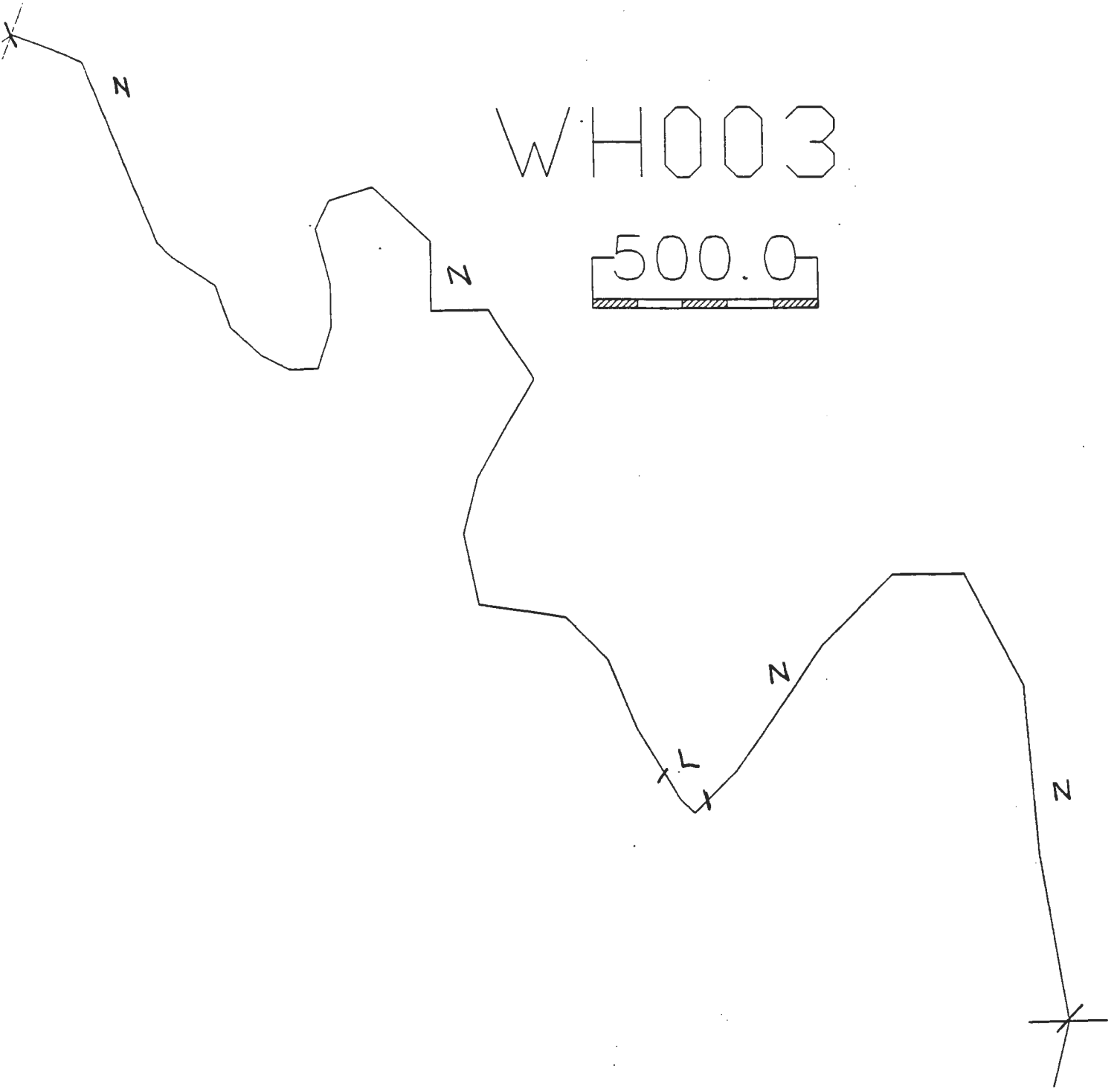
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, cleanup debris, signs, paint marks
Bags Collected: 0

WH003

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH500
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 16:06

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Moderate Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

