

OIL SPILL PUBLIC INFO. CENTER



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EVOS
GC
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S42
1991
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[Shoreline evaluations, 1991].

Kodiak K0302 IB 005A to K0634 SL 014

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ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 251-31-10020

SEGMENT K03-02-IB-005 SUBDIVISION A

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B	Salmon Stream	No constraint to manual pickup.
5R	Seabird Colony	No constraint to manual pickup to In Subdivision, however, USFWS map indicates seabird colony in adjacent segments may restrict access to work site. Follow established USFWS transit route through seabird colony buffer zone as described on attached map.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unrolled biota and substrate. Sensitive estuary.

SEE SUBDIVISION CONSTRAINT ADDENDUM K03-02-IB-005A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

[Signature]
[Signature]

Date

6-16-90

Prepared by

Date

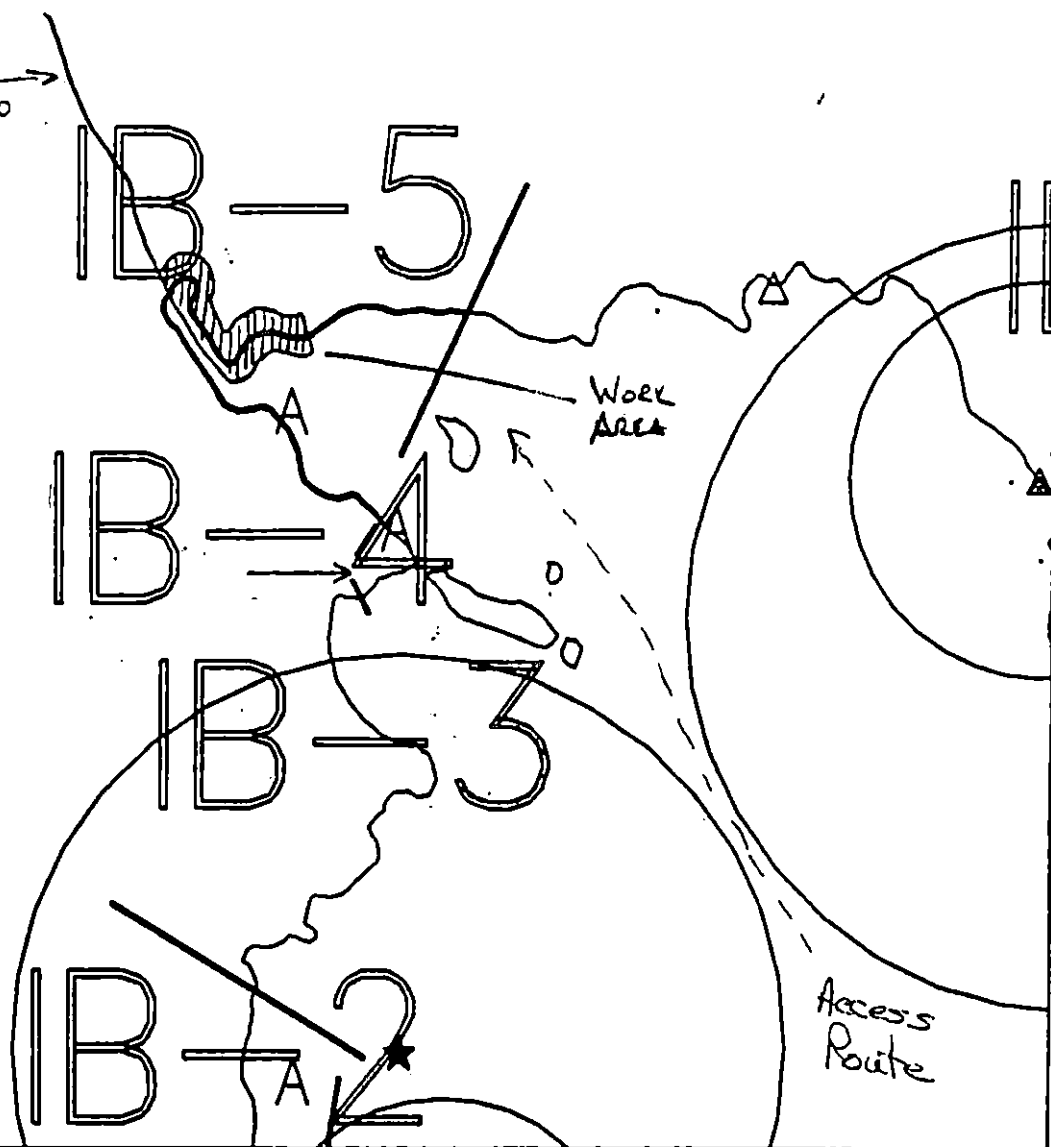
6/15/90

IB-5 site

1. Access route approved.

● Mike Luke

STREAM #
252-31-10020



TREATMENT



Exxon Company, USA
Map Key: K00-IB-5
June 10, 1990



ECOLOGY MAP
SEGMENT K3-2 IB-5
SUBDIVISION ____ (____ of ____)
METERS
0 402 804

- ★ Seabird Colony
- ▲ Active Eagle Nest
- △ Inactive Eagle Nest

1 inch = 1320 feet

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 TO 9/10; PEAK 8/15)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

ARCHAEOLOGICAL CONSTRAINT: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)). or

SHPO SIGNATURE: Rachel In Ode DATE: 6/01/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
☒ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: SEE CONSTRAINTS ADDENDUM DATED 6/15/90 RFP

TAG COMMENTS: MANUAL PICKUP OF TARBALLS + PATCHES AS INDICATED ON SKETCH

TAG APPROVAL DATE: 5/24/90.

ADEC ART WEINER Art Weiner

EXXON Ann Tsai Ann Tsai

NOAA Bert Wescott Bert Wescott

SCG M. J. HALL, M.J. Hall

FOSC: R. Zandhi DATE: 6/4/90

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K03-02-IB-005

SUBDIVISION: A

STREAM NO: 252-31-10020

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 TO 9/10; PEAK 8/15)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST IB 005 SUBDIVISION: 252-31-10020 DATE 5/1/90

USCG

NAME CWO McMAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP: REMOVE TAR PATTIES
(per map)

ADFG

~~ADEC~~

NAME JEFFREY BARNHART SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Type A manual cleanup of patties / Tar balls

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY (ANAD.)

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ 15
 BIO MICHAEL FAWCETT LAND REP 5. STRAM 25235-10201
 EXXON CUS GARCIA ADFG JOSE BARNHART DATE 1 MAY 1990
 TEAM NO. 15 TIDE LEVEL +60 ft
 EST. SUBDIVISION LENGTH: 600 m ☐ Sun ☒ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 70 % B 20 % C 10 % P 60 % G 20 % S 0 % M 0 % V
 SLOPE: Long 30 % Hang 70 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ Hig
 OIL CATEGORY LENGTH: W 0 m M 0 m N 570 m VL 0 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	W	M	N	VL	W	M	N	VL	NO	SU	U	M	L
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES			X				X			X			
TARBALLS			X				X			X			
FILM													
NO OIL										X	X	X	

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 8

NEAR-SHORE SHEENT NO BR RW SL

OILED DEBRIS	AMOUNT			Did You Col DEBRIS
	SM	MD	LG	
Logs				☐ YES ☒ NO
Vegetation				
Trash				TYPE <u> </u>
Debris				#BAGS <u> </u>

Photographs:

Roll No. A3-15-7

Frames 29-33

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEENT (Y/N)	V	SURFA SUBSUR SEDIME
		OP	OR	OL	OF	NO		UO	UC	W	M	N	VL	NO	SU	U	M	L				

COMMENTS

REVIEWED DATE 5/5/90

5/10

ADFG MULTI-ASSESSMENT DATA FORM

SURVEY TYPE: SS OS TS AVS SCM MMS PTA 2. REGION: PWS IP,CI KAP

METHOD: Aerial Ground Boat

3 DATE: 5/1/90 15 HIGH TIDE TIMES: 0731 1 21 TEAM RECORDED: JEFFREY BARNHART
Gus Garcia, William Rod

4 START TIME: 1245 16 HIGH TIDE HTS: 8.2 1 22 OBSERVERS: Pike John McNally
Fawcett

5 STOP TIME: 1350 17 LOW TIDE TIMES: 1440 1 1449 1 23 AGENCY: ADFG, Exxon, WWC, WWC, US

6 SEGMENT #: FB005 18 LOW TIDE HTS: 0.2 1 24 PHOTOS TAKEN: Y (N)

7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

8 K-UNIT: K03-02 20 USCG QUAD: _____ 25 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: 252-30 21 STAT AREA: _____ Starts: _____ Ends: _____

10 LAT: 58° 14' 54" 22 LONG: 152° 19' 33" 26 SAMPLES TAKEN: Y (N) Number: _____

11 SOURCE: Map Loran Anal Catalog 27 OIL: _____

12 LOCATION: N.W. Izhut Bay, Atopak Island 28 Sediment: _____

13 DESCRIPTION: _____ 29 Biological: _____

30 Water: _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	W	N	L	V	W	N
27 SURFACE COVERAGE	400	1	400	5	0	0	0	0
28 SURFACE THICKNESS	1-2cm							
29 PENETRATION	surface				0	0	0	0
30 OVERALL OIL IMPACT:	N	VL	L	M	H			
31 OIL TYPE:	Pooled	<u>Mousse</u>	<u>Tar</u>	Asphalt	Sticky	Stain		
32 OILED DEBRIS	Y	<u>(N)</u>						
33 SHORELINE TYPE:	Headland	Low-lying Rocks	Beach	Cove				
		Lagoon	Marsh					
34 WAVE EXPOSURE:	High	Moderate	Low					
35 SUBSTRATE TYPE:	Bedrock	<u>10</u>	Boulder		Cobble	<u>70</u>		
	Gravel	<u>20</u>	Sand		Mud/silt			

36 CATALOGED ANAD. FISH SKELET Y N

37 CATALOG # 252-30-10020

38 STREAM NAME: Grassy Lagoon

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

41 OIL ON BEACH ADJACENT TO MOUTH? (N) N
 (within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y (N)

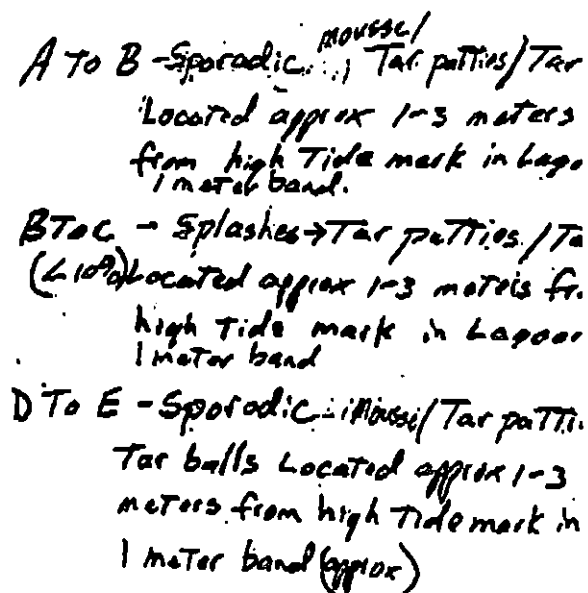
44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: Tar balls and Tar patties (surface) 1 meter wide band located 1-3 meters from high tide line in Lagoon. Rearing area for salmon fry, waterfowl area. Easy Type A cleanup recommended.

Jeff Barnhart

48 OIL DISTRIBUTION DIAGRAM



- Sample taken
- Photo frame # and

8/6

segment 18005
stream 252-36-10020
Ecological Summary

1 May 90
Michael Fawcett

This moderately large stream enters the northwest end of a mud-bottom lagoon that drains to the east. The lagoon is roughly oval, 150m by 250m. The bottom of the lagoon has infaunal clams, etc., and a large stand of eelgrass. The banks of the lagoon are composed of slate boulders/cobble/pebbles/gravel. Barnacles and Littorines are moderately dense through out the MTZ, mussels sparse except for a dense mussel bed in the high-current area near the lagoon mouth. Limpets (Collisella perssoni) are abundant on boulders and bedrock in the VTZ. Fucus and Rhodomele are abundant algae in MTZ. One stranded pink salmon fry was found on the stream bank. Oil consists of light sporadic tar balls and patties in MTZ and VTZ around the lagoon. Manual removal is recommended. No ecological constraints intertidal biota.

M. Fawcett

SHORELINE EVALUATION

SEGMENT ST/ K0302-IB-5 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sensitive estuary (8AA); Stream mouth (Asc #252-30, #10020). Out-
migration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31;
Possible bald eagle nest (5T) - contact ADF&G to verify eagle nest
location.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-
oiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS: If cultural resources are uncovered
during shoreline treatment, stop work in the vicinity, mark the
location of the find and contact a member of Exxon's Cultural Re-
source Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Adams DATE: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 362 m: No Oil 1172 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Manual pickup of mousse is recommended with a small
team (2-4 people) to minimize disturbance.

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90

ADEC JOHN BAUER John Bauer

EXXON ANDY BAL Andy Bal

NOAA Burt Wegert Burt Wegert

USCG G.A. REITER G.A. Reiter

FOSC: W L DATE: 4-20-90

OG Act

SEGMENT ST/ K3-2-1B-5

SUBDIVISION K3-2-1B-SA

DATE 3 / 31 / 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HM/LWR
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

Pt - No Subsurface Oil

2 ▲

Pt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

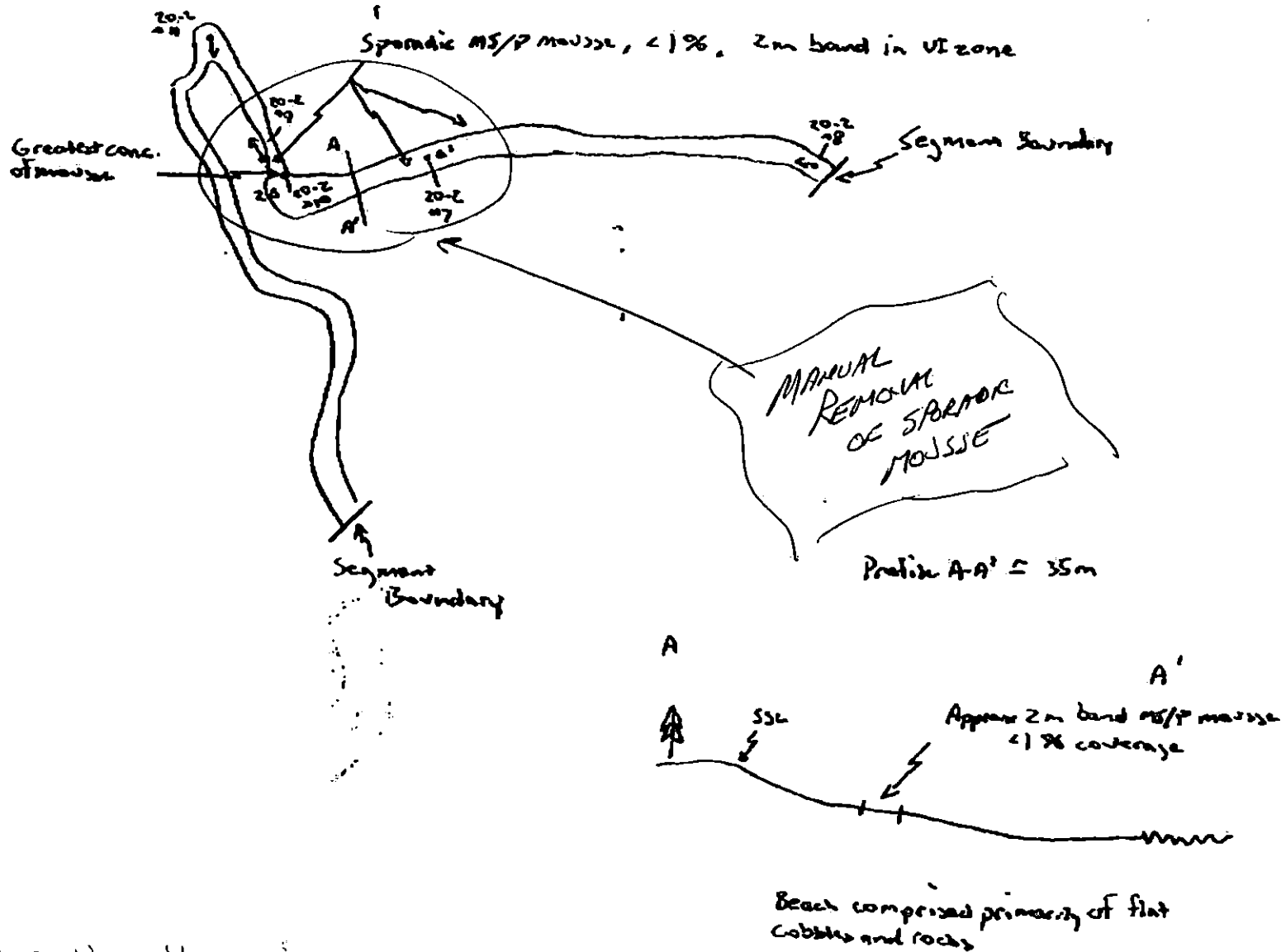
Oiled Vegetation

1 ➡

Photo location, direction, and number

SKETCH MAP

North ↑
Scale 1cm = 100m



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 3 MS 360 PT 0 TB 0 FL 0 NO 1150

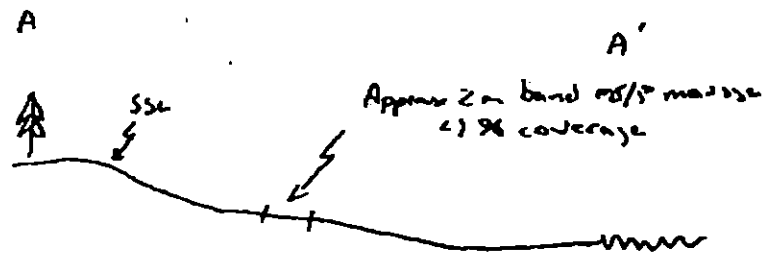
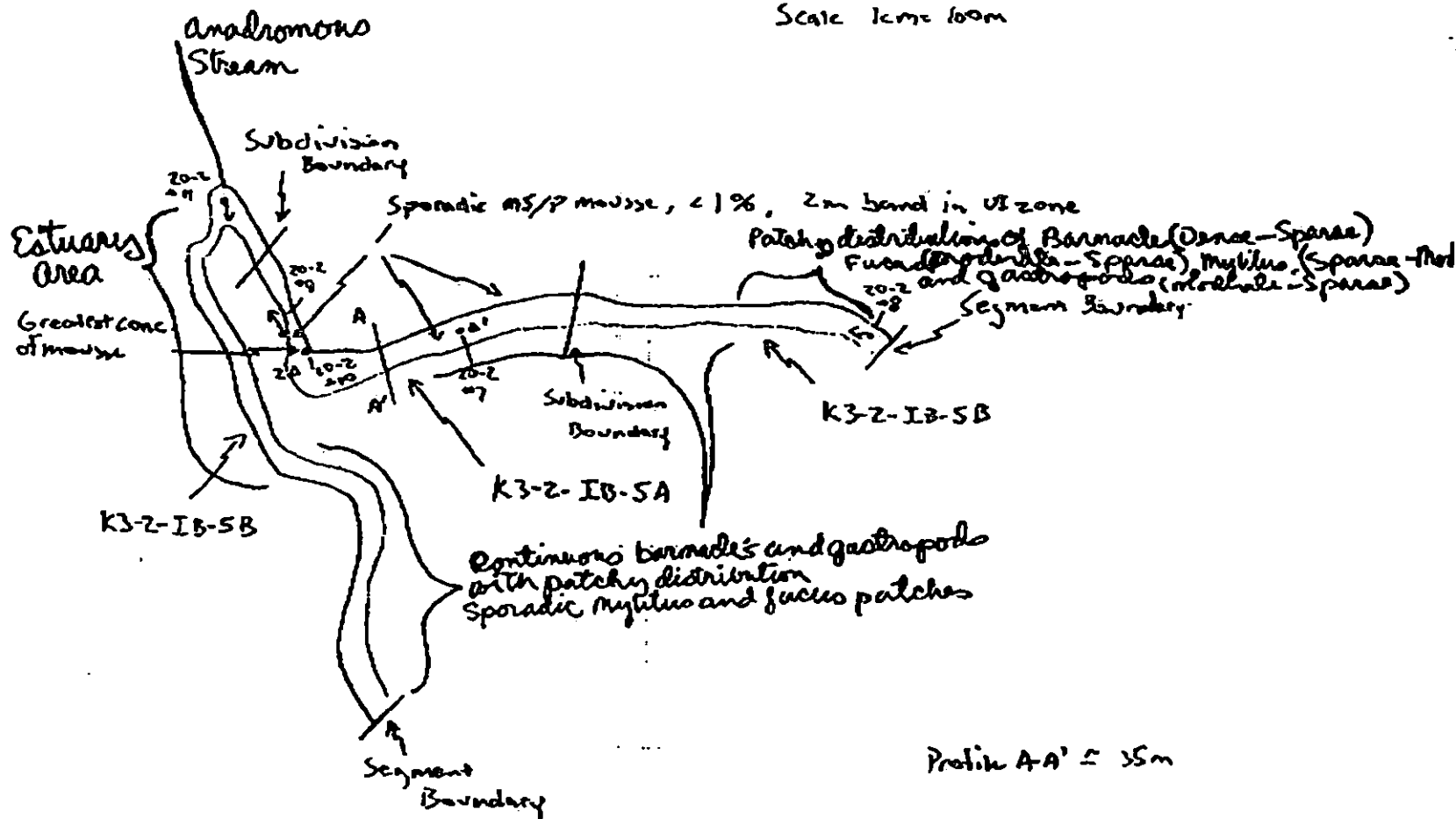
REVISION 02/90

Bio Davis

Segment ST/K03-02

Subdivision IB-05A

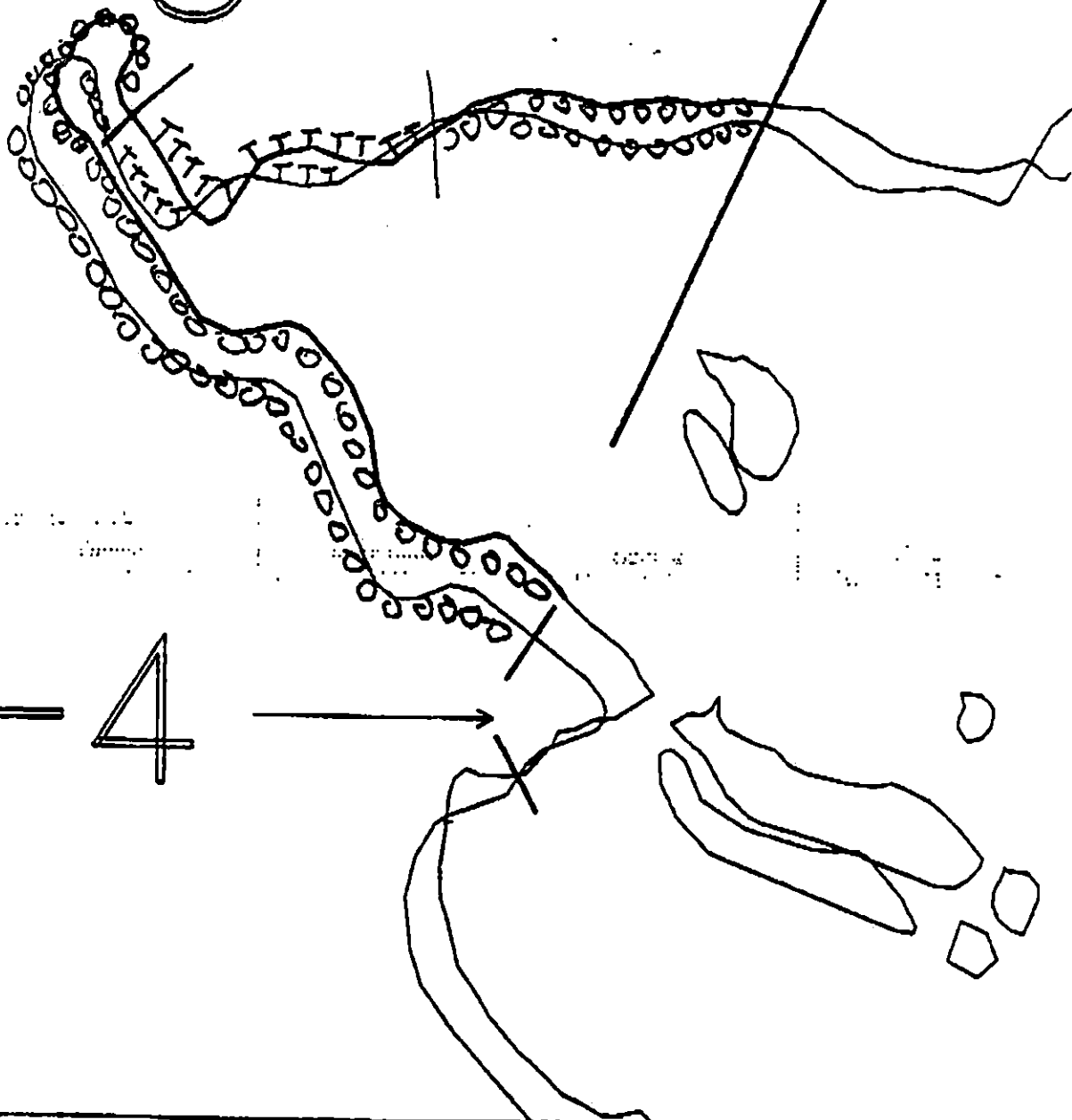
Date 3-31-90

BIO
SKETCH MAPNorth ↑
Scale 1cm = 100mBeach comprised primarily of flat
cobbles and rocks

K3-2-IB-5 A

IB-5

IB-4



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

IB-5

ADEC Segment Length: 1510m



Map Key: GOA-126

Name: Acton

Date: 3-31-90

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

K03-02-18-05
SEGMENT ~~K002-18-5~~ SUBDIVISION A (1 of 1)

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (252-31-10020) is in Subdivision A. No constraint to manual pickup.

5R Seabird Colony

NO CONSTRAINT. Work site is more than 800m from seabird colony.

5T Bald Eagle Nest

NO CONSTRAINT. USFWS map indicates no active nest within 400m of Subdivision A work site.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

FOSC W L Date 6-10-90

Prepared by J. P. Phillips Date 6/10/90

ANADROMOUS
STREAM
(252-31-10020)

WORK AREA

IB-5

IB-4

IB-3

IB-2

TREATMENT



Exxon Company, USA
Map Key: KOD-IB-5
May 17, 1990



ECOLOGY MAP
SEGMENT IB-5
SUBDIVISION A (1 of 1)
METERS
0 402 804

★ Seabird Colony
△ Eagle Nest

1 inch = 1320 feet

SHORELINE EVALUATION

SEGMENT ST/ K0302-IB-5 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sensitive estuary (8AA): Stream mouth (Asc #252-30, #10020). Out-
migration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31;
Possible bald eagle nest (5T) - contact ADF&G to verify eagle nest
location.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-
oiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS: If cultural resources are uncovered
during shoreline treatment, stop work in the vicinity, mark the
location of the find and contact a member of Exxon's Cultural Re-
source Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Homan DATE: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 362 m: No Oil 1172 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Manual pickup of mousse is recommended with a small
team (2-4 people) to minimize disturbance.

SEE CONST. ADDENDUM dated 6/10/90

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90

ADEC JOHN BAUER
EXXON ANDY KAL
NOAA Burt W. Woot
USCG G.A. REITER

FOSC: DATE: 4-12-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
- 1B Salmon stream mouth - spawning (7/15 TO 9/10; PEAK 8/15)
- 8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

ARCHAEOLOGICAL CONSTRAINT: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)). or

SHPO SIGNATURE: Rachel Jean Oden DATE: 6/01/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
☒ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: MANUAL PICKUP OF TARBALLS + PATCHES AS INDICATED
ON SKETCH

TAG APPROVAL DATE: 5/24/90.

ADEC Art Weiner Art Weiner

EXXON Ann Tsai Ann Tsai

NOAA Bar/Wescott Bar/Wescott

USCG M. J. HALL M. J. HALL

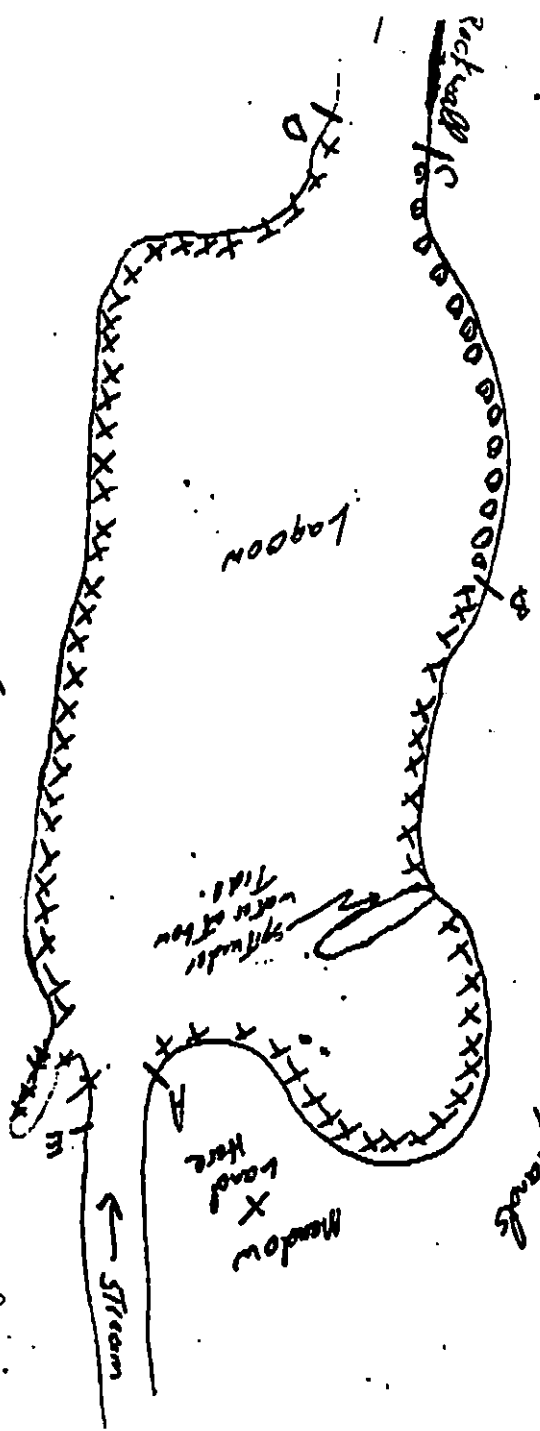
FOSC: [Signature] DATE: 6/4/90

A to B - Sporadic. (Moose/Tar patties) Tar located approx 1-3 meters from high tide mark in lagoon. 1 meter band.

B to C - Splashes/Tar patties/Tar located approx 1-3 meters from high tide mark in lagoon. 1 meter band.

D to E - Sporadic. (Moose/Tar patties) Tar balls located approx 1-3 meters from high tide mark in 1 meter band (approx)

Wooded uplands



Minimum pickup of
TAR BALLS + PATTIES
: Around Lagoon

48 OIL DISTRIBUTION DIAGRAM

DESCRIPTION

FRAME(S)

48 PHOTOLOG

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION A (1 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-4 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R-4 Seabird colony (5/1 to 9/1)
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
(Stream ID # 251-31-10025, 10030, 10040, and 10080)
8AA Sensitive estuary
9DD Mariculture
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: [Signature] DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 4123 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☒ No Treatment Recommended	☐ Snare/Absorbent Booms
☐ Treatment Recommended	☐ Oil Snares (pom poms)
☐ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: <u> </u> Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90
ADEC [Signature]
EXXON [Signature] FOSC: [Signature] DATE: 7-10-90
NOAA [Signature]
USCG [Signature]

J. Sprimmon

SKE MAP

MENT ST: K0203/IB08

DIVISION A

E 05/27/90

EXCLIST

✓ Arrow
✓ Approx. Scale
✓ Seg/Sub Entry
✓ Oil Data
✓ Altitude
✓ Length
✓ Cover
✓ Substrate Character
✓ Est. HWM/LWL
✓ SSL
✓ Profile Location(s)
✓ Profile(s)
✓ Pt Location(s)
✓ Photo Location(s)

GENO

1 ▲

No Subsurface Oil

2 ▲

Subsurface Oil

CT/C

Known Distribution

CT/B

on Distribution

CT/P

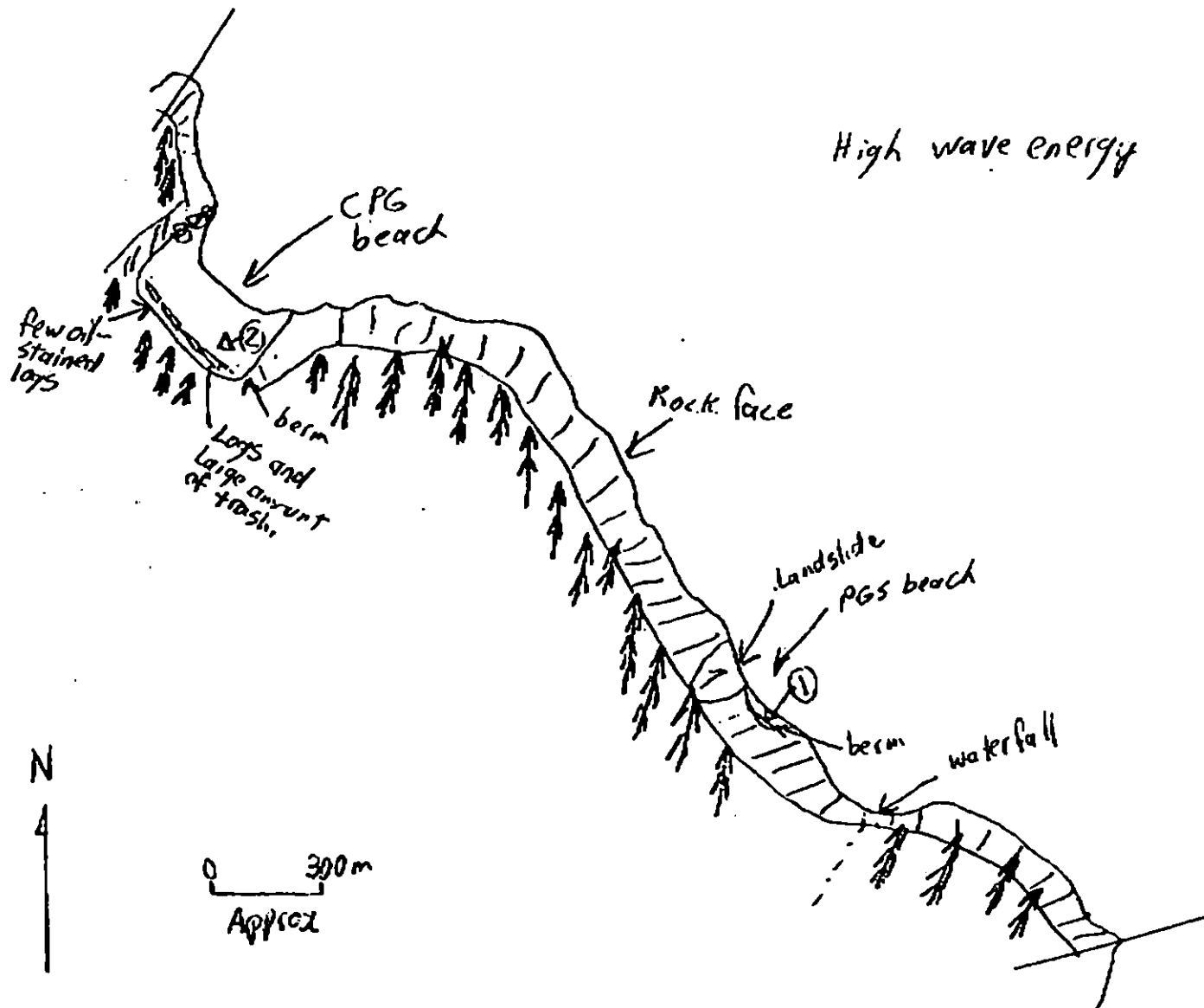
by Distribution

CT/S

shed Distribution

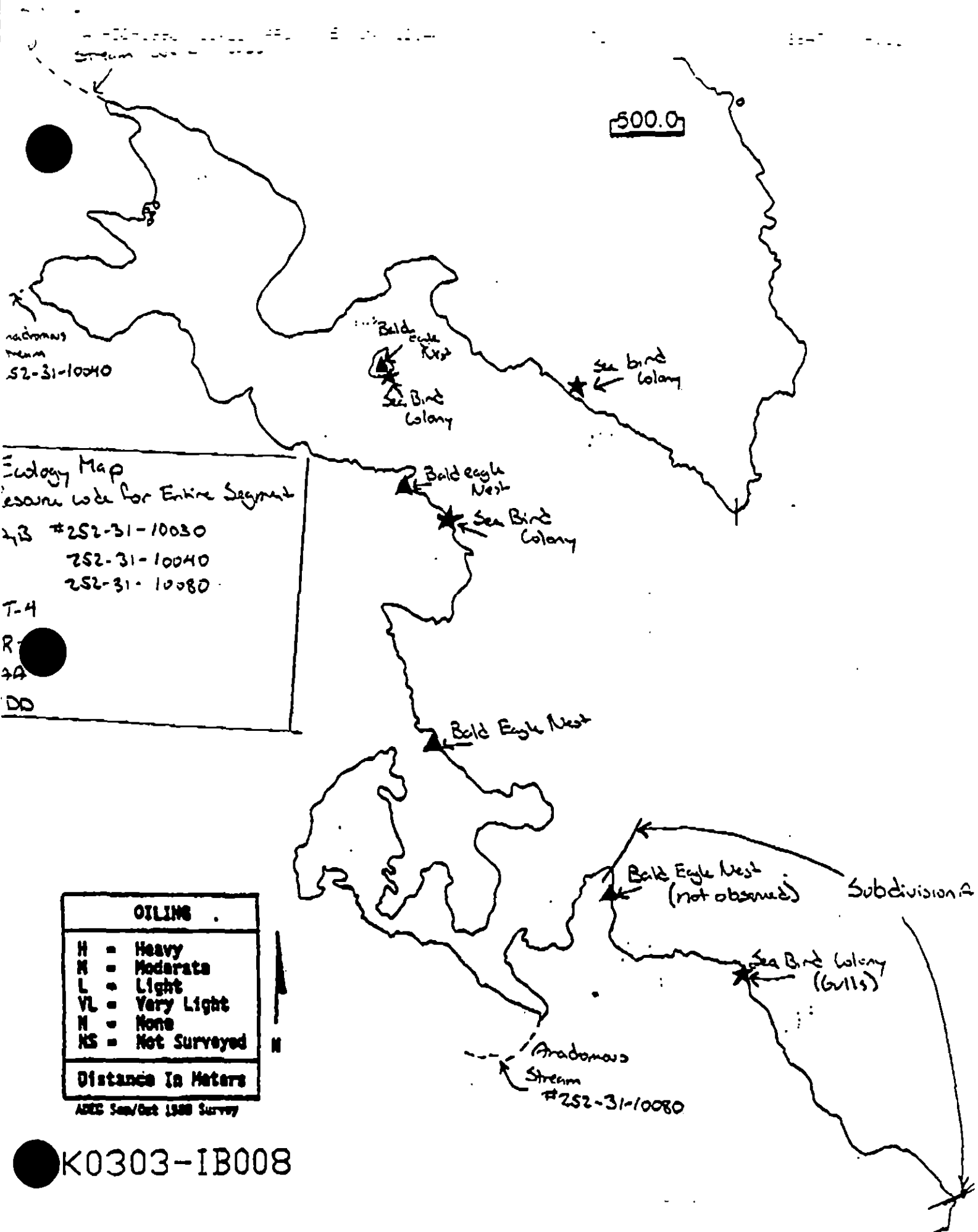
1 Vegetation

o location, direction,
number



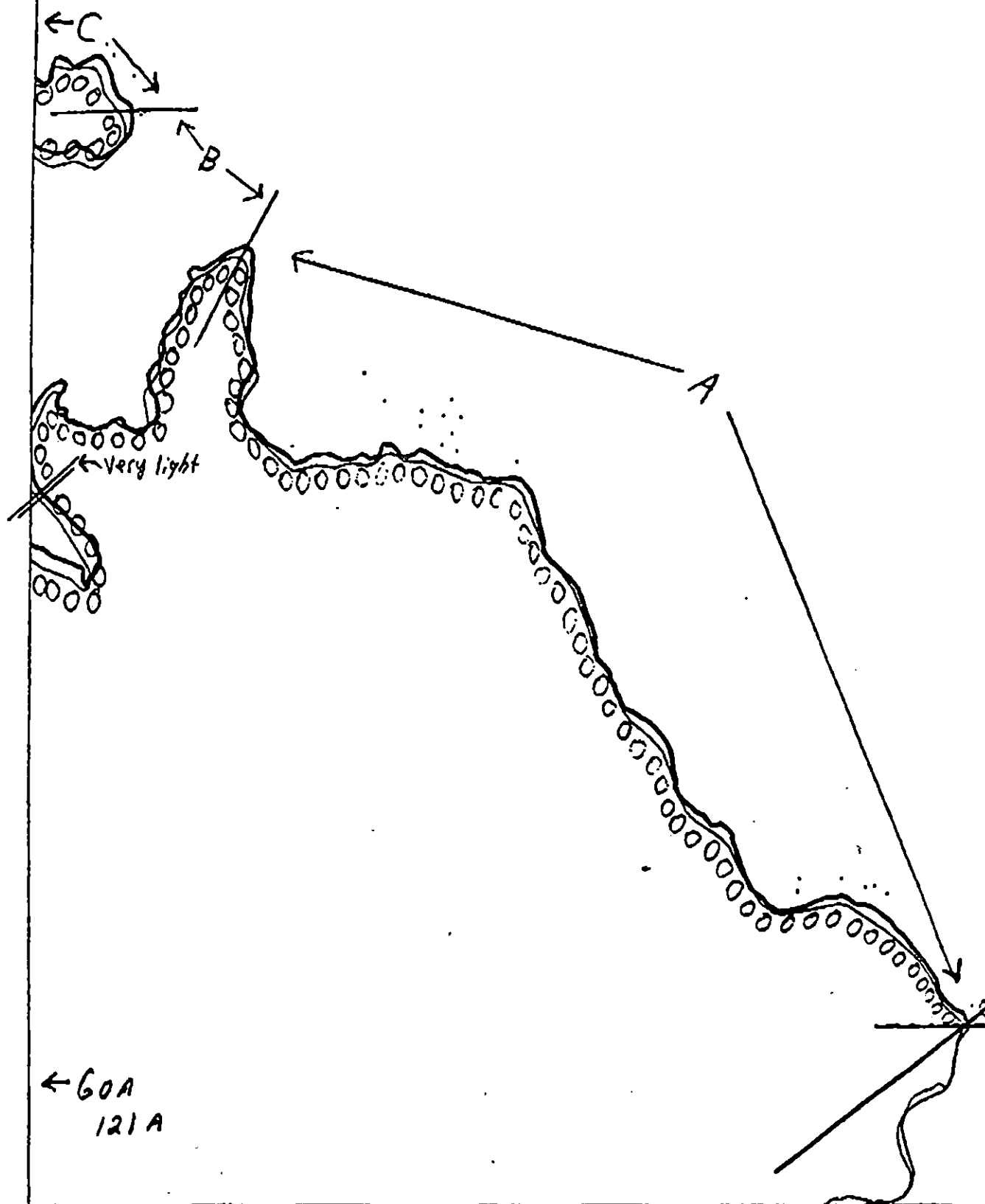
Parameter Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 3,900

REVISION: 03/24/90



K0303-IB008

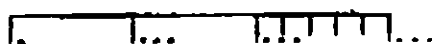
↑
60A
121D



XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light

IB-8

ADEC Segment Length: 31,692 ~~34,632~~m



Map
 Name: J. Spring
 Date: 5/27/90

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION B (2 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

T-4 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R-4 Seabird colony (5/1 to 9/1)
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
(Stream ID # 251-31-10025, 10030, 10040, and 10080)
8AA Sensitive estuary
9DD Mariculture
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: [Signature] DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 185 m: No Oil 10928 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90

ADEC Ron Meach's R. Meach
EXXON ANDY TEAL FOSC: [Signature] DATE: 7-10-90
NOAA Joseph T. [Signature]
USCG G.A. BEITER G.A. Reiter

OG J. S.onger

SEGMENT ST/ IB-8

SUBDIVISION B

DATE 05/27/90

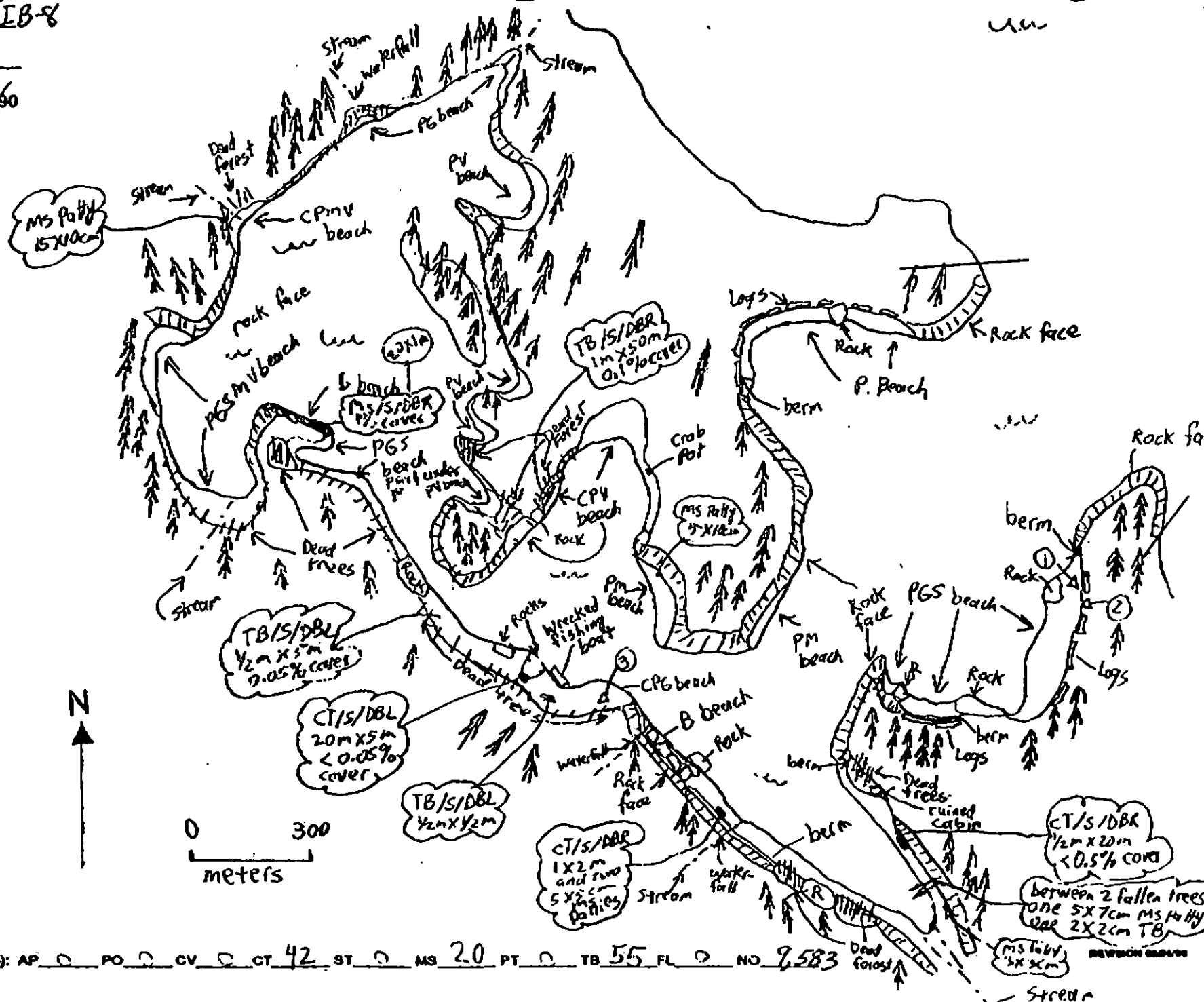
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HW/LWL
- ☐ SST
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

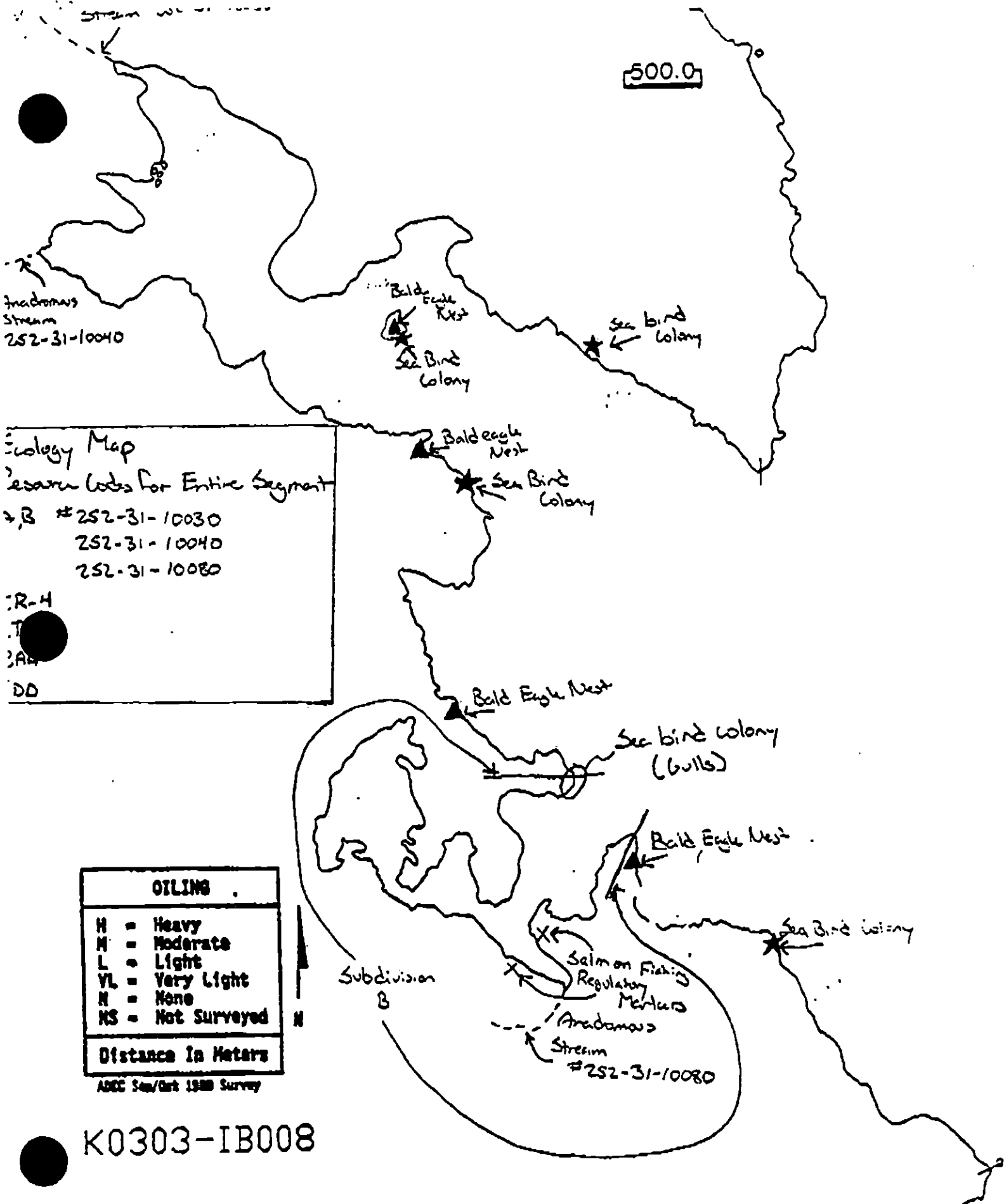
LEGEND

- 1 Δ
Pit - No Subsurface Oil
- 2 Δ
Pit - Subsurface Oil
- CT/C
Continuous Distribution
- CT/B
Broken Distribution
- CT/P
Patchy Distribution
- CT/S
Splashed Distribution
- Oiled Vegetation
- 1 $\rightarrow$
Photo location, direction, and number

SPRUCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 42 ST 0 MS 2.0 PT 0 TB 55 FL 0 NO 9.583



K0303-IB008



GOA
121B →

K3

D11-2

XXXX Wide

IB-8

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

ADEC Segment Length: 31692
~~34632m~~



METERS



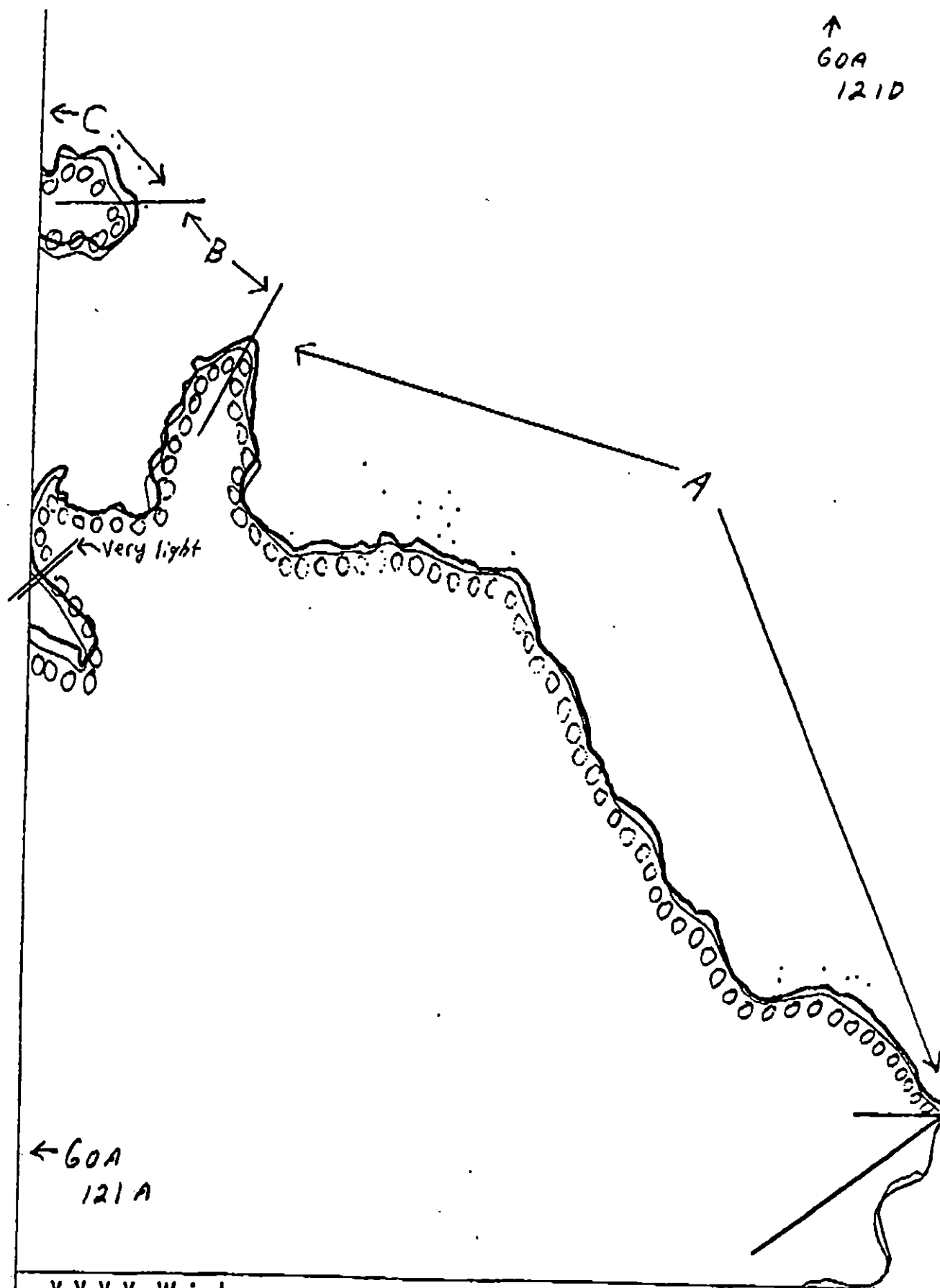
Map Key: GOA-121a

Name: J. Springer

Date: 5/27/90

Data Entered:

↑
GOA
121D

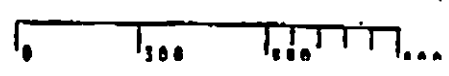


← GOA
121A

XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
OOOO "

IB-8

ADEC Segment Length: 31,692
~~34,632m~~



Map
Name: J. S. Y.
Date: 5/27/

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION C (3 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

BT-4 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R-4 Seabird colony (5/1 to 9/1)
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
(Stream ID # 251-31-10025, 10030, 10040, and 10080)
8AA Sensitive estuary
9DD Mariculture
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE:

DATE:

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 23 m: V.Light 24 m: No Oil 6248 m
Subsurface Oil Observed: Yes _____ No ☒ _____ Maximum Depth

RECOMMENDATIONS:

<u> X </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE:

ADEC

EXXON

**NOAA
USCG**

FOSC:

DATE: 7-10-90

J. Spring

MENT ST/ IB-8

DIVISION C

TE 05/27/90

CHECKLIST

N Arrow
Approx. Scale
Seg/Sub Bndry
Oil Dist.
Width
Length
% Cover
Substrate Character
Est. HWA/LWA
SSL
Profile Location(s)
Profile(s)
P/L Location(s)
Photo Location(s)

LEGEND

1 Δ
No Subsurface Oil

2 Δ
Subsurface Oil

CT/C
various Distribution

CT/B
even Distribution

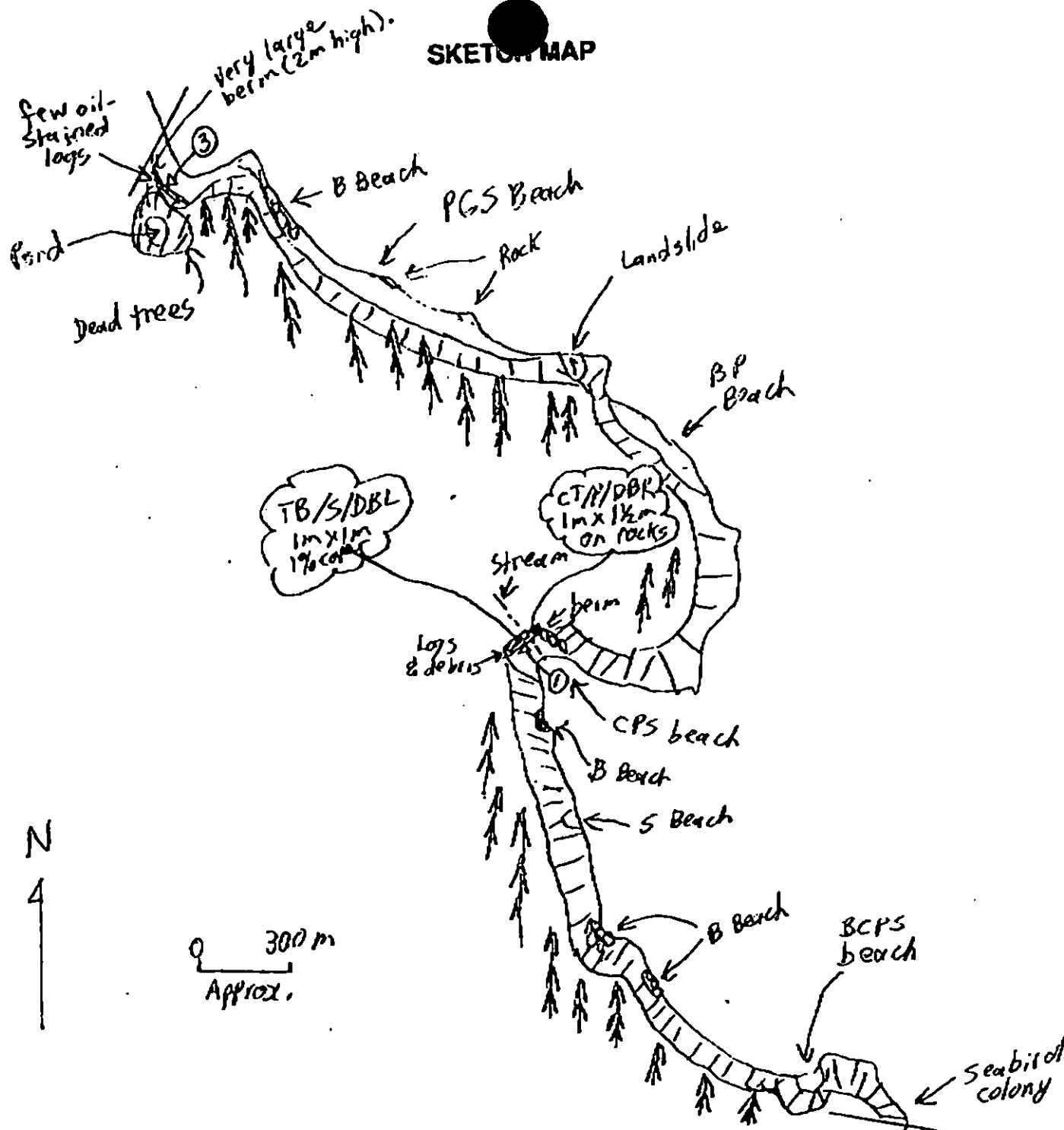
CT/P
edge Distribution

CT/S
stashed Distribution

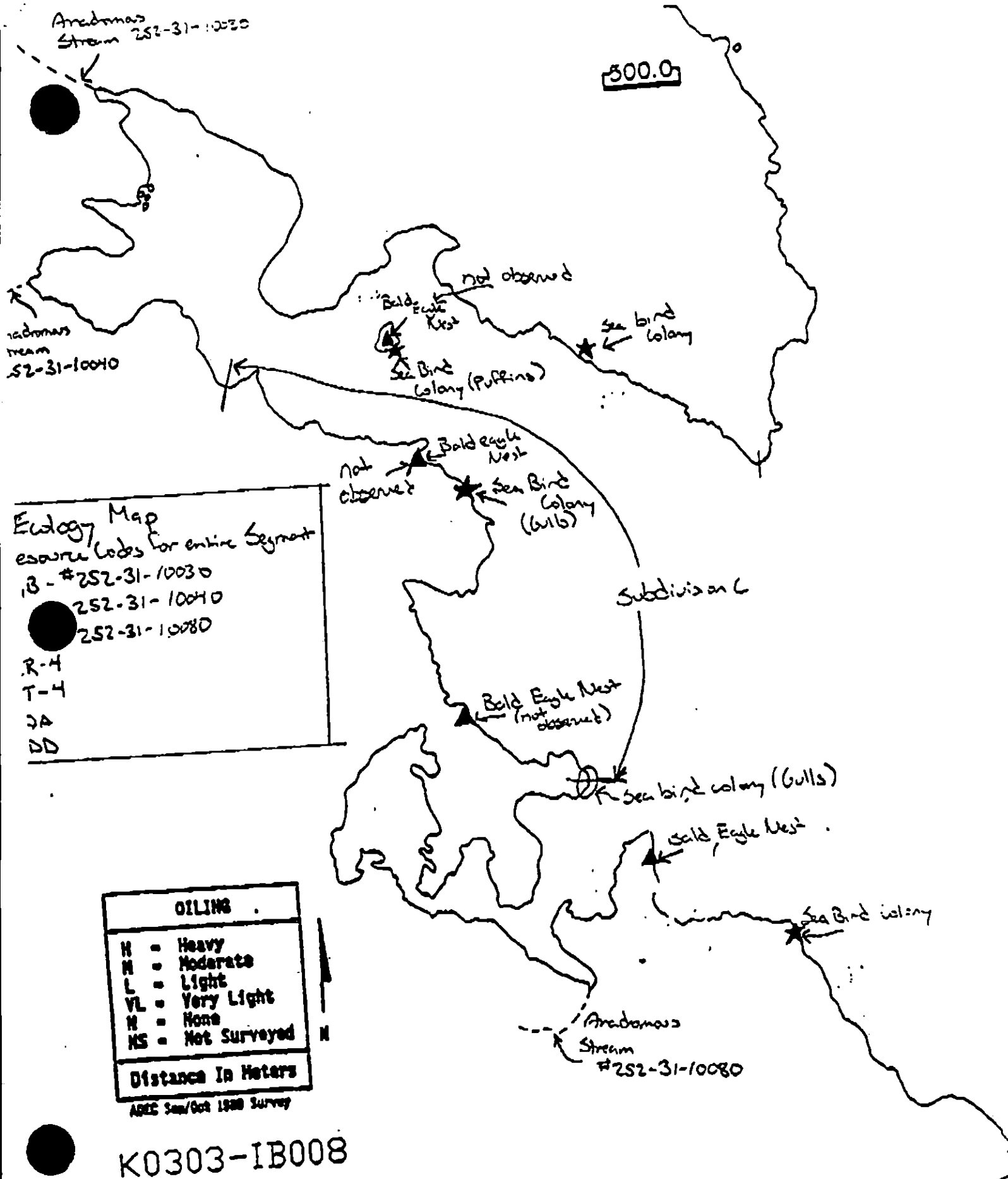
led Vegetation

1 $\Rightarrow$
ross location, direction,
all number

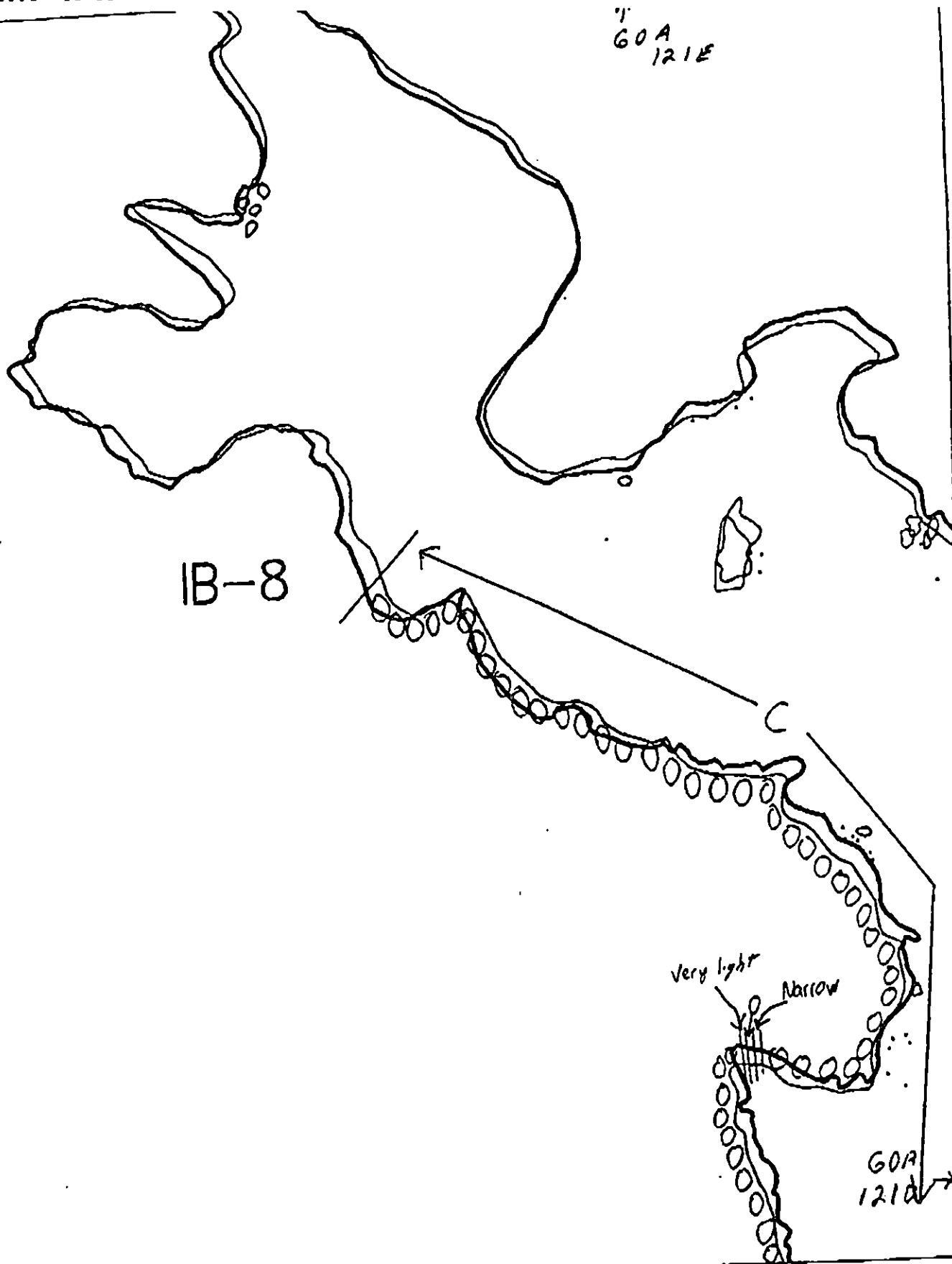
SKETCH MAP



Character Length (m): AP 0 PO 0 CV 0 CT 1 ST 0 MS 0 PT 0 TB 1 FL 0 NO 8,715



GOA
121E



XXXX Wide

IB-8

31692

/// Medium

ADEC Segment Length: ~~34632m~~

--- Narrow

TTTT Very Light

0 100 200 300



Map Key: GOA-121c

Name: J. Springer

Date: 5/27/90

Date Entered:



GOA →
121B

K3

DU-2

XXXX Wide

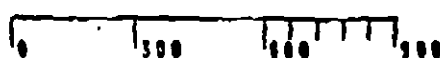
//// Medium

---- Narrow

TTTT Very Light

IB-8

ADEC Segment Length: 31692
~~34632~~m



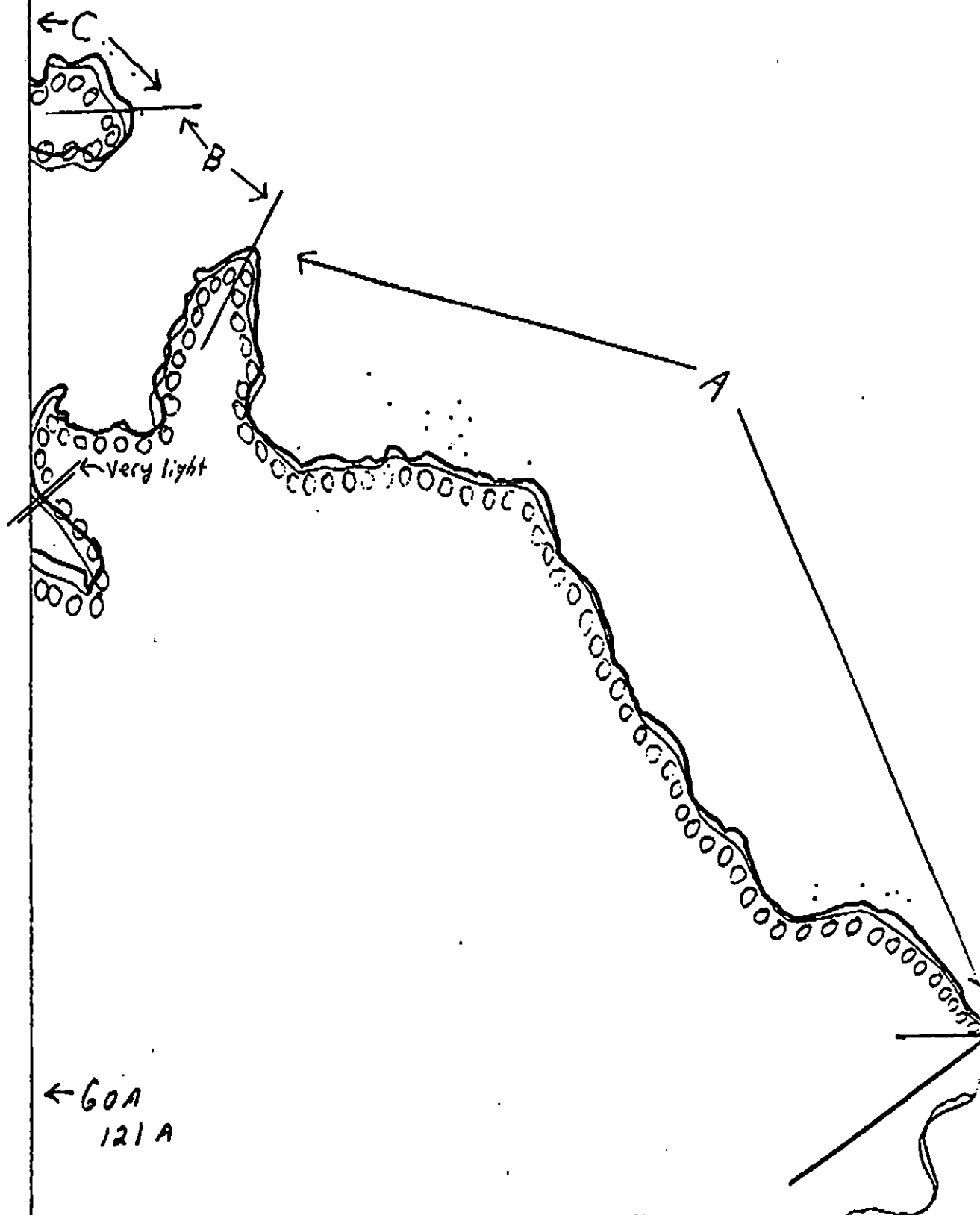
Map Key: GOA-121a

Name: J. Springer

Date: 5/27/90

Data Entered:

↑
60A
121D



XXXX Wide

//// Medium

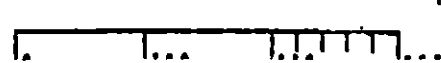
--- Narrow

TTTT Very Light

IB-8

31,692

ADEC Segment Length: ~~34632m~~



Map #

Name: J.S.

Date: 5/27

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION D (4 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

T-4 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R-4 Seabird colony (5/1 to 9/1)
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
(Stream ID # 251-31-10025, 10030, 10040, and 10080)
8AA Sensitive estuary
9DD Mariculture
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles E. Holmes DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 0 m: No Oil 11672 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☒ No Treatment Recommended	☐ Snare/Absorbent Booms
☐ Treatment Recommended	☐ Oil Snares (pom poms)
☐ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: <u> </u> Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90

ADEC Roy McKee R. McKee
EXXON Andy Tera
NOAA Joseph Talbot
USCG G.A. Reuter G.A. Reuter

FOSC: ML DATE: 7-10-90

IG Mike

SKETCH MAP

SEGMENT ST/ K0303/IB-008

SUBDIVISION 0

DATE 5 / 27 90

CHECKLIST

- ☐ N Area
- ☐ Apprx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAWAIIAN
- ☐ SGL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
PH - No Subsurface Oil

2 Δ
PH - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patched Distribution

CT/S
Splashed Distribution

eee
Oiled Vegetation

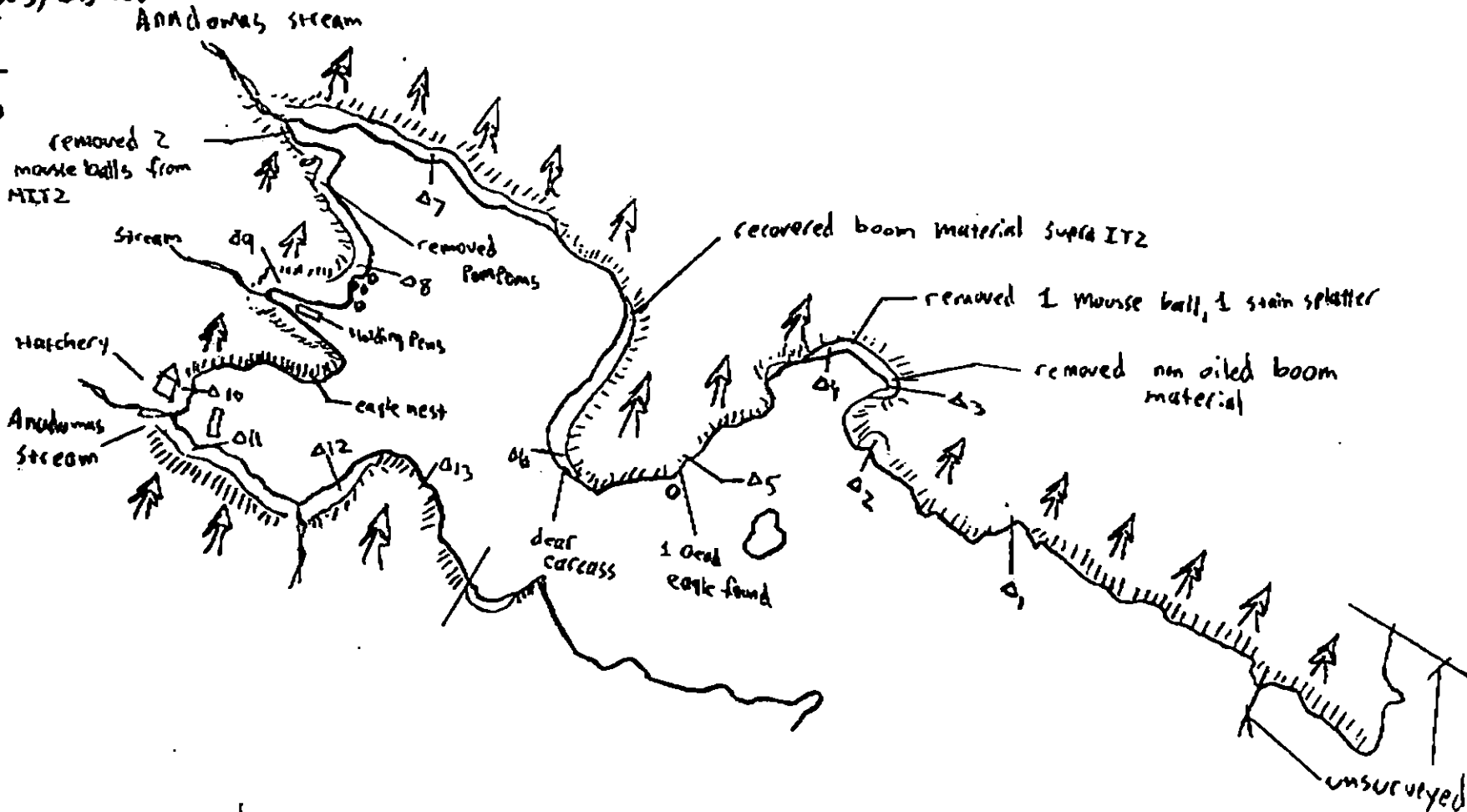
1 ●
Photo location, direction,
and number

Legend

□ - holding Pens

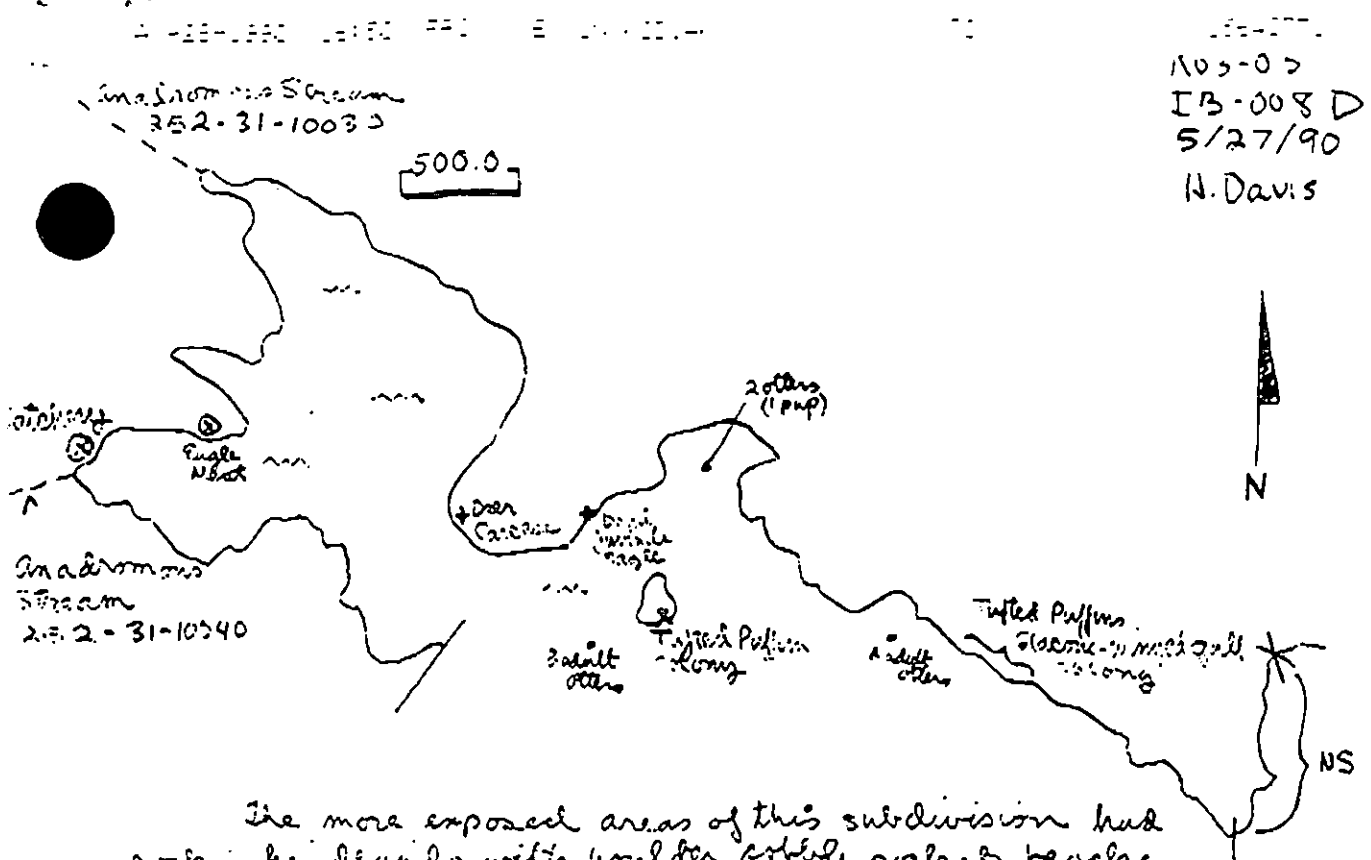
Hll - steep to high angle
Shore zone

↑ - Forest



Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 9375

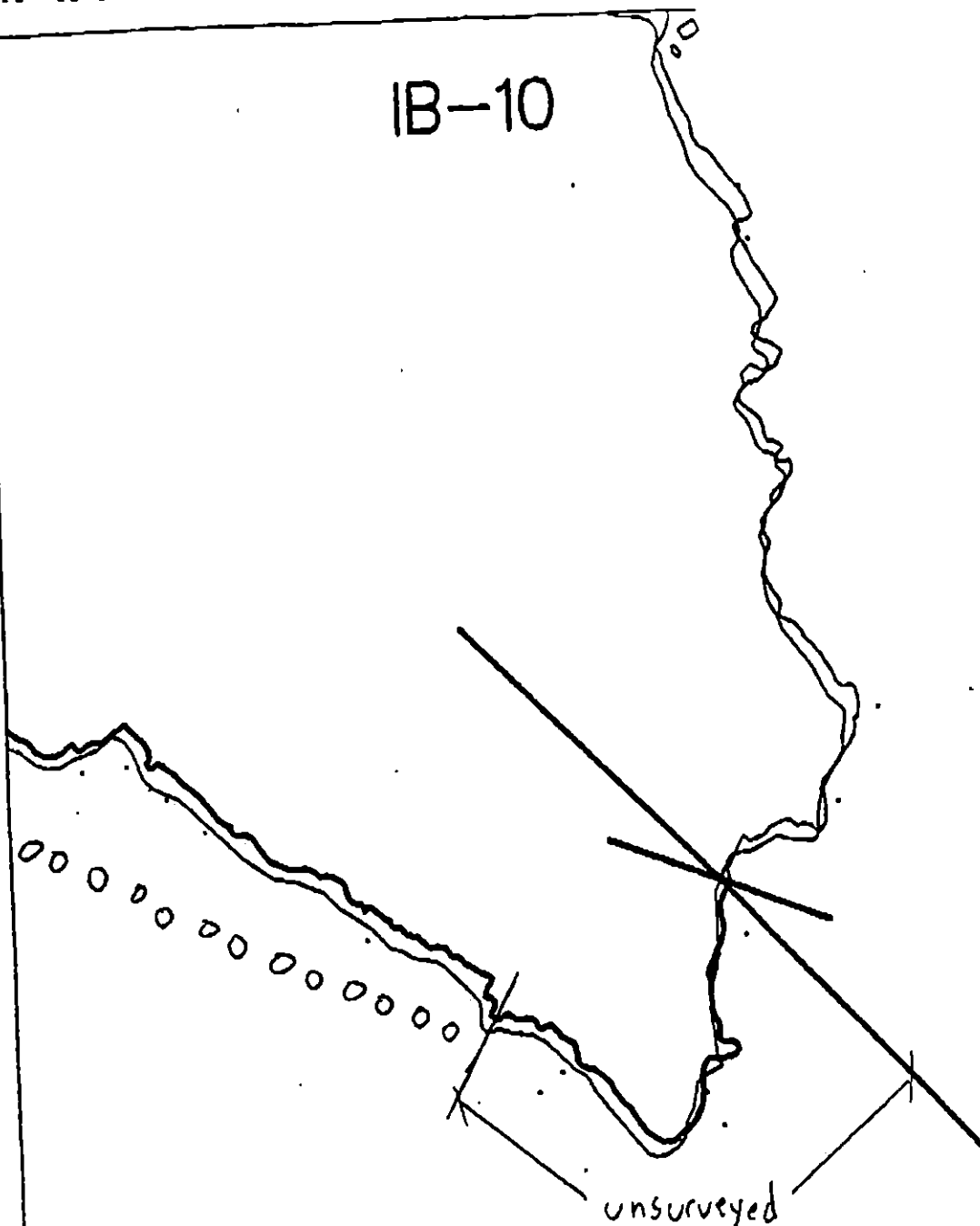
REVISION 01/24/90



The more exposed areas of this subdivision had rocky headlands with boulder stble pocket beaches. It had a more diverse community than the more protected areas. UTZ: *Balanus*, *Chthamalus*, *Mytilus*, *Notoacmea*, *Collisella*, *Littorina*, *Uncella*, *Porphyra*, *Endocladia*, *Cladophora*, *Fucus*, *Rhynchocoela*, and annalids. MTZ: *Halosaccion*, *Porphyra*, *Odonthalia*, *Gloiopelta*, *Bridaea*, *Corallina*, *Notoacmea*, *Lamellaria*, *Tonella*, *Kutharua*, *Pisaster*, *Evasteria*, *Anthopleura*, *Spiracles*, *Scalworns* and *Halichondria*. LTZ *alaria*, *Costaria*, *Pleuraphuca*, *Lamunaria*, *Rhodomenia*, *Corallina*, *Mopalia*, *Halichondria*, *Pagurus*, *Pisaster*, *Pycnapodia*, *Uncella* *humilis*, *Scarlina* and sculpins.

The more protected areas had higher angle beaches between cliff faces with a less extensive flora and fauna. UTZ *Barnacles*, *limpets*, *Littorina*, *Mytilus*, *Fucus*, *Gloiopelta*, *Ulva*, *Green filamentous algae*, *Pagurus* and tufts of *Endocladia*. MTZ *Barnacles*, *limpets*, *Littorina*, *Mytilus*, *Modiola*, *Dermasterias*, *Pagurus*, *Fucus*, *Odonthalia*, *Rhodomenia*, *Scytosiphon*, *Gloiopelta*, *Ulva* and *Bridaea*. LTZ *Fucus*, *Filamentous green algae*, *diatom mats*, *Costaria*, *Henricia*, *Dermasterias*, *Prichthodons*, *Pagurus*, *Mytilus*, *Modiola*, *Saridonus* (shells), *Protocera*, *Chimocardium* (shells), *Archeis*, *Scarlina*, *Neris*, *Polinices* or *Natica*? *Nereis*, *Zostera* beds.

IB-10

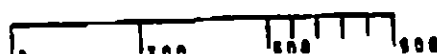


← GOA
1212

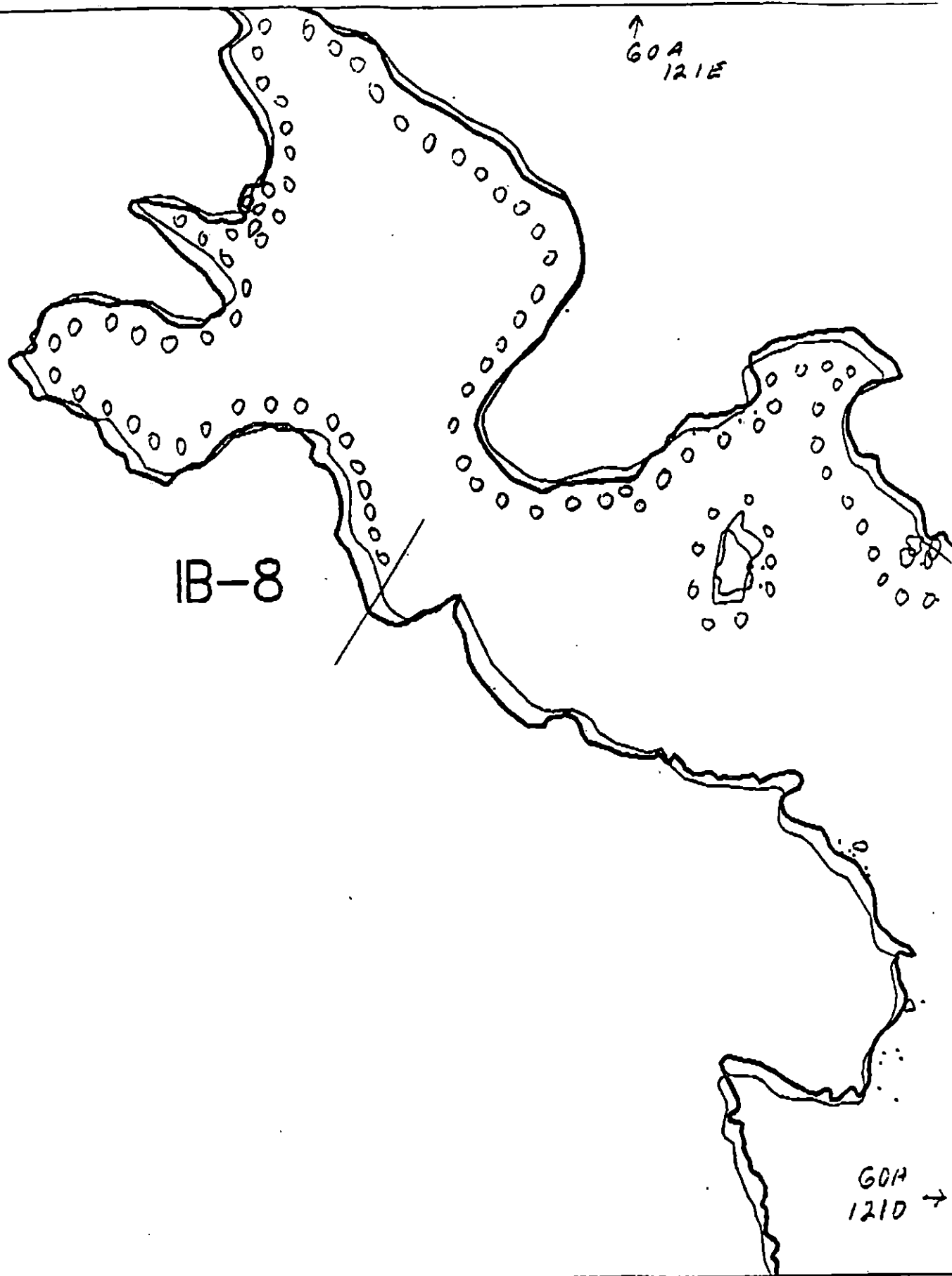
XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light

IB-8D

ADEC Segment Length: 34632m



Map K
 Name Mike F.
 Date: 5/27/



XXXX Wide
 /// Medium
 --- Narrow

IB-80

ADEC Segment Length: 34632m

Map Key: GOA-121c

Name: Mike Fager

1111 1111 1111

REGION: KODIAK

SEGMENT: ST/K03-03-IB-008

SUBDIVISIONS: A (1 OF 4)

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION A (1 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-4 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R-4 Seabird colony (5/1 to 9/1)
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
(Stream ID # 251-31-10025, 10030, 10040, and 10080)
8AA Sensitive estuary
9DD Mariculture
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 4123 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	☐ Snare/Absorbent Booms
☐ Treatment Recommended	☐ Oil Snares (pom poms)
☐ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

1A
1B

Salmon stream mouth - fry outmigration (4/15 to 7/31)

Salmon stream mouth - spawning (7/15 to 8/10; PEAK 8/15)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299

1C

Salmon fry nursery area (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

1D

Kodiak Bay Hatchery release

Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.

1H

Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

1I

Gill net area

1J

Purse seine area

Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)

East side Kodiak, East side Afognak (7/4 to 10/1)

1K

Purse seine hook-off

1L

Set net sites

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791

2M

Herring spawning (4/15 to 6/30)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncultivated intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791

3000Q

Harbor seal and sea lion pupping (5/10 to 7/1)

Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

5R

Seabird colony (5/1 to 9/1)

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

5S

Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2206

5T

All Bald Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U

Recreation:

Tent sites (6/1 to 9/15)

6V

Anchorage (6/1 to 9/15)

6W

Forest Service cabins (6/1 to 9/15)

6X

Lodge (6/1 to 9/15)

6Y

Special use destination

7Z

Subsistence area: Salmon harvesting (6/1 to 9/30)

Finfish harvesting

Deer harvesting (8/1 to 1/7)

Invertebrate harvesting

Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 K0303-TB08 SUBDIVISION: A DATE 05/27/90

USCG

NAME C.B. NANCE JR SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

the only oil observed in this subdivision was light staining
on wood debris. No treatment recommended.

LAND MANAGER

NAME JOHN P. HARDISIER SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

USFWS

No treatment recommended.

SHORELINE OILING SUMMARY

REVISION NO. 24.12.80

OG T. Springer USCG C. Nance SEGMENT ST/ K0303/IB03
 BI D. Lohse LAND REP J. Hardister SUBDIVISION A (1 OF 4)
 EXXON E. Byers ADEC T. Ellsworth TIME 09:00 to 10:30
 TEAM NO. 19 TIDE LEVEL _____ DATE 05/27/90
 EST. SUBDIVISION LENGTH: 3,900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: SW to NE
 SURFACE SEDIMENTS: R 80 % B 3 % C 5 % P 5 % G 5 % S 2 % M 0 % V 0 %
 SLOPE: Lang 10 % Hang 10 % Vert 80 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 3,900 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	10	15	10	15	10	15	10	15	10	15	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSE																
PARTS																
TARBALLS																
FILM																
NO OIL													X	X	X	X

PAVEMENT H F S 0 sq. m by 0 cm

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒

TYPE SW

#BAGS 0

Photographs:

Roll No. 1

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	T	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UC	UC	10	15	10	15	10	15	10	15	SU	U	M	L				
1	50					X	.	X										X							CPG/PG
2	50					X	.	X										X							CS/CS
							.																		
							.																		
							.																		
							.																		

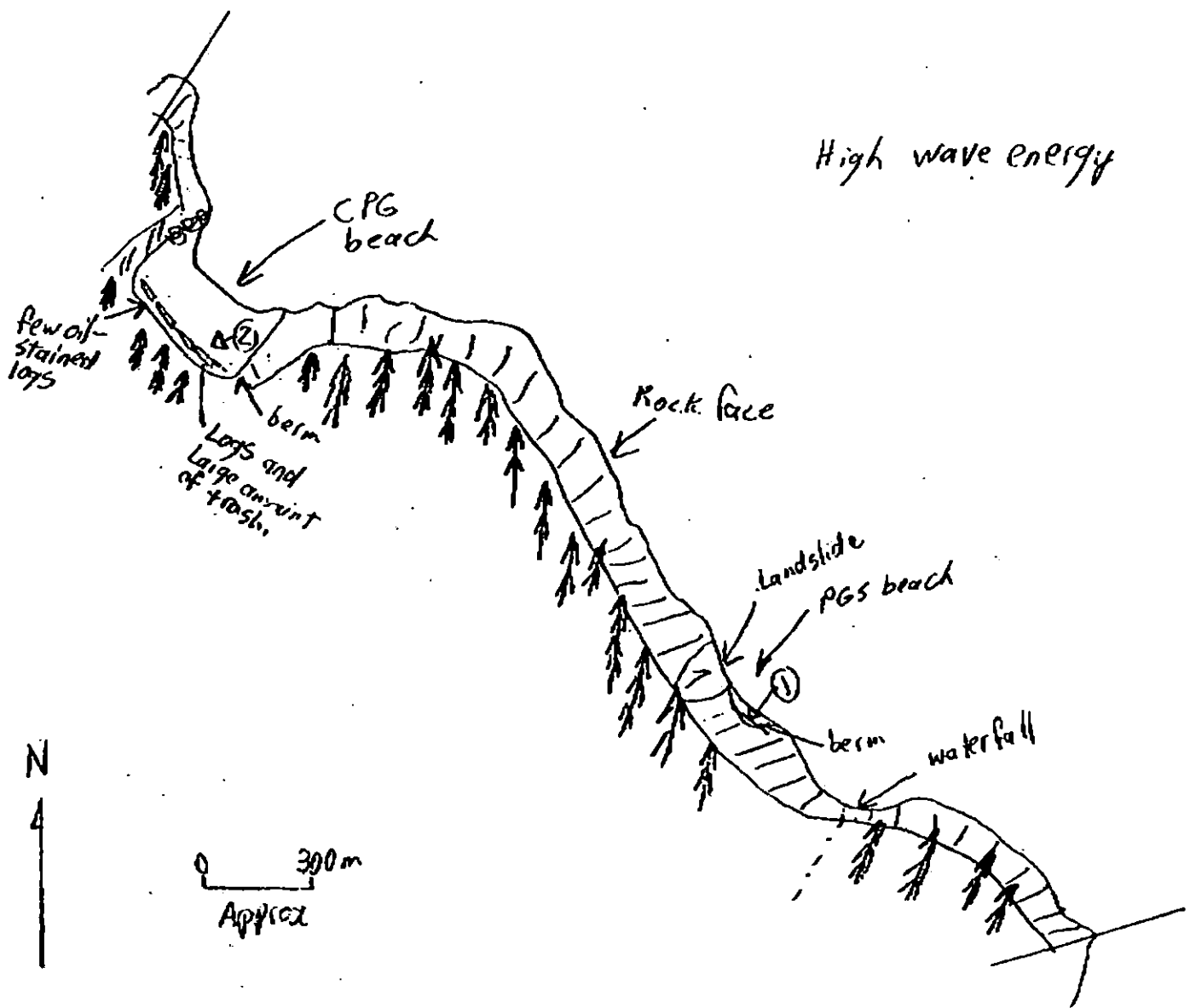
MENTS Very high energy shoreline.

J. Spring
MENT ST/ K0203/IB08
DIVISION A
E 05/27/90

SKETCH MAP

- ECKLIST
- ✓ Arrow
 - ✓ Approx. Scale
 - ✓ Seg/Sub Entry
 - ✓ Oil Dist.
 - ✓ High
 - ✓ Length
 - ✓ Cover
 - ✓ Substrate Character
 - ✓ Est. HWW/LWL
 - ✓ ISL
 - ✓ Profile Location(s)
 - ✓ Profile(s)
 - ✓ % Location(s)
 - ✓ Photo Location(s)

- GENQ
- 1 ▲
No Subsurface Oil
 - 2 ▲
Subsurface Oil
 - CT/C
Coarse Distribution
 - CT/B
In Distribution
 - CT/P
By Distribution
 - CT/S
Shed Distribution
 - Vegetation
 - location, direction, number



High wave energy

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/k3-3/18-8 Subdivision A Date (mo / day / yr) 5-27-90

Time (24 hr) 9:00 Biologist David Cohen

- (A) Substrate type and % of segments:
 (1) Bedrock 80 (2) Boulder 3 (3) Cobble 5 (4) Pebble 5 (5) Sand 7 (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 50 Moderate 25 Low 25
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
 Roll No. ST-19-100

Frames 20

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

See page 2

Biological Considerations:

A. Streams #252-31-10080 } none located in this subdivision
 252-31-10010 }
 252-31-10030 }

R - One gull nesting colony located in subdivision. See ecology map

T - 7 muskrats and one immature bald eagle spotted in area. However no nests observed

Segment ST/K3-3/IB-8

Subdivision A

5-27-90

3 biologist! David Lohse

Life Observations/General Comments

1. Present in low intertidal - *Iridea*, *Alaria*, *Rhodomenia*, *Epiactis*, *Anthopleura*, *Orchidella*, *Ulva*, *Cladophora*, coralline algae

mid intertidal: *Ulva*, *Porphyra*, *Ralfsia*, *Alaria*, unknown *Elkmanthus* red (Day-se?), *Cladophora*, *Endocladia*, *Rhodamelia*, *Emplectonema*, *Desmarestia*, *Orchidella*

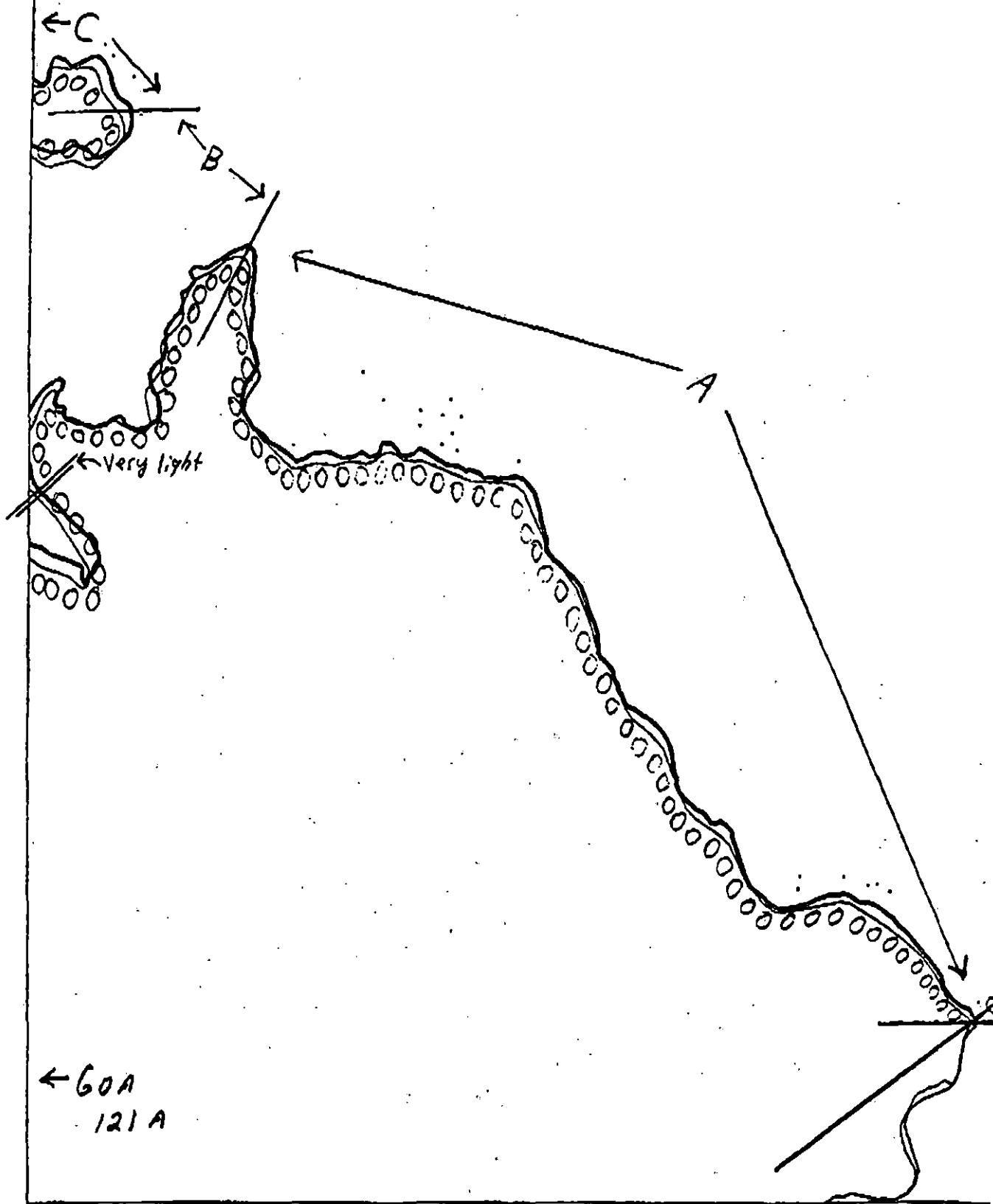
2. Most of subdivision was surveyed by boat due to hazardous wave conditions. Therefore abundances listed on page 1 are based on small sample sizes and should be considered rough estimates.

3. One sea otter, 3 pair Gullenots, and one deer-spotted in area. ~~Boat~~ Approximately 15 tufted and 2 horned Puffins, 8 cormorants, and several Harlequin ducks were spotted during the trip from the boat to the beach.

4. On the two pocket beaches surveyed on foot the boulders and bedrock on the southern sides were rich in species, while the northern sides were covered with *Ulva*/*Enteromorpha* and abundant recent *Diadema* recruits, ~~sea~~

5. Algal cover on low intertidal bedrock was ~95%.

↑
60A
121D

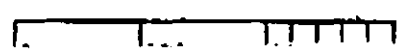


← 60A
121A

XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light

IB-8

ADEC Segment Length: 31,692
~~34,632m~~



Map #
 Name: J. Spring
 Date: 5/27/90

REGION: KODIAK

SEGMENT: ST/K03-03-IB-008

SUBDIVISIONS: B (2 OF 4)

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION B (2 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-4 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R-4 Seabird colony (5/1 to 9/1)
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
(Stream ID # 251-31-10025, 10030, 10040, and 10080)
8AA Sensitive estuary
9DD Mariculture
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 185 m: No Oil 10928 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

1A
1B

Salmon stream mouth - fry outmigration (4/15 to 7/31)

Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299

1C

Salmon fry nursery area (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

1D

Kotol Bay Hatchery release

Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.

1H

Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

1I

Gill net area

1J

Purse seine area

Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)

East side Kodiak, East side Afognak (7/4 to 10/1)

1K

Purse seine hook-off

1L

Set net sites

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791

2M

Herring spawning (4/15 to 6/30)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Larry Nicholson 488-4791

Harbor seal and sea lion pupping (5/10 to 7/1)

Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

SR

Seabird colony (5/1 to 9/1)

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

5S

Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Rothy 267-2208

5T

All Bald Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 6/1)

Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U

Recreation:

Tent sites (6/1 to 9/15)

6V

Anchorage (6/1 to 9/15)

6W

Forest Service cabins (6/1 to 9/15)

6X

Lodge (6/1 to 9/15)

6Y

Special use destination

7Z

Subsistence area: Salmon harvesting (6/1 to 9/30)

7H-H

Finfish harvesting

7I

Deer harvesting (6/1 to 1/7)

Invertebrate harvesting

Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0303-IB08 SUBDIVISION: B DATE 5-27-90

USCG

NAME C. B. NANCE BM 1 SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

this segment subdivision contains occasional coat, tar balls and mousse patties which are more concentrated on the southern shore line than on the northern. Amounts of recoverable oil in this segment are extremely small. No treatment recommended.

LAND MANAGER

NAME John P. Hardister SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

USFWS

Small amounts of recoverable oil contamination do not warrant cleanup effort, thus, no treatment recommended.

SHORELINE OILING SUMMARY

OG J. Springer USCG C. Nance SEGMENT ST/ K0303/IB08
 BIO D. Lobse LAND REP J. Hardister SUBDIVISION B (2 OF 4)
 ON F. Byers ADEC T. Ellsworth TIME 12:00 to 15:30*
 M NO. 19 TIDE LEVEL -1 TO +4 1/2 DATE 05/27/90
 EST. SUBDIVISION LENGTH: 9,700 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☒ Boat ☒ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 30 % B 20 % C 10 % P 10 % G 10 % S 5 % M 10 % V 5 %
 SLOPE: Long 40 % Hang 40 % Vert 20 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 117 m NO 9,583 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	S	P	R	SP	BP	OP	TP	LP	UP	MP	LP	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
POUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0 cm

PATTIES / TARBALLS 5 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT			DID YOU COLLECT DEBRIS?
	SM	MD	LG	
Logs				YES ☐ NO ☒
Vegetation				
Trash				TYPE <u>—</u>
Debris				
				#BAGS <u>0</u>

Photographs:

Roll No. —

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE	A N A	SHEEN (Y/N)	SURFACE - SUBSURFACE SEDIMENTS
		CP	CR	CL	OP	NO		UO	UC	SP	BP	OP	TP	LP	UP	MP	LP				
1	40					X	.		X									X			S/SPC
2	40					X	.		X									X			CP/CP5
3	40					X	.		X									X			P/PG
							.														
							.														
							.														

COMMENTS * Surveyed from 12:10 to 15:00 on 5/26/90. Survey finished
 at 13:00 to 15:30 on 5/27/90.