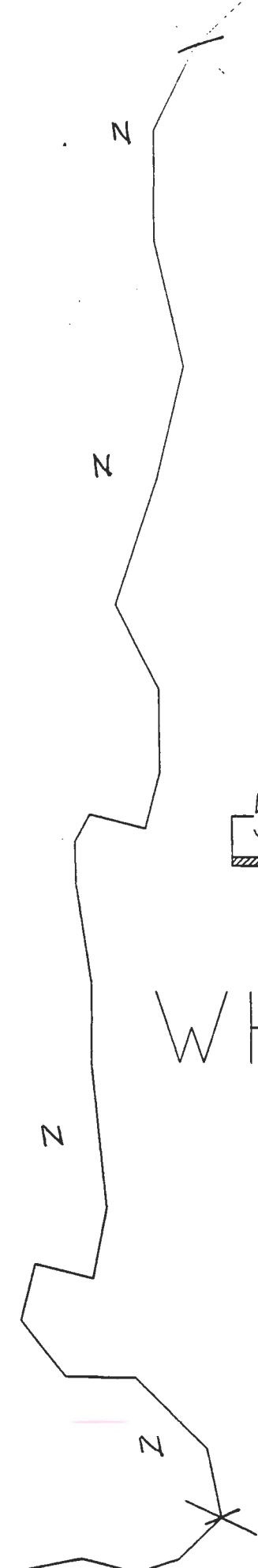
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0



500.0

WH500

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH501
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 16:10

Survey Type: Boat, Ground
Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NW
Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 5 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 2%
Presence of Oiled Driftwood (y/n): y
Oil Types: SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: WHB-1 / WHB-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH502
 LOCATION: WHALE BAY

DATE: 10/12/89
 TIME: 16:10

Survey Type: Boat, Ground
 Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
 Sea State: Calm Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
 Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C,M
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S,M
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 1%
 Presence of Oiled Driftwood (y/n): n

Oil Types: T,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

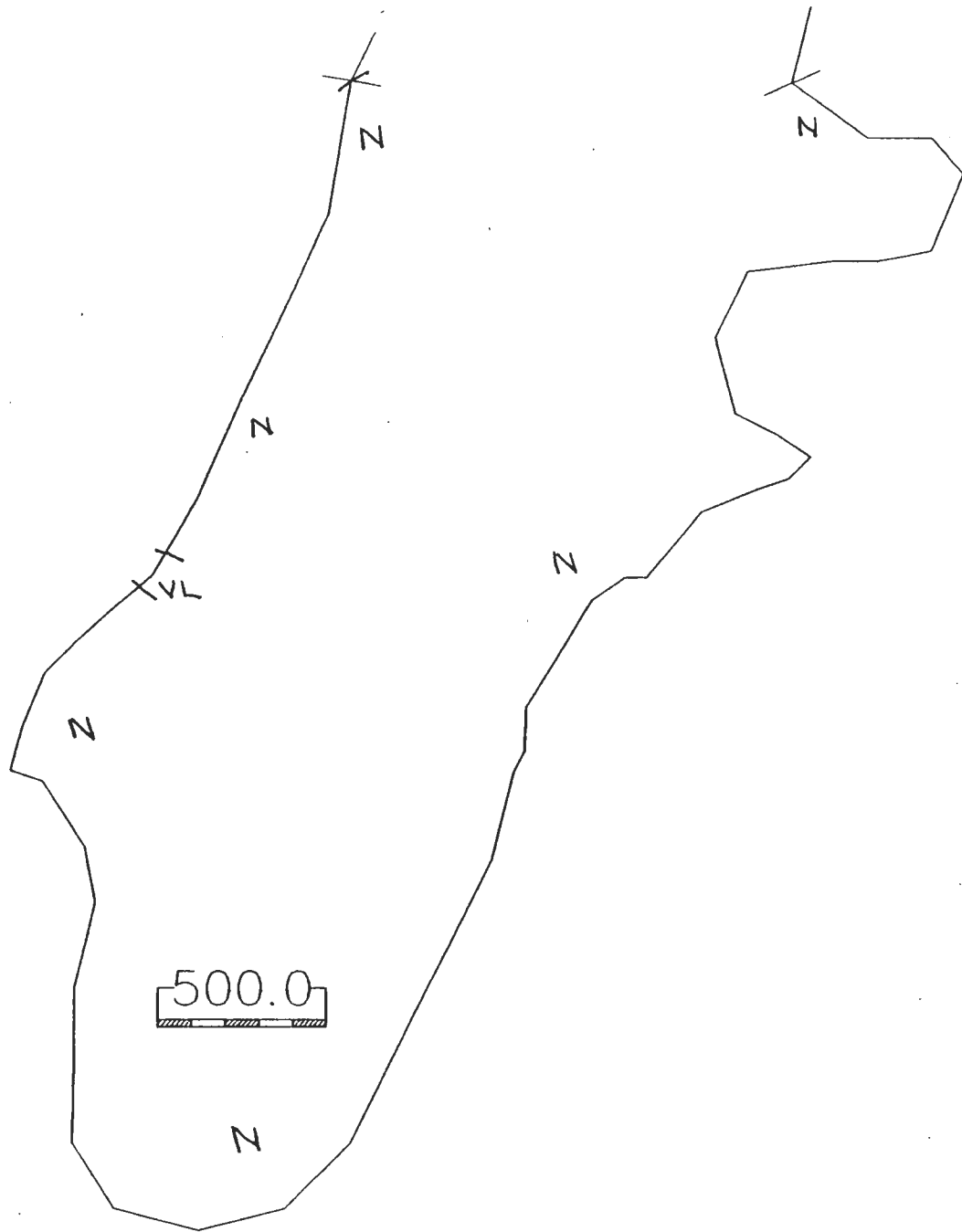
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality; Other
 Bags Collected: 0