OG J. S. ~~anger~~

SEGMENT ST/ IB-8

SUBDIVISION B

DATE 05/27/90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Or Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. PHTL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
PR - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

$\square$ CT/C
Continuous Distribution

$\square$ CT/B
Broken Distribution

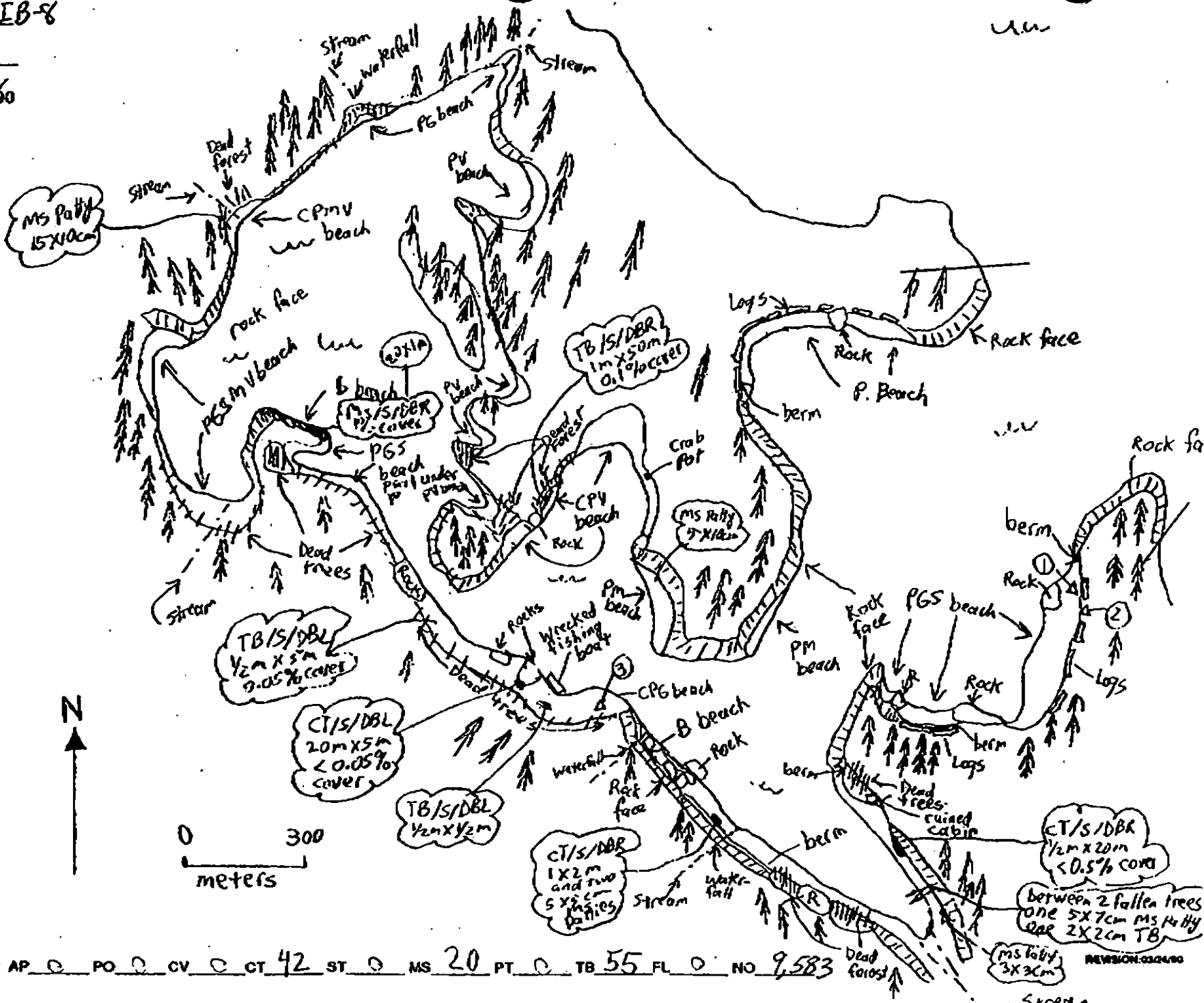
$\square$ CT/P
Patchy Distribution

$\square$ CT/S
Splashed Distribution

Oiled Vegetation

1 $\bullet$
Photo location, direction, and number

Sketch Map



Oil Character Length (m): AP 0 PO 0 CV 0 CT 42 ST 0 MS 20 PT 0 TB 55 FL 0 NO 9,583

REVISION: 02/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03-22-90

Segment ST/K3-3/LB-8 Subdivision B Date (mo / day / yr) 5-27-90

Time (24 hr) 13:00 Biologist David Lohr

- (A) Substrate type and % of segments:
 (1) Bedrock 30 (2) Boulder 20 (3) Cobble 10 (4) Pebble 10 (5) Sand 15 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 20 Moderate 55 Low 25
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
 Roll No. ST-19-100

Frames 17-19

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments:

See page 2

Ecological Considerations:

- A - Streams #252-31-10080 - located in subdivision. No al observed
 252-31-10040 } not in subdivision
 252-31-10030 }

R - One gull nesting colony observed on boundary with subdivision C. See ecology map for location. This colony not marked on USFWS maps.
 T - The main hold back canal has been removed

Segment ST/K3-3/EB-8

Subdivision B

5-27-90

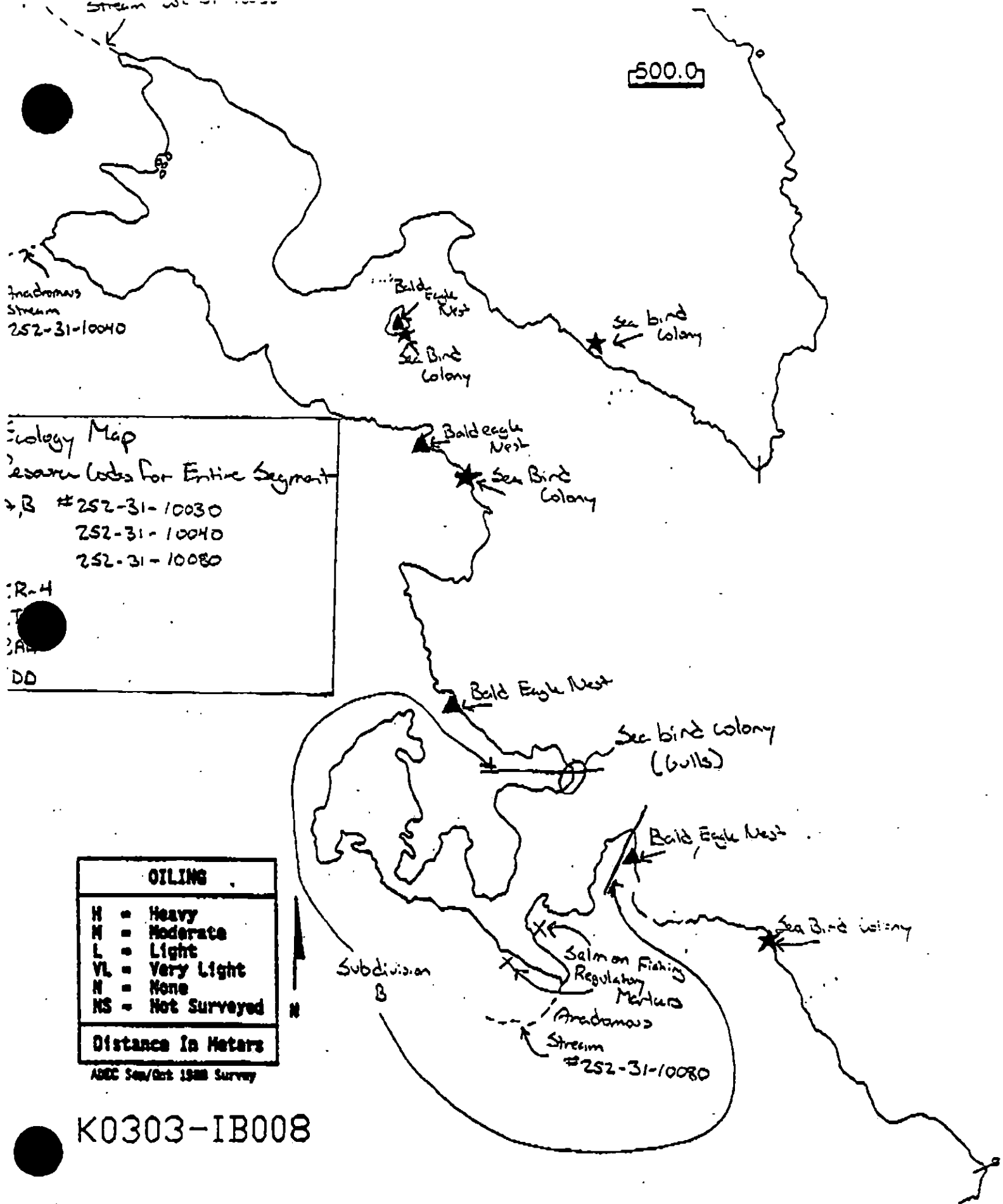
Biologist: David Lohr

Life Observations / General Comments

Present in low intertidal: *Gloiopeltis*, *Alaria*, *Henricia*, *Spirorbis*, *Ulva*, *Nucella*, unknown encrusting bryozoan, yellow sponge, purple sponge, *Tridacna*, *Scytosiphon*, *Cladophora*, *Porphyra*, *Halosaccus*, *Tealia*, coralline algae, *Rhodomenia*, *Pycnopodia*, *Anthopleura*, *Desmarestia*, yellow nudibranch (*Anisodoris*?), *Diastylis*, *Katharina*

mid intertidal: *Cladophora*, filamentous diatoms, *Dermasterias*, *Pagurus*, unknown filamentous red (*Dasyatis*?), *Ralfsia*, *Nucella*, *Scytosiphon*, *Gloiopeltis*, *Sculpin*, *Halosaccus*, *Rhodomenia*, yellow sponge, *Desmarestia*, *Anthopleura*, coralline algae, *Tealia*, *Alaria*, *Endocladia*, *Porphyra*

2. Most of the species listed above were found in the areas near the Subdivision boundaries (the mouth of the lagoon). In the more protected areas back inside the lagoon diversity was limited primarily to barnacles, mussels, *Fucus*, and gastropods.
3. Sooties, 1 cormorant, and ~10 Harlequin ducks spotted in area.
1. Several partial deer skeletons found above high tide line. No oil observed.
5. Two salmon fishing regulatory markers found in subdivision.
- *Lacuna* eggs found on *Fucus* in low intertidal. *Littorina* eggs found on low intertidal cobble, and mid intertidal boulders and vegetation.
- *Cladophora*, *Ulva*, filamentous diatoms abundant in silty areas of lagoon. Percent cover ranged from 70-80%.
3. Many jellyfish (*Cyanea*?) found floating in lagoon near shoreline.





GOA 1218 →

K3

DU-2

XXXX Wide

IB-8

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

ADEC Segment Length: 31692m



Map Key: GOA-121a

Name: J. Springer

Date: 5/27/90

Data Entered:

← GOA
121A

Map #
Name: J. Spr.
Date: 5/27/

Date: 5/27/

REGION: KODIAK

SEGMENT: ST/K03-03-IB-008

SUBDIVISIONS: C (3 OF 4)

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION C (3 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-4 All Bald Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

5R-4 Seabird colony (5/1 to 9/1)

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

(Stream ID # 251-31-10025, 10030, 10040, and 10080)

8AA Sensitive estuary

9DD Mariculture

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 23 m: V.Light 24 m: No Oil 6248 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
- 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- 30, 3Q Harbor seal and sea lion pupping (5/10 to 7/1)
 Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
 6V Anchorages (8/1 to 9/15)
 6W Forest Service cabins (8/1 to 9/15)
 6X Lodge (8/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 to 9/30)
 Finfish harvesting
 Deer harvesting (8/1 to 1/7)
 Invertebrate harvesting
 Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359
- 7KK

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0303 - I808 SUBDIVISION: C DATE 5-27-90

USCG
NAME C. B. NANCE BM1 SIGNATURE C. Nance

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC
NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No treatment recommended. The small amounts of oiled wood in the segment subdivision are very lightly stained and amounts of recoverable mouse are extremely small.

LAND MANAGER
NAME JOHN P. HANDISTER SIGNATURE John P. Handister

☒ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

USFWS

cleanup is not warranted for the small amount of recoverable mouse present.

SHORELINE OILING SUMMARY

REVISION NO 5413.90

OG J. Springer USCG C. Nance SEGMENT ST/ K0303/IB06
 BIC Lohse LAND REP J. Hardister SUBDIVISION C (3 OF 4)
 EXAM F. Byers ADEC T. Ellsworth TIME 10:30 to 11:30
 TEAM NO. 19 TIDE LEVEL -2 TO -2 DATE 05/27/90
 EST. SUBDIVISION LENGTH: 8.717 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 55 % B 10 % C 10 % P 10 % G 10 % S 5 % M % V %
 SLOPE: Lang 25 % Hang 20 % Vert 55 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 1 m VL 1 m NO 8.715 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	IC	IB	IP	IS	OL	OR	OT	OL	OR	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT			X					X		X			
STAIN													
MOUSSE													
FOAMS													
TARBALLS			X		X					X			
FILM													
NO OIL												X	X

PAVEMENT H F S 0 sq. m by 0 cmPATTIES / TARBALLS 1 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE #BAGS 0

Photographs:

Roll No. Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OP	NO		VO	UG	OL	OR	OT	OL	OR	SU	U	M	U				
1	30					X	.		X						X							P/PV
2	30					X	.		X						X							P/PGS
3	30					X	.		X						X							P/PV
							.															
							.															
							.															
							.															

COMMENTS

J. Spurr

MENT ST/ LB-8

B DIVISION C

TE 05/27/90

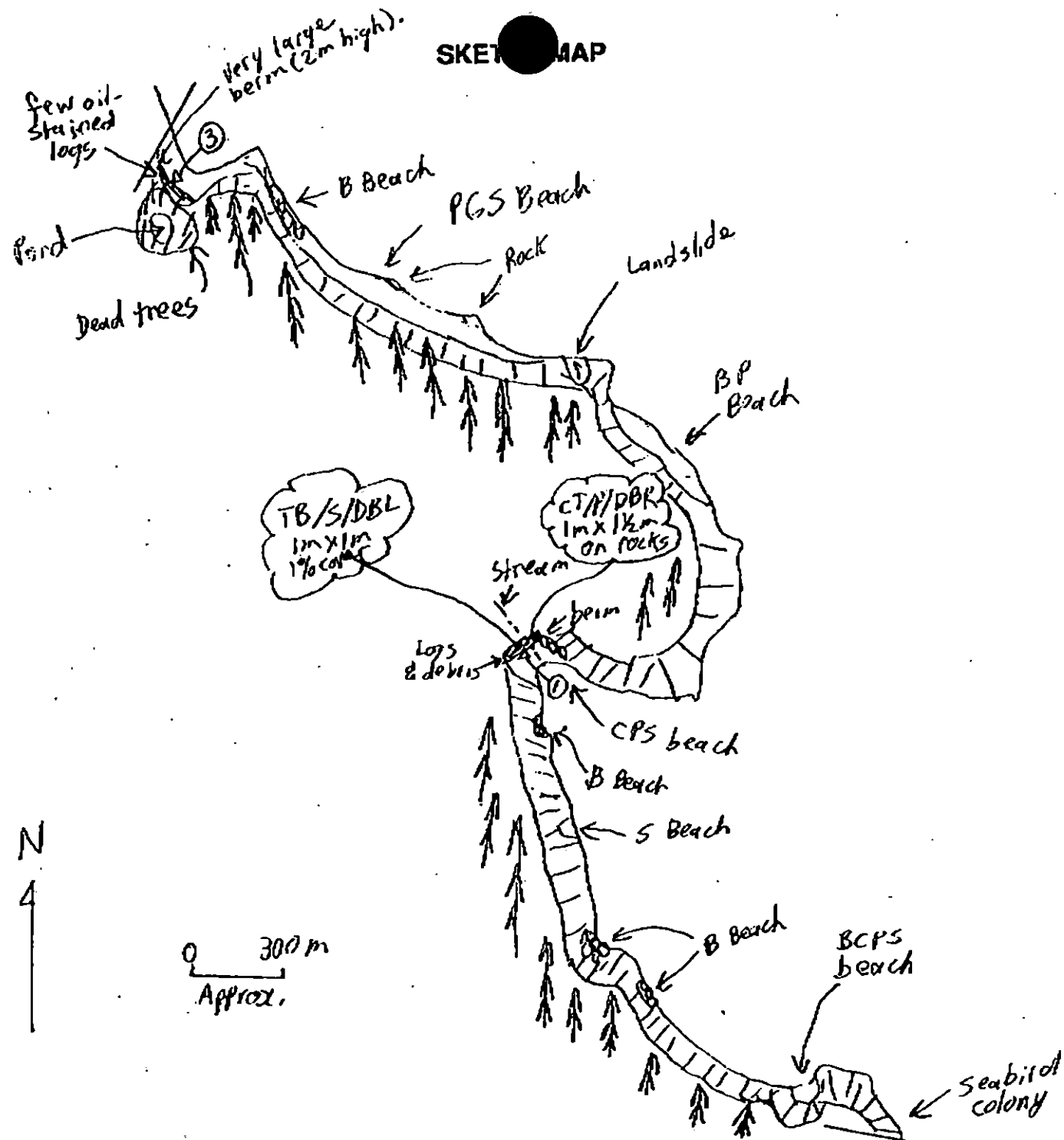
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWA/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- 1 - No Subsurface Oil
- 2 Δ
- 1 - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/B
- Open Distribution
- CT/P
- Wedge Distribution
- CT/S
- Stashed Distribution
- Red Vegetation
- 1 ●→
- Photo location, direction, cell number

SKETCH MAP



Character Length (m): AP 0 PO 0 CV 0 CT 1 ST 0 MS 0 PT 0 TB 1 FL 0 NO 8,715

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/70

Segment ST / K3-3/128 Subdivision C Date (mo / day / yr) 5-27-90

Time (24 hr) 10:30 Biologist David Lohm

(A) Substrate type and % of segments:
(1) Bedrock 55 (2) Boulder 10 (3) Cobble 10 (4) Pebble 10 (5) Sand 15 (6) Silt

(B) Overall % cover of biota (% of segment): Dense 50 Moderate 30 Low 20

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. ST-19-100

Frames 21

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments:

See page 2

Ecological Considerations:

Streams ²⁵²⁻³¹⁻¹⁰⁰⁸⁰ } none in subdivision
²⁵²⁻³¹⁻¹⁰⁰¹⁰
²⁵²⁻³¹⁻¹⁰⁰⁸⁰
 IR - 2 gull nesting colonies in subdivision, one of which was on boundary with subdivision B.
 Puffin nesting colony located on nearby offshore island.
 In north observed

(not marked on USFWS map)

Shoreline Ecological Summary

Segment ST/K3-3/IB-8

Subdivision C

5-27-90

Biologist: David Cohen

Wildlife Observations/General Comments

Present in low intertidal: *Alaria*, *Anthopleura*, *Epiactis*, *Katharina tunicata*, *Indeaa*, *Scytosiphon*, unknown filamentous red (Dayse?), *Henricia*, yellow sponge, *Nuella*, *Rhodomenia*, *Halosaccus*, *Ulva*, *Laminaria*, unknown encrusting bryozoan, *Porphyra*, unknown orange, colonial ascidian

mid intertidal: *Rhodomenia*, *Rhodomenia*, *Scytosiphon*, *Emplectonema*, *Ulva*, *Porphyra*, *Endocladia*, *Gloiopeltis*, *Halosaccus*, *Alaria*, unknown filamentous red (Dayse?), *Indeaa*, *Cladophora*, *Katharina*, *Orchestoidea*

high intertidal: *Cladophora*

2. 28 sea otters (at least one had a pup), 1 fox, several Guillemots and

Harlequin ducks, 1 raven, and 3 cormorants observed in area.

3. Algal cover in low intertidal ~~was~~ bedrock was ~90%.

4. *Littorina* eggs found underneath mid-intertidal cobble

Aradomas
Stream 252-31-10020

500.0

adomas
ream
52-31-10040

not observed

Bald Eagle
Nest

Sea bird
colony

Sea Bird
Colony (Puffins)

not
observed

Bald Eagle
Nest

Sea Bird
Colony
(Gulls)

Subdivision C

Bald Eagle Nest
(not observed)

Sea bird colony (Gulls)

Bald Eagle Nest

Sea Bird colony

Aradomas
Stream
#252-31-10080

Ecology Map
source codes for entire Segment

IB - #252-31-10030

252-31-10040

252-31-10080

R-4

T-4

2A

DD

OILING

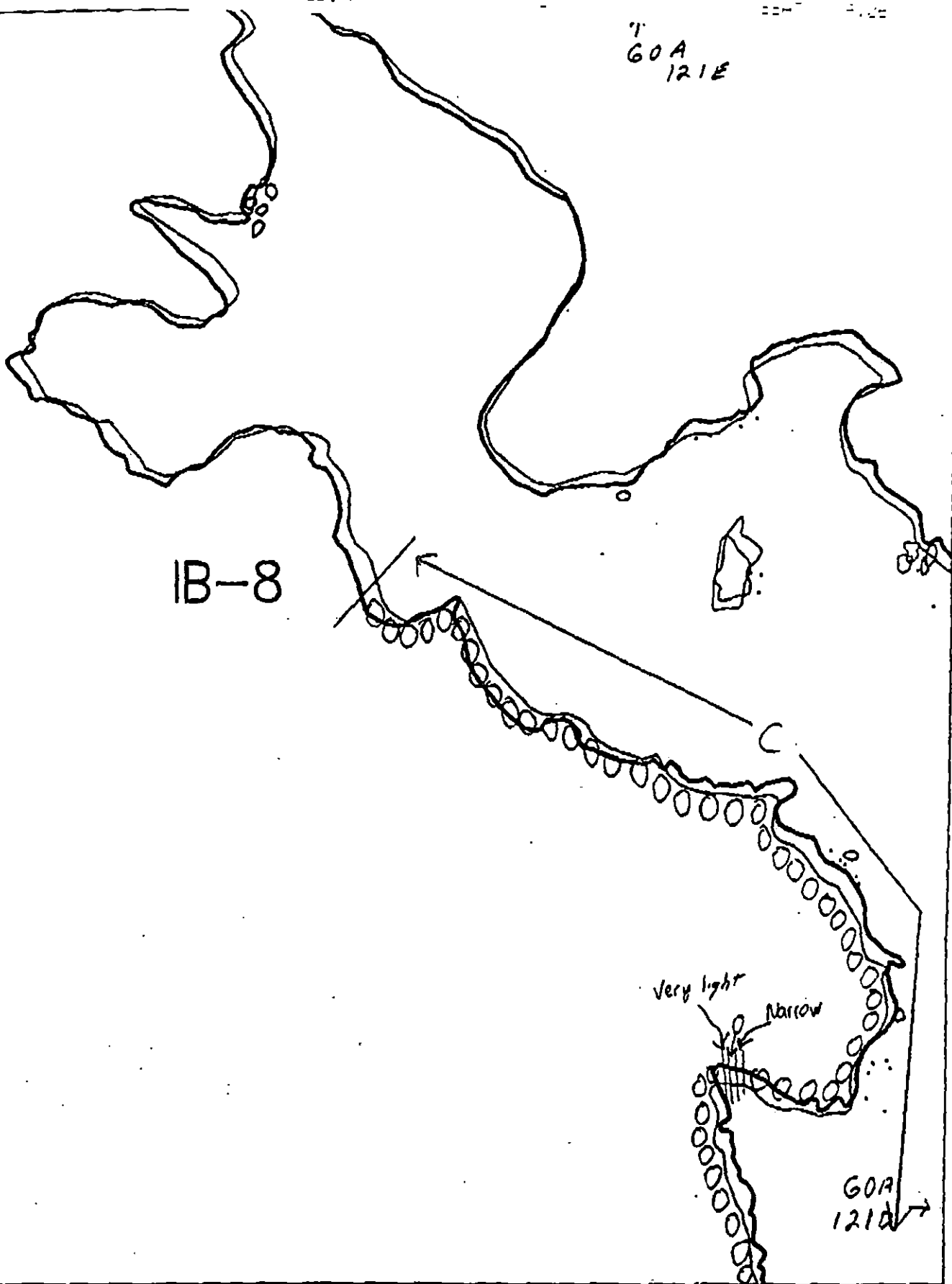
- H - Heavy
- M - Moderate
- L - Light
- VL - Very Light
- N - None
- NS - Not Surveyed

Distance in Meters

ADCE Sam/Out 1980 Survey

K0303-IB008

7
GOA
121E



IB-8

Very light
Narrow

GOA
121d

IB-8

31692

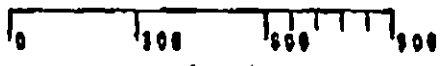
ADEC Segment Length: 34632m

XXX Wide

/// Medium

--- Narrow

TTTT Very Light



Map Key: GOA-121c

Name: J. Springer

Date: 5/27/90

Data Entered:



GOA →
121B

K3

DU-2

XXXX Wide

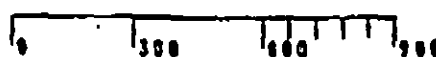
//// Medium

--- Narrow

TTTT Very Light

IB-8

ADEC Segment Length: 31692
~~34612m~~



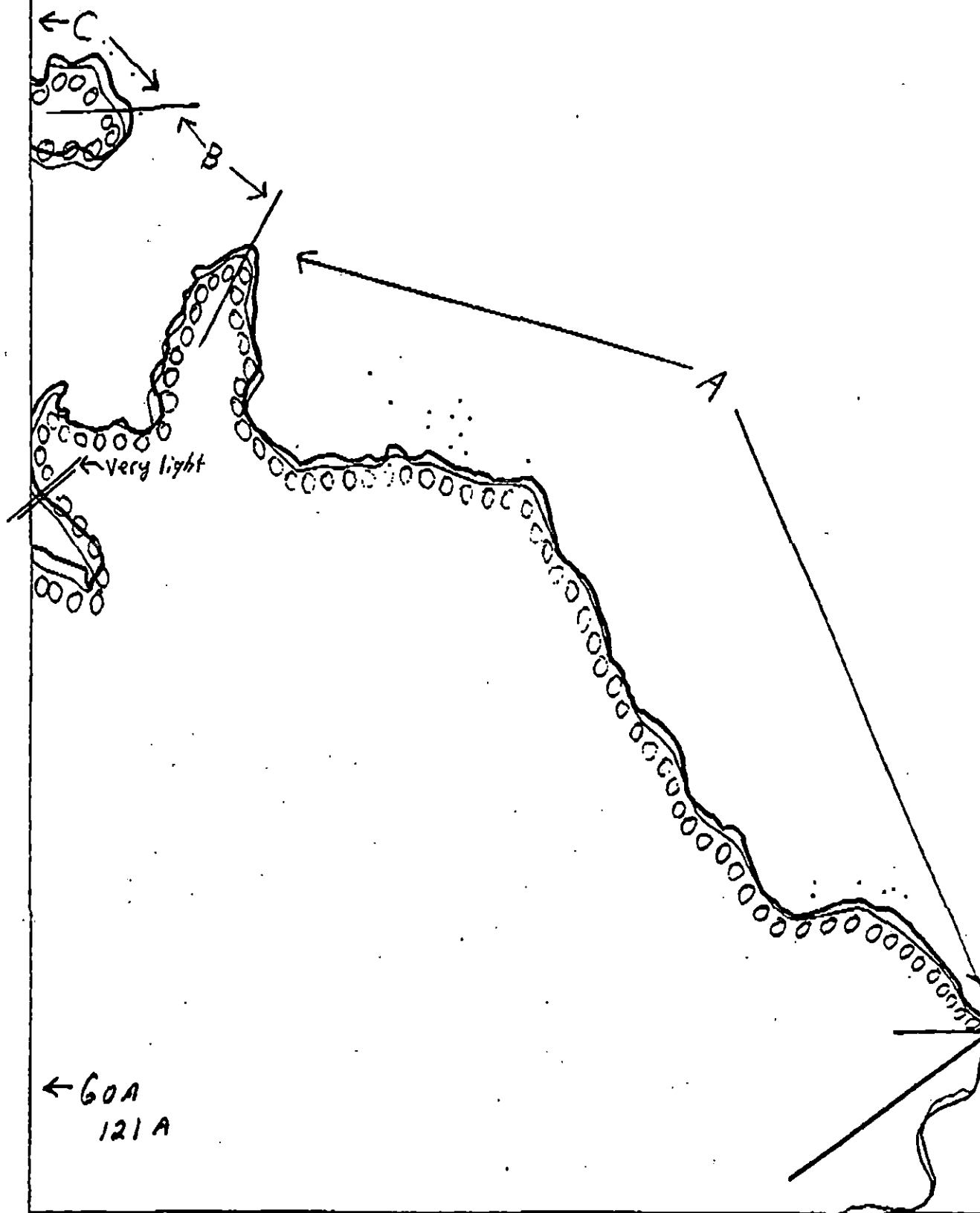
Map Key: GOA-121a

Name: J. Springer

Date: 5/27/90

Data Entered:

↑
GOA
121D



← GOA
121A

XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light

IB-8

ADEC Segment Length: 31,692
~~34,632m~~

0 100 200 300 400 500 600 700 800 900 1000



Map
 Name: J.S.
 Date: 5/27

REGION: KODIAK

SEGMENT: ST/K03-03-IB-008

SUBDIVISIONS: D (4 OF 4)

SHORELINE EVALUATION

SEGMENT ST/ K03-03-IB-008 SUBDIVISION D (4 OF 4) DATE 5/27/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-4 All Bald Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

5R-4 Seabird colony (5/1 to 9/1)

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

(Stream ID # 251-31-10025, 10030, 10040, and 10080)

8AA Sensitive estuary

9DD Mariculture

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 11672 m

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
- 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- 30, 3Q Harbor seal and sea lion pupping (5/10 to 7/1)
 Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subistence area: Salmon harvesting (6/1 to 9/30)
 Finfish harvesting
 Deer harvesting (8/1 to 1/7)
 Invertebrate harvesting
 Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / I2-08 SUBDIVISION: _____ DATE 5/27/90

NORA
USCG
NAME

Tom Callahan

SIGNATURE

Tom Callahan

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Only 2 small patches of mousse observed along entire segment. No treatment recommended.

ADEC

NAME

Francine J. Bennis

SIGNATURE

Francine J. Bennis

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

We observed only 2 very small patches of Mousse (4-15cm in diam) & collected them.

We also found boom debris/pom-pom material throughout area assessed on foot. Collected 4 bags of this.

LAND MANAGER

NAME

OTTO FLORSCHUTZ

SIGNATURE

Otto Florschutz

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

I agree with above ADEC findings and recommendations. Dead, non-aired decomposed eagle found - see attachment #2

Attachment 2

U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately 'clean' or 'restored' for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

SHORELINE OILING SUMMARY

REVISION NO. 04-12-90

OG Mike Foget NOAA USCG Tom Callahan SEGMENT ST/ K0303-IB008
Heather Davis LAND REP Offo Florshutz SUBDIVISION D (4 OF 4)
ON ADEC Fran Bennis TIME 8:20 10:14:30
 TEAM NO. 20 TIDE LEVEL +4.0 - +2.0 DATE 5 / 27 / 90
 EST. SUBDIVISION LENGTH: 9375 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock steep rocky backshore (2m) forested
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 20 % B 25 % C 30 % P 10 % G 5 % S 5 % M 5 % V 0 %
 SLOPE: Lang 20 % Hang 60 % Vert 20 % WAVE EXPOSURE: ☒ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 9375 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	S	SP	BR	OR	OL	BL	LR	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				X		X					X			
MOUSSE				X						X	X			
TIES														
TARBALLS														
FILM														
NO OIL											X		X	X

PAVEMENT H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris	X		

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐TYPE Boom, pom poms#BAGS 4

Photographs:

Roll No. 1Frames 1

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	▽	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SP	BR	OR	OL	BL	LR	SU	U	M	L				
1	20					X	-		X								X				-	-	P, R
2	30					X	-		X								X				-	-	P, S, R
3	30					X	-		X							X					-	-	C, P, S, M
4	30					X	-		X								X				-	-	P, S
5	25					X	-		X							X					-	-	P, S, P
6	35					X	-		X								X				-	-	C, P, C

COMMENTS

Shore zone consists of high angle B/C/P beaches w/ some rocky headlands and low angle bays. No oil was observed with the exception of a few mouse balls which were manually removed (see map) also some boom material, pom poms and other debris were manually removed (see map).
 All - Small stain collectors were observed

SEGMENT ST: K0303/13 SUBDIVISION D 4 OF 4

SUBSURFACE OIL (CONTINUED)

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-GS)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▽	SURFACE - SUBSURFAC SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SL BR	SL FM	OL	SL DR	TL	LR	SU	U	M	L						
7	40					X	-		X							X						-	-	P, M, P.	
8	25					X	-		X							X						-	-	C, P, S, C	
9	35					X	-		X							X						-	-	P, G, S, M	
10	30					X	-		X							X						-	-	P, S, C	
11	40					X	-		X							X						-	-	P, G, S	
12	25					X	-		X							X						-	-	C, P, S	
13	35					X	-		X							X						-	-	P, G, S	
							.																		
							.																		
							.																		
							.																		
							.																		
							.																		
							.																		
							.																		

COMMENTS

REVIEWED BA7 DATE 31MA790

OG Mike

SKETCH MAP

SEGMENT ST/ R0303/IB-008

SUBDIVISION 0

DATE 5 / 27 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML&VR
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

eee

Oiled Vegetation

1 →

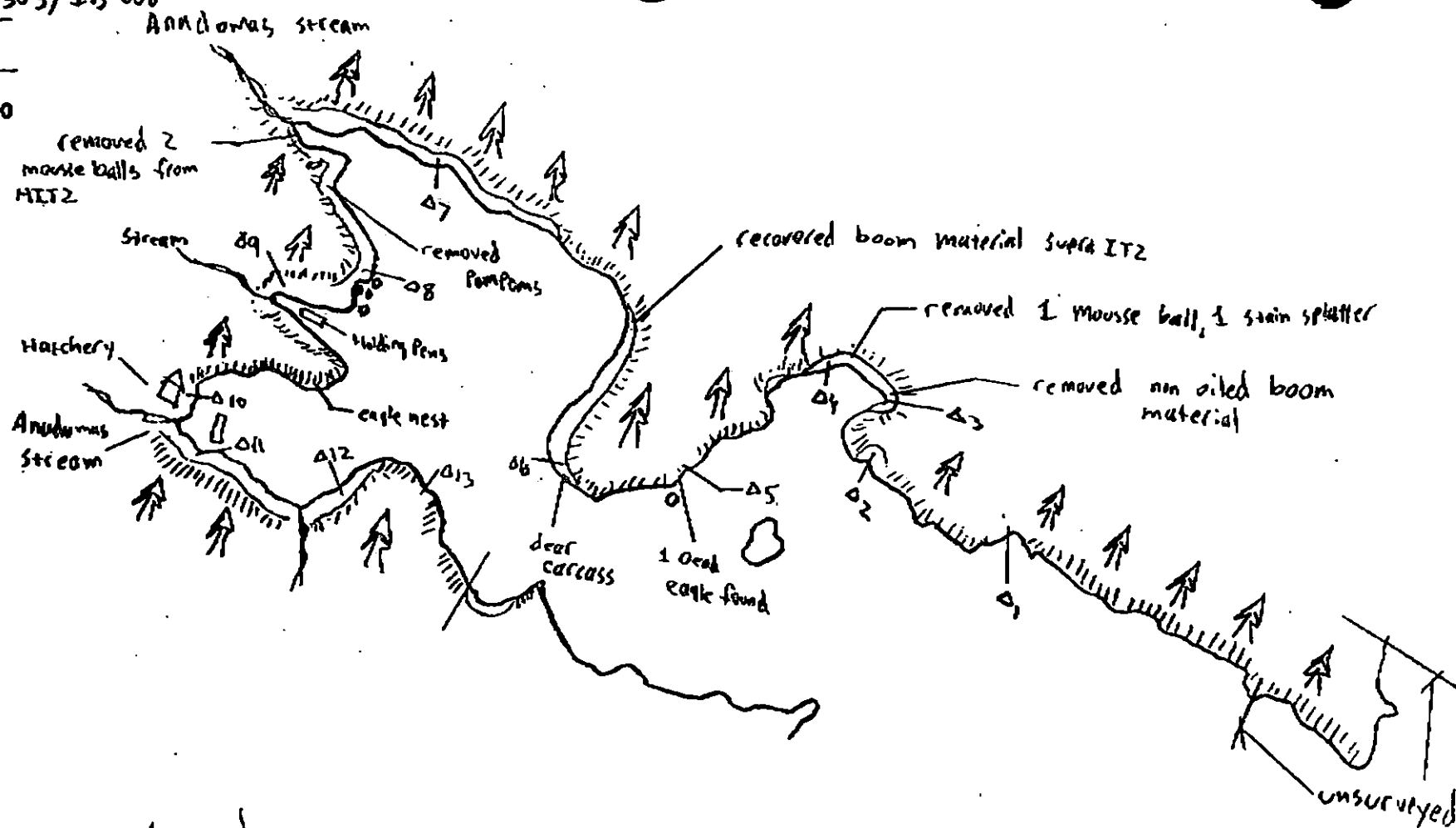
Photo location, direction, and number

Legend

□ - holding pens

Hll - steep to high angle shore zone

↑↑ - Forest



11-25-1990 10:14 FROM E. Ch. 2014

11-25-1990

11-25-1990

Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 9375

REVISION: 01/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST/K03-03 Subdivision IB-008 D Date (mo/day/yr) 5/27/90
 Time (24 hr) 8:30 Biologist N. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 20 (2) Boulder 25 (3) Cobble 30 (4) Pebble 15 (5) Sand 5 (6) Silt 5
- (B) Overall % cover of biota (% of segment): Dense 35 Moderate 35 Low 30 (50%)
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles/adults (X), new settlement (3)

Photographs: _____
 Roll No. _____

Frames _____

BARNACLES continuous along the segment variable in density

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
 4, 5, 6

MYTILUS Patches

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
 4, 5, 6

GASTROPODS Littorina, Nucella, limpets Moderate - Rare, Nucella sparse

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
 4, 5, 6

FUCUS Dense Patches

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

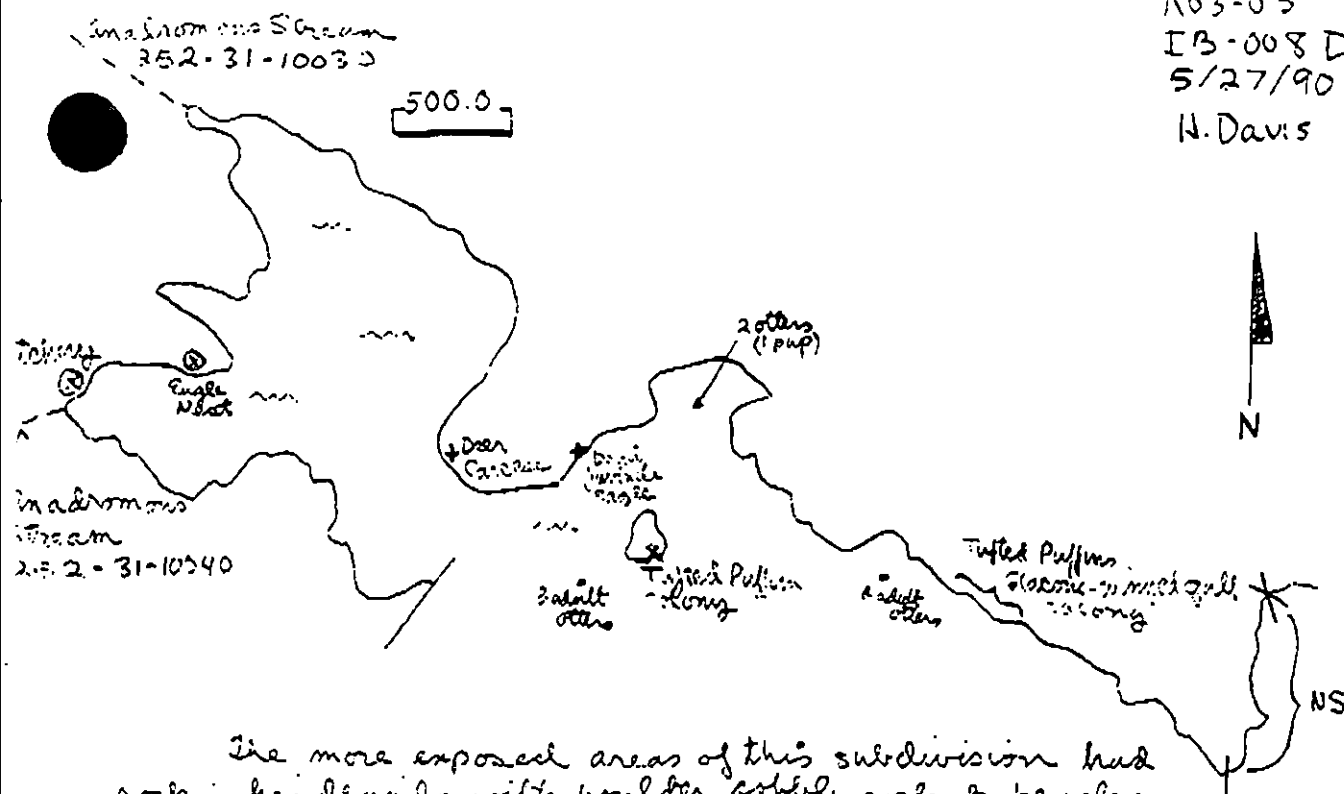
NOT PRESENT
 4, 5, 6

Wildlife Observations/ General Comments: Birds: Eagle (4-6 adjuv), Varied Thrush, White-winged Scoter, Tufted Puffins, Glaucous-winged gulls, Harlequins and Goldeneye. Mammals: Bear scat, Deer scat, G. sea otter (Salute, 1 pup) and Fox foraging in the intertidal.

(see Geo Map)

Ecological Considerations: ST-4, SR-4, 1A1B, 8AA, 9DD. Four Eagle Nests, Four Bird colonies in anadromous stream, a sensitive Estuary and a mariculture area. On the portion of IB 008 surveyed for subdivision D. There was one eagle nest found, Two colony areas (Tufted Puffins and Glaucous-winged gulls), Two anadromous streams # 252-31-10040, # 252-31-10030 and a hatchery in the area surveyed.

105-00
IB-008 D
5/27/90
H. Davis



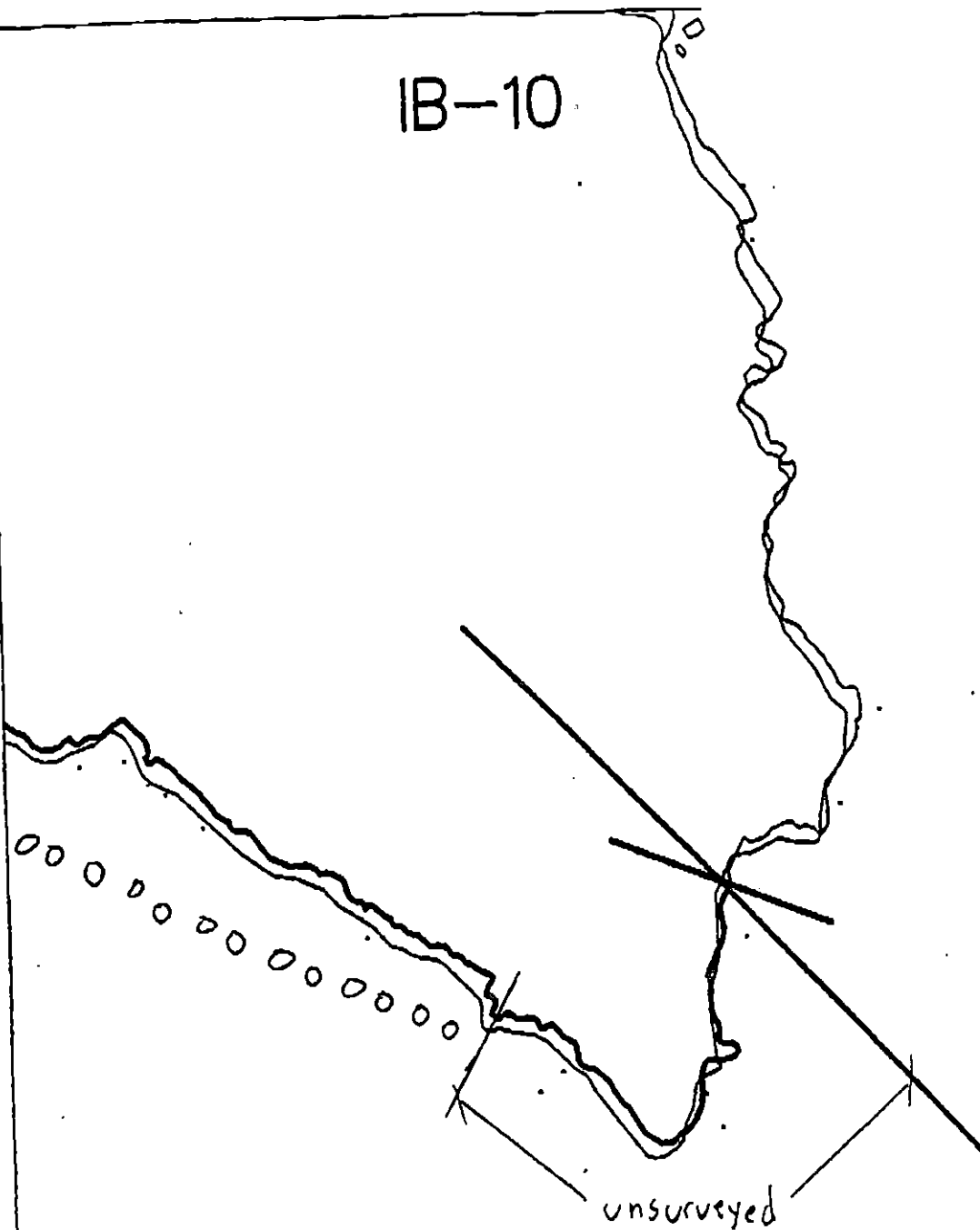
The more exposed areas of this subdivision had rocky headlands with boulder cobble pocket beaches. It had a more diverse community than the more protected areas.

UTZ: *Balanus*, *Chthamalus*, *Mytilus*, *Notocarmen*, *Collisella*, *Littorina*, *Uvella*, *Porphyra*, *Endocladia*, *Cladophora*, *Fucus*, *Rhynchocoela*, and annelids.

MTZ: *Halosaccion*, *Porphyra*, *Odonthalia*, *Gloiopelta*, *Bridaea* (*Crallina*), *Notocarmen*, *Kamoharia*, *Tonicella*, *Katharina*, *Pisaster*, *Evasteria*, *Anthopleura*, *Spirorhis*, *Scalieria* and *Halichondria*. LTZ *Alaria*, *Costaria*, *Pleuraphus*, *Laminaria*, *Rhodomenia*, *Crallina*, *Mopalia*, *Halichondria*, *Pagurus*, *Pisaster*, *Pygospio*, *Uvella* (*hamilata*), *Scalieria* and sculpins.

The more protected areas had higher angle beaches between cliff faces with a less extensive flora and fauna. UTZ Barnacles, limpets, *Littorina*, some *Mytilus*, *Fucus*, *Gloiopelta*, *Ulva*, Green filamentous algae, *Pagurus* and tufts of *Endocladia*. MTZ Barnacles, limpets, *Littorina*, *Mytilus*, *Modiolus*, *Dermasterias*, *Pagurus*, *Fucus*, *Odonthalia*, *Rhodomenia*, *Scytosiphon*, *Gloiopelta*, *Ulva* and *Bridaea*. LTZ *Fucus*, Filamentous green algae, diatom mats, *Costaria*, *Henricia*, *Dermasterias*, *Pichelasma*, *Pagurus*, *Mytilus*, *Modiolus*, *Scalieria* (shells), *Protolaea*, *Climacodon* (shells), *Archeia*, *Scalieria*, *Nereis*, *Polinices* or *Natica*? eggs, *Zostera* beds.

IB-10

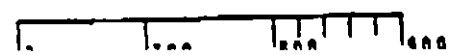


← GOA
1212

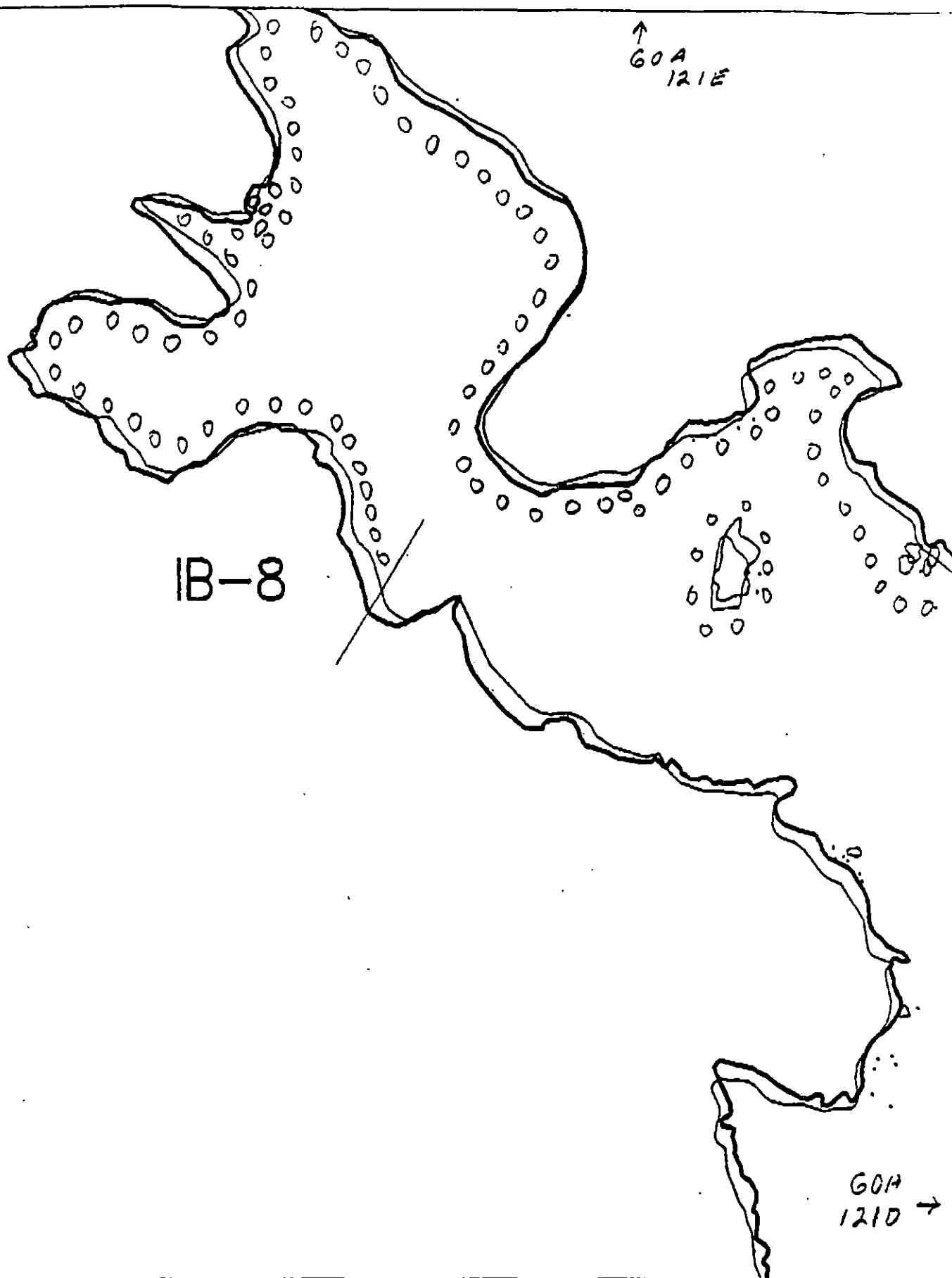
XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light

IB-8D

ADEC Segment Length: 34632m



Map K
 Name Mike Fo
 Date: 5/27/90



XXXX Wide
 //// Medium
 ---- Narrow

IB-8D

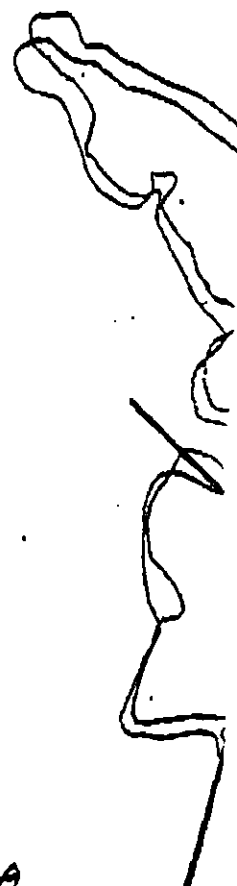
ADEC Segment Length: 34632m

Map Key: GOA-121c

Name: Mike Fore

IB-1

IB-11



↓ GOA
121 C

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

OOOO No Oil

IB-8

ADEC Segment Length: 34632m



Map Key: GOA-121

Name: Mike Fager

Date: 5/27/90

Date Entered: \

SHORELINE EVALUATION

SEGMENT ST/ K06-06-NP-002 SUBDIVISION A (1 OF 1) DATE 6/17/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
1L Set net sites
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Jean Dan DATE: 7/2/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 16 m: No Oil 403 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 7/02/90
ADEC Ray Morris R-TJ
EXXON Andy Earl Deal FOSC: W L DATE: 7-10-90
NOAA Joseph Talbott JCT
USCG G.A. Reiter G.A. Reiter

OG Greg Chaney / Rich Marty
SEGMENT ST/AB-06-NP2

SKETCH MAP

SUBDIVISION A

DATE May 10 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Det.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ P/L Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

Fig - No Subsurface Oil

2 ▲

Fig - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

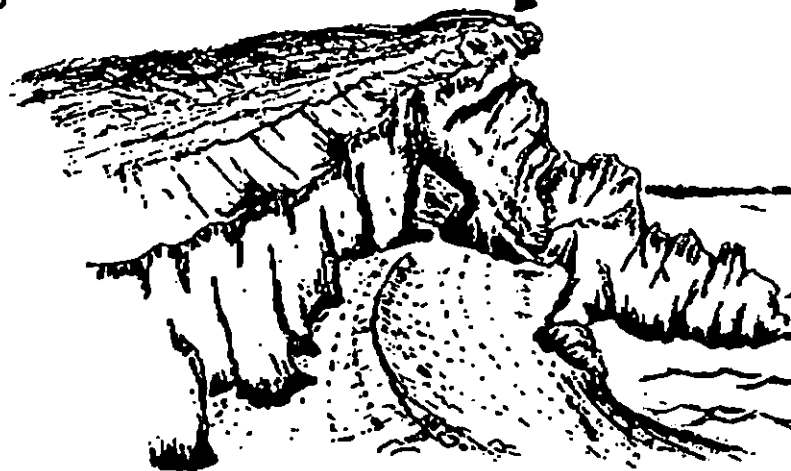
Splashed Distribution

Oiled Vegetation

1 ●

Photo location, direction,
and number

ACTIVE EAGLE'S NEST



PROFILE
SEGMENT MAP

KODIAK ISLAND NP-2

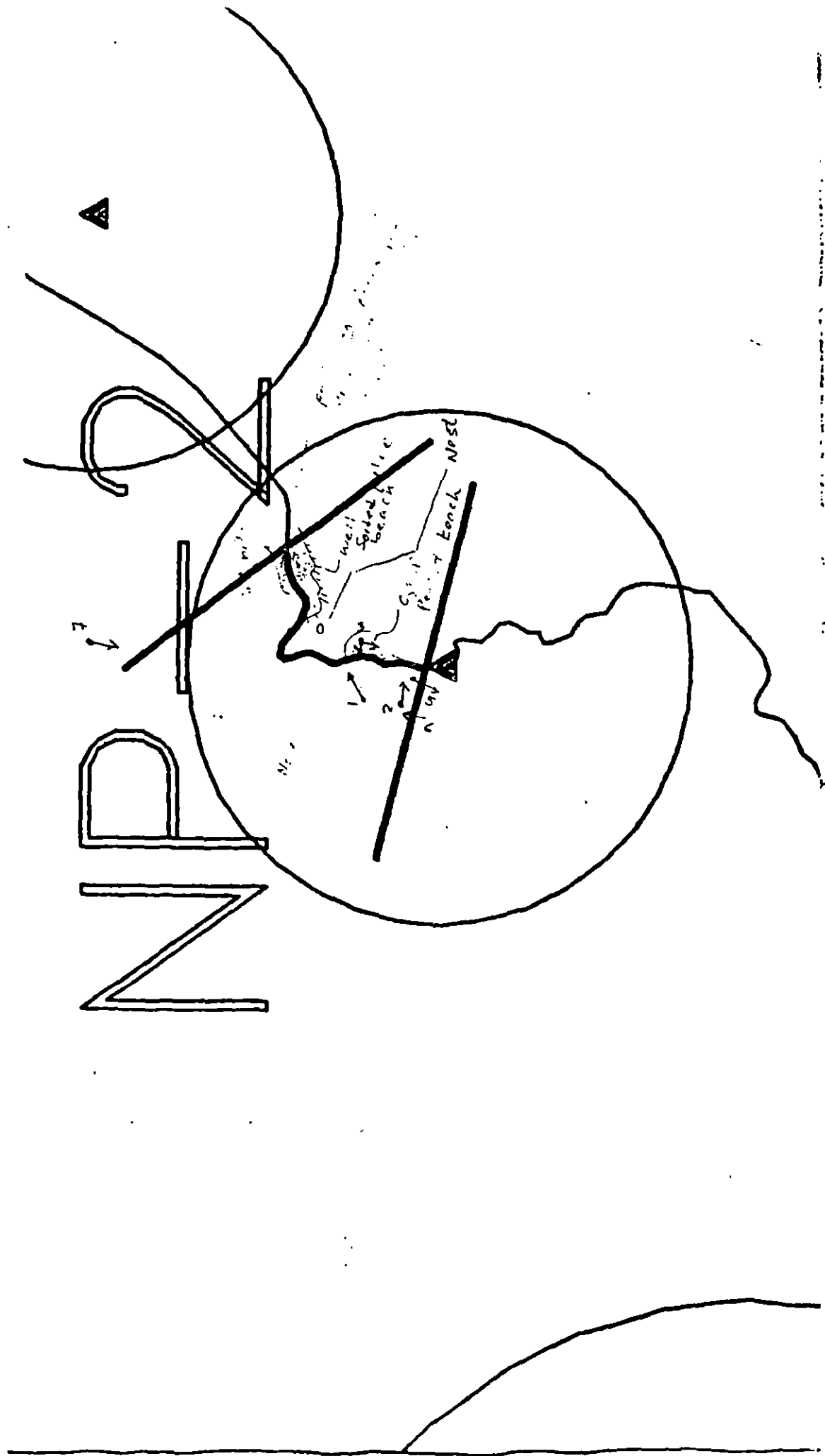
ACTIVE
NEST

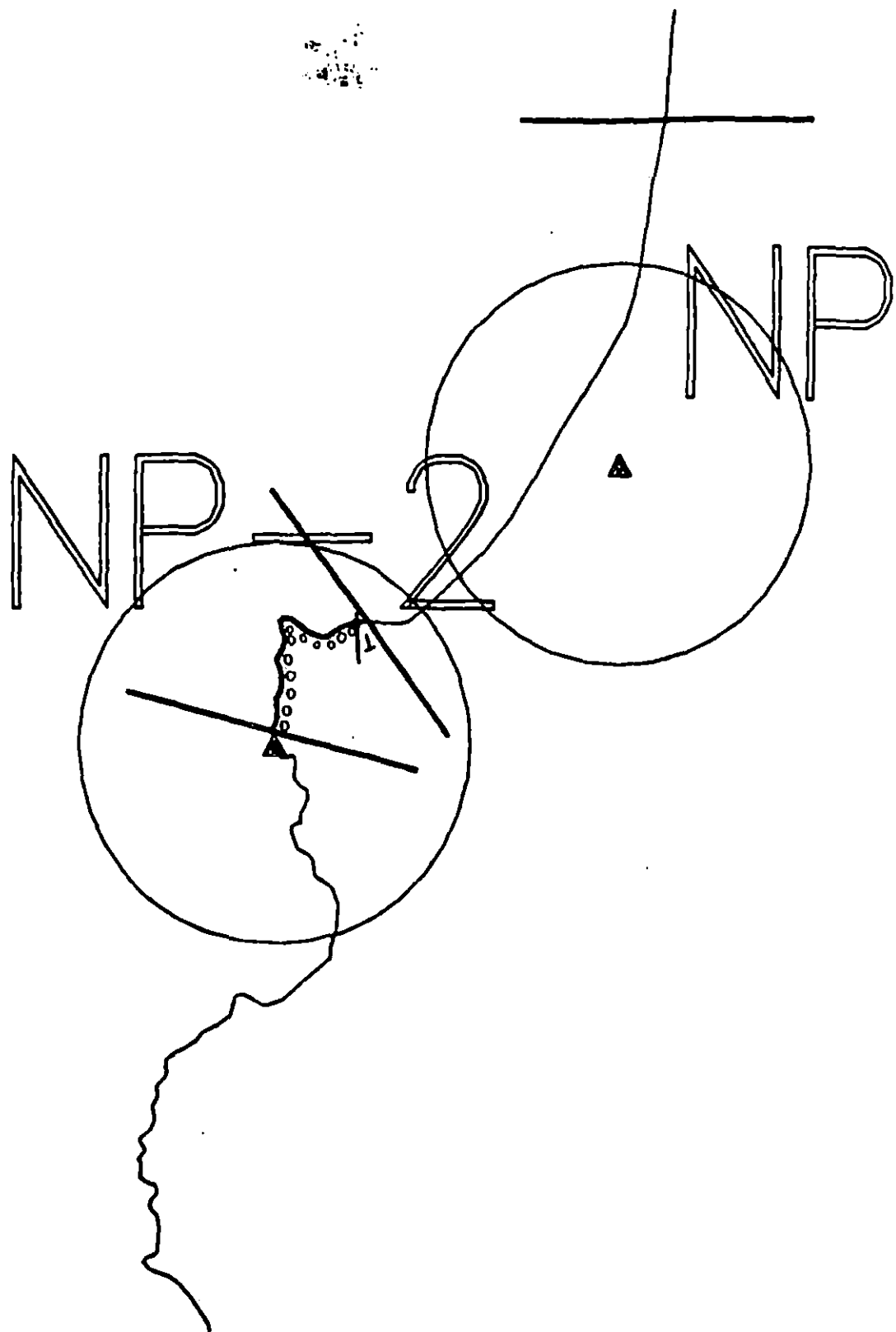
Sketch View
Point

NOISY PASSAGE

Character Length (m): AP — PO — CV — CT 5 — ST — MS — PT — TB — FL — NO 395

REVISION 22/2/90





Exxon Company, USA



ECOLOGY MAP
 K0606-SEGMENT NP-2-A
 400
 SUBDIVISION --- (--- of ---)
 METERS

★	Seabird Colony
▲	Eagle Nest

REGION: KODIAK

SEGMENT: ST/K06-06-NP-002

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-06-NP-002 SUBDIVISION A (1 OF 1) DATE 5/10/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

This segment was not surveyed due to the presence of an active bald eagle nest. See Comments.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION: Unsurveyed Length 400m

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes _____ No _____ Maximum Depth _____

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☐ Treatment Recommended	☐ Oil Snares (pom poms)
☐ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS: NP001 was removed from the SSAT survey list due to the location and occupation of Bald Eagles on their nest. The nest prevented helicopter access and surveyance of NP001.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

SEGMENT ST KOG-06-NP02 SUBDIVISION: A DATE May 10 1990

USCG

NAME Kenneth M. Trebire SIGNATURE K Trebire

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Not Surveyed due to eagles nest!

ADEC

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME OTTO FLORSCHUTZ SIGNATURE O. Florschutz

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Eagle nest with 2 adults and eggs on cliff in middle of plot - mission aborted

SHORELINE OILING SUMMARY

REVISION NO. 04/11/90

OG Greg Chaney USCG Ken Trahuc SEGMENT ST/ KG06 NP2
 BIO Heather Davis LAND REP Otto Florschutz SUBDIVISION A (1 OF 1)
 EXXON — ADEC From Bennis TIME 07:30 1007:25
 TEAM NO. 20 TIDE LEVEL 1.5 ft DATE May 10 1990
 EST. SUBDIVISION LENGTH: 400 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: North to South
 SURFACE SEDIMENTS: R ? % B ? % C ? % P ? % G ? % S ? % M ? % V ? %
 SLOPE: Lang ? % Hang ? % Vert ? % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W ? m M ? m N ? m VL ? m NO ? m

 SURFACE OIL NOT SURVEYED

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IS	IP	IB	1	2	3	4	5	6	7	8	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

 PAVEMENT H F S ? sq. m by ? cm

 PATTIES / TARBALLS ? BAGS

NEAR SHORE SHEEN? NO BR RW SL TL?

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DID YOU COLLECT DEBRIS?

 YES ☐ NO ☐

 TYPE ?

 #BAGS ?

Photographs:

 Roll No. NONE

 Frames NONE

 SUBSURFACE OIL NONE YET

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▼ F	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	1	2	3	4	5	6	7	8	SU	U	M	U				

COMMENTS

REVIEWED _____ DATE _____

COMMENTS
SEGMENT K06-06-NP02

May 10 1990

Greg Chaney

Segment K06-06-NP02 was NOT surveyed due to the presence of an active bald eagle's nest in the center of the segment. This nest contained eggs and the eagles were not willing to attend the nest while we were on the beach at the north end of the segment. The sketch map of the segment shows the nest's location but since the segment was not surveyed, the lack of oil on the sketch map does not imply that no oil was present in the segment.

OG Chaney
SEGMENT ST/ K6-06-NP2
SUBDIVISION A

DATE May 10 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PII Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

PII - No Subsurface Oil

2 ▲

PII - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

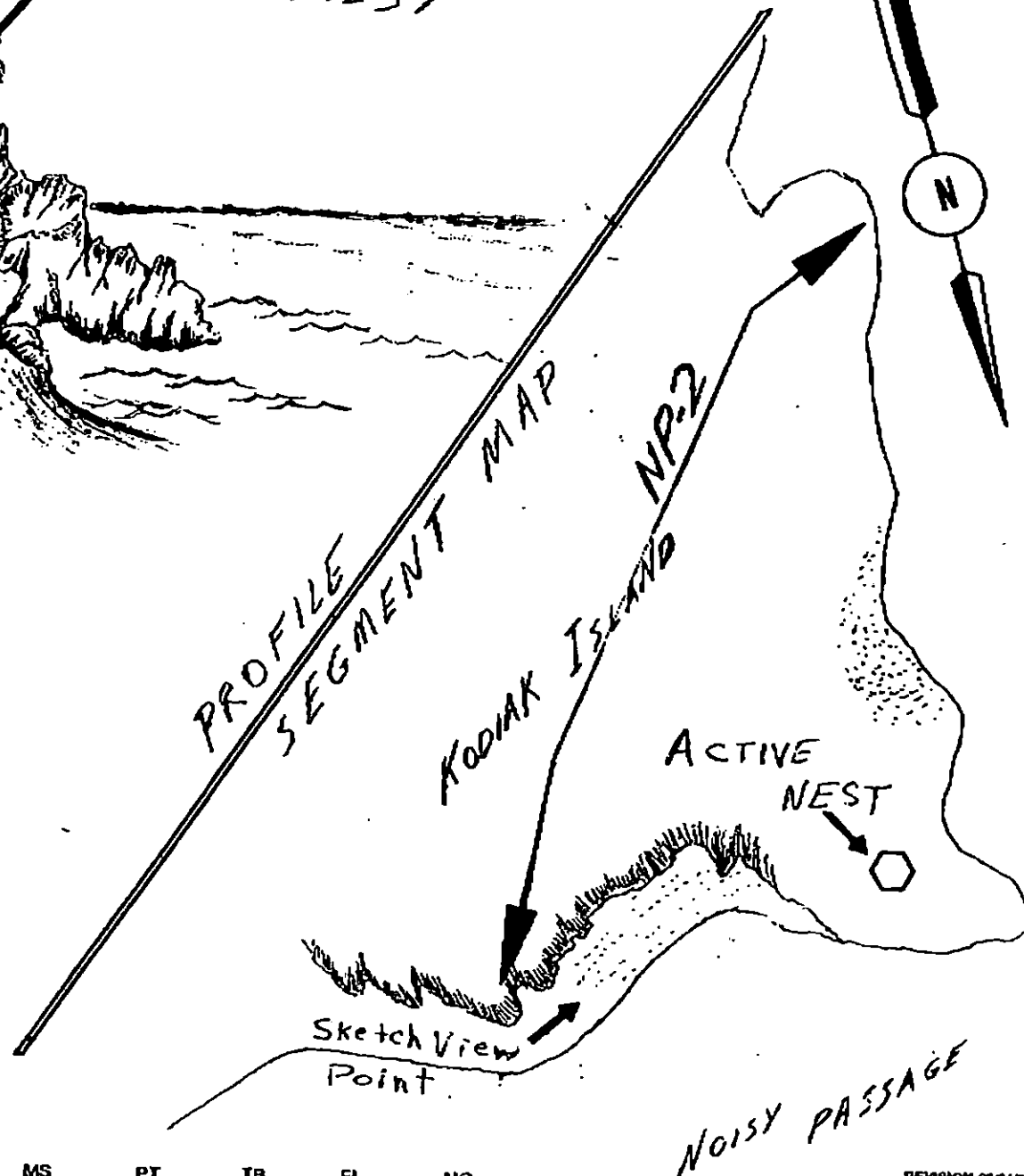
Oiled Vegetation

1 ➡

Photo location, direction,
and number

SKETCH MAP

ACTIVE EAGLE'S NEST



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT _____ TB _____ FL _____ NO _____

REVISION 03/24/96

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/77

Segment ST / K06-06 Subdivision NP-01 Date (mo / day / yr) 5/10/90
Time (24 hr) 07:20 Biologist H. Davis

- (A) Substrate type and % of segments:
(1) Bedrock — (2) Boulder — (3) Cobble — (4) Pebble — (5) Sand — (6) Silt —
- (B) Overall % cover of biota (% of segment): Dense 30% Moderate 40% Low 30% (50%) *Estimated from fly-by.*
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)
- Photographs: —
Roll No. —
Frames —

BARNACLES No Estimation of mortality looked Dense-Moderate in UTZ.

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS They were present on the segment, Algal cover prevented observation.

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS — ? one Searles in dire shell on bluff (in scat)

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS From a distance there appeared to be dense patches.

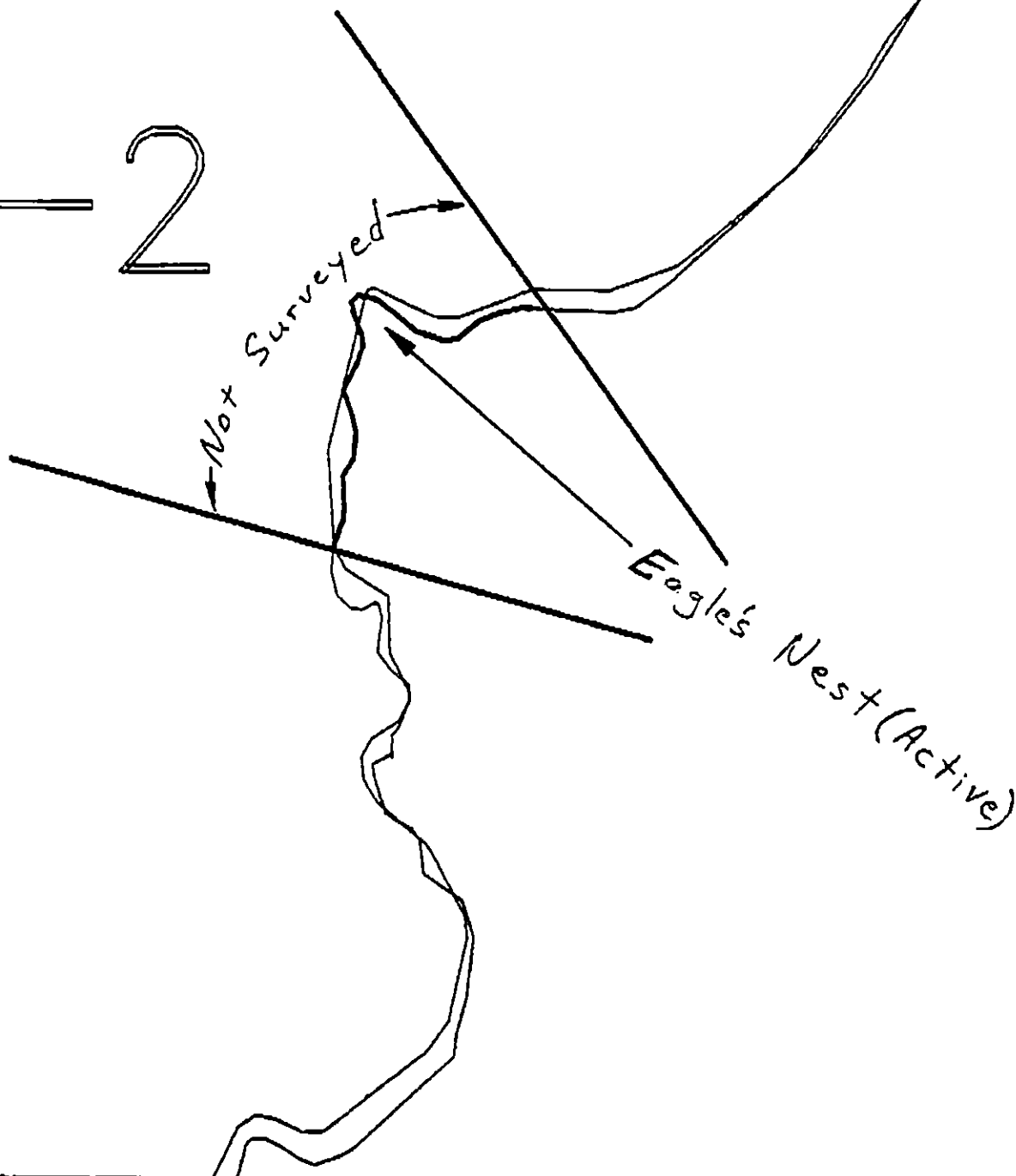
Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments: we didn't survey this segment.
As we approached the eagles nest (we were on the beach the nest was on the cliff) it was apparent that the eagles were distressed.
Ecological Considerations: ST-3. There was no eagle nest seen. 2 eggs.
2 adult eagles.

Mammals in the area - Deer (trash + scat) and Fox.
Birds in the area - Glaucous-winged Gulls 20-30, Black-turnstones, Tufted Puffins, Osprey catchers, Harlequin ducks, and Kinged Puffins?

NP-2



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

NP-2

ADEC Segment Length: 400m



Map Key: GOA-205

Name: Deg Chaney

Date: May 10 1996

Data Entered:

REGION: KODIAK

SEGMENT: ST/K06-06-NP-002

SUBDIVISIONS: A (1 OF 1)

An attempt was made to survey this subdivision on 10 May 90, but was aborted due to the presence of an eagle nest. This survey on 17 June 90, was conducted with a USFWS monitor present.

2 ND COPY

SHORELINE EVALUATION

SEGMENT ST/ K06-06-NP-002 SUBDIVISION A (1 OF 1) DATE 6/17/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

1L Set net sites

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 16 m: No Oil 403 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (8/8 to 10/1)
East side Kodiak, East side Afognak (7/4 to 10/1)
1K Purse seine hook-off
1L Set net sites
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- 3 Harbor seal and sea lion pupping (5/10 to 7/1)
Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Roth 267-2208
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (5/1 to 9/15)
6V Anchorages (5/1 to 9/15)
6W Forest Service cabins (5/1 to 9/15)
6X Lodge (5/1 to 9/15)
6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
7H Finfish harvesting
Deer harvesting (5/1 to 1/7)
Invertebrate harvesting
Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K06-06-NP2 SUBDIVISION: A DATE 17 June 1990

USCG
NAME Don Haven SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC
NAME Fran Bennis SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No recoverable oil observed.

LAND MANAGER

NAME Sandy Tucker USF&W SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY

REVISION NO. 26-1216

OG Rick Warty USCG Don Haren SEGMENT ST/ LOG-06-NP2
 BIO Mike Fawcett LAND REP Sandy Tucker SUBDIVISION A (A OF A)
 EXXON Tommy Tomlin ADEC Fran Bennis TIME 14:051015:00
 TEAM NO. — TIDE LEVEL +2' - +2' DATE 17 June/90
 EST. SUBDIVISION LENGTH: 400 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 PLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot 1° ☒ Boat 2° ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 25 % B 10 % C 15 % P 50 % G — % S — % M — % V — %
 SLOPE: Long 90 % Hang 10 % Vert — % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W — m M — m N — m VL 5 m NO 395 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	B	P	S	SL	BL	GT	BR	LA	SU	U	M	L
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				X				X		X			
MOUSSE													
PATTIES													
TARBALLS													
FILM													
OIL										X	X	X	

PAVEMENT H F S NONE sq. m by — cmPATTIES / TARBALLS NONE BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	No	AMOUNT		
		SM	MD	LG
Logs	X			
Vegetation	X			
Trash	X			
Debris	X			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE —#BAGS —

Photographs:

Roll No. MF-1AFrames 1-7

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SL	BL	GT	BR	LA	SU	U	M	L				
	<u>NONE</u>						.															
							.															
							.															
							.															
							.															
							.															
							.															

COMMENTS There are two substrates present in segment: well sorted sediments in pocket beaches and rocky headlands. The only oil found was cobbles with splattered coat which appeared to have been moved into the upper STZ by set netters. The cobble beaches appeared to be regularly scoured by wave action.

The survey crew talked with a set netter who reported no significant oil in the area.

REVIEWED BAT DATE 18 Jun 90

OG Greg Chaney / Rich Marty
SEGMENT ST 16-06-NP2

SEARCH MAP

SUBDIVISION A

DATE May 10 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pft Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

Flt - No Subsurface Oil

2 ▲

Pft - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

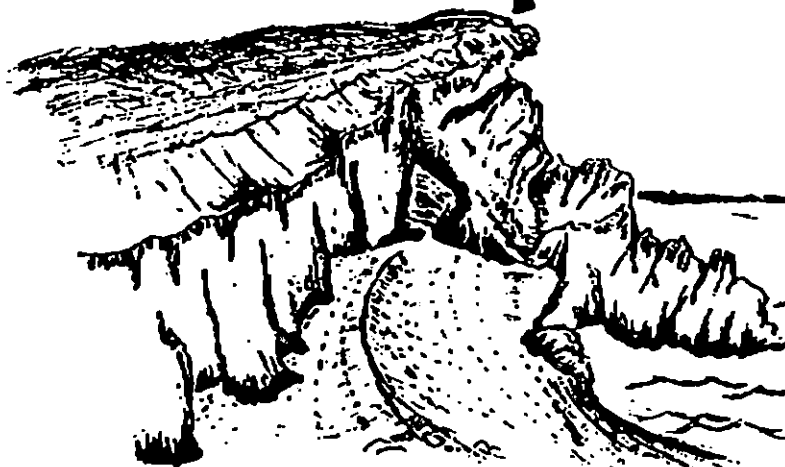
Splashed Distribution

Oiled Vegetation

1 ●→

Photo location, direction,
and number

ACTIVE EAGLE'S NEST



PROFILE
SEGMENT MAP

KODIAK ISLAND NP-2

ACTIVE
NEST

Sketch View
Point

NOISY PASSAGE

REVISION 02/24/90

Oil Character Length (m): AP — PO — CV — CT 5 ST — MS — PT — TB — FL — NO 395

(4)

17 June 1990

SSAT

R. Marty

Plan to go at ~1300

USF → Sandy Tucker short short
hair south

→ meet us in Anchorage of

eagle person

USCG Tommy Tomlin - Sea Hawk
Coast Guard 0811 - 872-150
vessel to -1372
2147 fax

NP-2

North of NP2 - land in
meadow

→ Land UG-8, UG-9

10:00 Leave Anchorage on commercial
flight11:55 Depart Kodiak on
N511 EH

For segment NP-02

Mike Fancett, Sandy Tucker
Red Marty

17 June 1990

SSAT

R. Marty

(45)

problem with aircraft hydraulics

1730 off ground to Ugashik Bay

1300 onshore at Ten Mile Beach

Eagle nest in close to landing site

Cross Ten mile beach

1330 on board King David. Head for NP-2

Fran Bennis - ADEC

Sandy Tucker - USFW

Mike Fancett WCC

Tommy Tomlin EXXON

Don Haven USCG

Rick Marty WCC

1405 Off segment NP-02.

MM-1A F vol 1 #

Conducted survey

1500 Return to King David

1530 Depart Ugashik Bay for Kodiak

Via Surgeon Lagoon

1730 Land Kodiak

NP-2 - 3400m

SHORELINE ECOLOGICAL SUMMARY

REVISION: 33/22/90

Segment ST K06-06-NP2 Subdivision A Date (mo / day / yr) 6/17/90

Time (24 hr) 1420-1445 Biologist Michael Fawcett

(A) Substrate type and % of segments:
(1) Bedrock 25 (2) Boulder 10 (3) Cobble 15 (4) Pebble 50 (5) Sand — (6) Silt —

(B) Overall % cover of biota (% of segment): Dense ✓ Moderate — Low —

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. MF-1A

Frames 1-8

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments:

1 sea otter with pup 200m offshore

1 or 2 mature eagles near point

Ecological Considerations:

No cleanup needed.

see attached sheet

segment K06-06-NP2
subdivision A
Ecological Report

6/17/90
Michael Fawcett

A diverse and healthy intertidal community typical of exposed or semi-protected coast occupies the vertical bedrock and large boulders in this segment. North of the point lies a steep, high energy cobble beach with no macro-biota. The bedrock and boulder faces show typical zonation from barnacles in the UTZ to dense mussels and Fucus with associated limpets, littorines, etc., in the MTZ, and dense large barnacles (Balanus cariosus) in the LTZ with a dense mixture of several species of brown and red algae. Starfish (Leptasterias hexactis) are abundant beneath boulders in the MTZ. Whelks (Thais lamellosa and T. emarginata) are scattered among barnacles and mussels in MTZ and LTZ. Anemones observed include Epiactis, Tealia, and Anthopleura. Chitons (Katharina tunicata and Mopalia spp.) are common in the LTZ. No oil was observed except for some traces of weathered coat on a few rocks that had been thrown up into the supratidal area near the dwelling.

Michael Fawcett

Fawcett

SSAT survey

6/17/90

MP-2

depart Kodiak ERA 511E4

1205 hrs

M. Fawcett } wec

R. Marty } wec

S. Tucker (USFWS)

John } ERA

Tom }

destination beach in segment

VG 8 (Uganik passage)

to rendezvous with USCG

& ADEC reps & skiff

from Sea Trades, which

will take us to segment

MP-2 (Naisy Passage)

- Mechanical difficulty with
helicopter caused slight delay,

took off about 1230 -

- 1310, landed at beach at

Uganik pass, joined w/

USCG Rep (Don Hara) & ADEC

(Fran) rep & Tom Tomlinson,

then went by skiff to bring

David (1330 hrs), met out

out to Naisy Passage

Trace II SSAT (cont) 6/17/90

MP-2

- 1 other w/pup 200 m offshore
of sequant

landed 1425 on pocket
beach on seaward side
of point

- boulders, cobbles in
pocket beach, dense
mussels LTZ & MTZ

- large young of
dense spot patchy MTZ

- mostly mature mussels, but
dense young as well

- patchy Littorina all sizes
Ulva, Porphyra, Halimeda

- North side of point (near
fish site) - steep barren

gran/cobble beach - no bits
skipped south along rocky

shore - too steep to walk
- alaria, Camp carnosus

- Leptasterias under boulders
at pocket beach

- Katharina - can see dense
spot under water LTZ

- no oil seen

Film MF 1A

1430 #13 rocky point - mussels

2 - Fucus etc - on shore

3 - MTZ-LTZ pocket beach
(downshore)

4 - view N - cobbles main beach

5 - South

(Fish gear on beach)

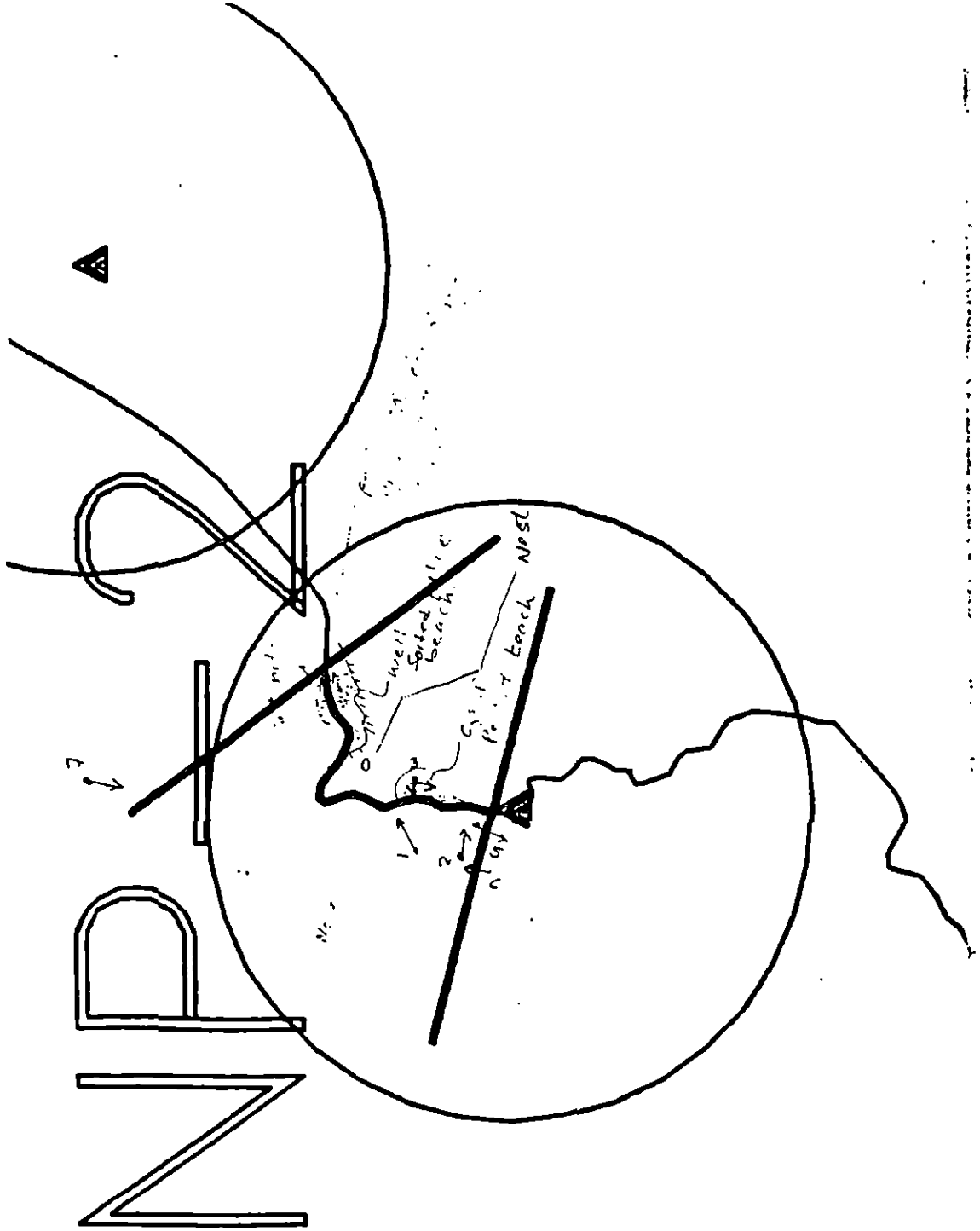
6 - view south along rocks

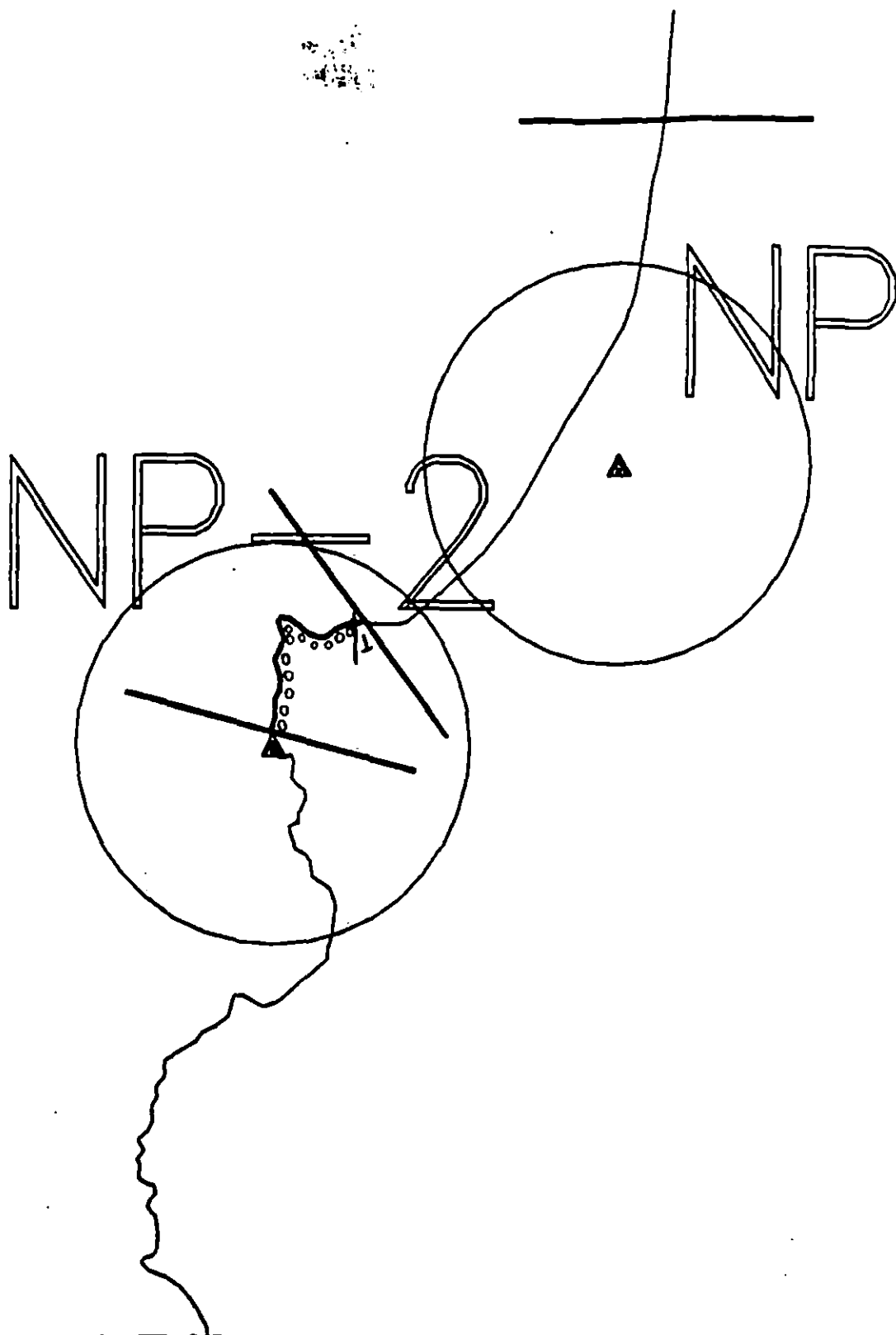
7 - view north

8 - toward shore from 100m
out

- no oil at all along rocky
shore some trace on a
couple of rocks thrown up
on beach by woman's house
- ~~no~~ no cleanup needed

departed 1445, got on helicopter,
went to Karluk to drop off
Tommy, Don, & Fran Benson (HSE)
then returned to Kodiak,
arriving 0545





Exxon Company, USA
 NEW YORK, NY 10019

ECOLOGY MAP
 K0600-SEGMENT NP-2-A
 SUBDIVISION: 400 (--- of ---)
 METERS

- ★ Seabird Colony
- ▲ Eagle Nest

SHORELINE EVALUATION

SEGMENT ST/K0619-CK01 SUBDIVISION A* DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sea lion pupping- 15 May to 1 July; Sea lion moulting - 15
August to 15 September. Bald eagles seen in vicinity.

SUBDIVISION ECOLOGICAL CONSTRAINTS: None identified.

ARCHAEOLOGICAL CONSTRAINTS: If treatment is planned, a
cultural resource evaluation is required prior to shoreline

SHPO SIGNATURE: Charles E. Davis DATE: April 5, 1990

OILING CATEGORIZATION:

 m Wide, m Medium, m Narrow, m V. Light, 753 m No Oil
Subsurface Oil Observed Yes X No Maximum Depth

RECOMMENDATIONS:

X No Treatment Recommended
 Treatment Recommended
 Manual Pickup Snare Booms/Sorbents Tarmat Breakup/Removal
 Bioremediation SPOT WASHING Other
 Wands
 Beach Cleaner

Comments: No oil observed by team, SSAT team recommends no
treatment.

TAG COMMENTS: Concur

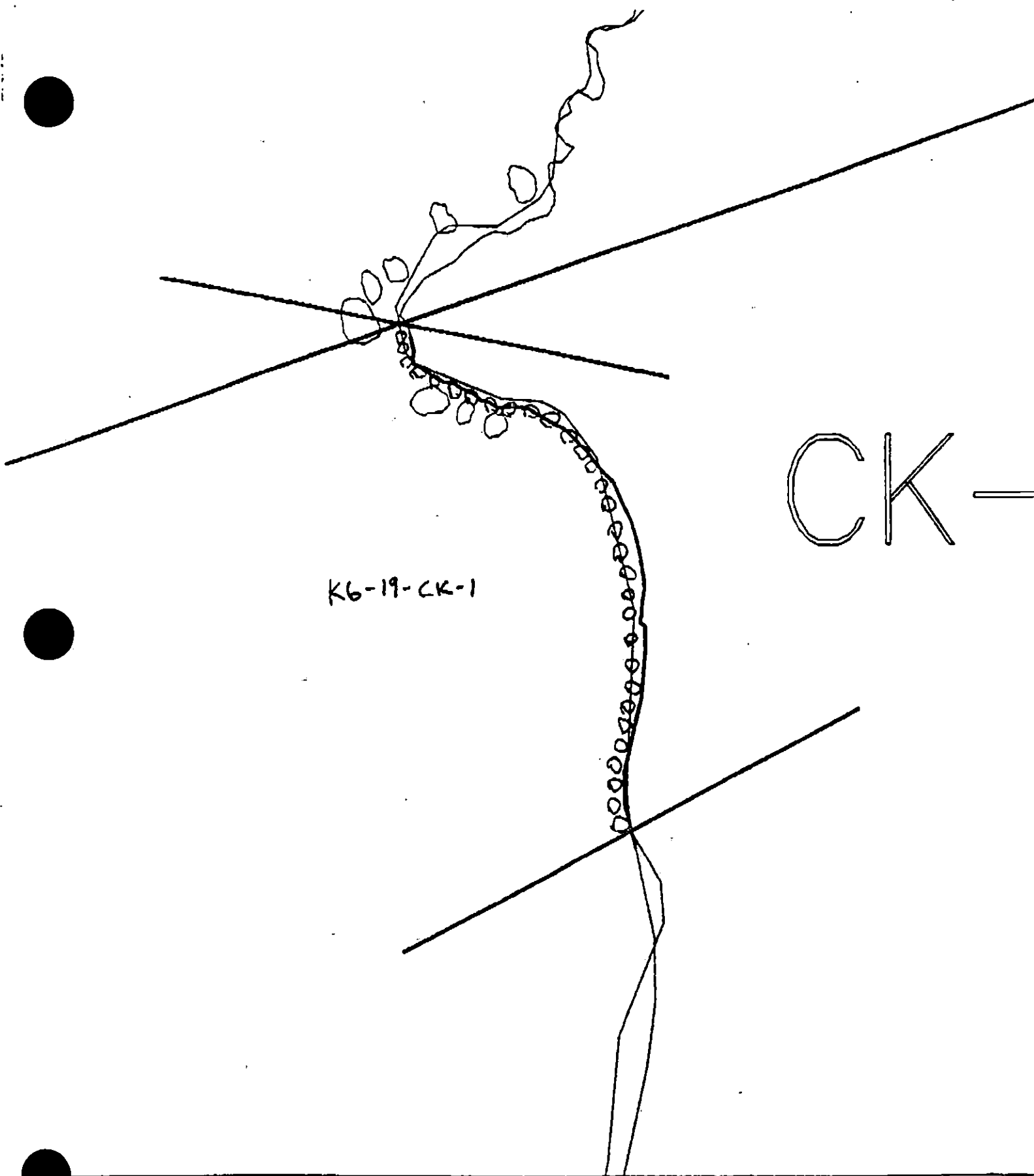
TAG APPROVAL DATE: 4/5/90

ADEC JOHN BAUER John Bauer
BYXON AMY TELL Amy Tell
AA Burl Wescott Burl Wescott
SCG G.A. REITER G.A. Reiter

FOSC:

DATE: 4-7-90

* Subdivision covers entire segment.



K6-19-CK-1

CK-

CK-1

XXXX Wide
 //// Medium
 --- Narrow

ADEC Segment Length: 753m

Map Key: GOA-54

Name: Acton

Date: 3-30-80

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-19-CK-1 SUBDIVISION: _____ DATE 3-20-90

USCG

NAME D.D. Horen Jr, Gm3 USCG SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil

ADEC

NAME Francine Berois SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

The team walked entire segment: No oil observed

LAND MANAGER

NAME JOHN P. HARDISTER SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil observed

REGION: KODIAK

SEGMENT: K0619-CK01

SUBDIVISIONS: A

SHORELINE EVALUATION

SEGMENT ST/K0619-CK01 SUBDIVISION A* DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sea lion pupping- 15 May to 1 July; Sea lion moulting - 15
August to 15 September. Bald eagles seen in vicinity.

SUBDIVISION ECOLOGICAL CONSTRAINTS: None identified.

ARCHAEOLOGICAL CONSTRAINTS: If treatment is planned, a
cultural resource evaluation is required prior to shoreline

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

 m Wide, m Medium, m Narrow, m V. Light, 753 m No Oil
Subsurface Oil Observed Yes X No Maximum Depth

RECOMMENDATIONS:

 X No Treatment Recommended
 Treatment Recommended
 Manual Pickup Snare Booms/Sorbents Tarmat Breakup/Removal
 Bioremediation SPOT WASHING Other
 Wands
 Beach Cleaner

Comments: No oil observed by team, SSAT team recommends no
treatment.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

DEC _____
KON _____
AA _____
USCG _____

FOSC: _____ DATE: _____

* Subdivision covers entire segment.

SHORELINE OILING SUMMARY

REVISION NO. 0172/80

OG Acton USCG Haven SEGMENT ST/ KL-19-CX-1
 BIO Davis LAND REP USEWS Hardister SUBDIVISION A
 EXXON Avery ADEC Bennis TIME 9:00 to 10:40
 TEAM NO.: 20 TIDE LEVEL: -1.5 to -2.0 DATE 3/30/90
 EST. SUBDIVISION LENGTH: 739 m ☐ Sun ☒ Clouds ☒ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 0 % B 20 % C 40 % P 20 % G 10 % S 10 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 739 m
 739

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	SB	BR	DB	RW	GY	SL	DBR	TL	SU	UI	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													✓	✓	✓	✓

PAVEMENT: H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE 0#BAGS 0

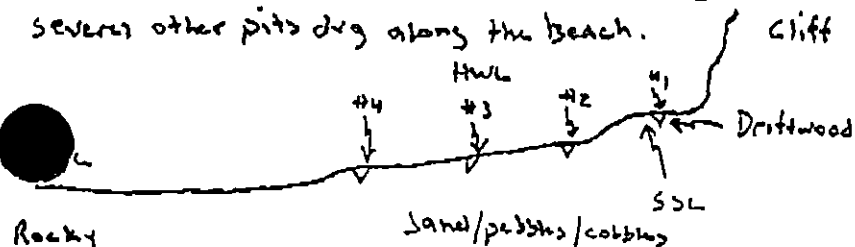
Photographs:

Roll No. 20-1Frames 16-20

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SB	BR	DB	RW	GY	SL	DBR	TL	SU	UI	M	U		
1	40					✓	-											✓					cobbles
2	40					✓	-											✓					cobbles
3	50					✓	-													✓			cobbles
4	50					✓	-													✓			cobbles
5	40					✓	-											✓					cobbles
6	40					✓	-											✓					cobbles

COMMENTS No oil was observed in this segment. One beach transect of 4 pits was dug, with several other pits dug along the beach.



All pits approx 40-50 cm in depth surveyed entire section on foot. Pits #2-#4 extended down to top of substrate, where no oil was observed.

OG Acton

SEGMENT 17 K6-19-C2-1

SUBDIVISION A

DATE 3 / 30 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

$\boxed{CT/C}$
Continuous Distribution

$\boxed{CT/B}$
Broken Distribution

$\boxed{CT/P}$
Patchy Distribution

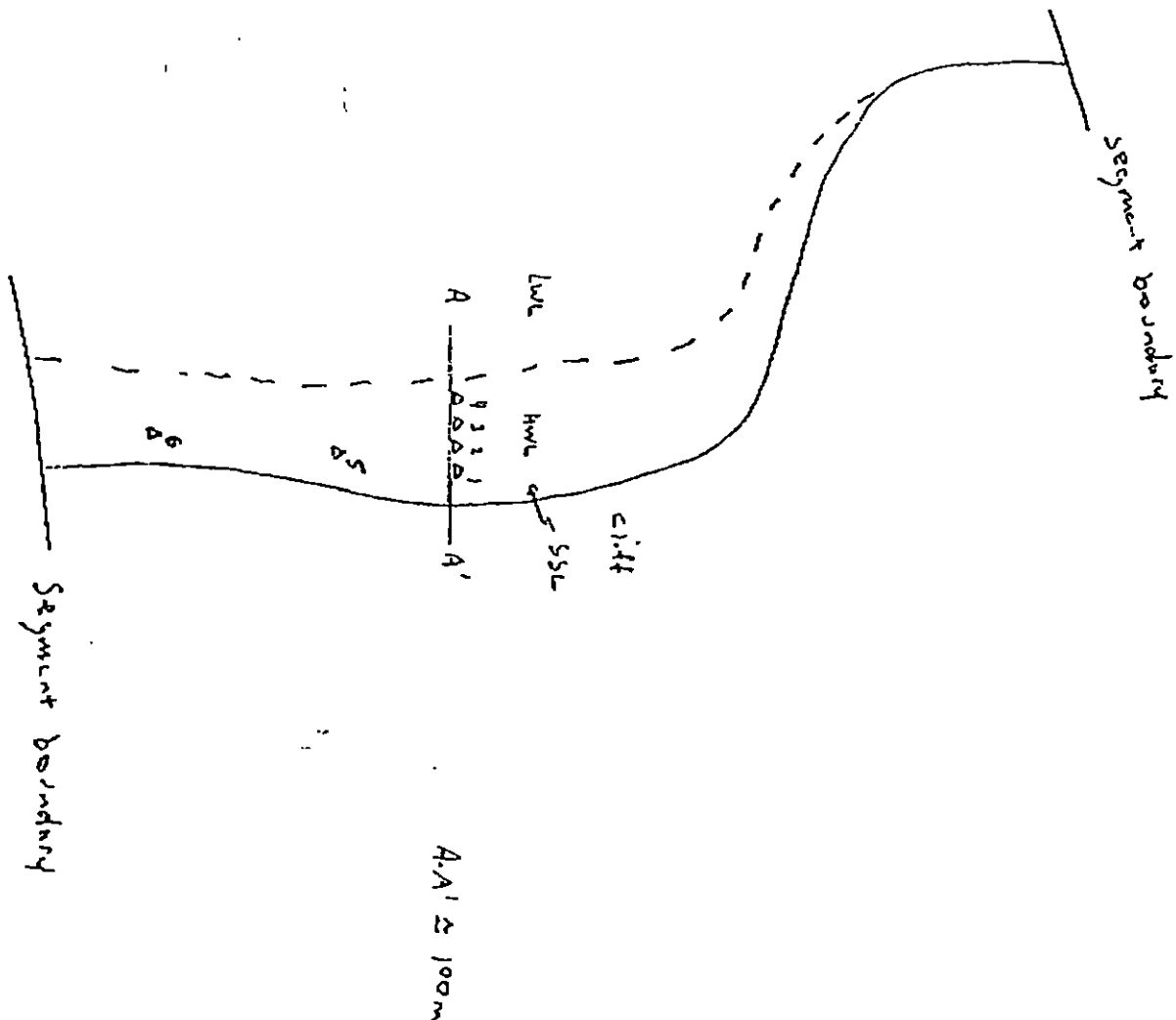
$\boxed{CT/S}$
Splashed Distribution

Oiled Vegetation

1 $\rightarrow$
Photo location, direction, and number

SKETCH MAP

North 
Scale Approx. 1cm $\approx$ 50m



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 750

REVISION

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K06-19 Subdivision CK 1 Date (mo / day / yr) 3-30-90

Time (24 hr) 09:15 Biologist H. Davis

(A) Substrate type and % of segments:
(1) Bedrock (2) Boulder 20 (3) Cobble 40 (4) Pebble 30 (5) Sand 10 (6) Silt

(B) Overall % cover of biota (% of segment): Dense 60% Moderate 20% Low 20% (30%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (O)

Photographs:
Roll No. 20-1

Frames 13, -21

BARNACLES

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	X	2	2	X	2	2	2	2	X	1M	2	NOT PRESENT 1, 5, 6
3	3	3	3	X	3	X	3	X	3	3	3	
4	4	4	4	4	4	4	X	4	X	4	X	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	X	2	2	2	X	X	2	2	2	2	2	NOT PRESENT 1, 5, 6, 4u, 4L
3	3	3	3	X	3	3	X	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	X	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	X	X	2	2	2	X	2	2	2	NOT PRESENT 1, 5, 6 4u, 4L
3	3	3	X	X	3	3	3	X	3	3	3	
4	4	4	4	4	4	4	4	4	4	X	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

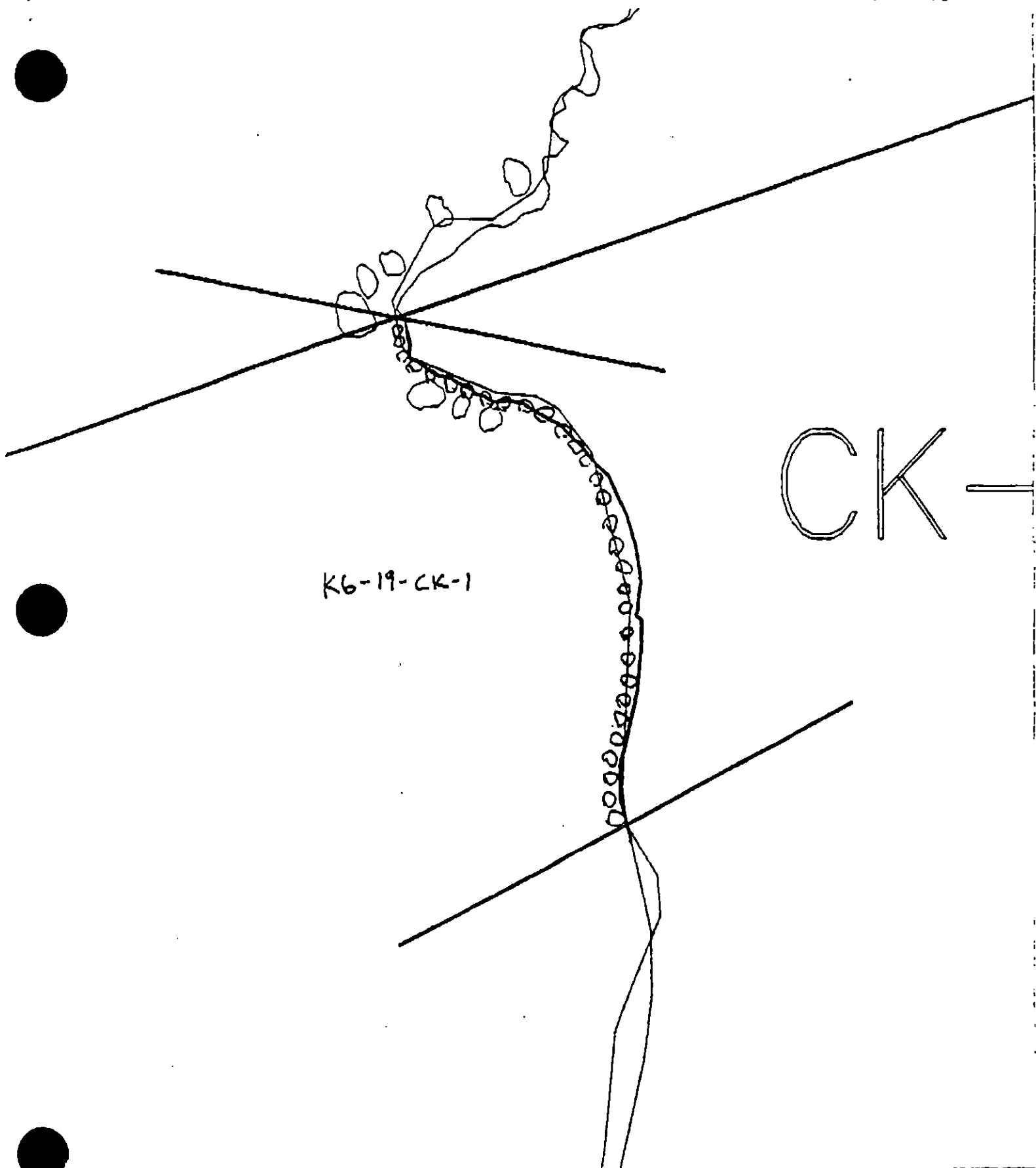
FUCUS

			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	X	2	2	X	2	X	2	2	2	2	X	NOT PRESENT 1, 4u, 4L, 5
3	X	3	3	X	3	3	3	3	3	3	X	
4	4	4	4	4	4	4	4	4	4	X	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: 5 adult Eagles in flight over Cape Kuliak. Deer leaving intertidal as we land. Many sets of deer tracks (8), fox tracks. River Otter running in intertidal. 2 Harlequin ducks feed in intertidal (10/18) 15 Gulls. Glaucous winged gull in intertidal. Shag Seals. Old Squaw. Snowshoe Hares.

Ecological Considerations: Eagles will be nesting in the area.

3P - See from pupping 15 May - 1 July



XXXX Wide

//// Medium

---- Narrow

CK-1

ADEC Segment Length: 753m

Map Key: GOA-54

Name: Acton

Acton: 3-30-80

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-19-C2-1 SUBDIVISION: _____ DATE 3-30-90**USCG**NAME D.D. Hosen Jr, Gm3 USCG SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil**DEC**NAME Francine Bennis SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDThe team walked entire segment: No oil observed**LAND MANAGER**NAME JOHN P. HARDISTER SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTEDNo oil observed

SHORELINE EVALUATION

SEGMENT ST/ K0619-CK03 SUBDIVISION A DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Anadromous fish stream (1A) - 3/1 to 5/15: Bald eagles
active within segment/subdivision. Anadromous fish stream
(1B) - 7/10 to 8/31.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Same as above.

ARCHAEOLOGICAL CONSTRAINTS: If treatment is planned, a cul-
tural resource evaluation is required prior to shoreline
treatment.

SHPO SIGNATURE: Charles E. Adams DATE: April 5, 1990

OILING CATEGORIZATION:

0 m Wide, 0 m Medium, 0 m Narrow, 0 m V. Light, 4178 m No Oil
Subsurface Oil Observed Yes X No Maximum Depth

RECOMMENDATIONS:

X No Treatment Recommended
 Treatment Recommended
 Manual Pickup Snare Booms/Sorbents Tarmat Breakup/Removal
 Bioremediation SPOT WASHING Other
 Wands
 Beach Cleaner

Comments: Very clean; no oil observed, SSAT Team recommends no
treatment.