WH502

OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH503
 LOCATION: WHALE BAY

DATE: 10/12/89
 TIME: 18:39

Survey Type: Boat, Ground
 Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: NW
 Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
 Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
 (H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M (H=high, M=moderate, L=low)
 Shoreline Composition: R,B,C,G,S
 (R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
 (N=none, VL=very light, L=Light, M=moderate, H=heavy)
 Area of Impact: none
 (S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: none
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

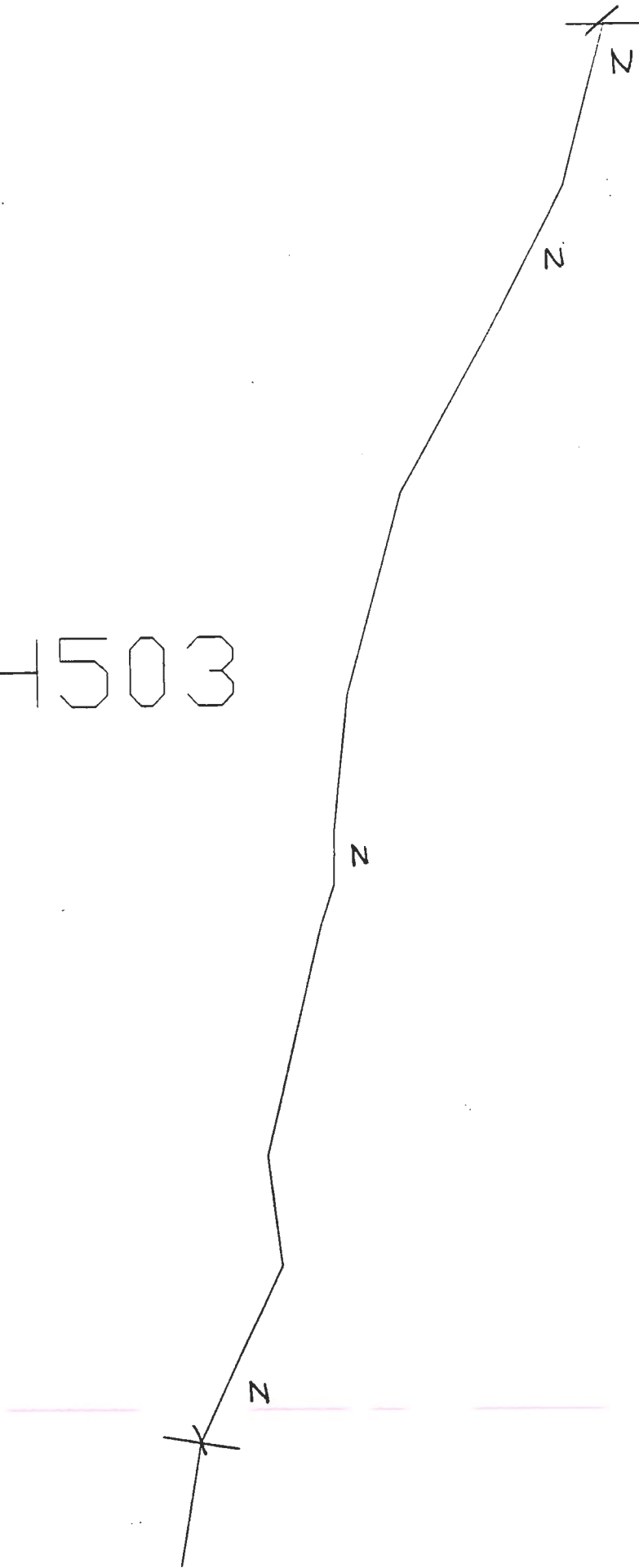
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
 Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
 Bags Collected: 0