TAG COMMENTS: Concurs

TAG APPROVAL DATE: 4/5/90

ADEC JOHN BAUER John Bauer

EXXON Amey Tetz Amey Tetz

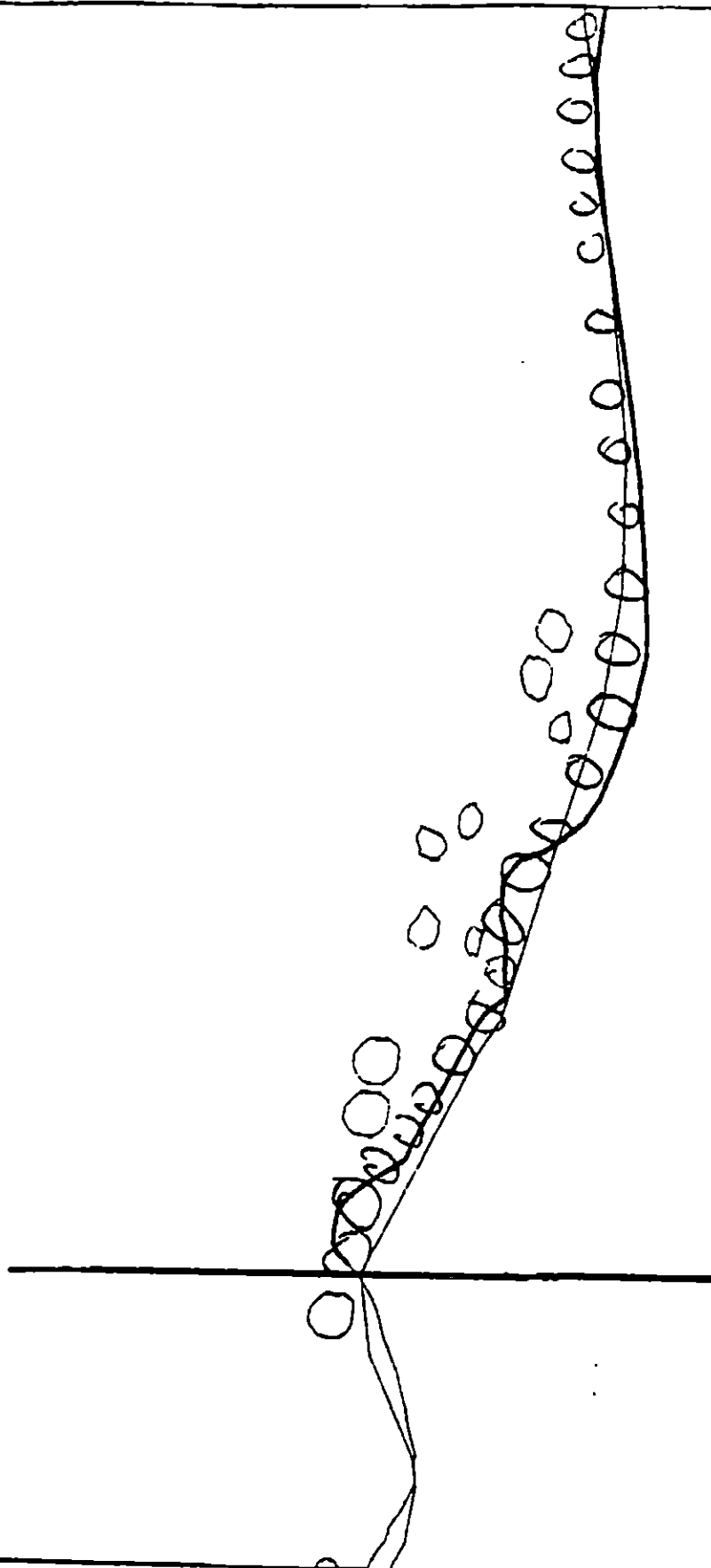
OAA Burt Wescott Burt Wescott

SCG G.A. REITER G.A. Reiter

FOSC: W/L DATE: 5-12-90

↑
GOA
568

K6-19-CK3



XXXX Wide
// Medium

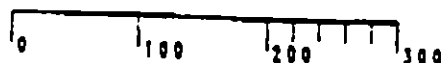
--- Narrow

TTTT Very Light

OOOO No Oil

CK-3

ADEC Segment Length: 4178m



Map Key: GOA-560

Name: Acton

Date: 3-30-90

↑ GOA
56c

KG-A-CK-3

GOA
↓ 56A

CK-3

XXX Wide

//// Medium

--- Narrow

TTTT Very Light

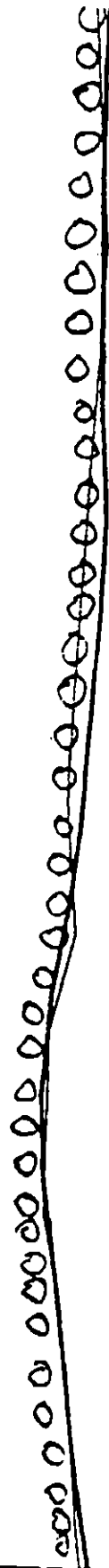
ADEC Segment Length: 4178m

Map Key: GOA-56b

Name: Acton

Date: 3-30-90

↑
GOA
568



KG-19-CK-3

↓ GOA 568

XXX Wide

/// Medium

--- Narrow

TTTT Very Light

CK-3

ADEC Segment Length: 4178m



Map Key: GOA-56c

Name: Acton

Date: 3-30-90



KG-19-CK-3

GOA 56 C

XXXX Wide
// Medium
--- Narrow
TTTT Very Light
0000 No Oil

CK-3

ADEC Segment Length: 4178m



Map Key: GOA-56d
Name: Acton
Date: 3-30-90
Data Entered:

REGION: KODIAK

SEGMENT: ST/K0619-CK03

SUBDIVISIONS: A

SHORELINE EVALUATION

SEGMENT ST/ K0619-CK03 SUBDIVISION A DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Anadromous fish stream (1A) - 3/1 to 5/15: Bald eagles
active within segment/subdivision. Anadromous fish stream
(1B) - 7/10 to 8/31.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Same as above.

ARCHAEOLOGICAL CONSTRAINTS: If treatment is planned, a cul-
tural resource evaluation is required prior to shoreline
treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

0 m Wide, 0 m Medium, 0 m Narrow, 0 m V. Light, 4178 m No Oil
Subsurface Oil Observed Yes X No Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended
____ Treatment Recommended
____ Manual Pickup Snare Booms/Sorbents Tarmat Breakup/Removal
____ Bioremediation SPOT WASHING Other
____ Wands
____ Beach Cleaner

Comments: Very clean; no oil observed, SSAT Team recommends no
treatment.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

DEC _____
KXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

SHORELINE OILING SUMMARY

DRAFT

OG Acton USCG Haven SEGMENT ST/ K6-19-CK-3
 NO Davis LAND REP USFWS Hardwater SUBDIVISION A 001.1
 ON Avery ADEC Bennis TIME 10:50 10:12:15
 TEAM NO. 20 TIDE LEVEL: 0 10 +1 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 4.33 4133m ☐ Sun ☒ Clouds ☒ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 100 % B 10 % C 30 % P 30 % G 30 % S 30 % M 30 % V 30 %
 SLOPE: Lang 100 % Hang 100 % Vert 100 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 100 m M 100 m N 100 m VL 100 m NO 4.33 m
 SAT 4133

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	U	B	P	S	SB	BR	OR	OL	OW	SL	TL	LB	SU	UI	M	U
ASPHALT																
PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													✓	✓	✓	✓

PAVEMENT: H F S 100 sq. m by 100 cmPATTIES / TARBALLS 100 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE 100#BAGS 100

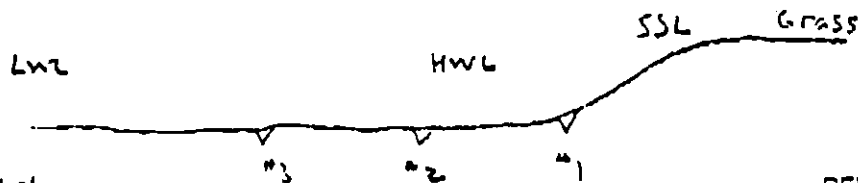
Photographs:

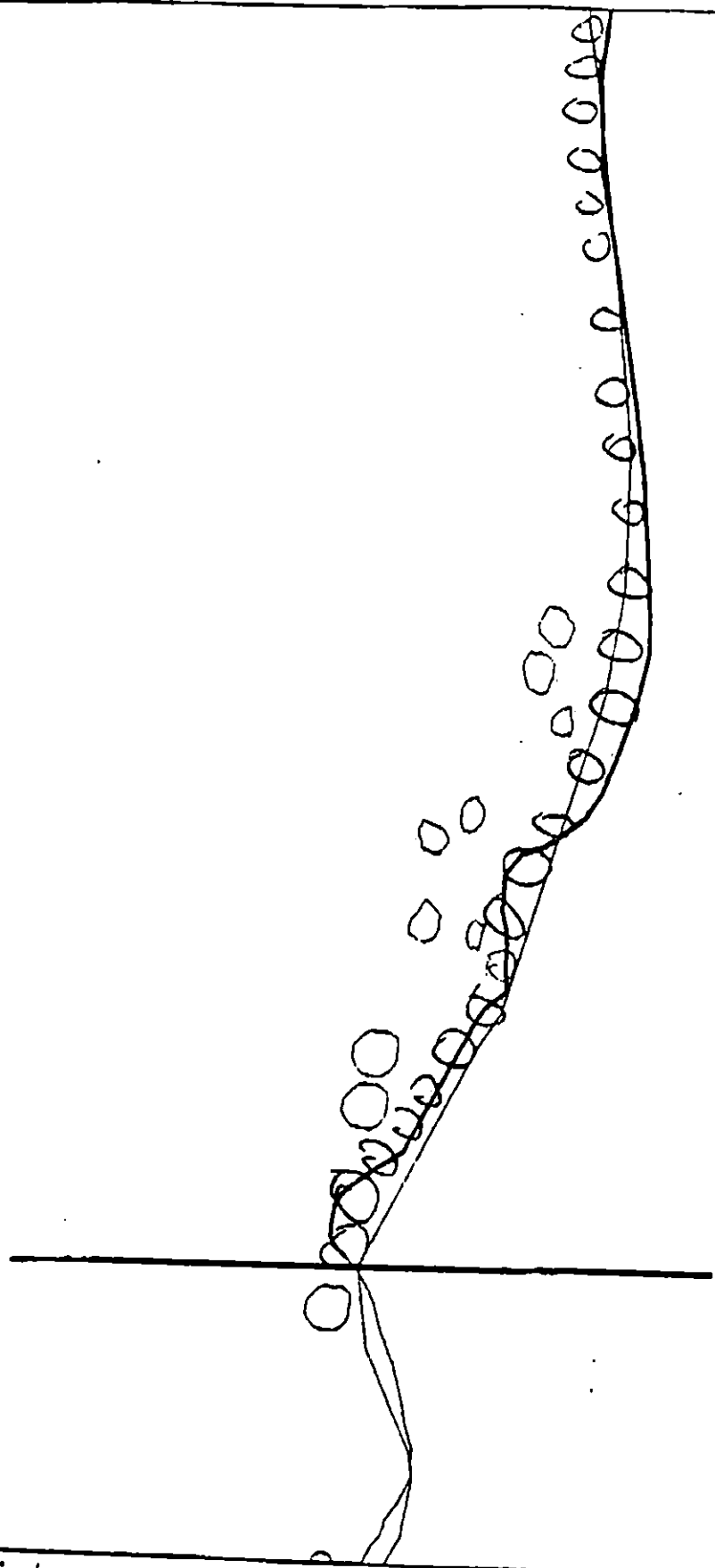
Roll No. 20-1Frames 21-22

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	VC	SB	BR	OR	OL	OW	SL	TL	LB	SU	UI	M	U		
1	40					✓	-												X				S/P/C
2	40					✓	-													X			S/P/C
3	40					✓	-													X			S/P/C
							-																
							-																
							-																

COMMENTS No oil was observed in this segment. One beach transect of 3 pits was dug, with several other pits dug along the beach also. Pits were approx 40cm in depth. No oil observed in substrate at base of pits. Surveyed entire section on foot.





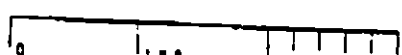
↑
GOA
568

K6-19-CK3

- X ● X Wide
- //// Medium
- Narrow
- TTTT Very Light
- OOOO Very Light

CK-3

ADEC Segment Length: 4178m



Map Key: GOA-560

Name: Acton

Date: 3-30-90

MAR-30-1990 18:45 FROM EXXON FODIAK

TO

15843771

P.05

↑
GOA
56c

(

KG-H-CK-3

GOA
↓ 56A

XXX Wide

//// Medium

--- Narrow

TTTT Very Light

CK-3

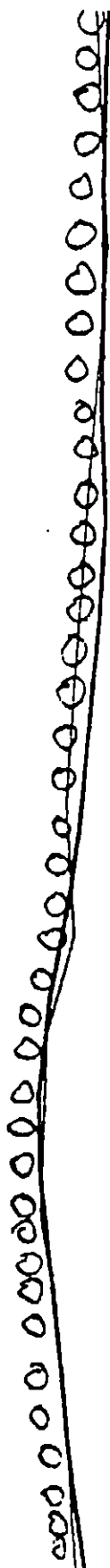
ADEC Segment Length: 4178m

Map Key: GOA-56b

Name: Acton

Date: 3-30-90

↑
GOA
56B



KG-19-CK-3

↓ GOA 56B

XXXX Wide

//// Medium

---- Narrow

IIII Very light

CK-3

ADEC Segment Length: 4178m

Map Key: GOA-56c

Name: Acton

Date: 3-30-90

15-19-1990 07:15: 111



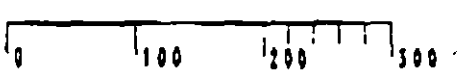
26-19-CK-3

GOA 56 C

- XX Wide
- /// Medium
- Narrow
- TTTT Very Light
- oooo Very Light

CK-3

ADEC Segment Length: 4178m



Map Key: GOA-56d
Name: Acton
Date: 3-30-90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K06-19 Subdivision CK3 Date (mo / day / yr) 3-30-90Time (24 hr) 10:40 Biologist N. Davis(A) Substrate type and % of segments:
(1) Bedrock (2) Boulder 10 (3) Cobble 30 (4) Pebble 30 (5) Sand 30 (6) Silt (B) Overall % cover of biota (% of segment): Dense 50% Moderate 40% Low 30% (25%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (O)

Photographs: 20-1
Roll No. 20-1Frames 21-30

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	X	2	X	X	2	X	2	2	2	2	X
3	X	3	X	X	3	X	3	3	3	3	X
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 4, 5, 6

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	X	2	X	X	2	2	②	2	2	2	2
3	X	3	X	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 4, 5, 6

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	X	2	X	2	2	2	2	X
3	3	3	3	X	3	X	3	3	3	3	X
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 4, 5, 6

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	X	2	2	2	X	2	2	2
3	3	3	X	X	3	X	3	X	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 4, 5, 6

Wildlife Observations/ General Comments: 4 adult eagles, 1 juvenile Eagle, river otter seen in middle intertidal. Deer tracks in upper intertidal. Harlequin ducks (3) 2♂ 1♀ 3 drf. R. & 2 Glaucous wing gulls.

Ecological Considerations: Anadromous Stream in area, Eagles will probably be nesting in area

13 - STREAM MOUTH SPAWNING (SALMON) 10 JULY - 31 AUG

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K-6-1A-CK-3 SUBDIVISION: _____ DATE 3-30-90

USCG

NAME D.D. Haven Jr. USCG SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

No oil

ADEC

NAME Francis Bennis SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

We walked entire length of segment: NO OIL OBSERVED, except for one stained piece of driftwood in supralittoral zone.

LAND MANAGER

NAME John P. Hardister SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

No oil - entire segment

REGION: KODIAK

SEGMENT: ST/K06-19-CK-005

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-19-CK-005 SUBDIVISION A (1 OF 1) DATE 5/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-3 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R Seabird colony (5/1 to 9/1)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

Cultural resource survey in progress. Shoreline treatment cannot proceed until field data have been assessed and a formal archaeological constraint entered on the shoreline evaluation form.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1184 m: No Oil 2638 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS: Recommend manual removal of oiled debris and mousse as shown on sketch map. Work after 6/1 and/or with USFWS approval regarding seabird and eagle nest constraints and after archaeological constraint has been determined.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECONOMIC CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery releases
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)
East side Kodiak, East side Afognak (7/4 to 10/1)
1K Purse seine hook-off
1L Set net sites
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- 3P Harbor seal and sea lion pupping (5/10 to 7/1)
Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31).
Contact ADF&G and USFWS prior to treatment for confirmation.
AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
6V Anchorages (8/1 to 9/15)
6W Forest Service cabins (8/1 to 9/15)
6X Lodge (8/1 to 9/15)
6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 to 9/30)
7-H Finfish harvesting
7-I Deer harvesting (8/1 to 1/7)
7-J Invertebrate harvesting
7-K Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 K6.19 - CK.5 SUBDIVISION: A DATE 5-9-90**SCG**NAME Kenneth M. TRABUE SIGNATURE K. Trabue☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Sporadic Cover oil on Boulders at far southern end of Segment is recoverable. There are already work orders in nearby segments in Spiridon Bay. Recommend manual pick-up.

ADECNAME Francine J. Bennis SIGNATURE Francine J. Bennis☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

MANUAL PICK-UP Recommended

Oil is present in the form of ST, CR, CV, MS, & mousse saturated sediments, in patchy distribution. A small clean-up crew (2-4 people) w/ shovels & travel should 'police' small bights & southern 1/2 of the Cove & look at area to the north of the cove to recover collectable oil, w/ SSAT field map in hand.

LAND MANAGERNAME OTTO FLORSCHUTZ SIGNATURE Otto Florschutz☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

I agree with recommended manual recovery procedures. See attachment # 2.

Attachment 2**U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer**

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately 'clean' or 'restored' for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

SHORELINE OILING SUMMARY

REVISION NO. 04.12.90

OG Greg Chaney USCG Ken Trabue SEGMENT ST/ K6-19-CK-05
 BIO Hedder Davis LAND REP Otto Fierschütz SUBDIVISION A (LOFL)
 EXXON - ADEC Fran Bennis TIME 08:40 to 13:05
 TEAM NO. 20 TIDE LEVEL -1.5 ft 6.5 ft DATE May 19 /90
 EST. SUBDIVISION LENGTH: 3879 m ☐ Sun ☒ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo WORKING DIRECTION: South to North
 SURFACE SEDIMENTS: R 30 % B 30 % C 15 % P 10 % G 5 % S 5 % M 5 % V - %
 SLOPE: Long 40 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 1165 m NO 2714 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	R	P	S	1	2	3	4	5	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER			X		X					X			
COAT			X		X					X	X		
STAIN			X		X					X	X		
MOUSSE		X								X	X		
PATTIES													
TARBALLS													
FILM													
NO OIL													X

PAVEMENT H F S - sq. m by - cmPATTIES / TARBALLS 4 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE NONE#BAGS 0

Photographs:

Roll No. ST 2010Frames 25 to 29

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	! T	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UG	1	2	3	4	5	SU	U	M	U				
1	25					X	.								X					N	O	CB
2	25					X	.									X				N	O	CG
3	25					X	.								X					N	O	CPG
4	40					X	.								X					N	O	P
5	30					X	.								X					N	O	P
							.															

COMMENTS

See attached

REVIEWED

BAT

DATE 17 MAY 90

COMMENTS
SEGMENT ST K0619 CK05

Greg Chaney

May 9 1990

Segment ST K0619 CK05 consists primarily of the southern shore of Chief Cove on Kodiak Island. In this region splattered tar coats were scattered occasionally along the length of the segment. Also found were small patches of weathered mousse which were primarily located between boulders and "melted" into the pebble matrix down to 4 cm deep. Near pit #1 several large boulders were located which had patches of mousse cover up to half a square meter each. These patches were unusual because they were located on the tops of the boulders and not underneath. This mousse was light brown. The length of this region was about 10 meters. Mousse observed throughout the remainder of the segment was lower profile and more difficult to observe. The small island on the "tide flat" in Chief Cove had small patches of mousse distributed discontinuously along a former high tide line. These were primarily located along the island's southwest shore. Similar mousse was distributed along the mainland near the island and near photo #28. A trace of silver sheen was observed near a mousse patch which bordered a small tide pool. Near pit #5 weathered mousse was observed in bedrock cracks. The surface was dark and covered with granules and pebbles but if the surface was disturbed brown mousse was revealed. Three lightly stained logs were noted but the quantity of stain was slight. The usual uncoiled trash (plastic bottles, nets, plastic floats, etc.) were seen in the storm berm but only a small amount of oiled trash was located.

OG Green Shoney

SEGMENT ST-K6-19-CK-05

SUBDIVISION A

DATE May 19 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HMLAVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Plt Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Pit - No Subsurface Oil
- 2 Pit - Subsurface Oil
- CT/C Continuous Distribution
- CT/B Broken Distribution
- CT/P Patchy Distribution
- CT/S Splashed Distribution
- Oiled Vegetation
- 1 Photo location, direction, and number

ST-K6-19-CK-05

ETCH MAP

MANUALLY REMOVE MOUSSE

Pompano STRANDS IN BOULDERS

CHIEF COVE

SMALL PATCHES SCATTERED MOUSSE BETWEEN BOULDERS

2 SQUARE METERS MOUSSE IN BEDROCK CRACKS

LIGHTLY STAINED LOG

LIGHTLY STAINED LOG

LAGOON

5 OILED FEATHERS

TRACE SILVER SHEEN BY SMALL MOUSSE PATCH

SMALL AMOUNT OILED DEBRIS

RANDOM SMALL MOUSSE PATCHES ALONG FORMER HIGH TIDE SPLATTER ON BOULDERS

STATE OF ALASKA CERCLA STUDY SITE

Pick up oiled Debris

SPECIAL SYMBOLS

- SPLATTERED BLACK TAR COAT ON BEDROCK & BOULDERS
- SMALL MOUSSE PATCHES

OIL COVER 0.5 METER PATCHES MOUSSE OVER 10 METER SECTION. MOUSSE ON TOP OF BOULDERS & AT BASE OF COBBLES

SMALL ROCK ISLAND MOUSSE PATCHES CONCENTRATED ON OPEN WATER SIDE ALSO TAR SPLATTER

RANDOM SMALL MOUSSE PATCHES ALONG FORMER HIGH TIDE LINE

250 METERS

KODIAK ISLAND

Oil Character Length (m): AP 0 PO 0 CV 10 CT 400 ST 0 MS 800 PT 0 TB 0 FL 0 NO 2714

REVISION: 000000

MAY-15-1990 17:52 FROM EXXON KODIAK TO 15643771 P.02

SHORELINE ECOLOGICAL SUMMARY

REVISION: 0222

Segment ST/K06-19 Subdivision CK-05 Date (mo/day/yr) 5/9/90Time (24 hr) 08:30 Biologist H. Davis

(A) Substrate type and % of segments:

(1) Bedrock 30 (2) Boulder 30 (3) Cobble 15 (4) Pebble 15 (5) Sand 5 (6) Silt 5(B) Overall % cover of biota (% of segment): Dense 40% Moderate 30% Low 30% (60%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:

Roll No. ST-20-10Frames 25-29

BARNACLES Continuous and dense to moderate

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4,5,6

MYTILUS Dense Beds along most of the segment.

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
3,4,5,6

GASTROPODS Littoral sparse with some dense patches. Limpets moderate. Nucella sparse.

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4,5,6

FUCUS Moderate and dense patches continuous along segment

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4,5,6

Wildlife Observations/ General Comments: See Attached Sheet.

Ecological Considerations: ST-3, SR. There is an Eagle nest and a pair of adult Eagles in the uplands of the segment. Glaucous-winged Gulls are nesting on the island. (Possibly Pomarine Skuas also). A Raven other has a run and den in the bluffs. One other nest was seen in the upland, but no other Eagles.

Ecology Sketch Map

250 Meters

cobble/pebble beaches with
Hipparchia and Onchostoidia

River
Otter Den
& Run.

Beaver

Oystercatchers

Glaucous-winged
Gulls

x Eagle nest
x Eagle

Belanus glandula and *B. cariosus*, *Endocladia*,
Gioiopelta, *Littorina*, and limpets dominated
the upper area of this region. A little lower
down *Fucus*, *Odonthalia*, *Rhodomena*, *Ulva*,
Porphyra, *Mytilus*, *Anthophora*, *Nucella* were
common. Below that began a gravel/sand
area.

Stream
(Not Anadromous)

This area was much more
diverse in its biota. Animals
and plants were also very
numerous. On and under
the dense algal cover were
Sea Stars, Sea Cucumbers, snail,
limpets, crabs, flatworms,
Nemertean, Annelids, molluscs,
Pycnogonids, Bryozoans and
Tunicates. More different species
more area than I have seen at
any other site.

Small well protected bays. Barnacles, *Littorina*, limpets and *Endocladia*
were dominant in the upper area. An extensive *Mytilus* bed (≈ 5 m wide)
continued around the cove. Below the mussel bed was an area of Algae
covering cobbles: *Ulva*, *Fucus*, and an unknown red alga were the dominant algae.
Protothaca, *Clinocardium*, and *Saxidomus* were present in the mud and
gravel below this area. *Zostera* beds grew in the center of the cove.

K06-19 CK- 05

5/9/90

H. Davis

SPECIES LIST

A. MARINE PLANTS

1. GREEN ALGAE - CHLOROPHYTA

Cladophora sp.

Enteromorpha sp.

Ulva sp.

Unknown filamentous green algae

2. BROWN ALGAE - PHAEOPHYTA

Alaria marginata

Agarum fimbriatum

Costaria costata

Ectocarpus sp.

Fucus distichus

Hedophyllum sessile

Laminaria dentigera?

Nereocystis leutkeana

Pleurophycus gardneri

Ralfsia sp.

Scytosiphon lomentaria

3. RED ALGAE - RHODOPHYTA

Bossiella sp.

Calliarthron sp.

Coralina sp.

Endocladia muricata

Grateloupia setchellii

Gloiopeltis furcata

Odonthalla floccosa

Petrocelis sp.

Porphyra sp.

Rhodomela larix

Unknown red algae blade

Unknown red algae filamentous

4. HIGHER PLANTS

Leymus mollis - beach rye
Zostera marina - eel grass

B. MARINE ANIMALS

1. SPONGES - PORIFERA

Halichondria panicea
Ophlitaspongia pennata

2. ANENOMES

Anthopleura artemesia
A. elegantissima
A. xanthogrammica
Eplactis prolifera?
Metridium senile
Tella crassicornis

3. HYDROIDS

Sertularidae sp?

4. FLATWORMS - PLATYHELMINTHES

Two different unknown sp.

5. NEMERTEAN WORMS

Amphiparus angulatus
Unknown sp. (bright red)

6. ANNELIS WORMS

a. Polychaetes

Nereidae

Harmothoe sp.
Nereis branti

b. Serpulidae

Crucigera sp.
Sabella sp.
Serpula sp.

c. Spirorbidae

Spirorbis sp.

7. CRUSTACEANS

a. AMPHIPODS

Orchestia sp.

b. BARNACLES

Balanus glandula

B. cariosus

Chthamalus dalli?

c. CRABS

Cancer magister

C. oregonensis

Elassochirus gilli

Pagurus sp.

Telmessus cheiragonus

Telmessus sp.

d. ISOPODS

Cirolana harfordi

Idotea wosnesenskii

Ligia sp.

8. MOLLUSCA

a. CHITONS

Katharina tunicata

Mopalia sp.

Mopalia mucosa

Tonicella lineata

b. SNAILS - XGASTROPODS

Buccinum sp.

Lacuna variegata?

Littorina scutulata

L. sitkana

Neptunea sp.

N. lima, *emarginata*?

N. canaliculata

Searlesia dira

Voltharpa sp.

c. LIMPETS

Acmaea mitra

Collesella digitalis

Notoacmea scutum

N. persona

C. pelta

N. fenestrata?

Lottia sp.

Lamellaria sp.

d. NUDIBRANCHS

Lamellodoris fusca

e. BIVALVES

Clinocardium nuttalli

Macoma nasuta

Modiolus modiolus

Mytilus edulis

Pododesmus cepio

Prototheca staminea

Saxidomus giganteus

Tresus capax

9. ECHINODERMS

a. BRITTLE STARS

Evasterias truscheli

Leptasterias hexactis

Orthasterias keohleri

Pycnopodia helianthoides

b. HOLOTHURIANS

Cucumaria sp.

Eupentacta sp.

Leptosynapta inhaerens

c. URCHINS

Strongylocentrotus droebachiensis

10. BRYOZOANS

Membranipora sp.

Phidolopora pacifica

11. BIRDS

Oystercatchers (13)

Glaucous-winged Gull (20)

Mergansers (5)

Bufflehead (5)

Barrows Golden Eye (3)

Eagles (2)

Harlequin ducks (4)

Mallards (2)

Whislars Snipe

Arctic Tern (2)

12. MAMMALS

Bear (scat)

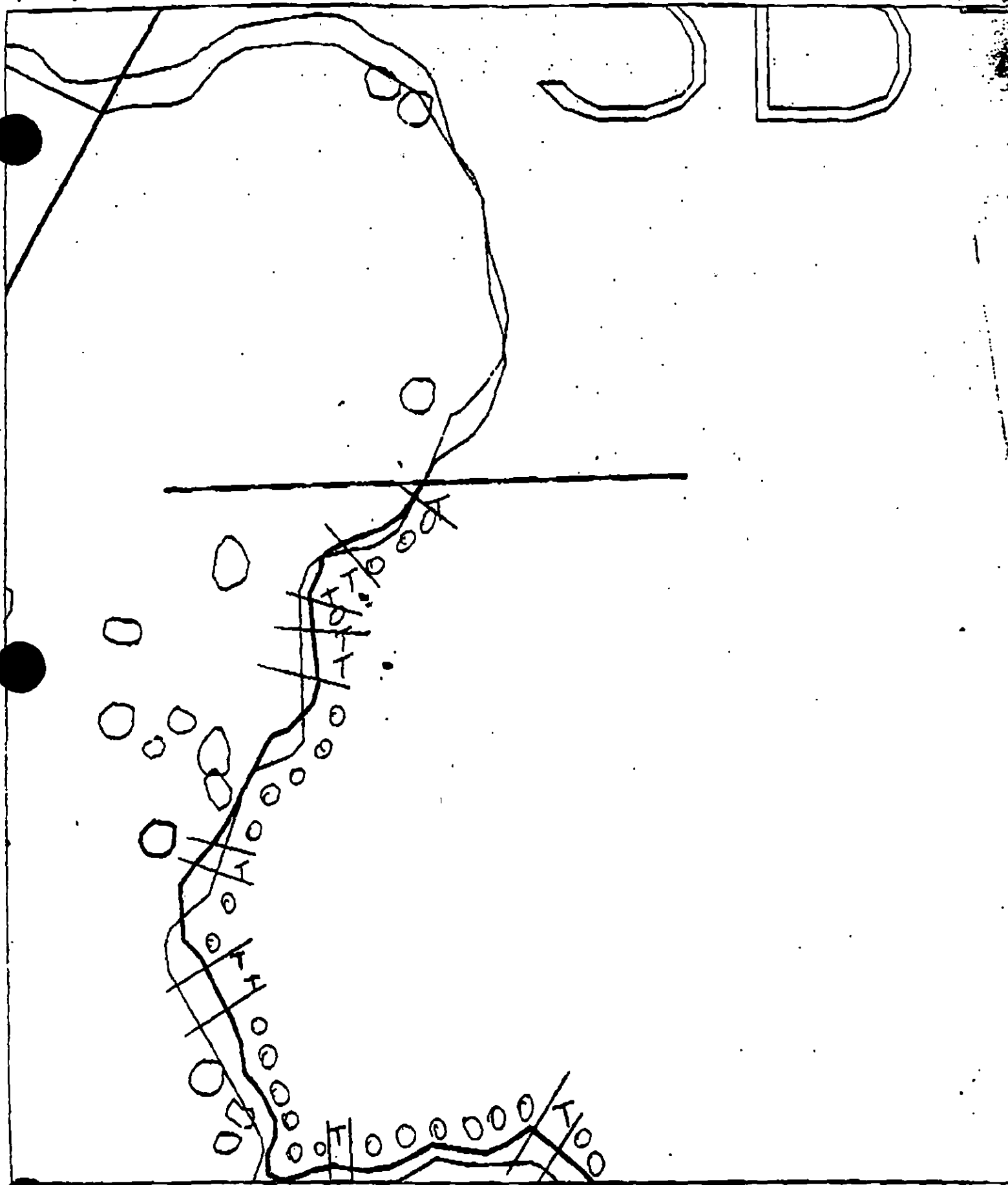
Beaver (one male, one skeleton)

Deer (tracks, scat, and skeletons)

Fox

River Otter

Sea Otter



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0619 - CK-5

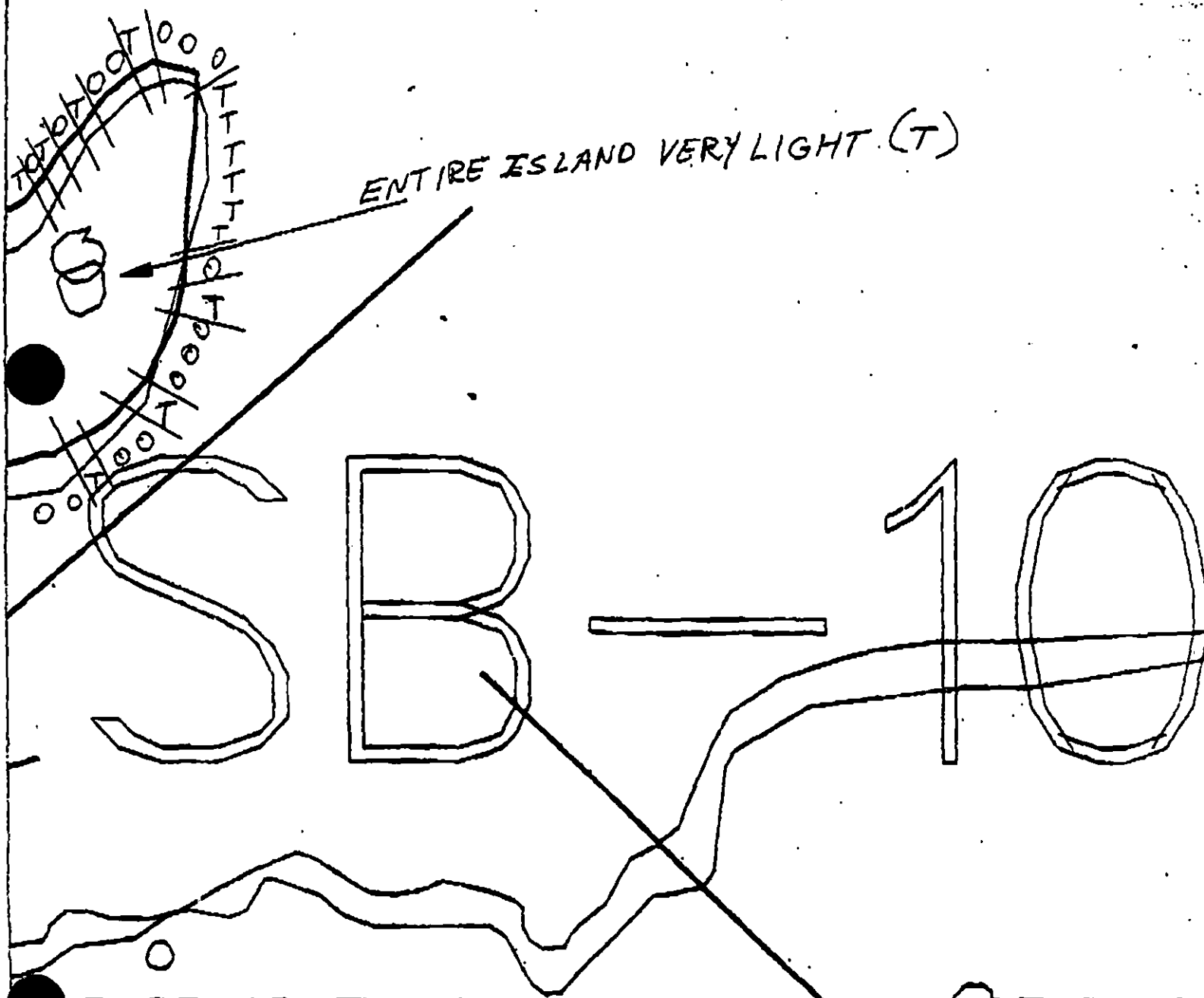
Approx. Segment Length: 3914m



Map Key: KOD-CK-5c

Name: Greg Chaney

Date: Nov 9 1990



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0619-CK-5

Approx. Segment Length: 3914m

Map Key: KOD-CK-5b

Name: Greg Chaney

Date: Mar. 9 1990

VERY LIGHT
ON POINT
BOTH
MAPS

XXXX Wide

//// Medium

--- Narrow

TTTT Very light

K0619-CK-5

Approx. Segment Length: 3914m

Map Key: K00-CK-5a

Name: Greg Chaney

Date: May 9 1990

SHORELINE EVALUATION

SEGMENT ST/ K06-19-CK-005 SUBDIVISION A (1 OF 1) DATE 5/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-3 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R Seabird colony (5/1 to 9/1)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINT: An Exxon archaeological monitor is required on-site during shoreline treatment.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

NO BEACH ACCESS PRIOR TO ARRIVAL OF ARCHAEOLOGIST

SHPO SIGNATURE: Rachel Joan Oen DATE: 7/16/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1184 m: No Oil 2638 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommend manual removal of oiled debris and mousse as shown on sketch map. Work after 6/1 and/or with USFWS approval regarding seabird and eagle nest constraints and after archaeological constraint has been determined.

TAG COMMENTS:

TAG APPROVAL DATE: 5/29/90
ADEC ART WEINER
EXXON ANDY TGA
NOAA BILL WESCOTT
USCG G.A. REITER

FOSC: DATE: 7-18-90

OG Greg [redacted]

SEGMENT ST-19-CK-05

SUBDIVISION A

DATE May 9 90

CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Bndry
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. HAWAII
- SSL
- Profile Location(s)
- Profile(s)
- Pit Location(s)
- Photo Location(s)

LEGEND

- 1 ▲ Pit - No Subsurface Oil
- 2 ▲ Pit - Subsurface Oil
- CT/C Continuous Distribution
- CT/O Broken Distribution
- CT/P Patchy Distribution
- CT/S Splashed Distribution
- Oil Vegetation

1 ● Photo location, direction, and number

Oil Character Length (m): AP 0 PO 0 CV 10 CT 400 ST 0 MS 800 PT 0 TB 0 FL 0 NO 2714

ST-19-CK-05

MANUALLY REMOVE MOUSSE

POM-POM STRANDS IN BOULDERS

CHIEF COVE

LIGHTLY STAINED LOG

2 SQUARE METERS MOUSSE IN BEDROCK CRACKS

LIGHTLY STAINED LOG

29

LAGOON

LIGHTLY STAINED LOG

5 OILED FEATHERS

TRACE SILVER SHEEN BY SMALL MOUSSE PATCH

SMALL AMOUNT OILED DEBRIS

RANDOM SMALL MOUSSE PATCHES ALONG FORMER HIGH TIDE SPLATTER ON BOULDERS

STATE OF ALASKA CERCLA STUDY SITE

Pick up oiled debris

SPECIAL SYMBOLS

- ◊ SPLATTERED BLACK TAR COAT ON BEDROCK & BOULDERS
- SMALL MOUSSE PATCHES

250 METERS

KODIAK ISLAND



REVISION: 00/04/00

ecology sketch map

250 Meters

cobble/pebble beaches with
Hippurichia and Crinastoides

River
Otter Den
Run.

Beaver

Oystercatchers
Glaucous-winged
Gulls

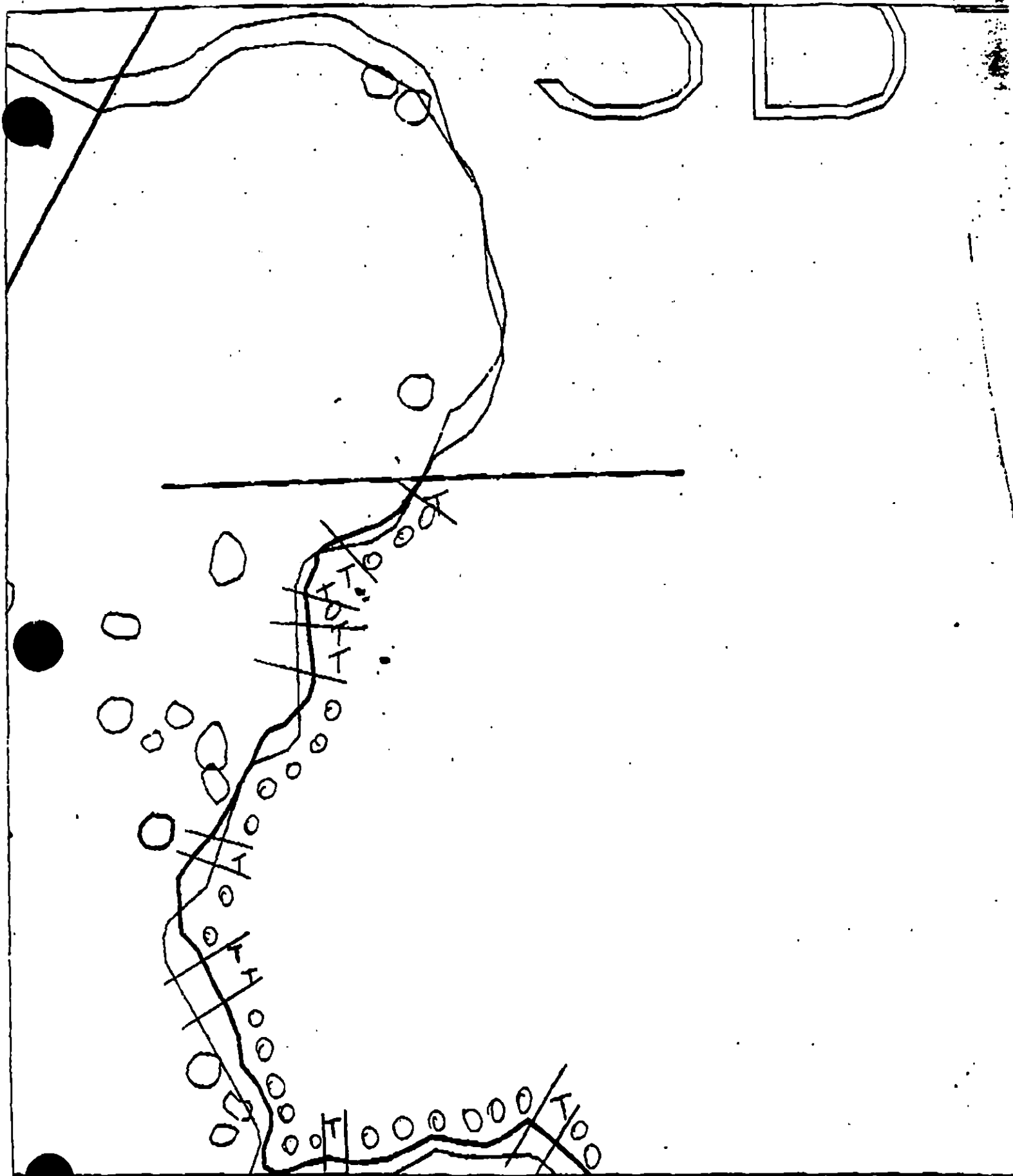
x Eagle nest
x Eagle

Balanus glandula and *B. cariosus*, *Endocladia*,
Ciclopelta, *Littorina*, and limpets dominated
the upper area of this region. A little lower
down *Fucus*, *Odonthalia*, *Rhodomena*, *Ulva*,
Porphyra, *Mytilus*, *Anthophora*, *Nucella* were
common. Below that began a gravel/sand
area.

stream
(not Anadromous)

This area was much more
diverse in its biota. Animals
and plants were also very
numerous. On and under
the dense algal cover were
Sea Stars, Sea Cucumbers, snails,
limpets, crabs, flatworms,
Nemertean, Annelids, molluscs,
Pycnogonids, Bryozoans and
Tunicates. More different species
more area than I have seen at
any other site.

small well protected bays. Barnacles, *Littorina*, limpets and *Endocladia*
were dominant in the upper area. An extensive *Mytilus* Bed (≈ 5 m wide)
continued around the cove. Below the mussel bed was an area of Algae
covering cobbles. *Ulva*, *Fucus*, and an unknown red alga were the dominant algae.
Protothaca, *Clinocardium*, and *Saxidomus* were present in the mud and
gravel below this area. *Zostera* beds grew in the center of the cove.



XXX Wide
/// Medium
--- Narrow
TTTT

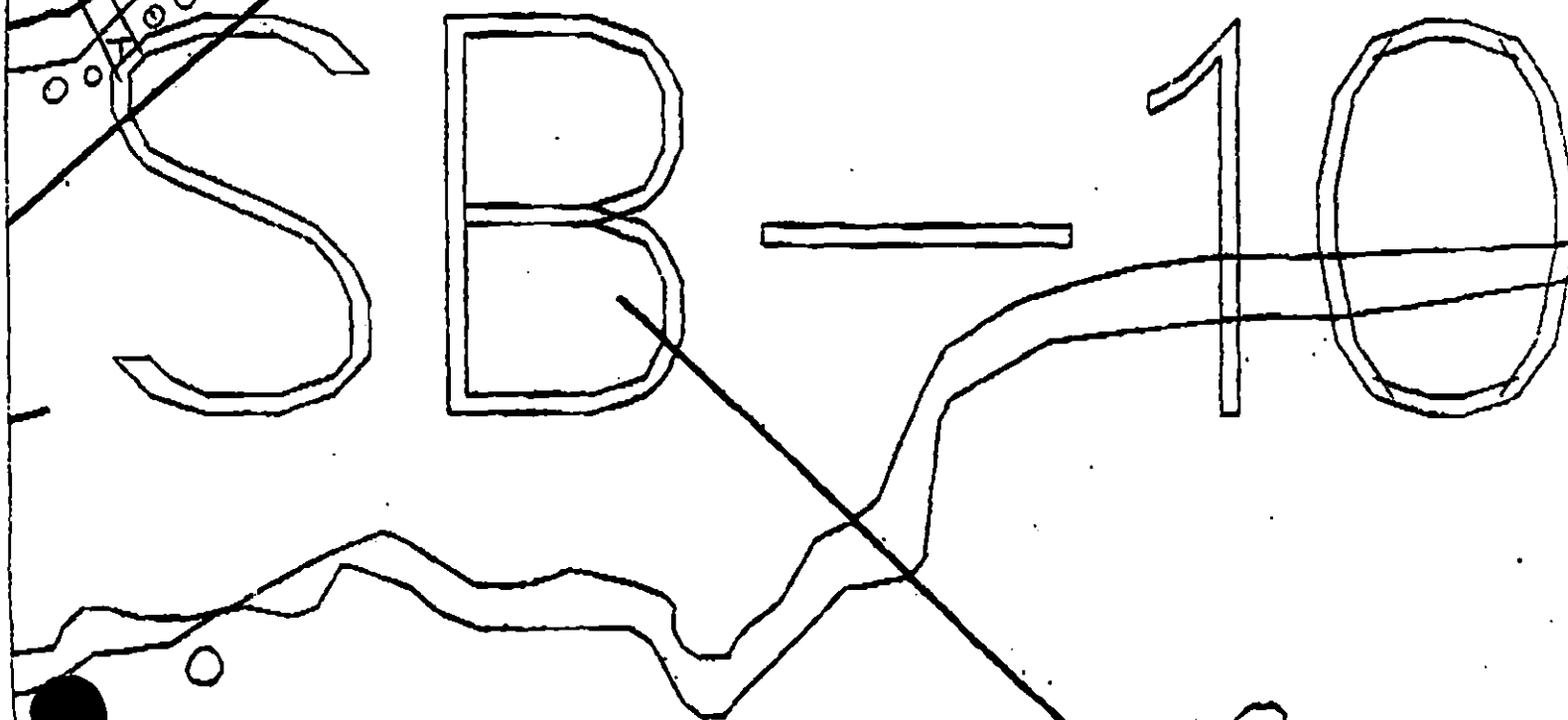
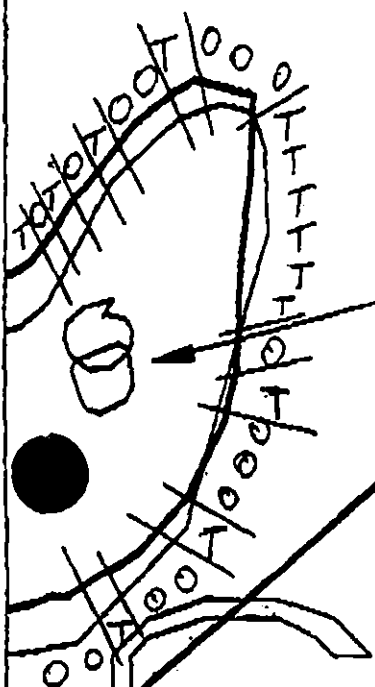
K0619 - CK-5

Approx. Segment Length: 3914m

Map Key: KOD-CK-5c

Name: Greg Chaney

ENTIRE ISLAND VERY LIGHT (T)



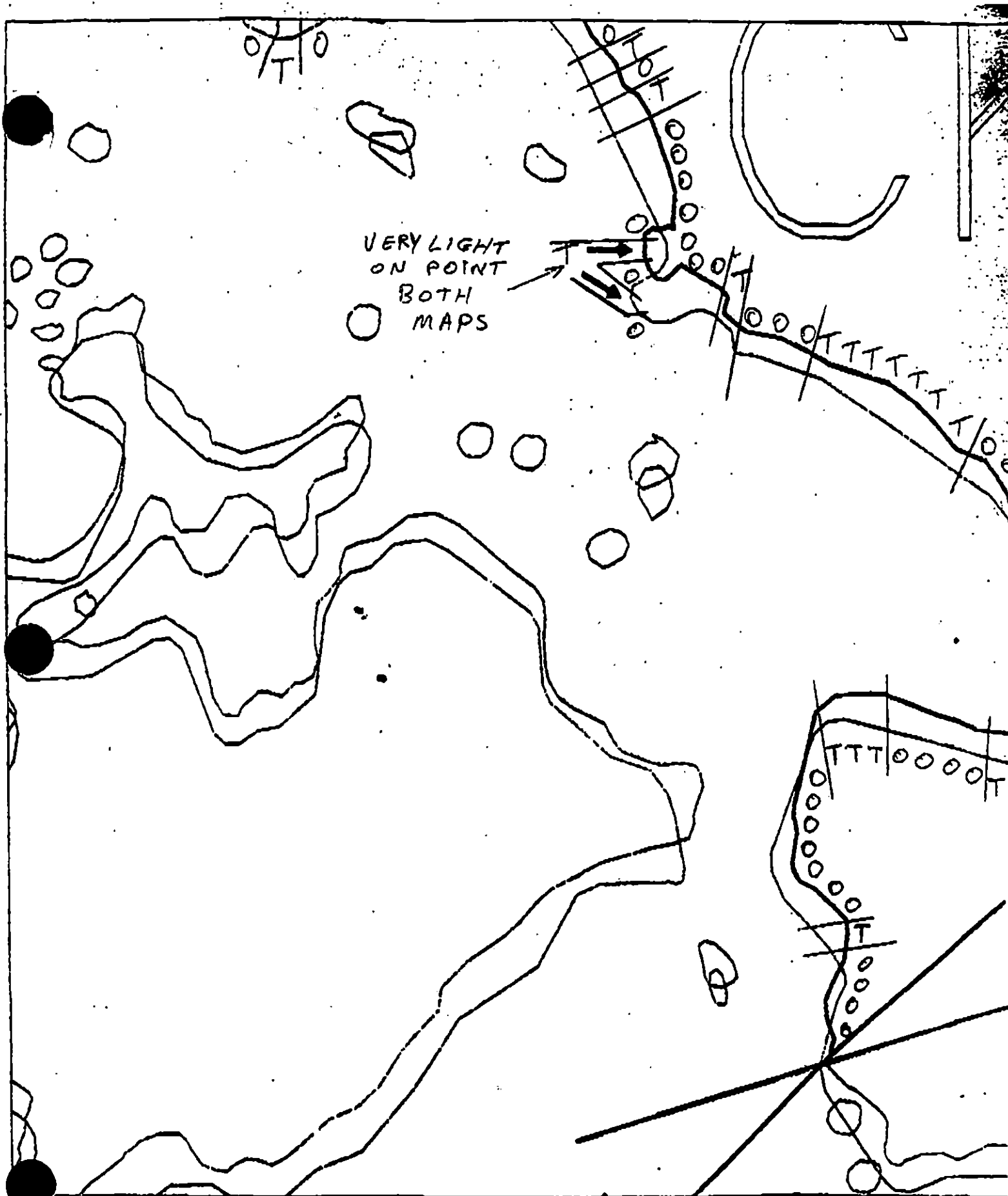
XXXX Wide
//// Medium
--- Narrow

K0619-CK-5

Approx. Segment Length: 3914m

Map Key: KOD-CK-5b

Name: Greg Chaney



XXXX Wide
/// Medium
--- Narrow

K0619-CK-5

Approx. Segment Length: 3914m

Map Key: K00-CK-5a

Name: Greg Chaney

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-19-CK-005 SUBDIVISION A (1 of 1)

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

ARCHAEOLOGICAL CONSTRAINT: An Exxon archaeological monitor is required on-site during shoreline treatment.

rmal

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

NO BEACH ACCESS PRIOR TO ARRIVAL OF ARCHAEOLOGIST

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 4/9/90 map indicates no active nest within 400m of Subdivision A work site.

5R Seabird Colony

NO CONSTRAINT. Work site is more than 800m from seabird colony.

OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to uncolled biota and substrate.

for FOSC

G.A. Reiter

Date

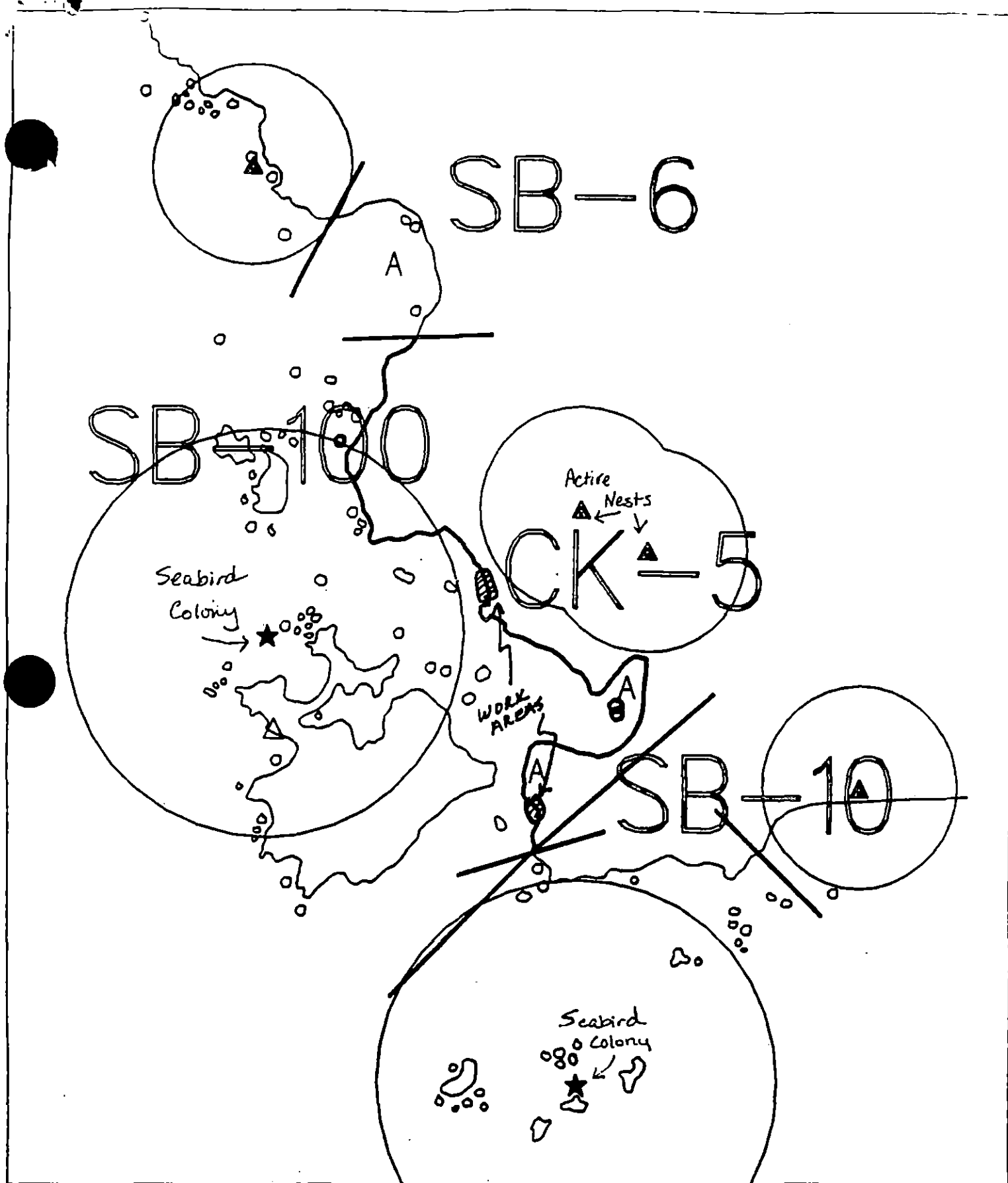
2/19/90

Prepared by

J.P. Phillips

Date

7/19/90



Exxon Company, USA
Map Key: KOD-CK-5
June 10, 1990



ECOLOGY MAP
SEGMENT K6-19 CK-5
SUBDIVISION A (_ / _ o / _ / _)
METERS
0 524 1048

- | | |
|---|---------------------|
| ★ | Seabird Colony |
| ▲ | Active Eagle Nest |
| △ | Inactive Eagle Nest |

1 inch = 1719 feet

SHORELINE EVALUATION

SEGMENT ST/ K06-19-CK-005 SUBDIVISION A (1 OF 1) DATE 5/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

BT-3 All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
5R Seabird colony (5/1 to 9/1)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINT: An Exxon archaeological monitor is required on-site during shoreline treatment.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

NO BEACH ACCESS PRIOR TO ARRIVAL OF ARCHAEOLOGIST

SHPO SIGNATURE: Rachel Don Ocho DATE: 7/16/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1184 m: No Oil 2638 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS: Recommend manual removal of oiled debris and mousse as shown on sketch map. Work after 6/1 and/or with USFWS approval regarding seabird and eagle nest constraints and after archaeological constraint has been determined.

SEE CONSTRAINTS ADDENDUM DATED 7/19/90 WDF

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/29/90
 EDEC ART WEINER Art Weiner
 XON ANDY TGA Andy TGA FOS
 NOAA Paul Wescott Paul Wescott
 USCG S.A. BEITER S.A. Beiter

FOSC: DATE: 7-18-90

REGION: KODIAK

SEGMENT: ST/ K0619-SB-006

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0619-SB-006 SUBDIVISION A (1 OF 1) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (1A) - 3/1 to 5/15; Salmon
stream mouth - spawning time sensitivity (1B) - 7/10 to 8/31;
Anadromous stream no. 254-10, ASC no. 10050.

SUBDIVISION ECOLOGICAL CONSTRAINTS: No specific subdivision con-
straints identified.

ARCHAEOLOGICAL CONSTRAINTS: If treatment is planned, a cultural re-
source evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 134 m: No Oil 804 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS: No treatment recommended due to the very light oil class-
ification. USCG representative concurs. Remaining very light
sporadic stain/coat is weathering.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K-6-19-513-6 SUBDIVISION: 513-6A DATE 3-30-90

USCG

NAME ED. D. HARRIS JR., (M3) USCGR

SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Occasional splashes ^{of} mousse. The isolated mousse is mixed with gravel and around the base of cobbles.

ADEC

NAME Francine J. Beane

SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

periodic mousse, mixed with sand/gravel exists in this area, as well as mousse stuck in crevices & cracks of boulders.

A team of 2 people could remove this remaining oil in 1-2 days, scales with manual clean-up methods.

LAND MANAGER

NAME JOHN P. HARDISTER

SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

scattered patches of mousse - underside cobbles
mousse mixed with sand/gravel in cracks and crevices.

OG Acton USCG Haven SEGMENT ST/ K6-19-38-6A
 BIO Davis LAND REP USFWS Hardister SUBDIVISION SB-6A
 EXXON Avery ADEC Bennis TIME 12:30 10:20
 TEAM NO.: 20 TIDE LEVEL: +2 10 +7 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 917 m ☐ Sun ☒ Clouds ☒ Fog ☒ Rain ☐ Snow
 PLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 15 % B 15 % C 20 % P 10 % G 20 % S 20 % M 0 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 80 m NO 837 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	SW	BR	OR	OL	OF	NO	SU	U	M	U		
ASPHALT PAVEMENT																
POOLED																
COVER				✓			✓				✓		✓			
COAT				✓			✓				✓		✓			
STAIN				✓			✓				✓		✓			
MOUSSE			✓								✓	✓	✓	✓		
PATTIES																
TARBALLS																
FILM																
NO OIL											✓				✓	

PAVEMENT: H F S N/A sq.m by N/A cmPATTIES / TARBALLS N/A BAGSNEAR SHORE SHEEN? ☒ BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS N/A

Photographs:

Roll No. 20-1 20-2Frames 30-31 2-6

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SW BR	OR RW	GY SL	DR TL	LR	SU	U	M	U					
1	15					✓	.								✓								S, G
2	15					✓	.								✓								S, G
3	15					✓	.								✓								S, G
							.																
							.																
							.																

COMMENTS Oil was observed in 2 areas of this section, at the extreme N+S ends of K6-19-38-6. Splashes of stain, coat, and cover of very light oiling were observed in both areas, as well as sporadic mousse between some of the cobbles and boulders. Mousse was between surface cobbles and did not extend into underlying substrate. All oil observed was very light in degree of oiling (1-3%). Pits could not be dug between boulders/cobbles in the oiled area.

DRAFT

OG Acton USCG Haven SEGMENT ST/ K6-19-5B-6A
 BIO Davis LAND REP USFWS Hardister SUBDIVISION S13-6A
 EXXON Avery ADEC Bennis TIME 12:30 10:20
 TEAM NO.: 2a TIDE LEVEL: +2 10 +7 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 80 m ☐ Sun ☒ Clouds ☒ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 30 % B 30 % C 30 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: ~Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 80 m NO 0 m
BA

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	R	P	S	SU	UI	M	L	U	SU	UI	M	L
ASPHALT PAVEMENT													
POOLED													
COVER				✓	✓					✓	✓		
COAT				✓	✓					✓	✓		
STAIN				✓	✓					✓	✓		
MOUSSE			✓					✓	✓	✓	✓		
PATTIES													
TARBALLS													
FILM													
NO OIL										✓			✓

PAVEMENT: H F S _____ sq. m by _____ cm

PATTIES / TARBALLS _____ BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. 20-1 20-2

Frames 30-31 2-6

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SU	UI	M	L	U	SU	UI	M	L		

COMMENTS This subdivision is comprised of 2 sections, at the extreme N + S ends of K6-19-5B-6. Splashes of stain, coat, and cover of very light oiling were observed in both areas, as well as sporadic mousse between some of the cobbles and boulders. Mousse was between surface cobbles and did not extend into underlying substrate. All oil observed was very light in degree of oiling (1-3 se). Pits could not be dug between boulders/cobbles.

OG Acton USCG Haven SEGMENT ST/ K 6-19- 32-62
 BIO Davis LAND REP USFWS Hardister SUBDIVISION 58-62
 EXXON Avery ADEC Benois TIME 12 : 30 10 2 : 00
 TEAM NO.: 20 TIDE LEVEL: 10 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 840 m ☐ Sun ☒ Clouds ☒ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 10 % B 10 % C 10 % P 15 % G 25 % S 50 % M 10 % V 10 %
 SLOPE: Lang 100 % Hang 100 % Vert 100 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 100 m M 100 m N 100 m VL 100 m NO 840 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	S	SBL BR	DBL RW	GY SL	DBL TL	LBL	SU	UI	M	U	
ASPHALT														
PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL										✓	✓	✓	✓	

PAVEMENT: H F S 100 sq. m by 100 cm

PATTIES / TARBALLS 100 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES. ☒ NO

TYPE 100

#BAGS 100

Photographs:

Roll No. 20-2

Frames 1

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBL BR	ORL RW	OY SL	ORR TL	LRT	SU	UI	M	LI			
							-														
							-														
							-														
							-														
							-														
							-														

COMMENTS No oil was observed in this subdivision. Several pits were dug in the sand to approx 50cm in depth. Primarily low angle, low energy beach. Entire subdivision was surveyed on foot.

MEMORANDUM

DATE: April 4, 1990

FROM: Bryan Trim *BT*

SUBJECT: Subdivision boundaries for K0619-SB006-A

Originally, the SSAT field team subdivided the segment into subdivisions "A" and "B". It was determined by the reviewer (me) and the field OG that it would be appropriate to combine the subdivisions "A" and "B" into one, now called "A". The OG resubmitted the revised form to the office on April 2, 1990.

The original forms are located in the "working copy" file in Rex Coulter's office in Suite 508, Calais II. Copies of the original "A" and "B" OG forms are included with the TAG data package.

OG ActonSEGMENT ST/ K6-M-56-6SUBDIVISION SG-6ADATE 3 / 30 90

CHECKLIST

N Arrow
 Approx. Scale
 Sup/Sub Entry
 Oil Det.
 Wash
 Length
 % Cover
 Substrate Character
 E.L. HW/L.M.L.
 SSL
 Profile Location(s)
 Profile(s)
 Pli Location(s)
 Photo Location(s)

LEGEND

1 Δ

Pl: No Subsurface Oil

2 Δ

Pl: Subsurface Oil

Continuous Distribution

CT/C

Broken Distribution

CT/P

Patchy Distribution

CT/S

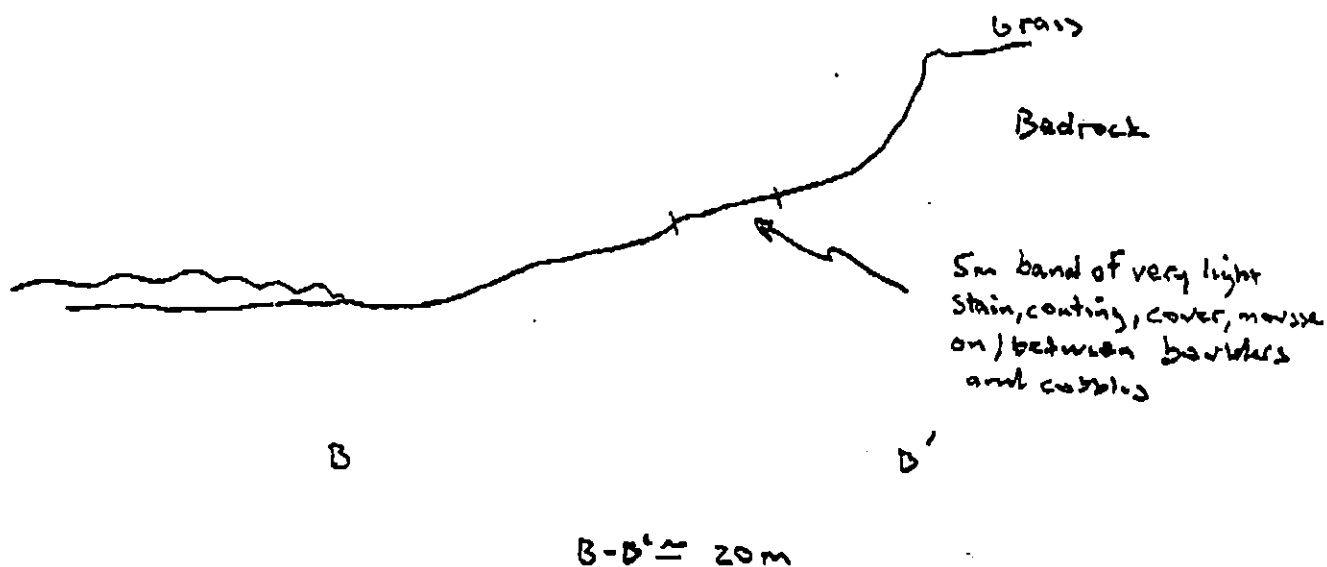
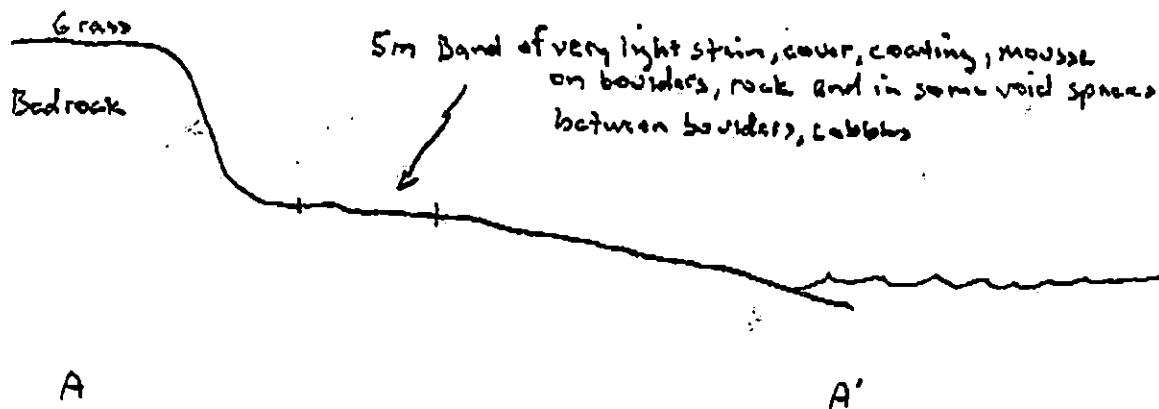
Spotted Distribution

Dead Vegetation

1 $\leftrightarrow$

Photo location, direction, and number

SKETCH MAP



Oil Character L Δ AP PO CV CT ST MS RO TB FL NO 837

10/15/2000

OG ActonSEGMENT ST/ K6-19-JD-LSUBDIVISION SD-LADATE 3 / 30 90

CHECKLIST

N Arrow
 Approx. Scale
 Seg/Sub Body
 Oil Dist.
 Width
 Length
 % Cover
 Substrate Character
 Est. HW/LWL
 SSZ
 Profile Location(s)
 Profile(s)
 PL Location(s)
 Photo Location(s)

LEGEND

1 ▲

PL - No Subsurface Oil

2 ▲

PL - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

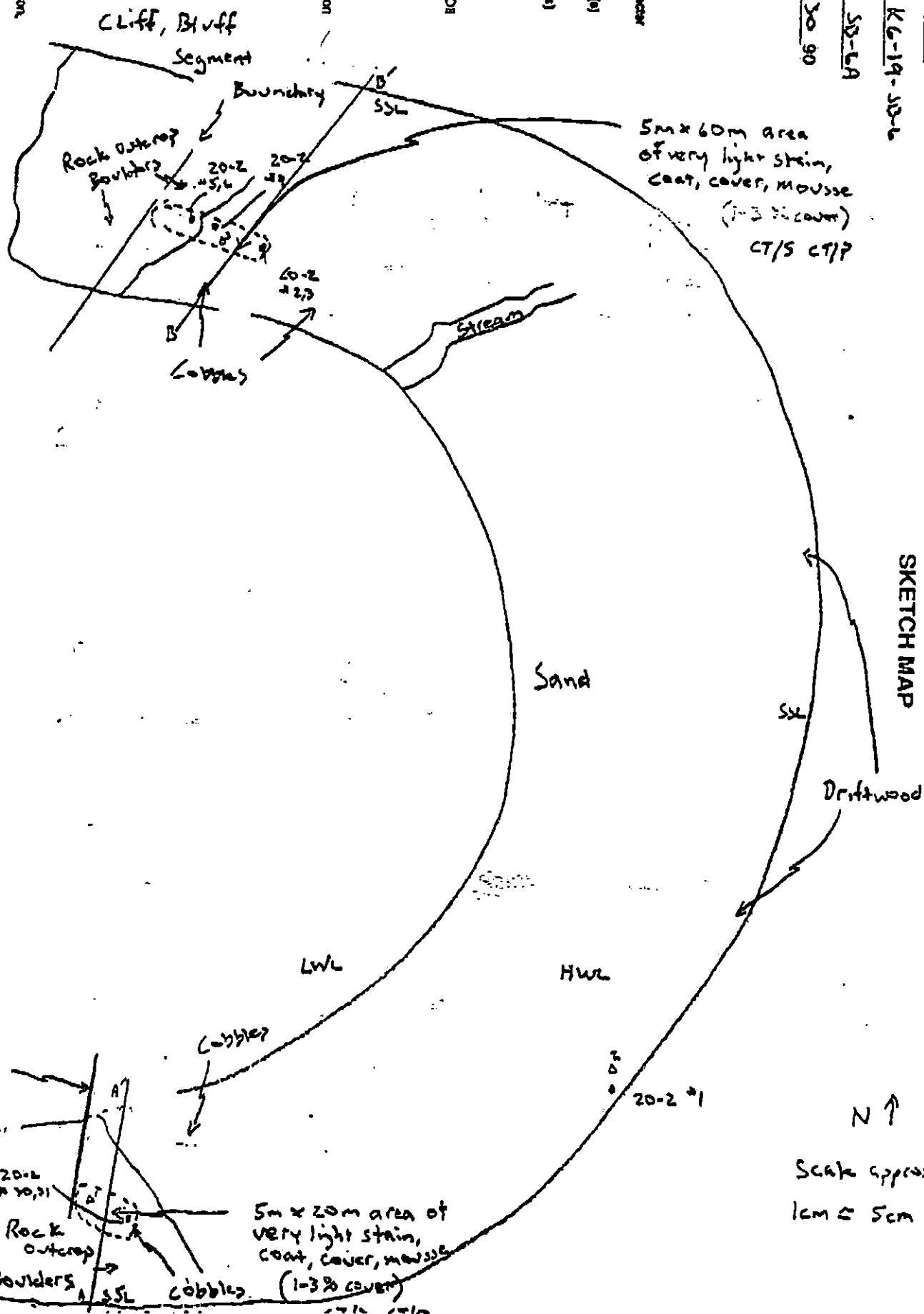
CT/S

Scattered Distribution

Old Vegetation

1 ●

Photo location, direction, and number



Oil Character L

AP

PO

CV

20

CT

20

ST

20

MS

20

TB

FL

O

NO

837

200-020200

OG AcetonSEGMENT S17 K-L-M-55-6SUBDIVISION SS-6ADATE 3 / 30 90

CHECKLIST

N Arrow
 Approx. Scale
 Sap/Sap Brndy
 Oil Dkt.
 Wash

Length
 % Cover

Substrate Character
 Est. HYD/LVL

SSL

Profile Location(s)

Profile(s)

Photo Location(s)

LEGEND

1 Δ

Pt. - No Substrate Oil

2 Δ

Pt. - Substrate Oil

Conspicuous Distribution

CT/C

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

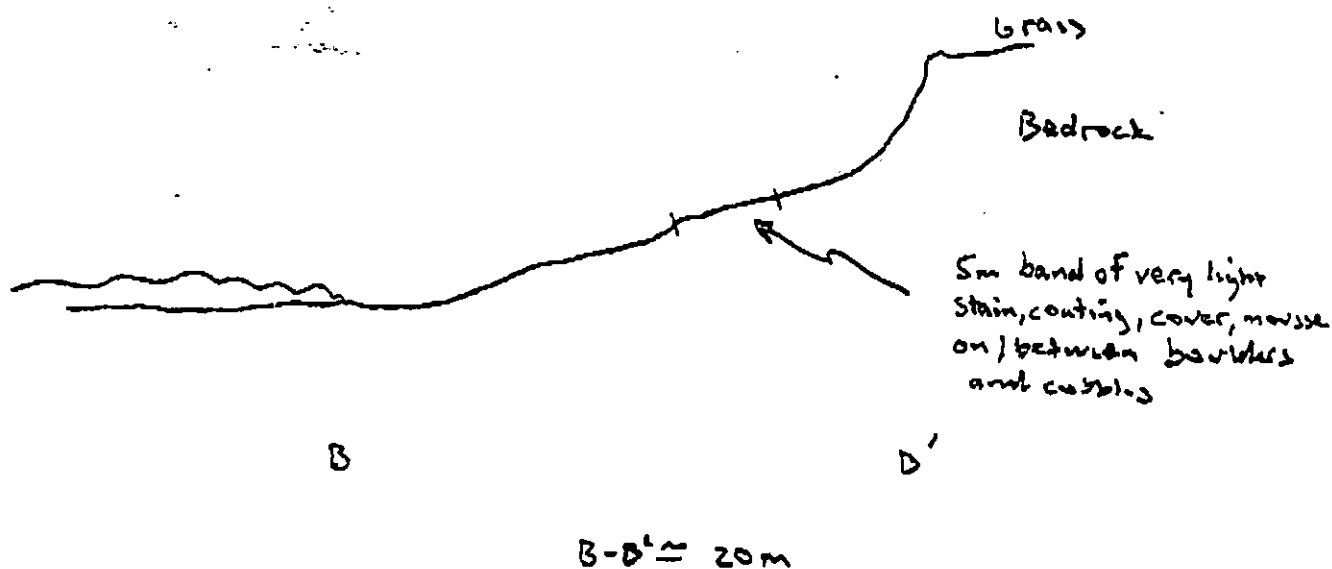
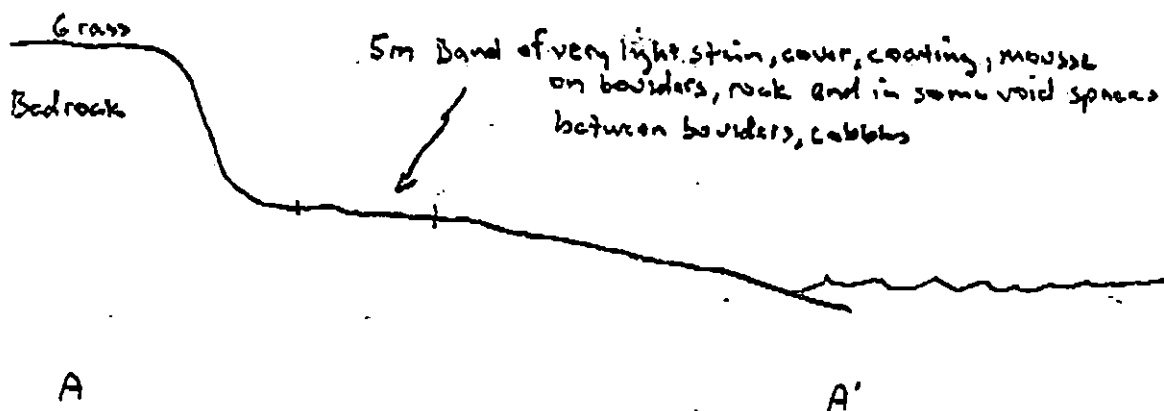
Spaced Distribution

Dead Vegetation

1 $\bullet$

Photo location, direction, and number

SKETCH MAP



Oil Character L AP PO CV CT ST MS RO TB FL NO R37

10/1/2000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST/K06-19 Subdivision SB-06A Date (mo / day / yr) 3-30-90Time (24 hr) 12:55 Biologist H. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 15 (2) Boulder 15 (3) Cobble 30 (4) Pebble 20 (5) Sand 20 (6) Silt _____
- (B) Overall % cover of biota (% of segment): Dense 20% Moderate 30% Low 50% (20%)
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L): juveniles / adults (X), new settlement (O)

 Photographs: ST ST
 Roll No. 20-1, 20-2
 Frames 31, 1-6

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	X	2	X	2	2	2	O	X	2	2	2	
3	3	3	X	X	3	3	O	X	3	3	3	
4	4	4	4	4	4	X	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT 4, 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	X	X	2	X	2	2	X	2	X	
3	3	3	X	X	3	3	3	3	X	3	X	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	X	2	X	X	2	2	2	X	2	2	2	
3	X	3	X	X	3	3	3	X	3	3	3	
4	4	4	4	4	4	X	4	4	X	4	X	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT 4, 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	X	2	X	2	2	2	2	X	2	2	2	
3	X	3	X	3	3	3	3	3	3	3	X	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: Bear scat and trails on bluffs. Deer tracks and scat on beach and on the bluffs. 2 Snowshoe hares seen on bluffs.

Kelp wrack contained laminaria, fucus, alaria, kelp flies and amphipods. The segment went from a rocky point to a sand beach to a rocky point. Population of the four key species were denser on the rock areas than on the

Ecological Considerations (1A/13)

Set Netting is done in the area.

Anadromous stream, 254-10 ASC# 10050

Eagles nest in nearby area (CK-04-CK01)

cobble area. On the cobble sand interface area the populations were rare. The stream is anadromous, and set netting is done in the area. 2 Eagles flying over head.

K 6-19- SB-6A

SB-

SB-6

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

ADEC Segment Length: 917m

0 100 200 300
METERS

Map Key: GOA-168

Name: ActonDate: 3-30-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0619-SB-006 SUBDIVISION A (1 OF 1) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (1A) - 3/1 to 5/15; Salmon
stream mouth - spawning time sensitivity (1B) - 7/10 to 8/31;
Anadromous stream no. 254-10, ASC no. 10050.

SUBDIVISION ECOLOGICAL CONSTRAINTS: No specific subdivision con-
straints identified.

ARCHAEOLOGICAL CONSTRAINTS: If cultural resources are _____
uncovered during shoreline treatment, stop work in the _____
vicinity, mark the location of the find and contact a _____ltural re-
member of Exxon's Cultural Resource Program immediately t. _____
(564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. H. [Signature] DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 134 m: No Oil 804 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended	_____ Snare/Absorbent Booms
☒ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	☒ Other (see comments)

COMMENTS: No treatment recommended due to the very light oil class-
ification. USCG representative concurs. Remaining very light
sporadic stain/coat is weathering.

TAG COMMENTS: SPOT WASH AND BIOREMEDIATION MAY BE NECESSARY
OR MANUAL REMOVAL & HOUSE PATTIES

TAG APPROVAL DATE: 4/10/90

ADEC JOHN BAUER [Signature]

EXXON ANDY KAL [Signature]

NOAA Burl Wescott [Signature]

USCG G.A. REITER [Signature]

FOSC: [Signature] DATE: 4-26-90

No bioremediation with 12/1/902

OG ActonSEGMENT ST/ K6-M-58-6SUBDIVISION SB-6ADATE 3 / 30 90

CHECKLIST

☐ N Arrow
☐ Approx. Scale
☐ Seep/Salt Briny
☐ Oil Dst.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. HWM/LWL
☐ SS
☐ Profile Location(s)
☐ Profile
☐ Pit Location(s)
☐ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

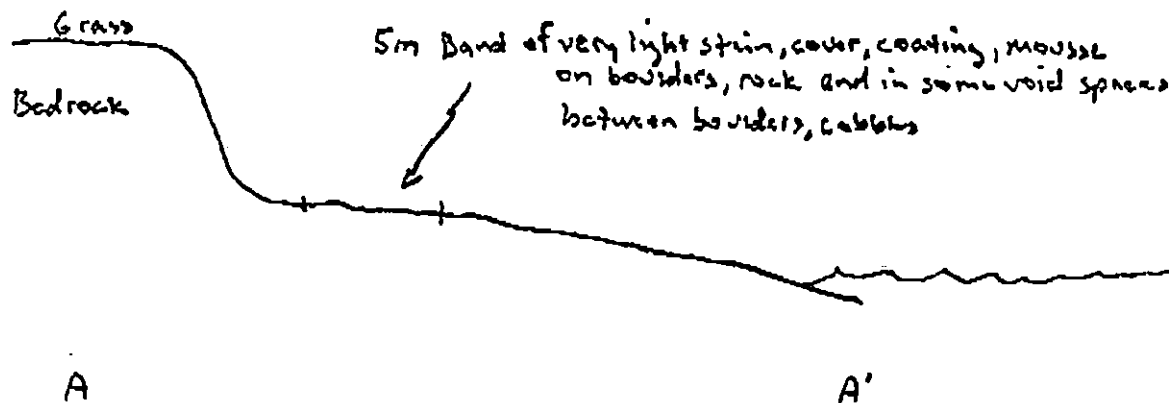
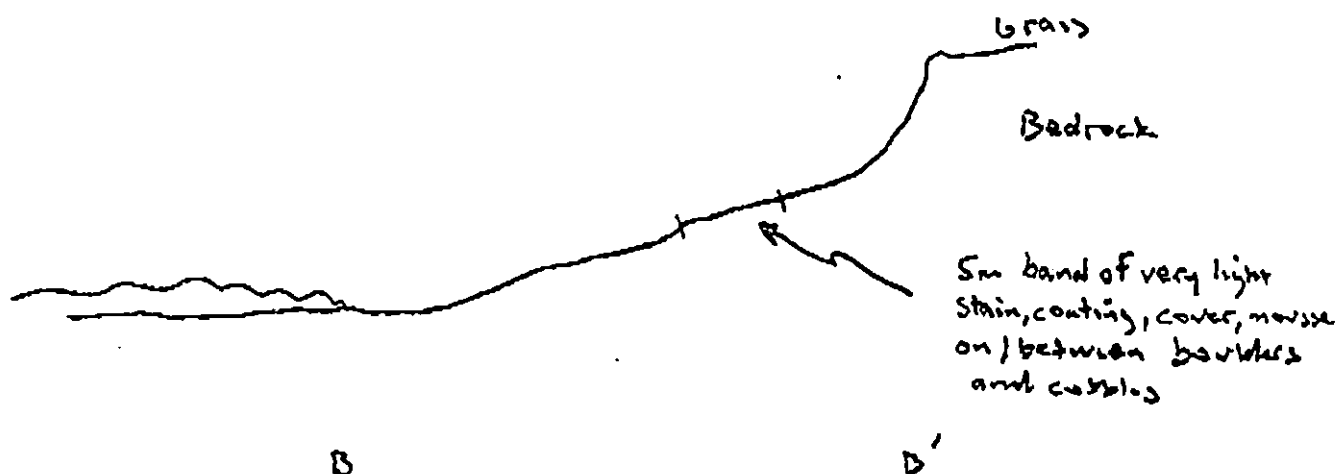
Spaced Distribution

Obad Vegetation

1 $\bullet$

Photo location, direction, and number

SKETCH MAP

A-A' $\approx$ 25mB-B' $\approx$ 20m

Oil Character (m): AP PO CV CT ST MS RO TB FL NO 837

REVISOR: CORRECTION

OG Aceton

SEGMENT ST/ Xc-N-58-6

SUBDIVISION 58-6A

DATE 3 / 30 / 90

CHECKLIST

- N Arrow
- Approx. Scale
- Sag/Sub Entry
- Oil Del.
- Width
- Length
- % Cover
- Substrate Character
- Est. HWM/LWL
- SSL
- Profile Location(s)
- Profile(s)
- Pt Location(s)
- Photo Location(s)

LEGEND

1 Δ

Pt - No Subsurface Oil

2 Δ

Pt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

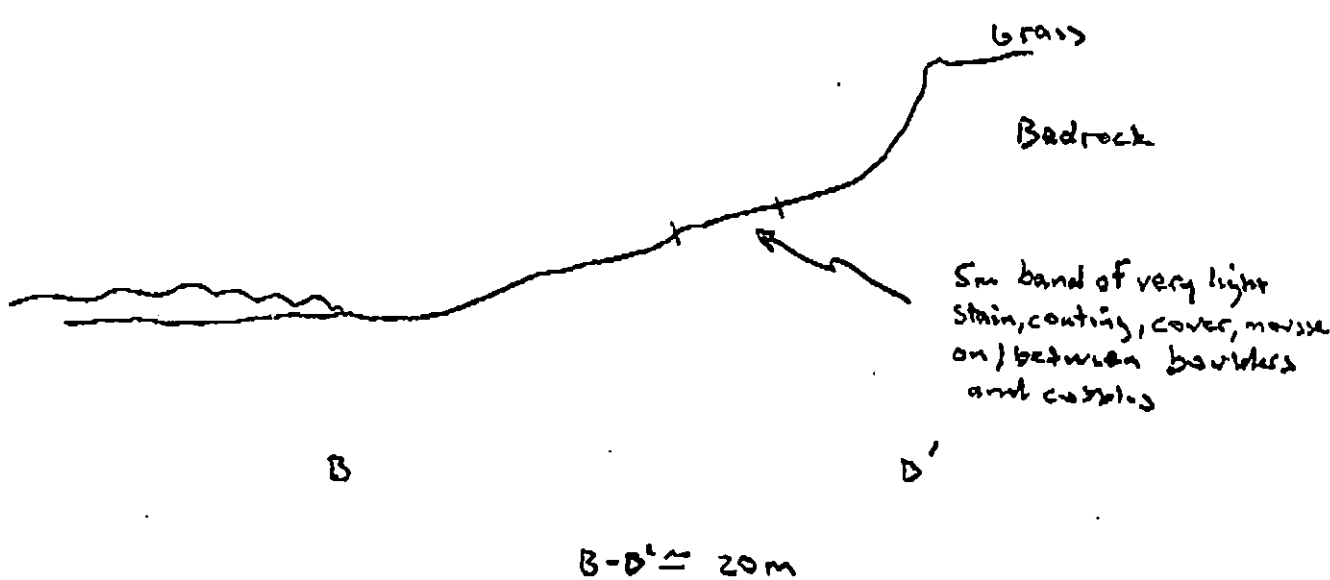
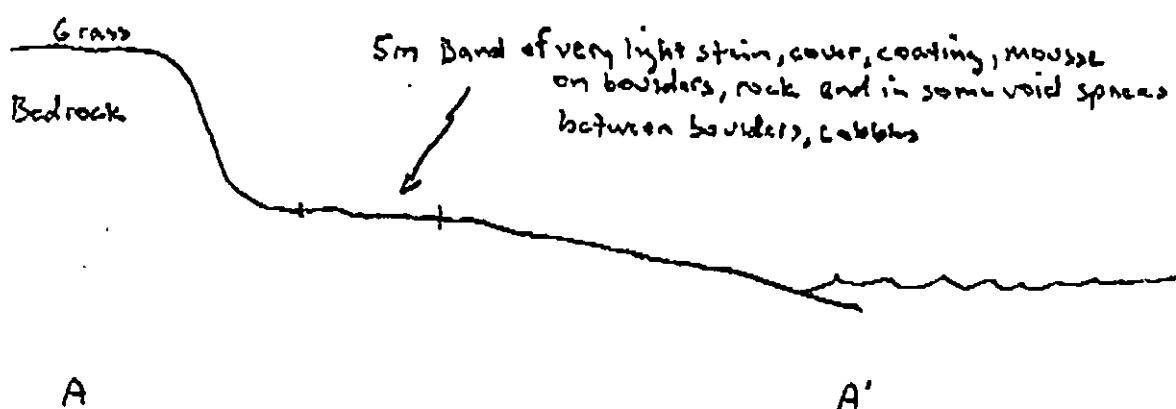
Spaced Distribution

Obd Vegetation

1 $\rightarrow$

Photo location, direction, and number

SKETCH MAP

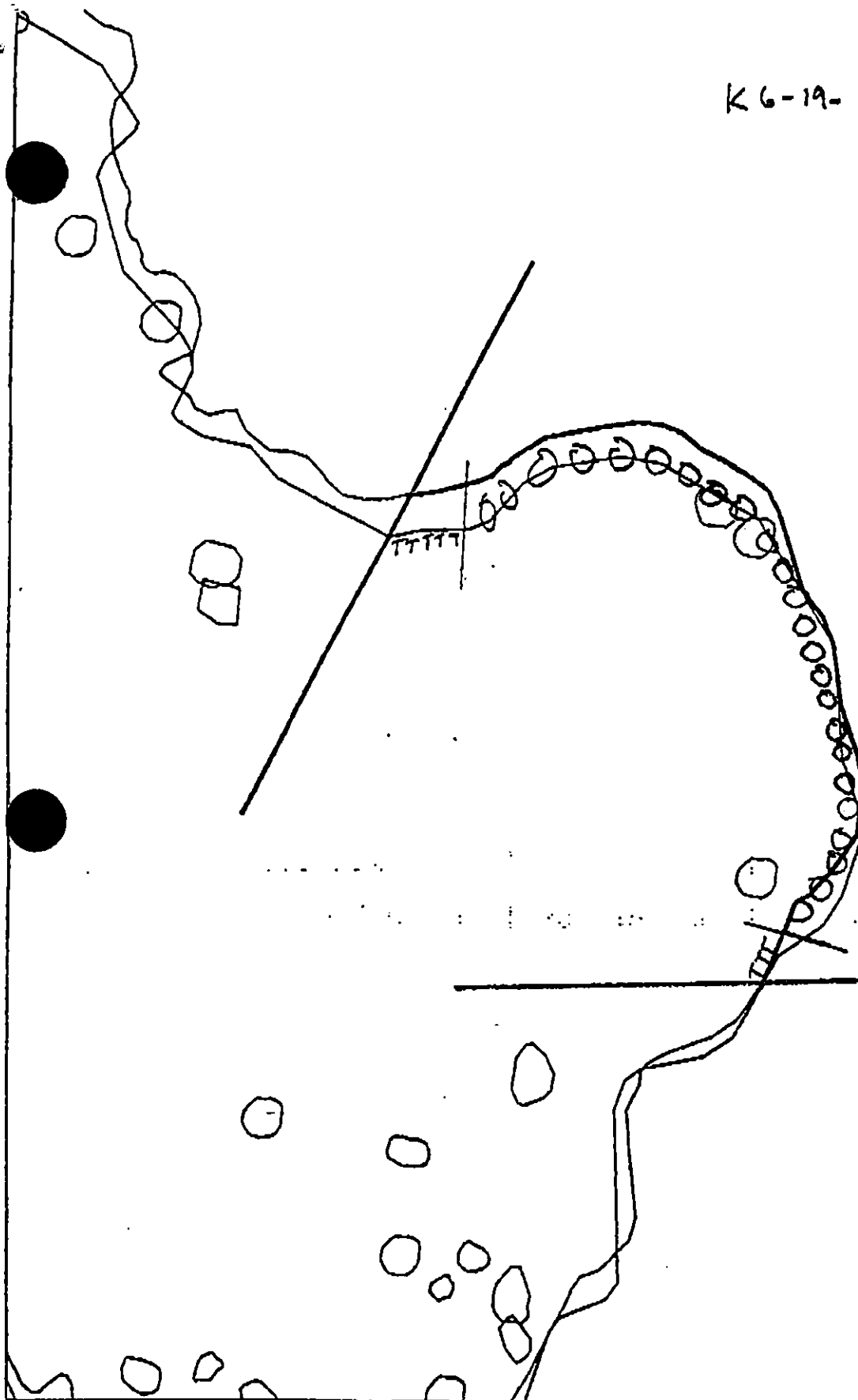


Oil Character (m): AP PO CV CT ST MS RO TB FL NO 837

15504437690

K 6-19- SB-6A

SB-



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SB-6

ADEC Segment Length: 917m



Map Key: GOA-168

Name: Acton

Date: 3-30-90

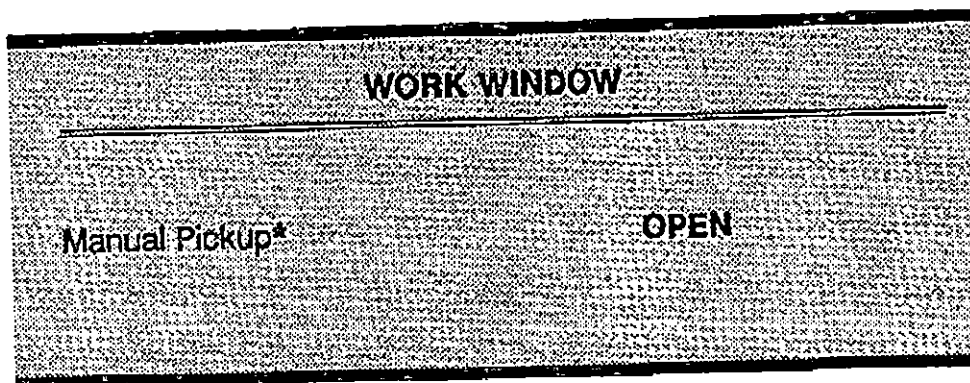
Data Entered:

RECEIVED
16 JUN 1990

ORIGINAL

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K0619-SB-006 SUBDIVISION A (1 of 1)



*USFWS Representative must be on location during treatment.

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (254-10-10050) is more than 100m from work site. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to uncolled biota and substrate.

Post-It™ brand fax transmittal memo 7671		# of pages ▶ 2
To: FOSC/OP/CWOODREK		From: John Phillips
Co.		Co. Exxon
Dept.		Phone # 504-361
Fax # 263-17310		Fax # 504-3771

FOSC

Date

6/19/90

Prepared by

W. Kellen

Date

6/15/90

WORK PLAN ADDENDUM

Segment K06-19-SB-006Subdivision ADated 5/16/90

MODIFICATION

1. REASON FOR MODIFICATION

- Admirals requirement.
- Landowner recommendation.

2. ADJUSTMENT TO WORK PLAN

- Manually remove mousse.
- Neither Inipol nor Customblen may be used on this site.
- A USFWS representative must be onsite for treatment.

SHPO APPROVAL NEEDED YES
NO X

SHPO SIGNATURE _____

TAG APPROVAL DATE 5/18/90

DEC	<u>Art Weinger</u>	<u>Art Weinger</u>
EXON	<u>Andy Talar</u>	<u>Andy Talar</u>
NOAA	<u>Gary Petras</u>	<u>Gary Petras</u>
USCG	<u>G.A. Deiter</u>	<u>G.A. Deiter</u>

FOSC DATE 5-18-90

- SB-6 site
1. Work plan Bio-remediation and spot wash.
 2. Approved to treat area outlined below.
- mike Luke 6/13/90

CK-4

STREAM #
254-10-10050
SB-6

Access Route

Work Area

SB-100

CK-5

TREATMENT

EXXON

ECOLOGY MAP
SEGMENT K6-19 SB-6

★ Seabird Colony

▲

SHORELINE EVALUATION

SEGMENT ST/ K0619-SB-006 SUBDIVISION A (1 OF 1) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (1A) - 3/1 to 5/15; Salmon
stream mouth - spawning time sensitivity (1B) - 7/10 to 8/31;
Anadromous stream no. 254-10, ASC no. 10050.

SUBDIVISION ECOLOGICAL CONSTRAINTS: No specific subdivision con-
straints identified.

ARCHAEOLOGICAL CONSTRAINTS: If cultural resources are
uncovered during shoreline treatment, stop work in the
vicinity, mark the location of the find and contact a cultural re-
member of Exxon's Cultural Resource Program immediately t.
(564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Mark E. Hume DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 134 m: No Oil 804 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☐ No Treatment Recommended	<u> </u> Snare/Absorbent Booms
☒ Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	☒ Other (see comments)

COMMENTS: No treatment recommended due to the very light oil class-
ification. USCG representative concurs. Remaining very light
sporadic stain/coat is weathering.

See Constraint Addendum dated 6/15/90 wnc

TAG COMMENTS: SPOT WASH AND BIOREMEDIATION MAY BE NECESSARY
OR MANUAL REMOVAL P/HOUSE PARTIES

TAG APPROVAL DATE: 4/10/90

ADEC JOHN BAUER

EXXON ANDY KAL

NOAA Burt Wescott

USCG G.A. BEITER

FOSC: DATE: 4.26.90

No bioremediation with INIPOL

WORK PLAN ADDENDUM

Segment K06-19-SB-006

Subdivision A

Dated 5/16/90

MODIFICATION

1. REASON FOR MODIFICATION

- Admirals requirement.
- Landowner recommendation.

2. ADJUSTMENT TO WORK PLAN

- Manually remove mousse.
- Neither Inipol nor Customblen may be used on this site.
- A USFWS representative must be onsite for treatment.

SHPO APPROVAL NEEDED YES _____
NO X

SHPO SIGNATURE

TAG APPROVAL DATE 5/18/20

ADEC ART WOLNER Art Wolner

EXXON Andy TGAZ Deal

NOAA Gary Petras New Prince

SCG *B.A. Reiter* *B.A. Reiter*

FOSC W L DATE 5-18-90

1991 MAYSAP EVALUATION

SEGMENT: K06198B100 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 5/15 - 9/1

Ecological/Constraints (see page two for details) Seabird colony

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: _____ Date: _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: _____

TAG: _____

FOSC: _____

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC _____

FOSC _____

EXXON _____

USCG _____

NOAA _____

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Seabird Colony: Access restricted. USF&WS authorization required after 5/15. Maintain 1000' vertical and 1/2 mile horizontal buffer.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT SB-100 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART ADEC

SIGNATURE Jiff Barnhart

- ☒ NTR Small Island. Located 2m x 15m band SOR-CU in cracks of bedrock. 1-2%. Not recoverable using manual methods.

EXXON

NAME R. COULTER EXXON

SIGNATURE Reel R. Coulter

- ☒ NTR VERY MINIMAL EVIDENCE OF ANY OILING FOUND. NO ADDITIONAL ATTENTION NEEDED.

LANDMANAGER

NAME J. HARDISTER

OF USEFWS

SIGNATURE John F. Hardister

- ☒ NTR consult with USCG and NOAA representatives.

USCG/NOAA

NAME CWO R. SPURR / S. SHIGENAKA

SIGNATURE R. Spurr / S. Shigenaka

- ☒ NTR No significant oiling found during survey of this segment

THE SURVEYED SEGMENT WAS THE SHORELINE OF A SMALL ISLAND IN SPIRODON BAY WHICH IS CONNECTED TO THE MAIN BODY OF EDDIAK BY A BAR WHICH SUBMERGES AT HIGH TIDE. THE CHARACTER OF THE SHORELINE RANGED FROM BLACK SAND BEACH ON THE EASTERN SIDE OF THE ISLAND TO BOULDER/BEDROCK ON THE WESTERN SIDE. PORTIONS OF THE ISLAND SHORE SHOWED A GREATER DIVERSITY OF BIOTA, WITH BEDROCK PROVIDING POOLS AND SHELTER FOR LOWER INTERTIDAL ORGANISMS SUCH AS ANEMONES. EVIDENCE OF OILING WAS OBSERVED AT ONLY TWO LOCATIONS ON THE SEGMENT: THE FIRST WAS ISOLATED SPLATTERS OF COAT ON COBBLES ON THE NORTHEAST SIDE OF THE ISLAND, AND THE SECOND WAS A SMALL PATCH OF VERY WEATHERED SOR IN BEDROCK SUBSTRATE ON THE SOUTHWESTERN SIDE. THIS OILING, RELATIVELY SPEAKING, WAS INSIGNIFICANT.

TEAM NO. 6-HELO SEGMENT SB-100SUBDIVISION ADATE 5/29/91

ADEC

NAME J. BARNHART, ADECSIGNATURE Jiff Barnhart

NTR Small Island. Located 2m x 15m band SOR-CU in cracks of bedrock.
1-2%. Not recoverable using manual methods.

EXXON

NAME R. COULTER, EXXON

SIGNATURE _____

☐ NTR

MANAGER

NAME J. HARDISTEROF USFWSSIGNATURE John P. Hardister☒ NTR *concur with USCG and NOAA representatives.*

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKASIGNATURE R.P. Spurr / G. Shigenaka☒ NTR

No significant oiling found during survey of this segment

THE SURVEYED SEGMENT WAS THE SHORELINE OF A SMALL ISLAND IN SPIRODON BAY WHICH IS CONNECTED TO THE MAIN BODY OF KOPIAK BY A BAR WHICH SUBMERGES AT HIGH TIDE. THE CHARACTER OF THE SHORELINE RANGED FROM BLACK SAND BEACH ON THE EASTERN SIDE OF THE ISLAND TO BOULDER/BEDROCK ON THE WESTERN SIDE. ROCKIER PORTIONS OF THE ISLAND SHORE SHOWED A GREATER DIVERSITY OF BIOTA, WITH BEDROCK PROVIDING POOLS AND SHELTER FOR LOWER INTERTIDAL ORGANISMS SUCH AS ANEMONES. EVIDENCE OF OILING WAS OBSERVED AT TWO LOCATIONS ON THE SEGMENT: THE FIRST WAS ISOLATED SPLATTERS OF COAT ON COBBLES ON THE NORTHEAST OF THE ISLAND, AND THE SECOND WAS A SMALL PATCH OF VERY WEATHERED SOR IN BEDROCK SUBSTRATE ON SOUTHWESTERN SIDE. THIS OILING, RELATIVELY SPEAKING, WAS INSIGNIFICANT.

SEGMENT K06-19 SB 100

SUBDIVISION M

DATE 29 / May / 91

ENERGY LEVEL: ☐ H ☒ M ☐ L

WEATHER: ☐ SUN ☒ CLOUDS ☐ FOG ☐ RAIN ☐ SNOW

NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST. OIL CATEGORY LENGTH: W — m M — m N — m VL 12 m NO 753 m US — m

[illegible]

DISTRIBUTION: C = 91-100%; B = 61-80%; P = 11-50%; S = 1-10%; T = <1%

SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE

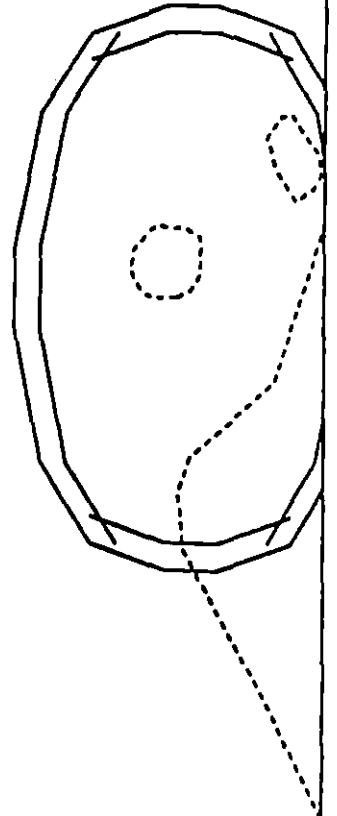
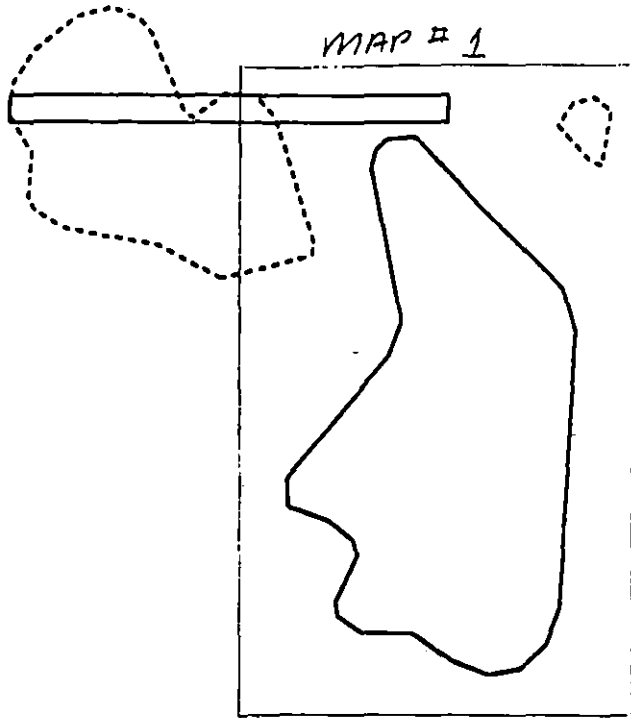
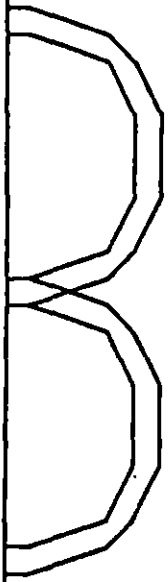
PHOTO ROLL # MAYBAP- 6 - 25 FRAMES 5+6

[illegible]

SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

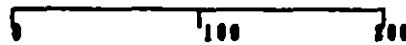
OG COMMENTS: This segment is a small island offshore of Chief Point. At low tide it is connected to the mainland by an intertidal dambolo. The island shoreline is characterized by bedrock cliffs and slopes and till scarpes. Oiling occurs in two locations: 1) in a small cove

REVISED: MC 6/3/91



K0619 SB100 A

METERS



AS SHOWN PLANNING ZONE 4.