WH503

500.0



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH504
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 18:39

Survey Type: Boat, Ground
Team: B. Fitzsimons, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

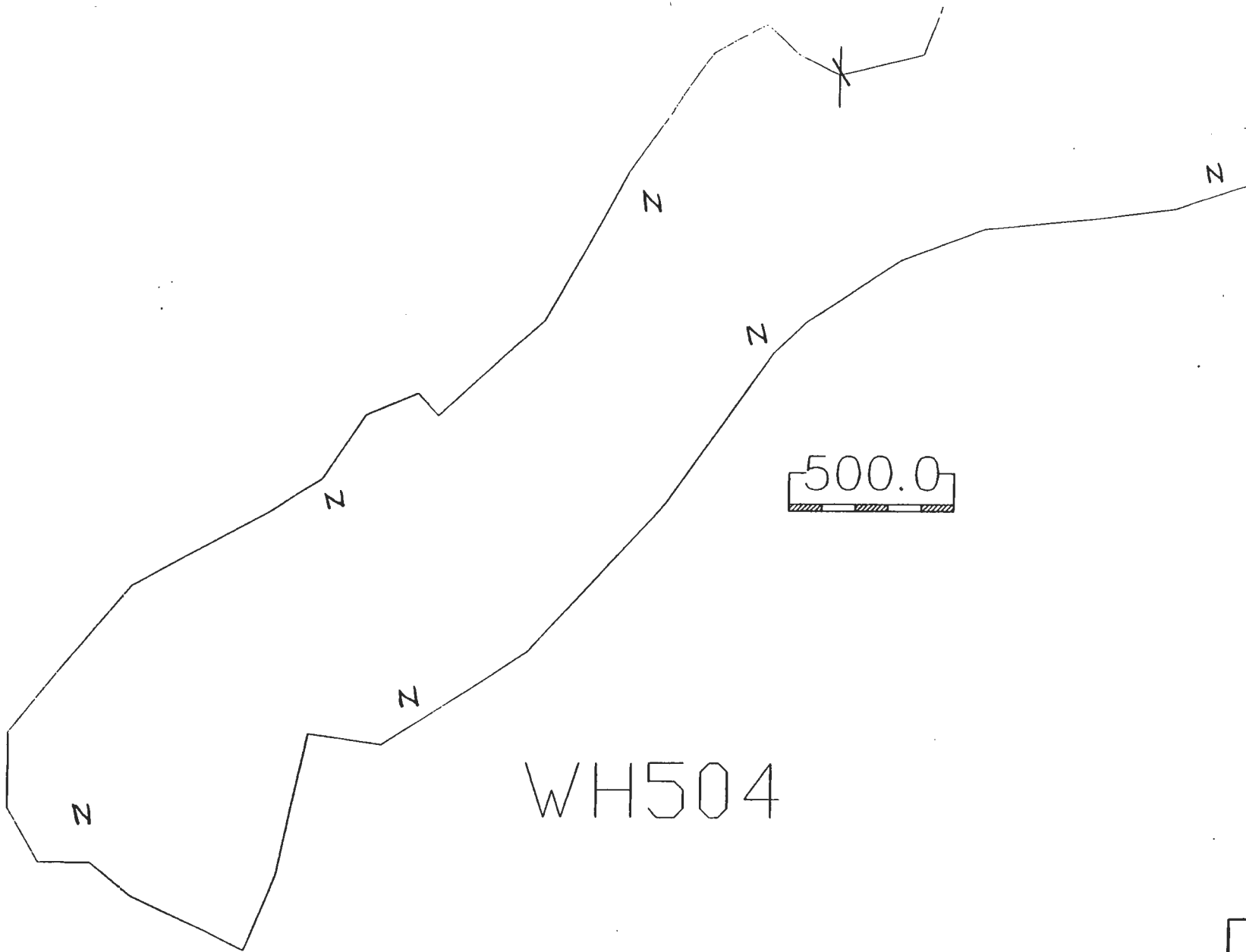
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