Subdivision Field Map

Map Key: COA0001000100A

Name: D. Fitzgerald

Date: 29 MAY 1991

 Bedrock Cliff
 Till Scarp
 Grassy Uplands
 PHOTO SITES

0 25
 METERS


Sketch MAP OG
 K06-19-SB-100-A
 D.M. Fitzgerald
 29 May 1991
 1100 to 1125

SPINEDON
BAY

Isthmus
to
MAINLAND

B+BR
Reef

High-Tide
Island

B. CT/ST
 1 by 2m, <1%
 ON Boulders

Boulders
 Cobbles

A. SDN/CT
 1-4 by 10m, <1%
 IN betw. boulders
 and bedrock

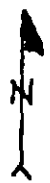
Bedrock

Revised: MC 6/3/91

 Bedrock Cliff
 Till Scarp
 Grassy Uplands
 PHOTO SITES

PHOTO SITES, 98-100A
ROLL 6-25, FRAMES 51-60

25
METERS



Sketch MAP '00
 K06-19-SB-100-A
 D.M. Fitzgerald
 29 May 1991
 1100 to 1125

SPINEDON
BAY

Is there
 to
 mainland

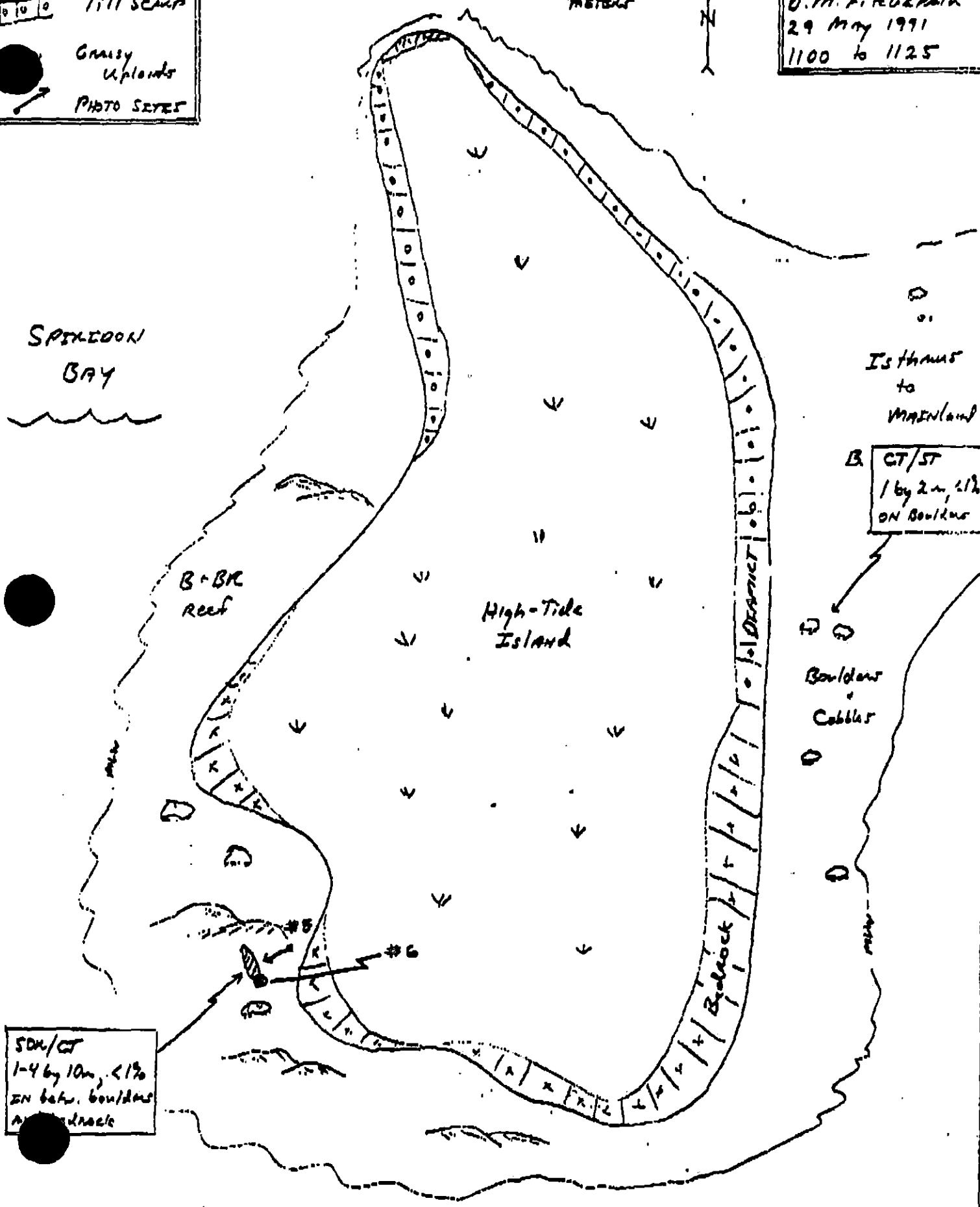
B-BR
Reef

High-Tide
Island

B. CT/ST
 1 by 2 m, 1/2
 ON Boulder

Boulders
 Cobble

SDN/CT
 1-4 by 10m, 1/2
 EN bdr. boulders
 A bedrock



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K06-19 SB-100

TIDAL HEIGHT (Range) 1.8 ft to 0 ft (10:55 - 11:20)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1 ft.

WIND SPEED/DIRECTION 10 KTS S

PHOTOGRAPHS: ROLL # 6-25

FRAME # 5+6

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

This was a small bedrock island. At low tide a bar connects it to the mainland. There was a sand beach on the eastern side of the island with a boulder strewn bedrock platform on the western side. More diverse biota was located on the western end but the rubble/cobble areas next to the sand beach also had a dense cover of barnacles, mussels and Fucus.

Site A+B were at the top of the barnacle zone. Only a very few patches of Fucus were growing at this level. Sparse Littorines and limpets were in crevices and under rocks. Very little drift on this island. There were amphipods but a few (comparatively speaking) amphipods were found under rocks. Lower down barnacles, limpets, littorines and Fucus become a dense cover. In pools Anthopleura artemisia and penguins are found.

Wandering Tattler? (1)

Glaucous winged Gull (3) Kittiwakes (6) Oystercatchers (3) Rock sandpipers (2)

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	0		
Gulls/Kittiwakes	2	9	
Shorebirds	3	6	
Corvids	0		
Other birds	0		

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	1	0	
Pinnipeds (specify)			
Harbor Seal	2		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

Page 1 of 1

Bedrock
Cliff

Bio Map
H Davis

Till Scarp

✓ ✓

Grassy
uplands

PHOTO SITES

Sketch MAP (OG)
K06-19-SB-100-A
D. M. Fitzgerald
29 May 1991
1100 to 1125

SPINLOOM
BAY

B + BR
reef

High-Tide
Island
Dune Grass

Fucus cover

Sparse but continuous
barnacles, limpets and
mytilus. →

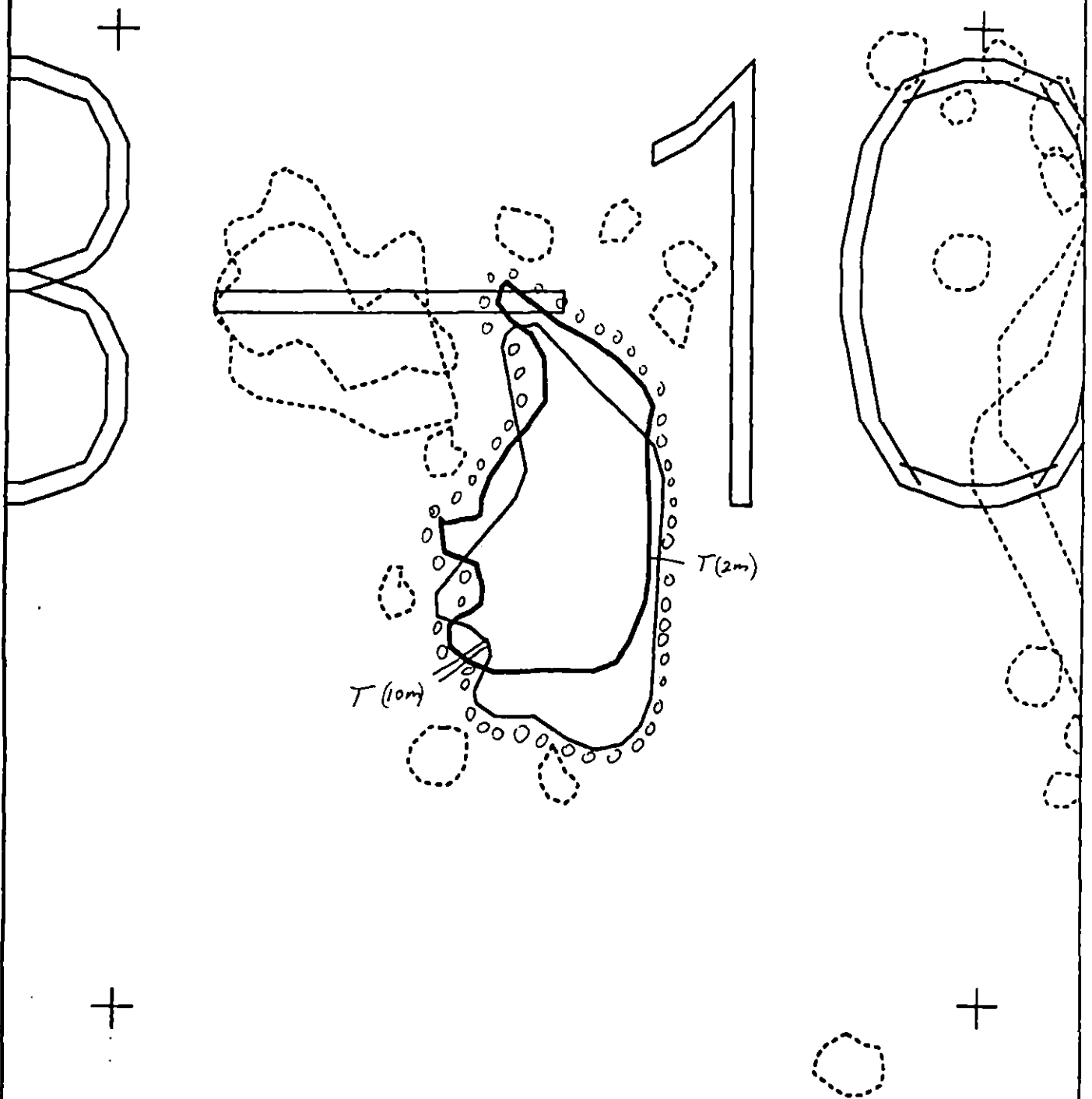
Is there
to
mainland

B. CT/ST
1 by 2m, 41%
ON Boulders

Boulders
+
Cobbles

A. SON/CT
1-4 by 10m, <1%
IN betw. boulders
and bedrock

A hand-drawn diagram of a river system. A main river flows from the top left towards the bottom right. A branch labeled 'continuous' joins it from the top. Another branch labeled 'bifurcated' joins it from the right. A third branch labeled 'mythical' joins it from the bottom right. A small circle labeled 'Spring Bites' is located near the 'continuous' branch. There are several 'x' marks along the river and its branches.



XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

K0619 SB100 A
 ADEC Subsegment Length: 785m
 METERS
 0 100 200
 AZ State Plane Zone 4
 80619sb100a-1



Subdivision Field Map
 Map Key: 60AK0619SB100A
 Name: D. F. Fitzgerald
 Date: 29 May 1991
 Date Entered:

REVIEWED: MC 6/3/91

1991 MAYSAP EVALUATION

SEGMENT: K06198B100 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 5/15 - 9/1

Ecological/Constraints (see page two for details) Seabird colony

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: [Signature] Date: 6/07/91

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

2

1

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Custombien

Other

Other

COMMENTS:

INITIAL:

TAG:

FOSC:

TAG APPROVAL DATE: JUNE 7 1991

FOSC APPROVAL DATE: 6/11/91

ADEC

FOSC

E. E. PAGE, CDR, USCG
CHIEF OF STAFF, FOSC

EXXON

USCG

NOAA

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Seabird Colony: Access restricted. USF&WS authorization required after 5/15. Maintain 1000' vertical and 1/2 mile horizontal buffer.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT SB-100 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART ADEC

SIGNATURE Jeff Barnhart

- ☒ NTR Small Island. Located 2m x 15m band SOR-CU in cracks of bedrock. 1-2%. NOT recoverable using manual methods.

EXXON

NAME R. COULTER EXXON

SIGNATURE Rev. R. Coulter

- ☒ NTR VERY MINIMAL EVIDENCE OF ANY OILING FOUND. NO ADDITIONAL ATTENTION NEEDED.

LANDMANAGER

NAME J. HARDISTER

OF USFWS

SIGNATURE John P. Hardister

- ☒ NTR consult with USCG and NOAA representatives.

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKA

SIGNATURE R. Spurr / G. Shigenaka

- ☒ NTR No significant oiling found during survey of this segment

THE SURVEYED SEGMENT WAS THE SHORELINE OF A SMALL ISLAND IN SPIRODON BAY WHICH IS CONNECTED TO MAIN BODY OF EODIAK BY A BAR WHICH SUBMERGES AT HIGH TIDE. THE CHARACTER OF THE SHORELINE RANGED FROM BLACK SAND BEACH ON THE EASTERN SIDE OF THE ISLAND TO BOULDER/BEDROCK ON THE WESTERN SIDE. LOWER PORTIONS OF THE ISLAND SHORE SHOWED A GREATER DIVERSITY OF BIOFA, WITH BEDROCK PROVIDING POOLS AND SHELTER FOR LOWER INTERTIDAL ORGANISMS SUCH AS ANEMONES. EVIDENCE OF OILING WAS OBSERVED AT ONLY TWO LOCATIONS ON THE SEGMENT: THE FIRST WAS ISOLATED SPLATTERS OF COAT ON COBBLES ON THE NORTHEAST SIDE OF THE ISLAND, AND THE SECOND WAS A SMALL PATCH OF VERY WEATHERED SOR IN BEDROCK SUBSTRATE ON THE SOUTHWESTERN SIDE. THIS OILING, RELATIVELY SPEAKING, WAS INSIGNIFICANT.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT SB-100 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART, ADEC

SIGNATURE

Jeff Barnhart

- ☒ NTR Small Island. Located 2m x 15m band SOR-CV in cracks of bedrock. 1-2%. Not recoverable using manual methods.

EXXON

NAME R. COULTER, EXXON

SIGNATURE

- ☐ NTR

LANDMANAGER

NAME J. HARDISTEROF USFWS

SIGNATURE

John P. Hardister

- ☒ NTR *concur with USCG and NOAA representatives.*

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKA

SIGNATURE

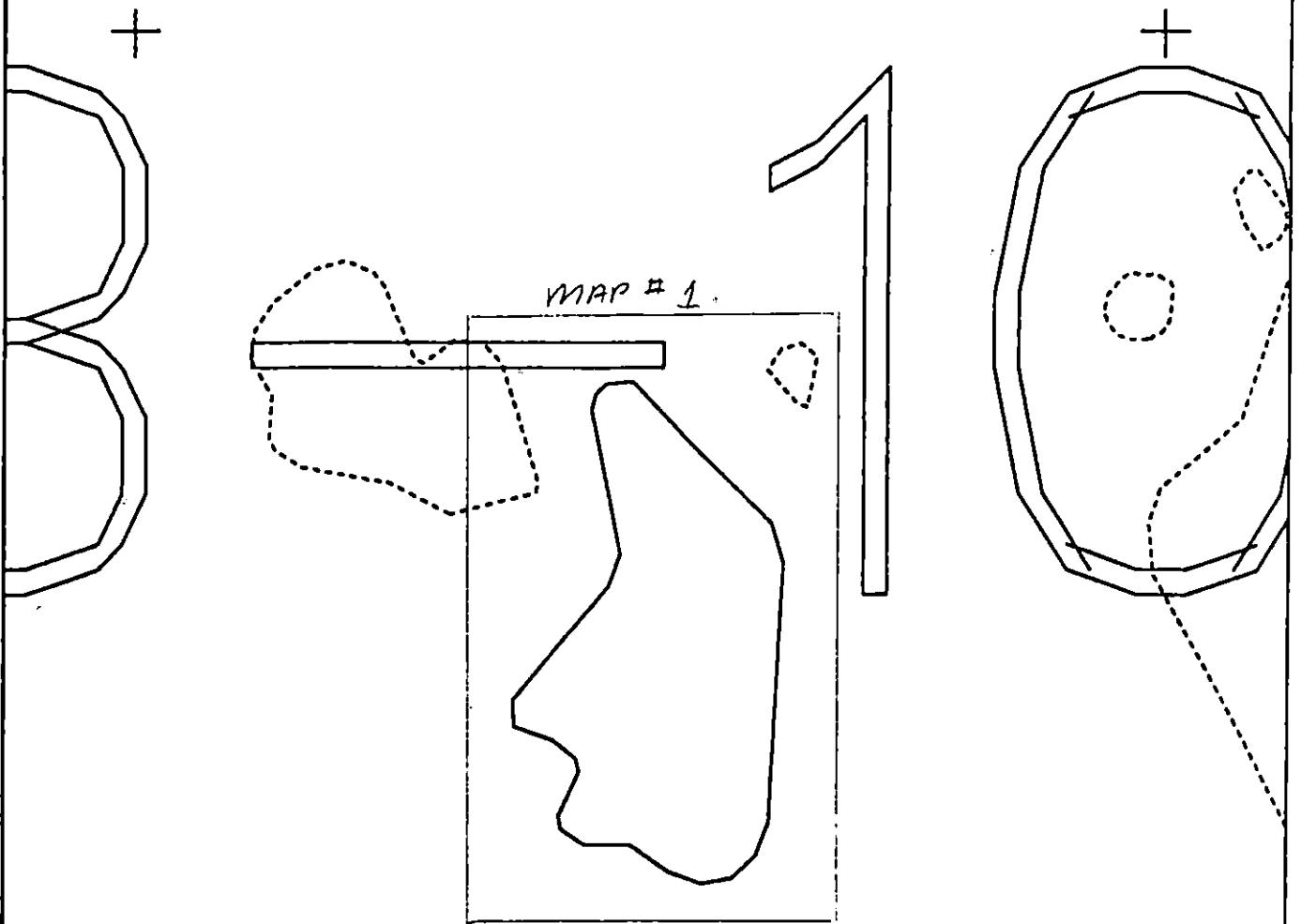
R. Spurr / G. Shigenaka

- ☒ NTR

No significant oiling found during survey of this segment

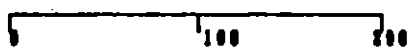
THE SURVEYED SEGMENT WAS THE SHORELINE OF A SMALL ISLAND IN SPIRODON BAY WHICH IS CONNECTED TO THE MAIN BODY OF KOOTENAI BY A BAR WHICH SUBMERGES AT HIGH TIDE. THE CHARACTER OF THE SHORELINE RANGED FROM BLACK SAND BEACH ON THE EASTERN SIDE OF THE ISLAND TO BOULDER/BEDROCK ON THE WESTERN SIDE. ROCKIER PORTIONS OF THE ISLAND SHORE SHOWED A GREATER DIVERSITY OF BIOTA, WITH BEDROCK PROVIDING POOLS AND SHELTER FOR LOWER INTERTIDAL ORGANISMS SUCH AS ANEMONES. EVIDENCE OF OILING WAS OBSERVED AT ONLY TWO LOCATIONS ON THE SEGMENT: THE FIRST WAS ISOLATED SPLATTERS OF COAT ON COBBLES ON THE NORTHEAST SIDE OF THE ISLAND, AND THE SECOND WAS A SMALL PATCH OF VERY WEATHERED SOR IN BEDROCK SUBSTRATE ON THE SOUTHWESTERN SIDE. THIS OILING, RELATIVELY SPEAKING, WAS INSIGNIFICANT.

Reviews: MC 6/3/9



K0619 SB100 A

METERS



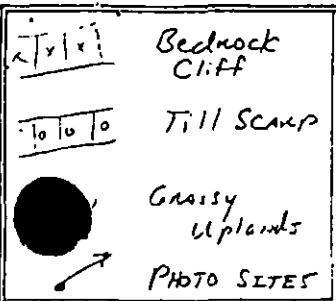
AK State Plane Zone 4.
GCSNAD83

Subdivision Field Map

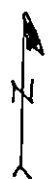
Map Key: G02X0010SB100A

Name: D. Fitzgerald

Date: 29 MAY 1991



0 25
METERS



Sketch Map of
 K06-19-SB-100-A
 D.M. Fitzgerald
 29 May 1991
 1100 to 1125

SPIRITDOOKI
BAY

Isthmus
 to
 MAINLAND

B. CT/ST
 1 by 2 m, < 1%
 ON Boulder

B + BR
Reef

High-Tide
Island

Boulders
 Cobbles

A. SON/CT
 1-4 by 10 m, < 1%
 IN beh. boulders
 & bedrock

Bedrock

Reviewed: MC 6/3/91

 Bedrock Cliff
 Till Scarp
 Grassy Uplands
 PHOTO SITES

PHOTO SITES, SB-100A
ROLL 6-25, FRAMES 51-60

25
METERS



Sketch MAP (00)
K06-19-SB-100-A
D.M. Fitzgerald
29 May 1991
1100 to 1125

SPIKEWOOD
BAY

B+BR
Reef

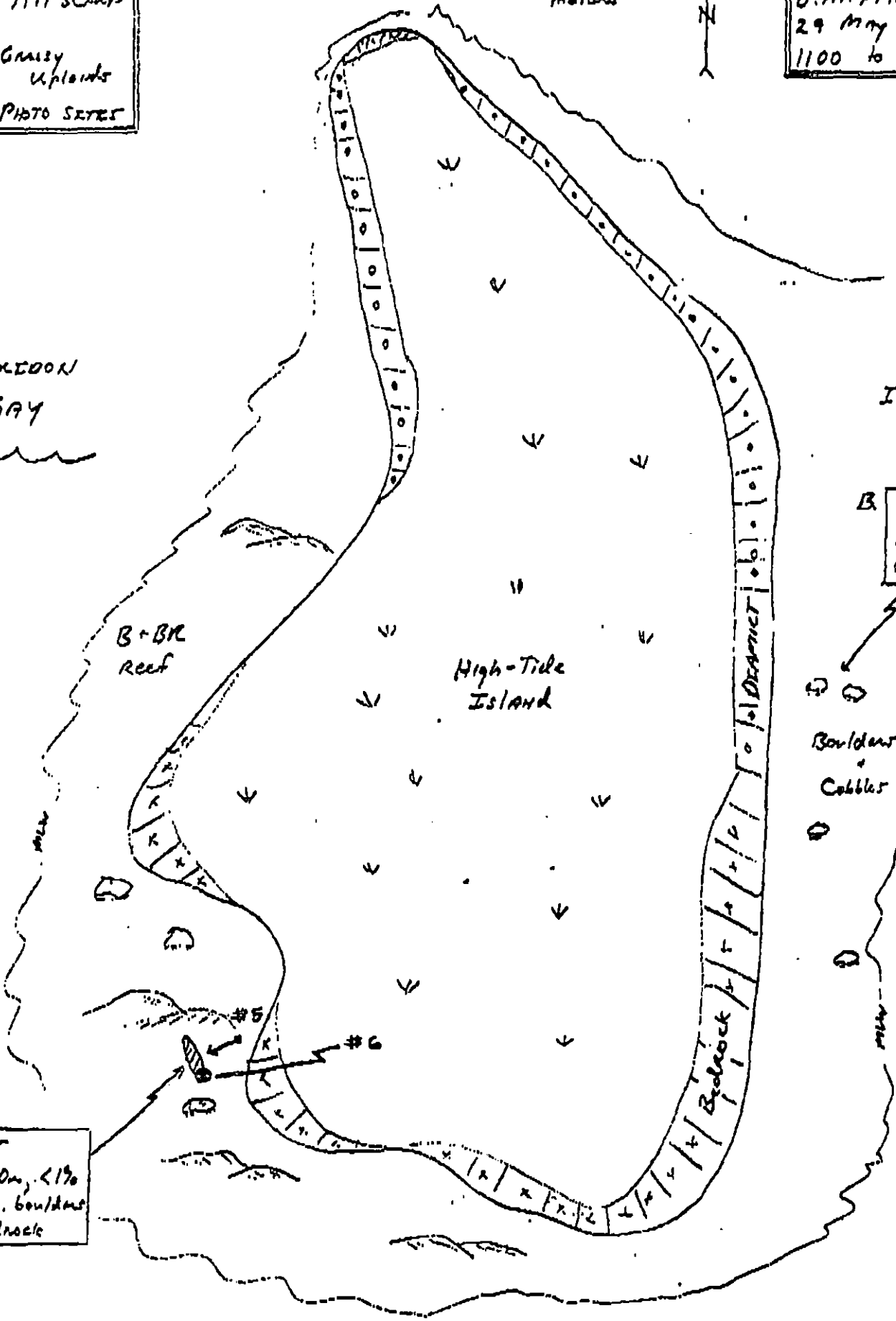
High-Tide
Island

Isthmus
to
Mainland

B CT/ST
1 by 2 m, <1%
ON Boulder

Boulders
&
Cobbles

SDN/CT
1-4 by 10m, <1%
boulders
bedrock



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # KOG-19 SB-100

TIDAL HEIGHT (Range) -1.1 ft to 0 ft (10:55 - 11:20)

SUBDIVISION M

BIOLOGIST N. Davis

SEA STATE 1 ft.

WIND SPEED/DIRECTION 10 Kts S

PHOTOGRAPHS: ROLL # 6-25

FRAME # 5+6

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

This was a small bedrock island. At low tide a bar connects it to the main land. There was a sand beach on the eastern side of the island with a boulder strewn bedrock platform on the western side. More diverse biota was located on the western end but the pebbly/cobble areas next to the sand beach also had a dense cover of barnacles, *Mytilus* and *Fucus*.

Site A+B were at the top of the barnacle zone. Only a very few patches of *Fucus* were growing at this level. Sparse littorines and limpets were in crevices and under rocks. Very little drift on this island. There were amphipods but a few (comparatively speaking) amphipods were found under rocks. Lower down barnacles, limpets, littorines and *Fucus* become a dense cover. In pools *Anthopleura*, *artemisia* and *pagurus* are found.

Wandering Tattler? (1)

Glaucous winged Gull (3) Kittiwakes (6) Oystercatchers (3) Rock sandpipers (2)

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

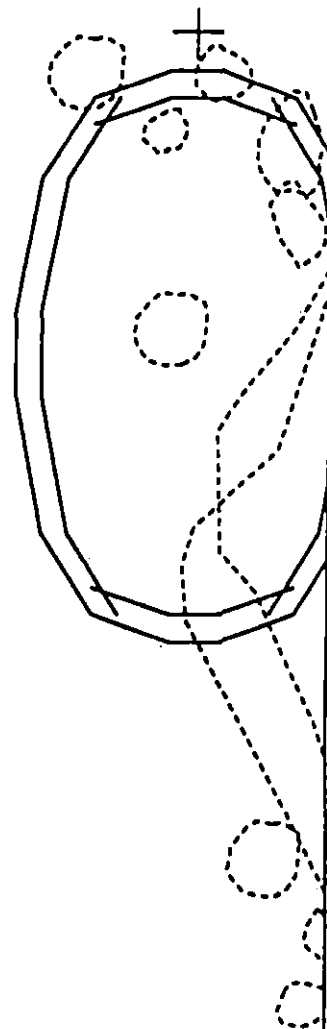
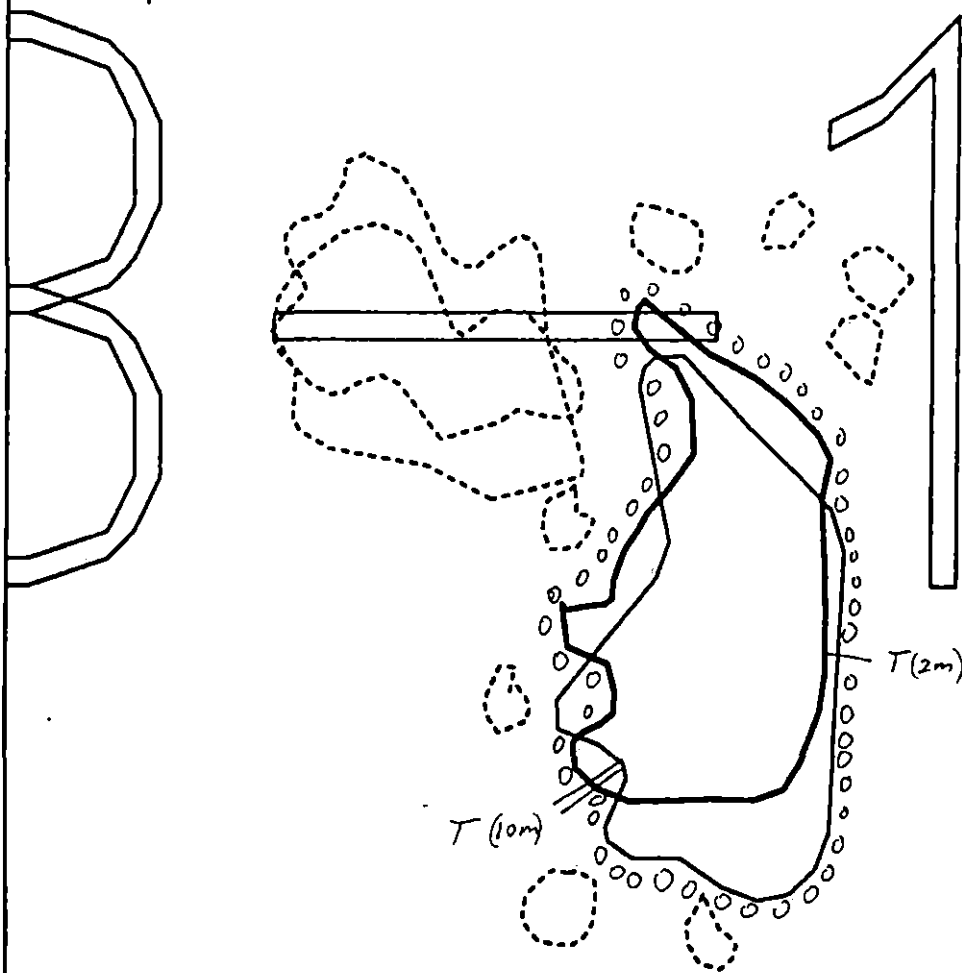
BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	0		
Gulls/Kittiwakes	2	9	
Shorebirds	3	6	
Corvids	0		
Other Birds	0		

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	1	0	
Pinnipeds (specify)			
Harbor Seals	2		
Seals (specify)	0		

Shoreline subdivision map showing important biological features attached.

Page 1 of 1

A. SON/CT
1-4 by 10m, <1%
IN betw. boulders
bedrock



XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

K0619 SB100 A
 ADEC Subsegment Length: 765m
 METERS
 0 100 200
 AK State Plane Zone 6
 8001961000-1 ...



Subdivision Field Map
 Map Key: 60AK0010SB100A
 Name: D. F. Fitzgerald
 Date: 29 May 1991
 Date Entered:

REVIEWED: MC 6/3/91

REGION: KODIAK

SEGMENT: ST/K06-20-SB-001

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-001 SUBDIVISION A (1 OF 1) DATE 5/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subistence area: Salmon harvesting (6/1 to 9/30)
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 56 m: V.Light 100 m: No Oil 78 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2290
- 1C Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- P Harbor seal and sea lion pupping (5/10 to 7/1)
 Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31).
 Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
 6V Anchorages (8/1 to 9/15)
 6W Forest Service cabins (8/1 to 9/15)
 6X Lodge (8/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 to 9/30)
 7RH Finfish harvesting
 7I Deer harvesting (8/1 to 1/7)
 7J Invertebrate harvesting
 7K Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2350

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KG-20 SB-1 SUBDIVISION: A DATE 5-8-80

CG
NAME Kenneth M. Trabue SIGNATURE _____

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Oil is sparse throughout segment in the form of stains and splatter. and occasionally mousse is found between boulders. all nonrecoverable.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J. Bennis

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Oil is present in several locations in this segment in the form of stains, coats, splatter, & mousse caught between some boulders & in rocks crevices. there is very little recoverable oil here without difficulty.

LAND MANAGER
NAME John Hardister SIGNATURE John P. Hardister

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

USFWS

Small amounts of oil non recoverable. No treatment is in order. Disclaimer statement attached as "attachment 2."

Attachment 2
U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately 'clean' or 'restored' for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

OG Greg Chaney USCG Ken Trabue SEGMENT ST: K0620 SBC
 BIO Heather Davis LAND REP: John Hardister SUBDIVISION A (LOF)
 EXXON — ADEC Fran Bennis TIME 10:40 to 11:30
 TEAM NO. 20 TIDE LEVEL 2 ft to 6 ft DATE May 18 / 90
 EST. SUBDIVISION LENGTH: 205 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 LANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: South to North
 SURFACE SEDIMENTS: R 30 % B 50 % C 10 % P 5 % G 5 % S — % M — % V — %
 SLOPE: Long 30 % Hang 40 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 60 m VL 90 m NO 55 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	R	B	P	S	1	2	3	4	5	SU	U	M	L
ASPHALT PAVEMENT													
POOLED				X	X						X		
COVER				X	X						X		
COAT		X	X	X	X						X		
STAIN	X	X	X	X	X						X		
MOUSSE				X							X		
PATTIES				X							X		
TARBALLS													
FILM													
OIL										X		X	X

PAVEMENT H F S — sq. m by — cmPATTIES / TARBALLS less than 1 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE —:#BAGS —

Photographs:

Roll No. ST 20 10Frames 20, 21, 22, 23, 24

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		US	UC	1	2	3	4	5	SU	U	M	L				
1	20					X	.								X				N	N	O	SPC
2	25					X	.								X				N	N	O	PCR
3	30					X	.								X				N	N	O	P
							.															
							.															
							.															
							.															

COMMENTS

See attached

REVIEWED JWDATE 5/14/90

COMMENTS
SEGMENT K0620 SB01

Greg Cheney

May 8 1990

Segment K0620 SB01 is extremely short at 205 meters. This segment consists of low bluffs in the south east and boulders and steep cliffs in the north west. The beach was primarily composed of boulders but small pocket pebble beaches were found in the south east portion of the segment. Oil was observed in the form of black random drops, patchy stains, and splattered tar coats. In two locations (marked with circles on the sketch map), black tar was lodged between the bedding planes of the slate bedrock. In these locations it appeared that mousse had landed in the past and weathered to a black tar outer layer with a brown mousse interior. In some of these cracks, oil was just over a centimeter deep. Therefore, by definition, pooled oil was present in the segment but it was rare and limited to areas less than 10 square centimeters each. It would be difficult and tedious to recover this oil manually. A small amount of fresh brown mousse was located in the segment which produced a sheen when placed in water but sheen was not observed along the shore.

SSAT P.04

TO

MAY-14-1990 10:57 FROM EXXON KUDJIK

SEG **ST/ K0620 SB01**

SUBDIVISION **A**

DATE **May 18 90**

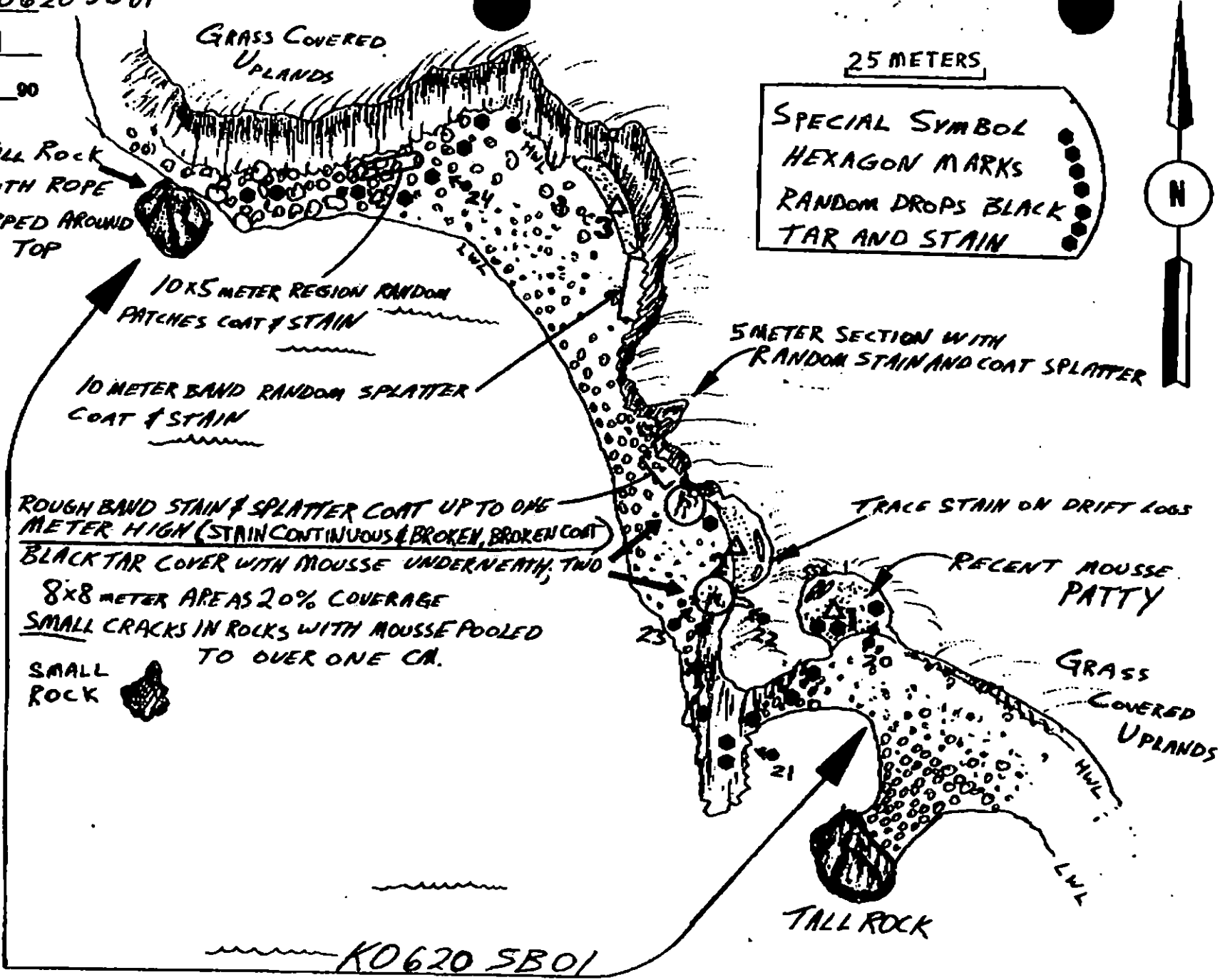
CHECKLIST

- ☐ H Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ WITH ROPE
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAWLAHL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- PR - No Subsurface Oil
- 2 Δ
- PR - Subsurface Oil
- CT/C**
- Continuous Distribution
- CT/D**
- Broken Distribution
- CT/P**
- Patchy Distribution
- CT/S**
- Splashed Distribution
- eee**
- Oil on Vegetation
- 1 $\rightarrow$
- Photo location, direction, and number

Revised 5/14/90 by Greg Chaney
SKETCH MAP



Oil Character Length (m): AP 0 PO 4 CV 16 CT 60 ST 90 MS 10 PT >1 TB 0 FL 0 NO 55

SHORELINE ECOLOGICAL SUMMARY

REVISION 10/1/80

Segment ST/ K6-20 Subdivision SB-01 Date (mo / day / yr) 5/8/90Time (24 hr) 10:30 Biologist H. Davis 1.2 ft - 6 ft(A) Substrate type and % of segments:
(1) Bedrock 30 (2) Boulder 50 (3) Cobble 10 (4) Pebble 5 (5) Sand 5 (6) Silt —(B) Overall % cover of biota (% of segment): Dense 40% Moderate 30% Low 30% (50%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. ST-20-10Frames 20-24

BARNACLES Continuous. Numbers varied from dense to sparse.

Dense			Moderate			Sparse			Rare		
1L	1M	1U	1L	1M	1U	1L	1M	1U	1L	1M	1U
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4, 5, 6

MYTILUS Patchy but numerous. Bed extends around cobbles and boulders.

Dense			Moderate			Sparse			Rare		
1L	1M	1U	1L	1M	1U	1L	1M	1U	1L	1M	1U
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4, 5, 6

GASTROPODS Littorina (dense), Umpetia (moderate), Nucella (sparse)

Dense			Moderate			Sparse			Rare		
1L	1M	1U	1L	1M	1U	1L	1M	1U	1L	1M	1U
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4, 5, 6

FUCUS Dense and continuous

Dense			Moderate			Sparse			Rare		
1L	1M	1U	1L	1M	1U	1L	1M	1U	1L	1M	1U
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
4, 5, 6

Wildlife Observations/ General Comments: See Sketch match.

Ecological Considerations: 3 NO, 72. Harbor seals molt and have pups in the segment. Salmon harvesting is done in the area. No Eagle nests could be seen in the area, but 2 adult eagles were spotted. 2 Sea otters were feeding in the area.

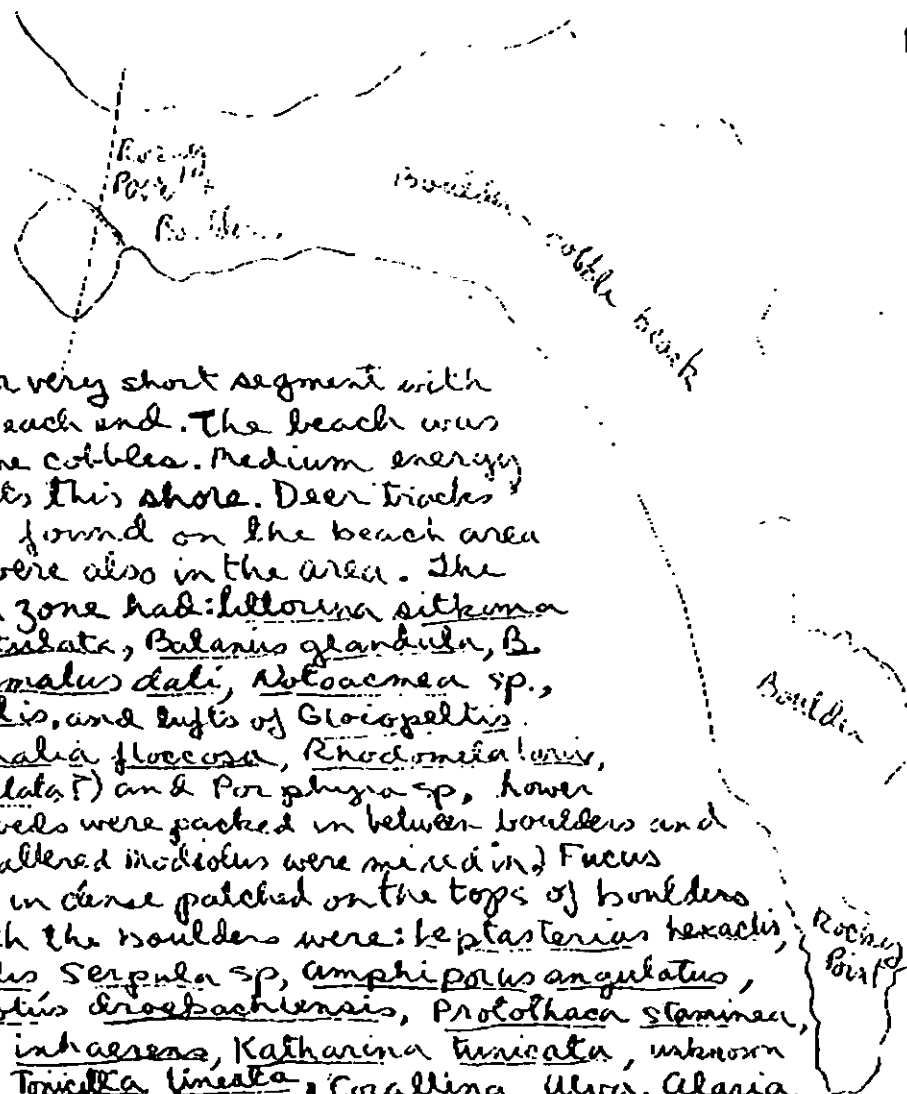
5/8/9

H. Davis

10:30 - 11:30

tide +2 ft to +6 ft.

Ecology Sketch Map and comments.



Birds seen:

Fox sparrow
Song Sparrow
2 adult Eagles
1 Golden Eagle
Glaucous-winged Gulls
Herring Gulls

Mammals

Bear (scat)
Fox (track + scat)
Deer (track + scat)
2 Sea Otters (feeding on Clams)

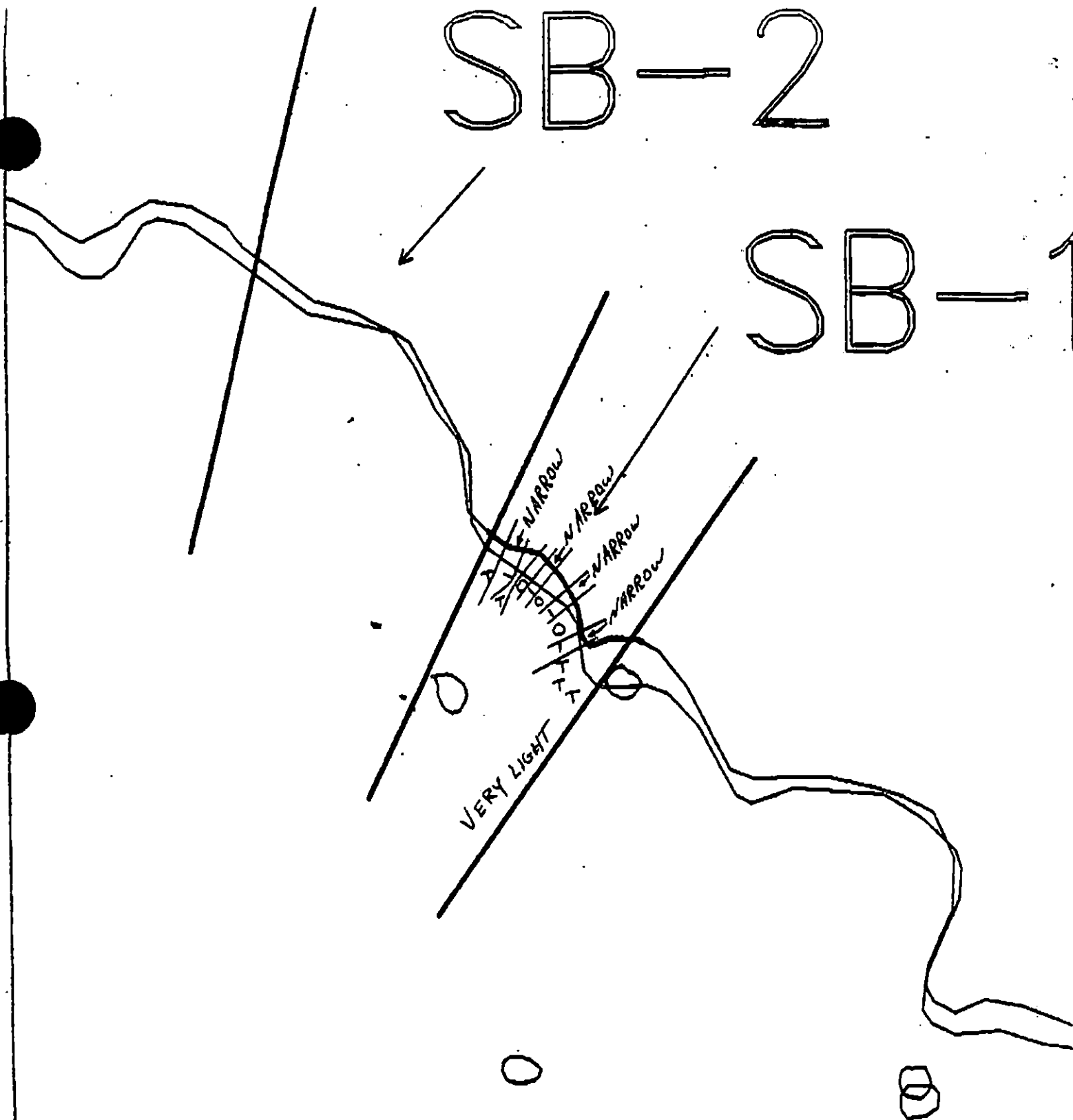
This was a very short segment with rocky points at each end. The beach was boulder with some cobble. Medium energy waves action hit this shore. Deer tracks and scat were found on the beach area. Bear and Fox were also in the area. The upper intertidal zone had: *Littorina sitkana* and some *Scutellata*, *Balanus glandula*, *B. cariosus*, *Chthamalus dalii*, *Notoacmea* sp., *Collisella digitalis*, and eggs of *Glycymeris*, *Mytilus*, *Odonthalia floccosa*, *Rhodomythra*, *Nucella canaliculata* and *Porphyra* sp. Lower down *Mytilus* beds were packed in between boulders and cobble. (Some scattered *Modiolus* were mixed in.) *Fucus* and *Ulva* were in dense patches on the tops of boulders while underneath the boulders were: *Leptasterias hexactis*, *Spirorbis borealis*, *Serpula* sp., *Amphiparus angulatus*, *Strongylocentrotus droebachiensis*, *Protothaca staminea*, *Leptodermata inhaerens*, *Katharina tunicata*, unknown scale worm and *Toxotika lineata*. *Corallina*, *Ulva*, *Alaria marginata*, *Halosaccus glandiforme*, and *Chladophora* were also found in the mid-low intertidal zone. One *Evasterias trusselii* was found eating a *Tresus capax*. *Nucella canaliculata* eggs were found on the underside of one rock.

25 meters

↑
North

SB-2

SB-1



XXXX Wide
///// Medium
---- Narrow
TTTT Very Light
OOOO Very Light

~~LONG~~ SB-1
LONG
ADEC Segment Length: 1277m
EXXON SEGMENT LENGTH 205m

0 100 200 300

Map Key: GOA-239

Name: Greg Chane

Date: May 8 1990

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-001 SUBDIVISION A (1 OF 1) DATE 5/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
9LM Land mammals
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Don Oak DATE: 5/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 56 m: V.Light 100 m: No Oil 78 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/29/90

ADEC Art Weiner Art Weiner
EXXON Andi Tera Andi Tera
NOAA Burt Wasscott Burt Wasscott
USCG G.A. Reiter G.A. Reiter

FOSC: DATE: 6-27-90

SEGMENT **K0620 SBD1**

SUBDIVISION **A**

DATE **May 1 8 90**

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Ext. H/W/L/V/L
- ☐ SSZ
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ P/L Location(s)
- ☐ Photo Location(s)

LEGEND

1
 PR - No Subsurface Oil

2
 PR - Subsurface Oil

CT/C
 Continuous Distribution

CT/B
 Broken Distribution

CT/P
 Patchy Distribution

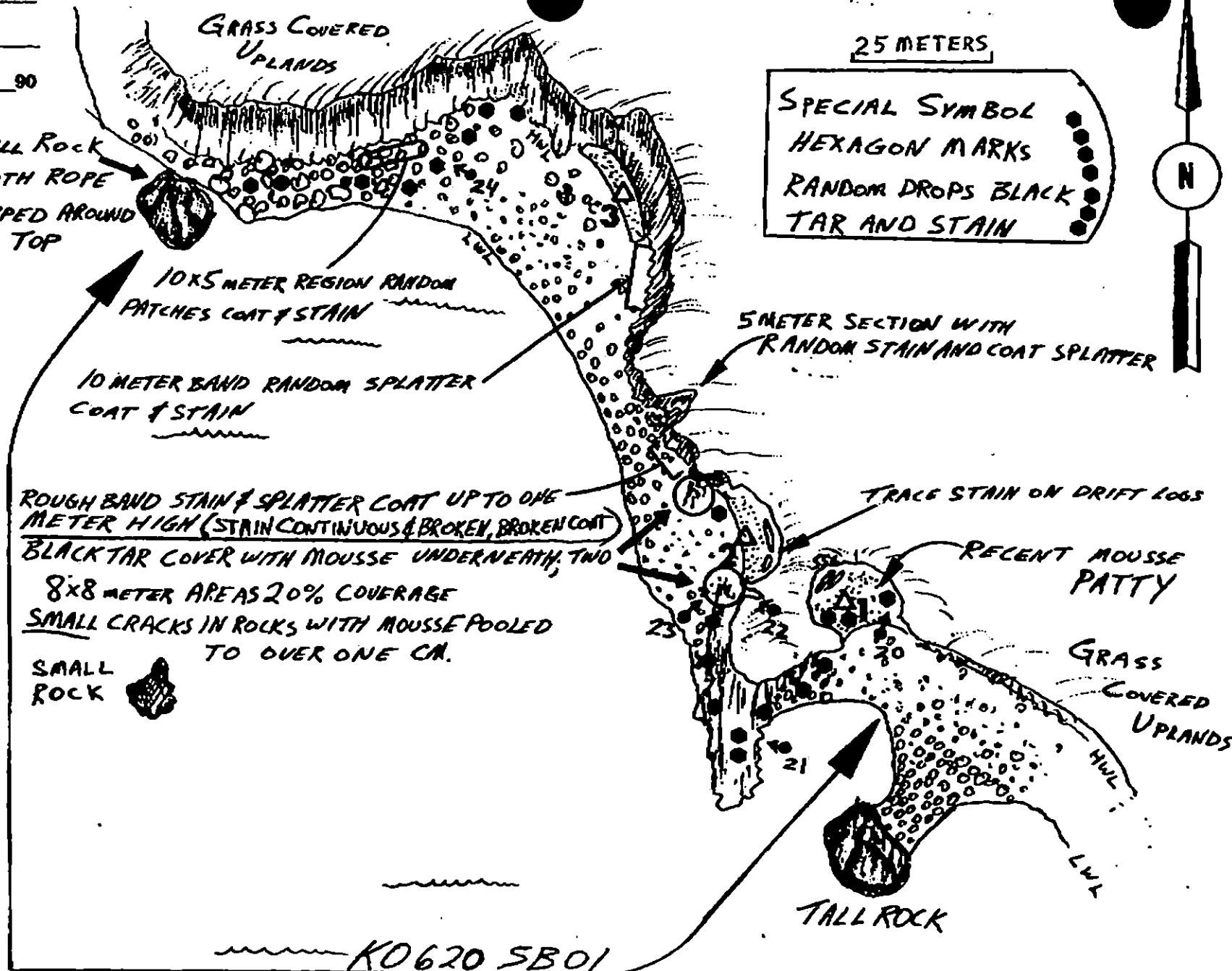
CT/S
 Splashed Distribution

Oiled Vegetation

1
 Photo location, direction, and number

Revised 5/14/90 by Greg Chaney

ETCH MAP



Oil Character Length (m): AP 0 PO 4 CV 16 CT 60 ST 90 MS 10 PT >1 TB 0 FL 0 NO 55

REVISION 20/24/90

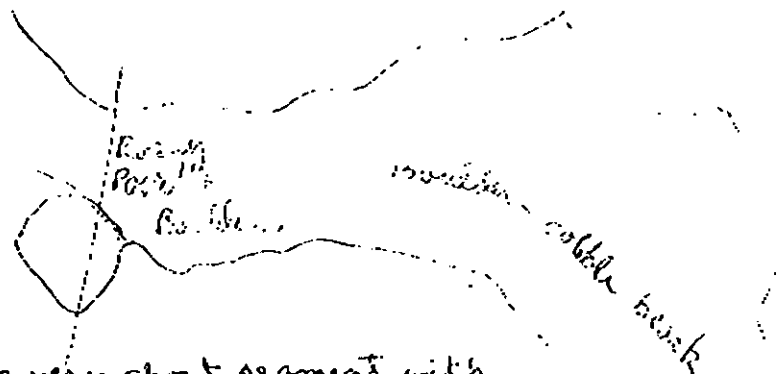
<6-20
/8/90

Davis

10-11:30

+2 ft to +6 ft.

Ecology Sketch Map and Comments.