WH504

500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH505
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 18:39

Survey Type: Boat, Ground
Team: B. Fitzsimons, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NW
Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)
Wave Exposure: L (H=high, M=moderate, L=low)
Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)
Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)
Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 0 cm (35 = 35 cm or greater)
Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

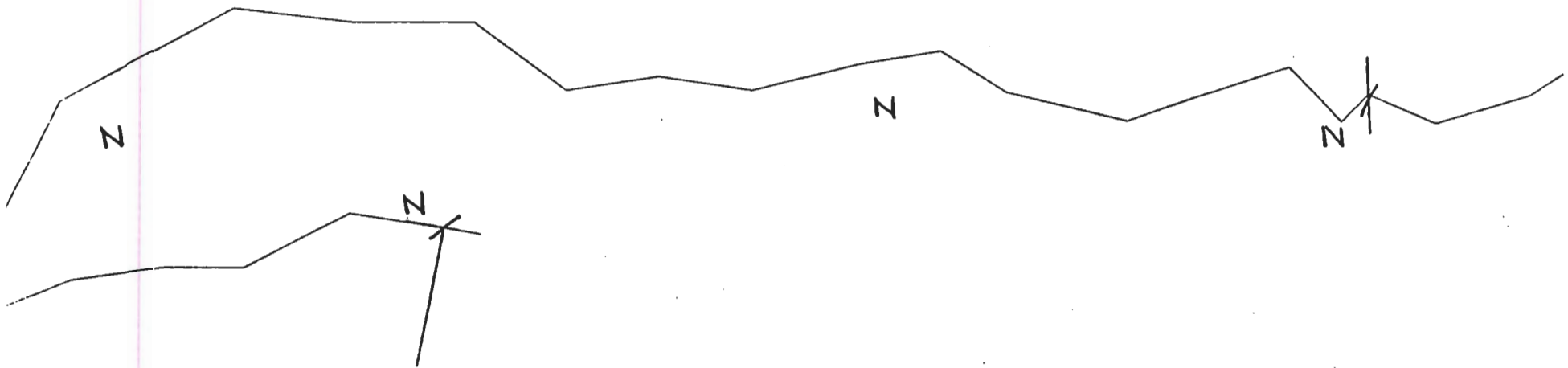
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None
Bags Collected: 0

500.0

WH505



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: WH506
LOCATION: WHALE BAY

DATE: 10/12/89
TIME: 18:39

Survey Type: Boat, Ground
Team: B. Fitzsimons, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 6:02 Feet: 0.63 High Tide: 12:17 Feet: 12.3
Low Tide: 18:27 Feet: 0.82 High Tide: -0- Feet: -0-

SHORELINE DESCRIPTION

Shoretypes: H,LR,B
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: none
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 0 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 0%

Presence of Oiled Driftwood (y/n): n

Oil Types: none

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

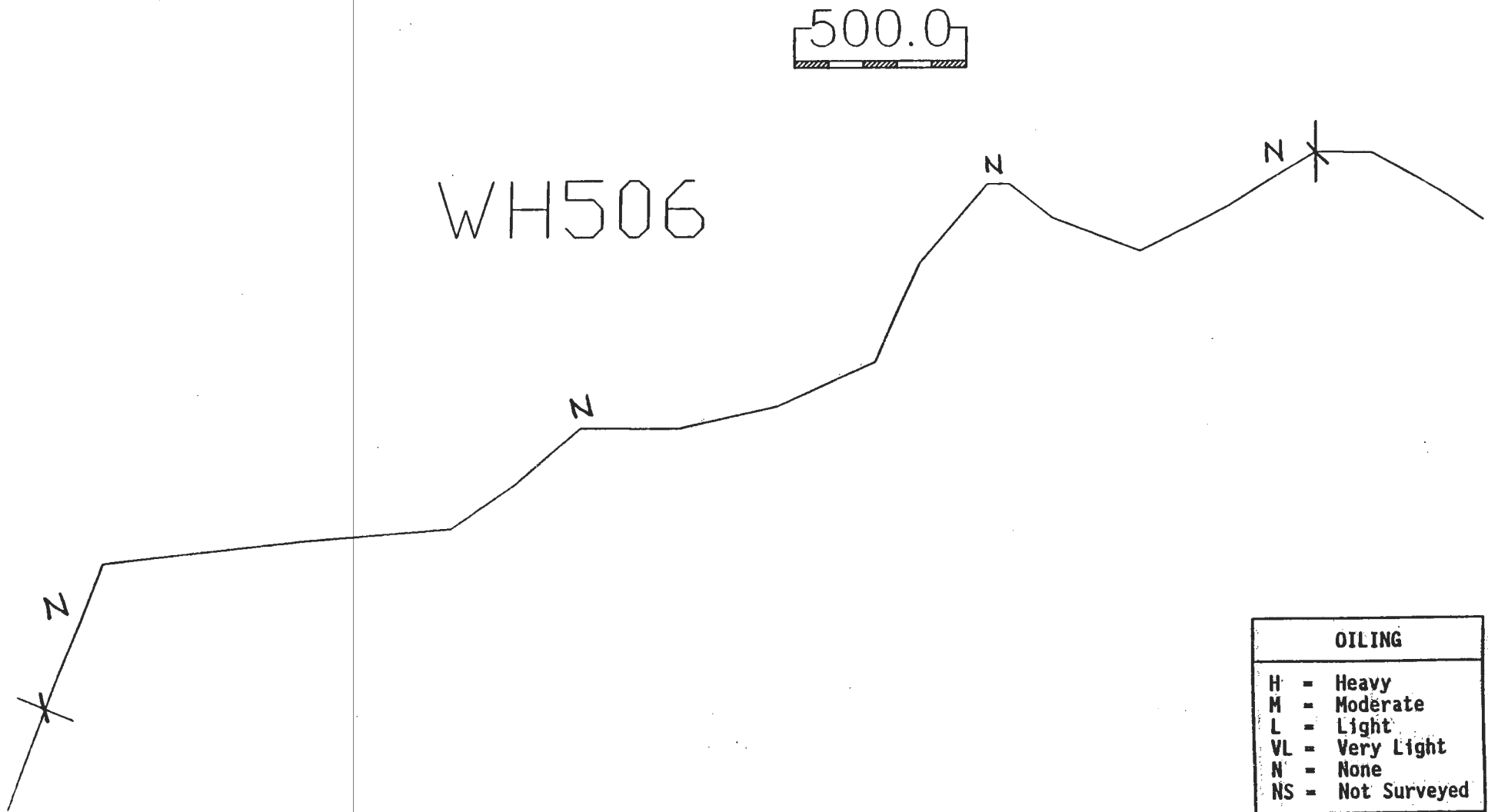
Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: None

Bags Collected: 0



OILING	
H	- Heavy
M	- Moderate
L	- Light
VL	- Very Light
N	- None
NS	- Not Surveyed
Distance In Meters	