Birds seen:

Fox Sparrow
Song Sparrow
2 adult Eagles
1 golden Eagle
blue-winged Gulls
Herring Gulls

Mammals

Bear (scat)
Fox (track + scat)
Deer (track + scat)
2 Sea Otters (feeding on Clams)

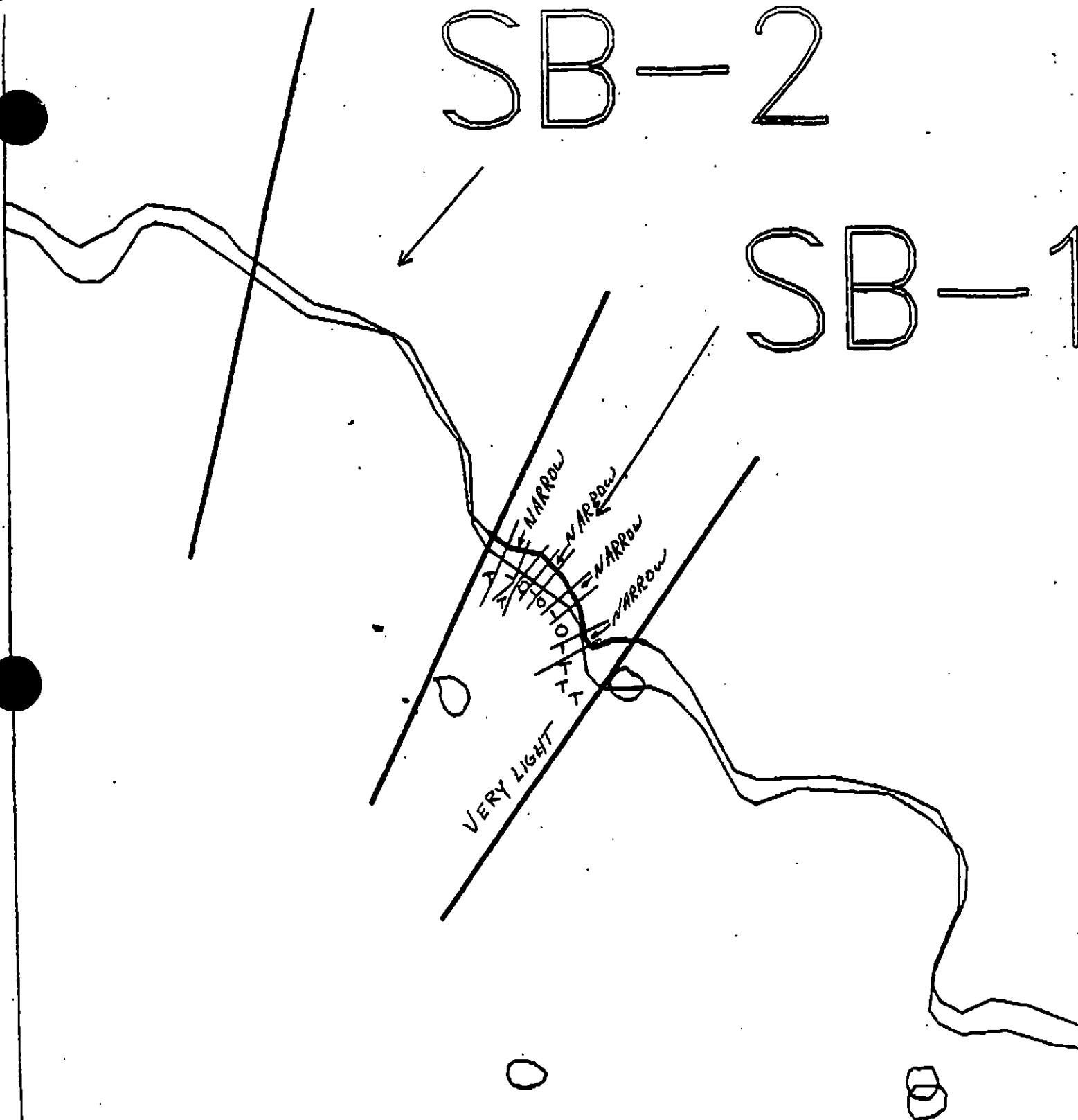
This was a very short segment with rocky points at each end. The beach was boulder with some cobbles. Medium energy wave action hits this shore. Deer tracks and scat were found on the beach area. Bear and Fox were also in the area. The upper intertidal zone had: Littorina sitkana and some Scutabata, Balanus glandula, B. cariosus, Chthamalus dali, Notoacmea sp., Collisella digitalis, and tufts of Gelidium. Porphyra sp., lower down Mytilus beds were packed in between boulders and cobbles. (Some scattered Modiolus were mixed in.) Fucus and Ulva were in dense patches on the tops of boulders while underneath the boulders were: Leptasterias hexactis, Spirorbis borealis, Serpula sp., Amphiporus angulatus, Strongylocentrotus droebachiensis, Protothaca staminea, Leptodryas inhaerens, Katharina tunicata, unknown scale worm and Toxella lineata. Corallina, Ulva, Cladophora were also found in the mid-low intertidal zone. One Evasterias truscelii was found eating a Tresus capax. Nucella canaliculata eggs were found on the underside of one rock.

25 meters

North

SB-2

SB-1



XXXX Wide

//// Medium

--- Narrow

TTTT Very light

~~60118~~
L2322

SB-1

ADEC Segment Length: 1277m

EXXON SEGMENT LENGTH 205m

Map Key: GOA-239

Name: Greg Chane

Date: May 8 1990

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-002 SUBDIVISION A (1 OF 1) DATE 5/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subsitence area: Salmon harvesting (6/1 to 9/30)
5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1) - Segment SI-001
5R Seabird colony (5/1 to 9/1)
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Joan Olan DATE: 5/25/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 37 m: No Oil 392 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90
ADEC ART WEHMAN Art Wehman
EXXON TRUDY TAYLOR Trudy Taylor
NOAA Barbara Scott Barbara Scott
USCG M. J. HALL M. J. Hall
FOSC: [Signature] DATE: 6/8/90

SEGMENT STICK 06-20-SB 002

SKETCH MAP

SUBDIVISION

GRASS SCORE:

DATE 5 / 8 / 80

CHECKLIST

- ☐ N Area
☐ Approx. Scale
☐ Seg/Sub Entry
☐ Oil Dir.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. HMA/LMA
☐ SSL
☐ Profile Location(s)
☐ Profile(s)
☐ Pit Location(s)
☐ Photo Location(s)

LEGEND

1 A

PK - No Subsurface Oil

2 ▲

Fit - Subsurface OM

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Spinal Distribution

Cited Vegetation

1. **Introduction****Photo location, direction,
and number**

Random
X CT-ST-CV/S
Splatters.

ST-CT/S as splatters
w/ interstitial MS/S
btw bldrs in crevasses

Random CT/S
 $< 1\%$

Bedrock

CREEK

-CTK on logs

Drift logs on
→ Storm berm

CBL 344 PBL 37 BLD 25

B/drs-2X

Bedrock w/
boulders

PEBBLE
BEACH

Trace interstitial MS/s

ST-CT-CV/S < 190

GRASS COVER

5-8 m
BED ROCK
CLIFFS

Boulders
Bedrock

PEBBLE COBBLE
BEACH

Bilder:

Bolsheviks

1x2m
CT-CV/S < 1%

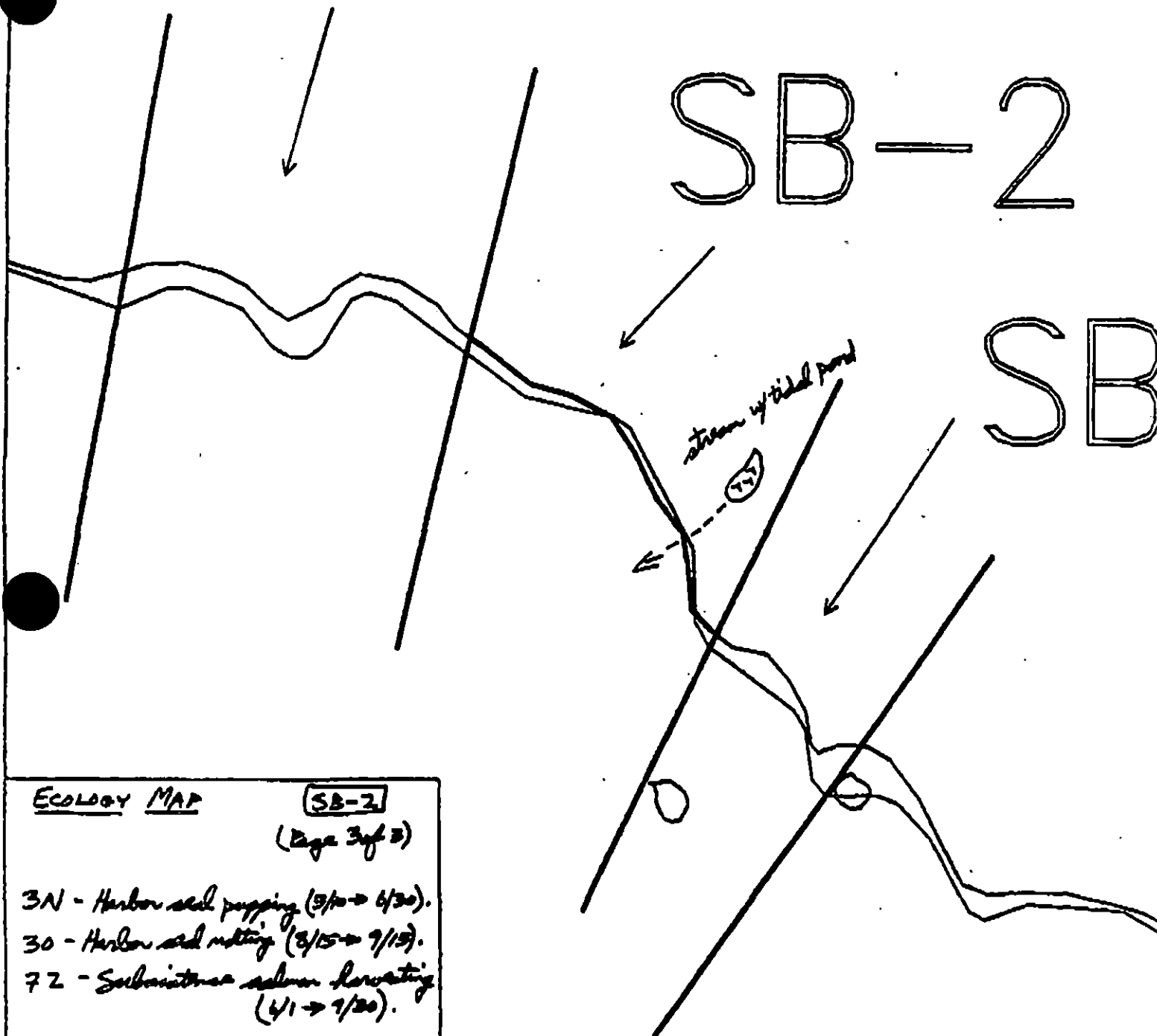
REVISION: 03/24/94

Oil Character Length (m): AP — PO — CV 2 CT 19 ST 10 MS 2 PT — TB — FL — NO 403

SB-3

SB-2

SB



ECOLOGY MAP

SB-2

(Page 3 of 3)

3N - Harbor seal pupping (3/10 → 4/30).

30 - Harbor seal molting (8/15 → 9/15).

72 - Submergence salmon harvesting (4/1 → 9/30).

Area of stream/tidal pond in a sensitive estuarine system.

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SB-2

ADEC Segment Length: 2022m



Map Key: GOA-242

Name: _____

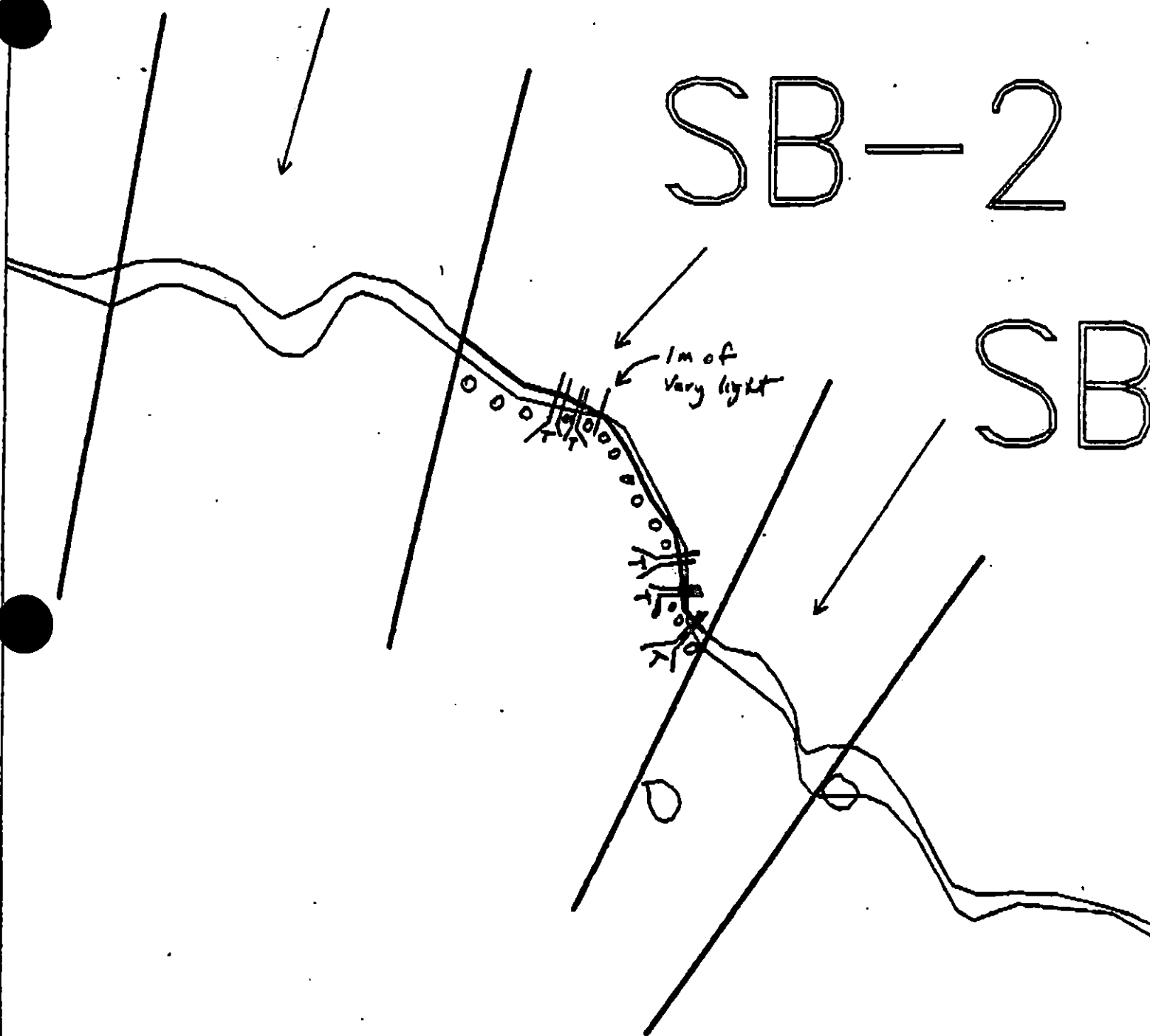
Date: _____

Date Entered: _____

SB-3

SB-2

SB



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SB-2

ADEC Segment Length: 2022m



Map Key: GOA-242

Name: G. Hayman

Date: 5-8-90

Date Entered:

REGION: KODIAK

SEGMENT: ST/K06-20-SB-002

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-002 SUBDIVISION A (1 OF 1) DATE 5/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1) - Segment SI-001
5R Seabird colony (5/1 to 9/1)
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 37 m: No Oil 392 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A** Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C** Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D** Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I** Gill net area
1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (8/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
1K Purse seine hook-off
1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M** Herring spawning (4/15 to 6/30)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncolled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- Harbor seal and sea lion pupping (5/10 to 7/1)**
Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R** Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S** Shorebird/waterfowl concentration (4/1 to 8/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Rothly 267-2206
- 5T** All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 6/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U** Recreation: Tent sites (8/1 to 9/15)
6V Anchorages (8/1 to 9/15)
6W Forest Service cabins (8/1 to 9/15)
6X Lodge (8/1 to 9/15)
6Y Special use destination
- 7P** Subsistence area: Salmon harvesting (8/1 to 9/30)
 Finfish harvesting
 Deer harvesting (8/1 to 1/7)
 Invertebrate harvesting
 Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 K0620 SB002 SUBDIVISION: A DATE 5/8/90

NAME SEYHEN LEHMANN SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Agree with ADEC

ADEC NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS
cover, coat, and stain occur in the segment as very light splatters and drips. In one area west of the creek a very small amount of interstitial mousse was found. No treatment recommended.

LAND MANAGER NAME OTTO FLORSCHUTZ SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Agree with ADEC - Several eagles present - nest?

Attachment 2**U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer**

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately 'clean' or 'restored' for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

OG B. HEYMAN NOAA S. LEHMAN SEGMENT ST/ K0620 SB002
 BIO L. SHARMAN LAND REP D. FLORISCHWITZ SUBDIVISION A (1 OF 1)
 EXXON E. BYERS ADEC T. ELLSWORTH TIME 10:35 10/11:30
 TEAM NO. 19 TIDE LEVEL +2 to +4.5 DATE 5/8/90
 EST. SUBDIVISION LENGTH: 436 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: NW to SE
 SURFACE SEDIMENTS: R 10 % B 25 % C 25 % P 40 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 80 % Hang 15 % Vert 5 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 33 m NO 403 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	1	2	3	4	5	6	7	8	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0 cm

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT			DID YOU COLLECT DEBRIS?
	SM	MD	LG	
Logs	☒			YES ☐ NO ☒
Vegetation				
Trash				
Debris				
				TYPE <u>---</u>
				#BAGS <u>---</u>

Photographs:

Roll No. ---

Frames ---

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR								PIT ZONE	A N A	SHEEN (V/M)	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UG	1	2	3	4	5	6	7	8				
1	25					X	0-0	X										X	N	-	P/PG
2	25					X	0-0	X										X	N	-	P/P

COMMENTS This segment consists of a creek draining across a broad pebble beach with bedrock cliffs and ^{a narrow} boulder-pebble-cobble shoreline to the SE and a cobble-pebble-boulder shoreline to the west.
 Oiling in the segment is limited to the boulder-bedrock areas.
 The oil occurs as ST-CT-CV splatters to 5 cm in diameter & drips. Very small amounts of interstitial mousse were observed in boulder interstices with pebbles. Splatters were also observed on a few drift logs.
 REVIEWED --- DATE 10 MAY 90

OG G. H. HAN

SKETCH MAP

SEGMENT STI K 06-20-SB 002

SUBDIVISION A

DATE 5 / 8 / 90

GRASS SLOPE

ST-CT/S as splatters
w/ interstitial MS/S
btw bldrs & in crevasses

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAZ/LVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

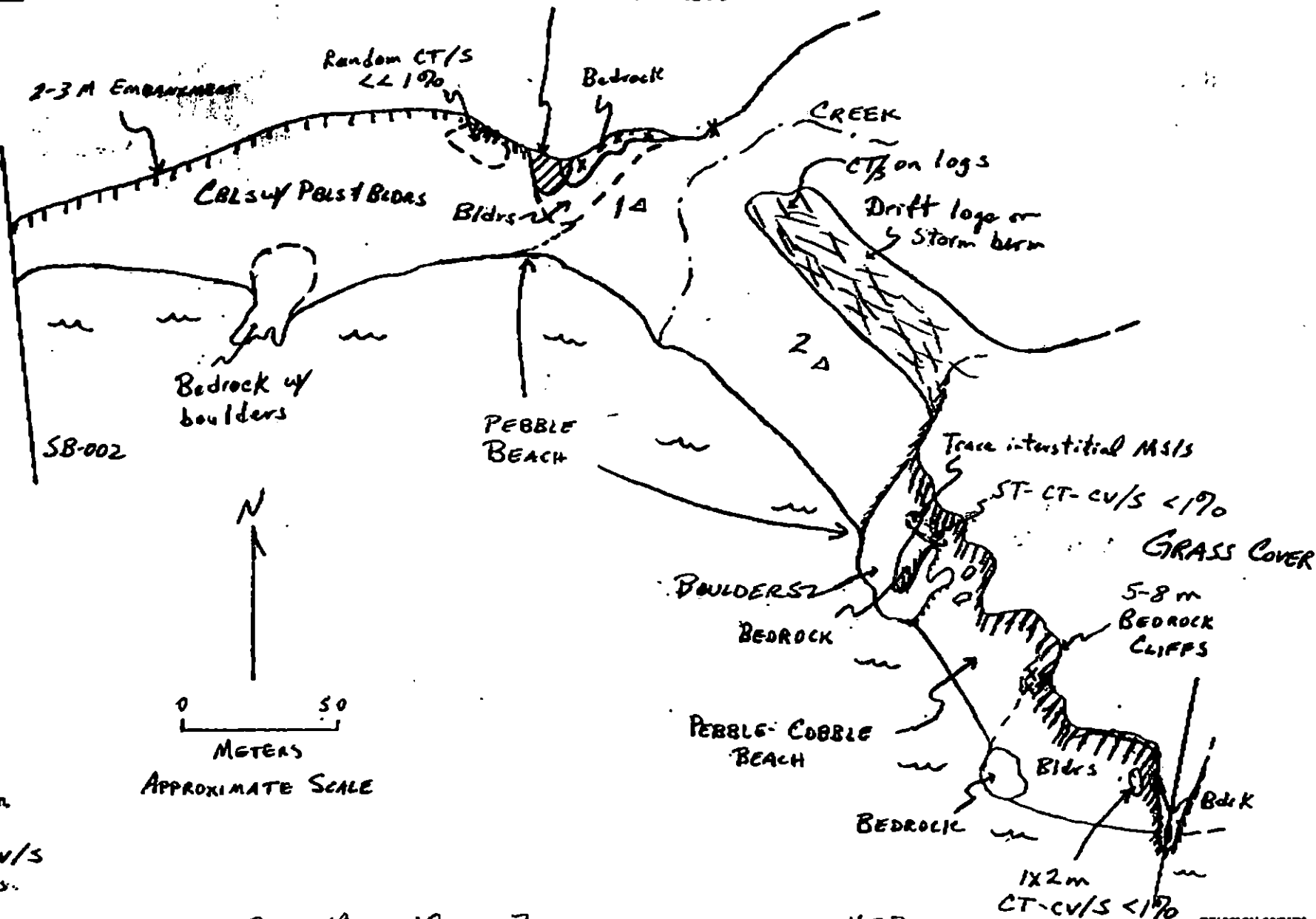
LEGEND

- 1 Δ
- PT - No Subsurface Oil
- 2 Δ
- PT - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Splattered Distribution
- $\odot \rightarrow$
- Oil Vegetation

Photo location, direction,
and number

Random
X CT-ST-CV/S
Splatters.

0 50
METERS
APPROXIMATE SCALE



Oil Character Length (m): AP — PO — CV 2 CT 19 ST 10 MS 2 PT — TB — FL — NO 403

REVISION: 02/2000

SHORELINE ECOLOGICAL SUMMARY (Page 1 of 2)

REVISION: 02/24/75

Segment ST/ SB-2 Subdivision A Date (mo / day / yr) 5/8/90

Time (24 hr) 1055-1130 Biologist SHARMAN

(A) Substrate type and % of segments: SUBDU
(1) Bedrock (2) Boulder (3) Cobble (4) Pebble (5) Sand (6) Silt

(B) Overall % cover of biota (% of segment): Dense Moderate X Low
SUBDU

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs: Roll No. -

Frames -

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS (ALCEGA, LITTORINA, LIMAEYS)

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments: Did not observe LTB. 4 herring ducks, 1 adult eagle, 1 subadult eagle, 1 raven. Abundant deer tracks + scat in uplands; some tracks in HTB + MTB. Small otter (probably river otter) abutted portion in supratidal. We smelled for (her) at the rocky point at the E. end of the segment (probably up on the bluff above). Interestingly, this segment is essentially a continuation of adjoining SB-3 to the W. (cont)

Ecological Considerations:

Please see attached Env. Rep. Transverse rocks + rocky points are probable seal (sea lion?) haulouts, although we observed no pinnipeds during this survey. Note also the identified sensitivity for subsistence salmon harvesting. It would add that the tidal pond + local stream/ephemeral (see map) are very important to seabirds + shorebirds (resting + foraging habitat) and to terrestrial mammals (foraging) as well as a generally productive and easily perturbed system that is sensitive to human intrusion.

58-2

Shoreline Ecological Summary (cont.)

(Page 2 of 3)

Sharman
5/8/90

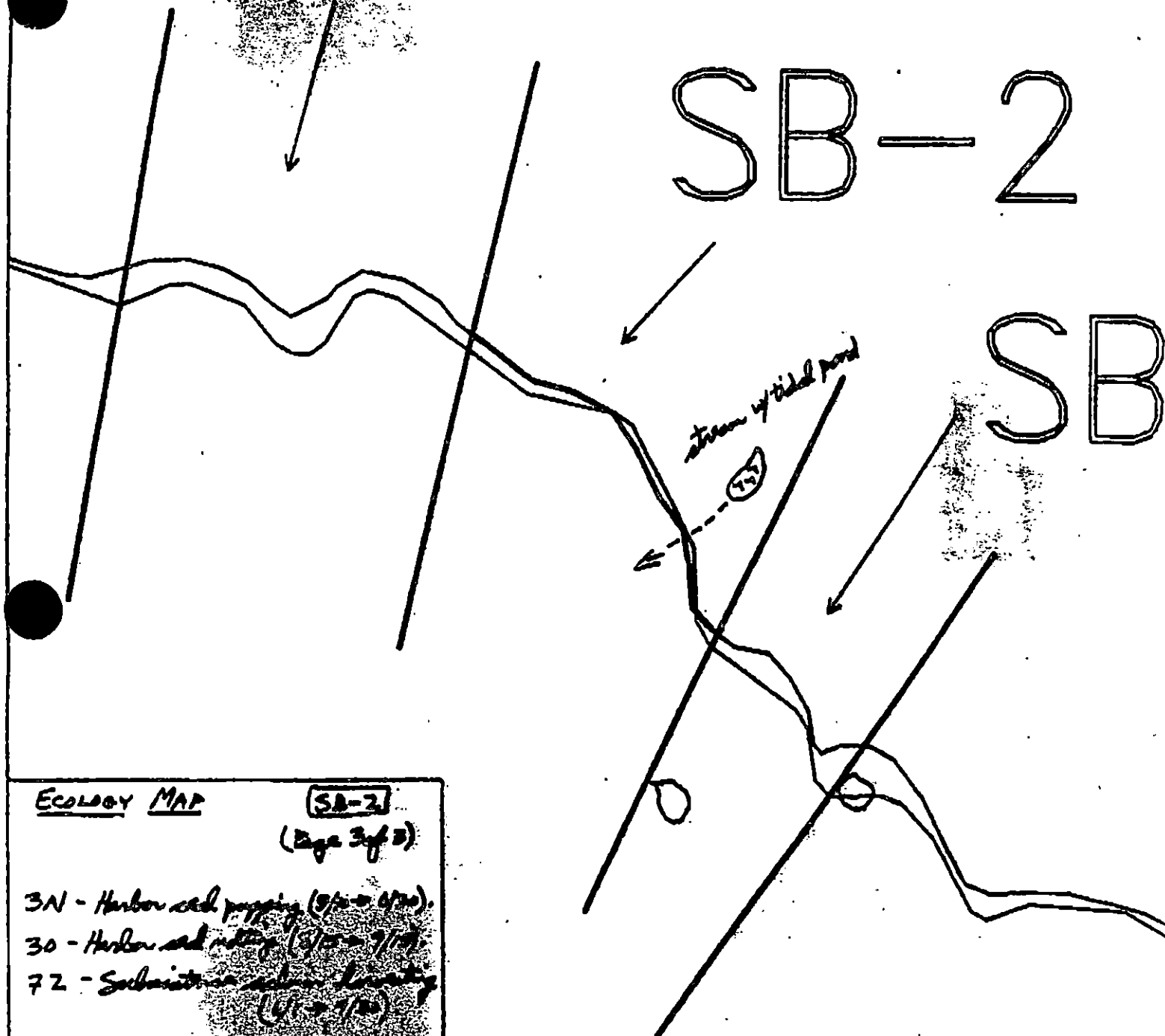
General Comments (cont.):

See also the narrative of this section for segment 58-3. Generally, a biotically typical shoreline of this type + exposure. About 1/3 of the segment, centered about the stream, is a pebble beach which is macrobiotically "sterile" - very unstable + mobile substrate. Locally there is excellent recruitment of barnacles, littorines, mussels. Bivalve shells found amongst MTA boulders are primarily Saxidomus and a few Protothaca + Pachidomus. The bedrock/large boulder point at the extreme E. end of the segment is very diverse: Katharina, Stictasteria, large healthy mussels and Smilbiscus caricosa, Porphyra, Alaria, limpets (large Notammina scutum), Anthopleura (abjectissima, attonis, + xanthogramma), etc. This appears to be a perfectly normal and healthy intertidal assemblage.

SB-3

SB-2

SB

ECOLOGY MAP

SB-2

(Page 3 of 3)

- 3N - Harbor seal pupping (8/10 - 4/10)
 30 - Harbor seal molting (8/10 - 9/10)
 72 - Seabirds in colony (4/10 - 7/10)

Area of stream/tidal pond is
 a sensitive estuarine system.

XXXX Wide

SB-2

/// Medium

--- Narrow

ADEC Segment Length: 2022m

TTTT Very Light

0000 No Oil



Map Key: 60A-242

Name: _____

Date: _____

Data Entered: _____

SB-3

SB-2

SB

1m of
Very light

XXXX Wide

SB-2

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

ADEC Segment Length: 2022m


METERS

Map Key: GOA-242

Name: G. HaymanDate: 5-8-90

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-003 SUBDIVISION A (1 OF 1) DATE 5/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subsitence area: Salmon harvesting (6/1 to 9/30)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1) - On next adjacent segment
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Jean Dale DATE: 5/25/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 43 m: No Oil 372 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90
ADEC Art W...
EXXON Andy ...
NOAA Burt ...
USCG M.J. Hall
FOSC: [Signature] DATE: 6/4/90

OG G. HEYMAN

SEGMENT K 06-20-SB 003

SUBDIVISION A

DATE 5 18 / 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HMLA/VL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PR Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
PH - No Subsurface Oil

2 Δ
PH - Subsurface Oil

$\square$ CT/C
Continuous Distribution

$\square$ CT/B
Broken Distribution

$\square$ CT/P
Patchy Distribution

$\square$ CT/S
Splashed Distribution

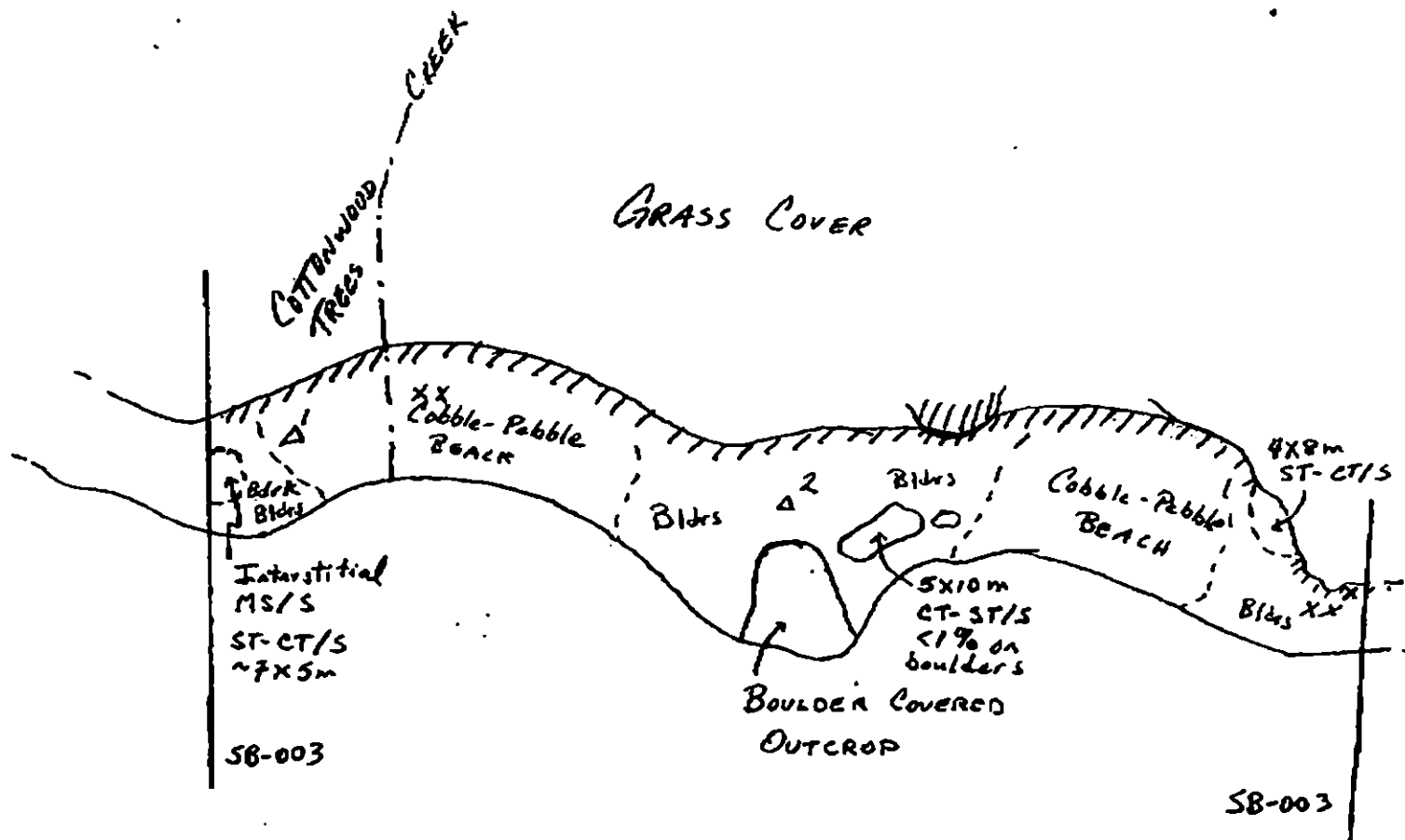
$\lll$
Oiled Vegetation

1 $\Rightarrow$
Photo location, direction,
and number

X = Random Splatters
of CT-ST, <1%
Cover

Oil Character Length (m): AP — PO — CV — CT 15 ST 9 MS 5 PT — TB — FL — NO 424

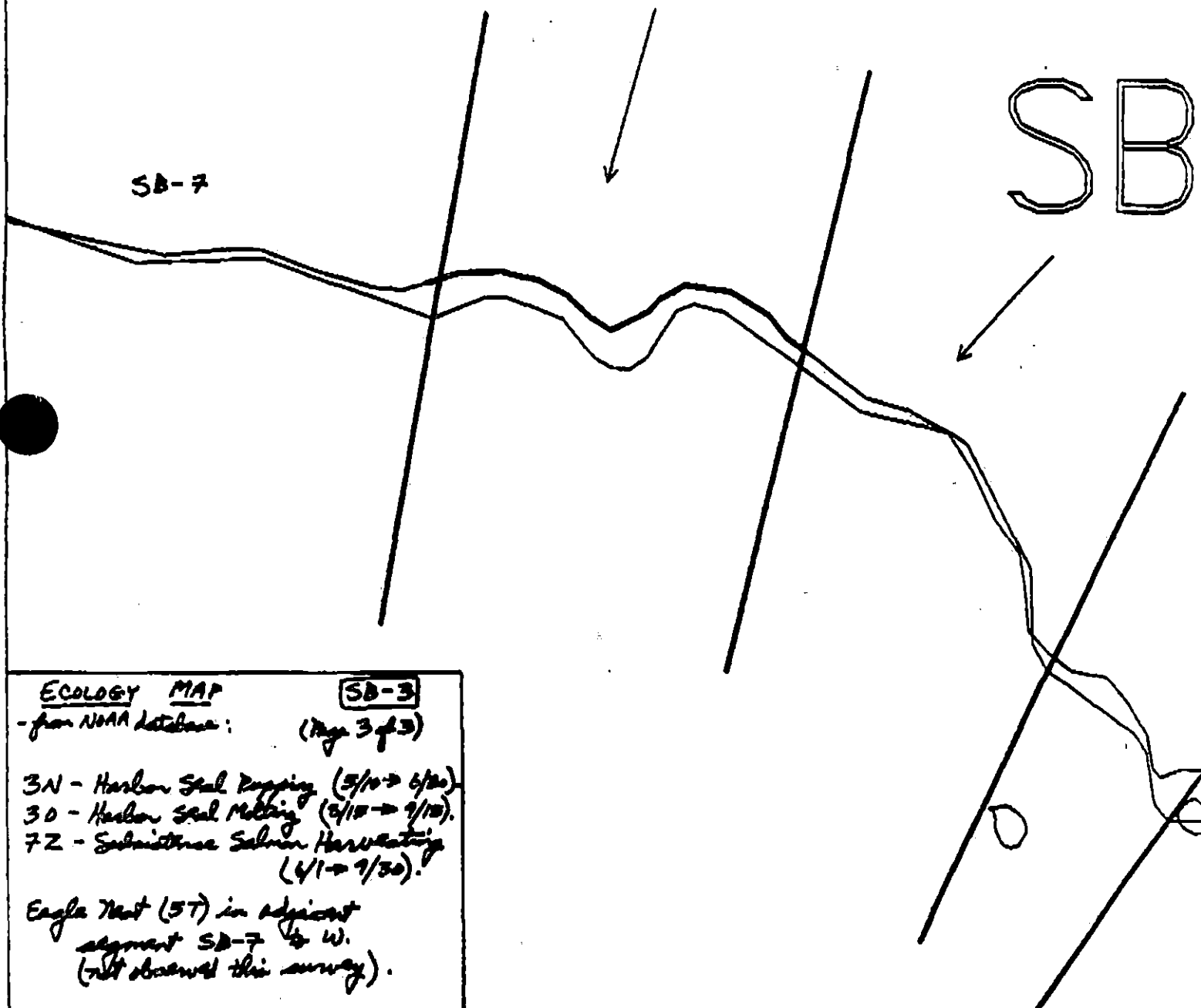
SKETCH MAP



SB-3

SB

SB-7



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SB-3

ADEC Segment Length: 444m



Map Key: GOA-174

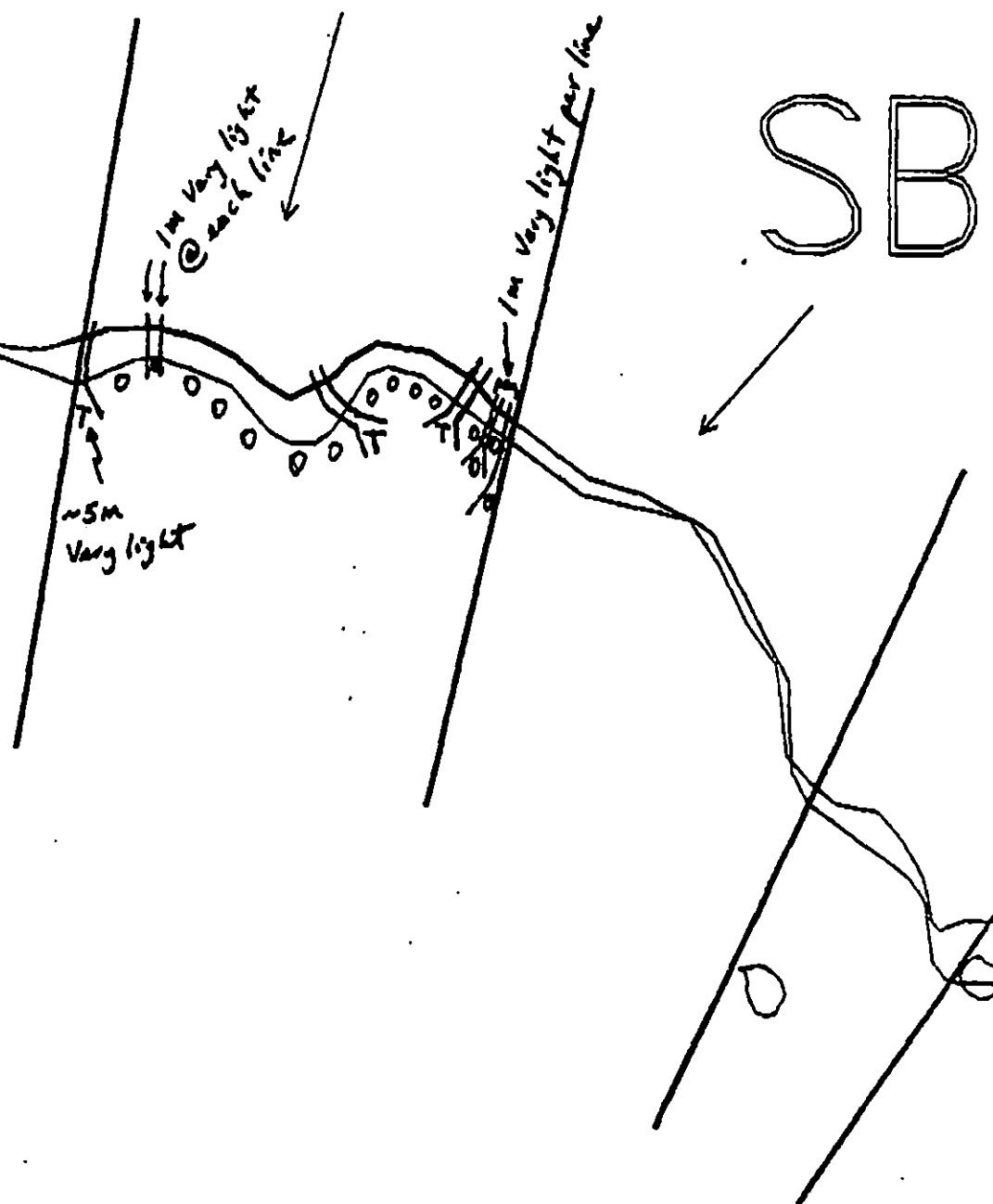
Name: _____

Date: _____

Data Entered: _____

SB-3

SB



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SB-3

ADEC Segment Length: 444m



Map Key: GOA-174

Name: G. HAZMANDate: 5-8-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/K06-20-SB-003

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-003 SUBDIVISION A (1 OF 1) DATE 5/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subistence area: Salmon harvesting (6/1 to 9/30)
5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1) - On next adjacent segment
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 43 m: No Oil 372 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
- 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Nicholson 466-4791
- Harbor seal and sea lion pupping (5/10 to 7/1)
 Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
 6V Anchorages (8/1 to 9/15)
 6W Forest Service cabins (8/1 to 9/15)
 6X Lodge (8/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 to 9/30)
 Finfish harvesting
 Deer harvesting (8/1 to 1/7)
 Invertebrate harvesting
 Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K06-20-53003 SUBDIVISION: A

DATE 5/8/90

NOMA

NAME

STEPHEN LEHMANN

SIGNATURE

[Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

*Extremely light impact. Some very limited
Coat & stain. Up to six eagles, of varying ages,
were spotted. Recommend no treatment.*

ADEC

NAME

Terry Ellsworth

SIGNATURE

[Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

*Coat and stain occur sporadically through out the segment
and interstitial mousse/sediment occurs very sporadically in one
5m x 7m area. NO treatment is recommended.*

LAND MANAGER

NAME

OTTO FLORSCHUTZ

SIGNATURE

[Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

In agreement with ADEC regarding degree of oil presence.

Attachment 2

U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately "clean" or "restored" for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

OG G. HEYMAN ^{NOAA} USCG S. LEHMAN SEGMENT ST/ K-06-20-SB-003
 BIO L. SHARMAN LAND REP D. FLORSCHEITZ Fwz SUBDIVISION A (1 OF 1)
 EXXON F. BYARS ADEC T. ELLSWORTH TIME 10:10:10:55
 TEAM NO. 19 TIDE LEVEL +0.5 to +3.0 DATE 5/8/90
 EST. SUBDIVISION LENGTH: 444 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 5 % B 20 % C 40 % P 20 % G 15 % S 0 % M 0 % V 0 %
 SLOPE: Long 10 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 20 m NO 424 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	W	U	M	L	SV	U	M	L	SV	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

 PAVEMENT H F S 0 sq. m by 0 cm

 PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT			DID YOU COLLECT DEBRIS?
	SM	MD	LG	
Logs				YES ☐ NO ☒
Vegetation				
Trash				TYPE <u>0</u>
Debris				
				#BAGS <u>0</u>

Photographs:

 Roll No. —

 Frames —

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE	A N A	SHEEN (Y/N)	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	W	U	M	L	SV	U	M	L				
1	20					X	0-0		X									X	N	-	P-G/G-P
2	25					X	0-0		X									X	N	-	C/PG

COMMENTS This segment consists of rock points separating small cobble-pebble beaches with boulders. The back-beach area consists of metamorphic bedrock forming high angle to near vertical cliffs and rubble piles. Oiling is generally limited to the rock points on splitters of ST & CT on rock outcrops and boulders. MS was observed in one area (W end of segment) in boulder interstices with pebbles and granules. The interstitial MS had a /S distribution. ST & CT was observed on a very few boulders, cobbles, and logs in the remainder of the segment.

 REVIEWED BA-1 DATE 10 MAY 90

OG G. J. MAN

SEGMENT ST/K 06-20-SB 003

SUBDIVISION A

DATE 5/8/90

CHECKLIST

- ☐ M Area
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Cont.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HRA/LVL
- ☐ SGL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

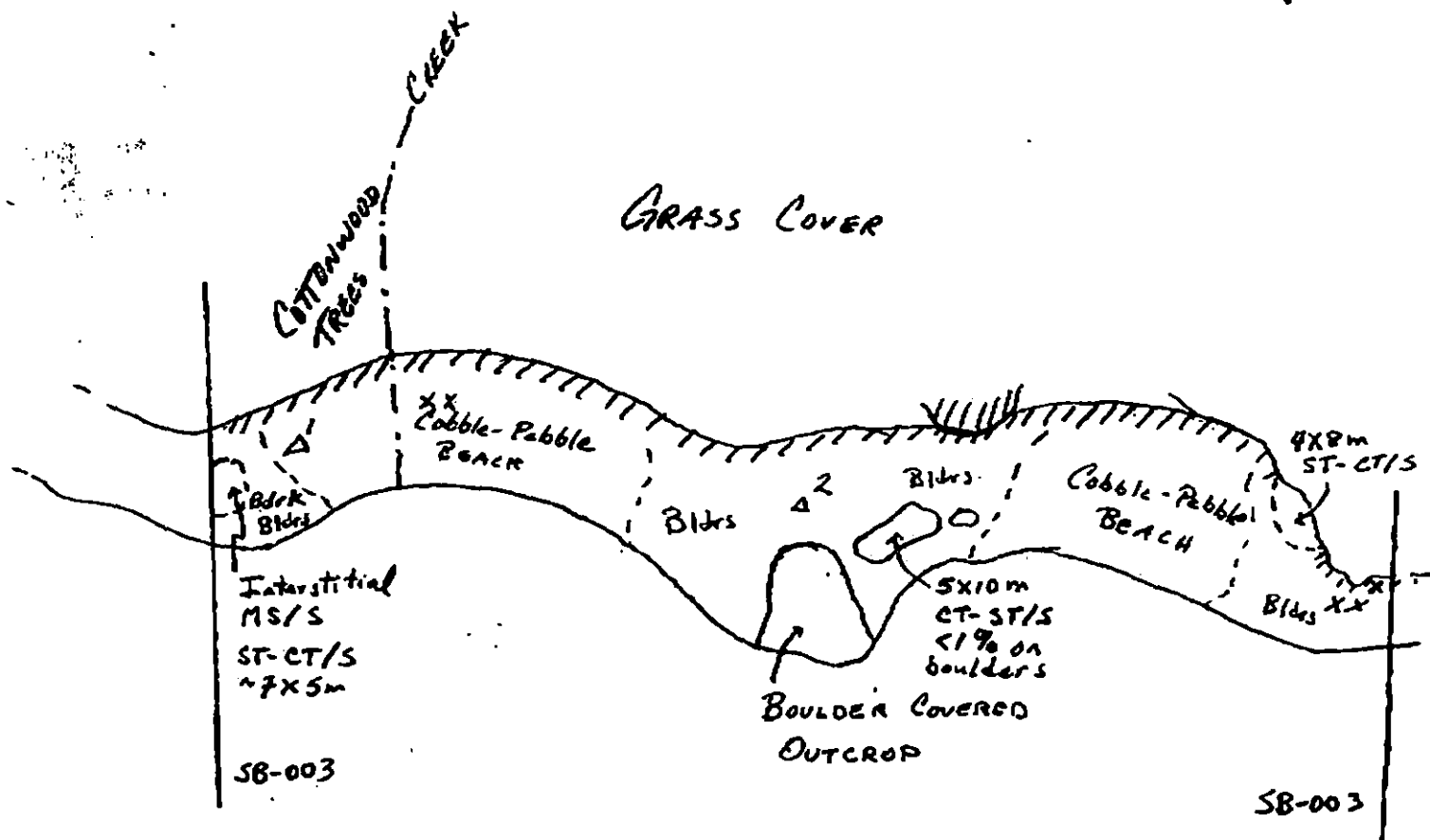
LEGEND

- 1 Δ
FR - No Surface Oil
- 2 Δ
FR - Subsurface Oil
- $\square$ CT/C
Continuous Distribution
- $\square$ CT/B
Broken Distribution
- $\square$ CT/P
Patchy Distribution
- $\square$ CT/S
Splashed Distribution
- $\lll$
Other Vegetation
- 1 $\Rightarrow$
Photo location, direction, and number

X = Random Splatters
of CT-ST, <1%
Cover

Oil Character Length (m): AP — PO — CV — CT 15 ST 9 MS 5 PT — TB — FL — NO 424

SKETCH MAP



Segment ST / SB-3 Subdivision A Date (mo / day / yr) 5/8/90

Time (24 hr) 100-1055 Biologist SHARMAN

(A) Substrate type and % of segments: SUBDIV
 (1) Bedrock 5 (2) Boulder 20 (3) Cobble 40 (4) Pebble 20 (5) Sand 15 (6) Silt granular

(B) Overall % cover of biota (% of segment): Dense Moderate X Low
SUBDIV

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs: Roll No.

Frames

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS (ANCELA, LITTORINA, LIMPAETA)

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments: 1 adult eagle, 1 subadult eagle, 5 foraging ducks, 1 red-breasted nuthatch, fox sparrows + song sparrows singing in upland brush/trees, 2 ravens, several crow nests in willows/brushwoods. Abundant deer tracks + scat in uplands, 2 sets deer tracks in HTZ/MTZ gravel. Intertidal zone is healthy + normal - moderately diverse + productive (although only limited LTZ observation). MTZ (cont.)

Ecological Considerations:

Please see attached Eco. Rep. Offshore rocks + rocky points are potential principal haulouts. We observed no seals (or sea lions) during this survey. Note also the sensitivity for substances when harvesting, as well as a potential active eagle nest on adjacent segment SB-7 (to W). Critical times are listed on the map.

Slarman
5/8/90General Comments (cont.):

tidal pools in bedrock/large boulders include Adontobolia, Lithothamnium, Katharina, Taricella, Tellia, Anthopleura (3 spp.), trioped sculpin, limpet, littorina, small Strongylocentrotus droebachiensis, Littorina lyrata (some are still brooding), Helicodonta, Spirocha. MTZ barnacles, mussels, + Fucus are all recruiting quite successfully. A short section of beach at the W. end has a sandy lower MTZ/LTZ with sparse Zostera, and adjoining clam beds (most of these are Saxidomus with a few Protothaca, judging from the shells present amongst MTZ boulders). Other lower MTZ species include Gastropoda, Alaria, Euastraea, Yuccella, Porphyra, Enteromorpha, Agardhia, + barnacles (including many S. caninus in the visible lower MTZ/upper LTZ). Barnacle mortality is up to 20% in places, mostly on exposed boulders on rocky points. This is likely natural mortality due to wave wash/debris scouring. Beneath lower MTZ boulders are littorina, limpets, amphipods, polychaetes, Littorina (some still brooding), Katharina, rare Littorina, nemertean, abundant littorina eggs, and Gelidium. Gelidium is a dominant MTZ alga here, along with Fucus, Adontobolia, and Gastropoda.

SB-3

SB

SB-7

ECOLOGY MAP

SB-3

- from NOAA database: (Aug. 3/93)

3N - Harbor Seal Pupping (5/15 - 4/30)

30 - Harbor Seal Mating (5/15 - 4/10)

7Z - Submarine Salmon Harvesting (4/1 - 4/30)

Eagle Nest (ST) in adjacent segment SB-7 to W.
(not observed this survey).

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

OOOO No Oil

SB-3

ADEC Segment Length: 444m

0 100 200 300

Map Key: GOA-174

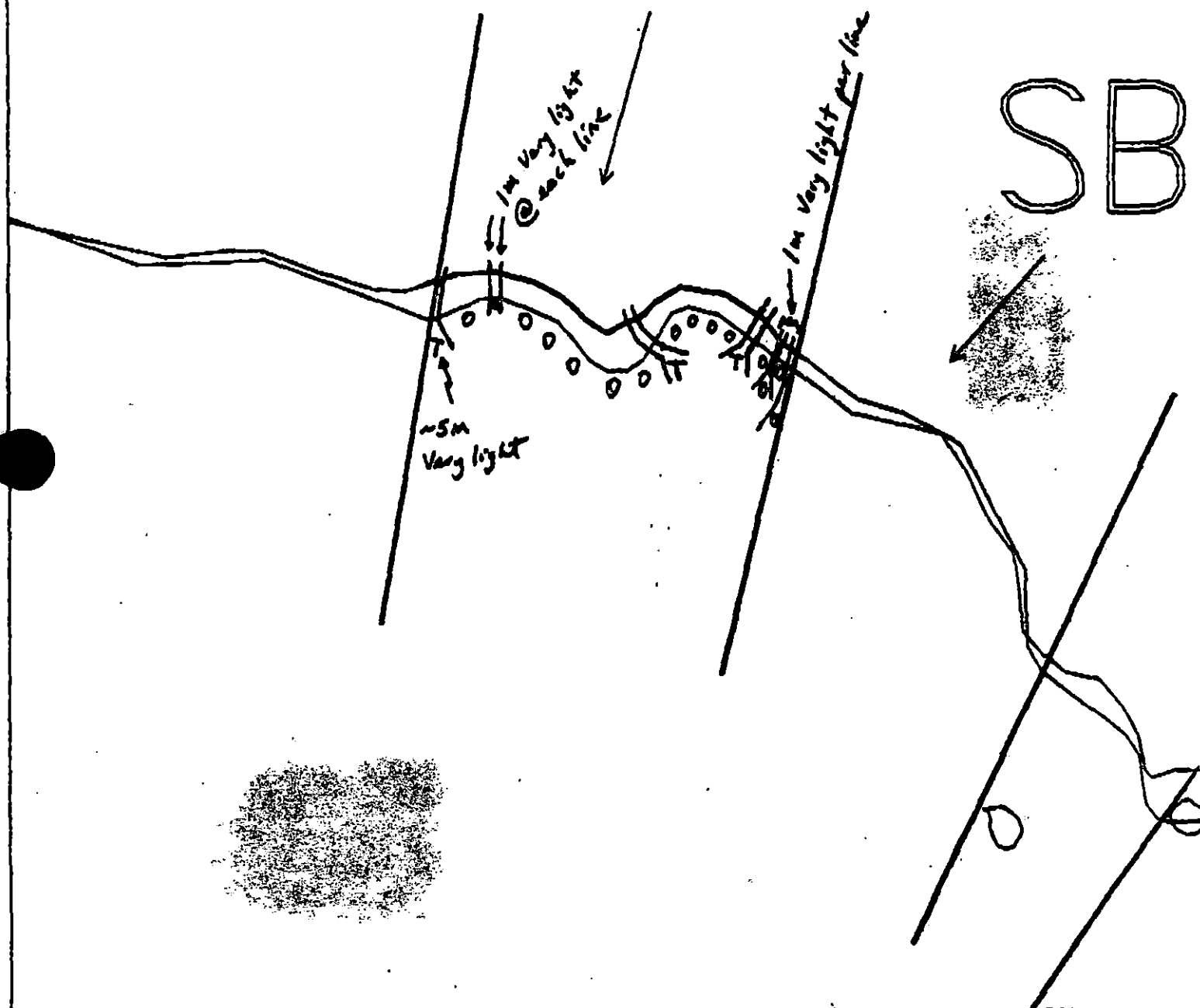
Name: _____

Date: _____

Data Entered: _____

SB-3

SB



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SB-3

ADEC Segment Length: 444m



Map Key: GOA-174

Name: G. Herman

Date: 5-8-90

Data Entered:

1991 MAYSAP EVALUATION

SEGMENT: K06208B004 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 3/1 - 9/1

Ecological/Constraints (see page two for details) Eagle nest

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: Timothy P. Smith Date: 6/07/91

RECOMMENDATIONS:

	INITIAL	TAG	FOSC
TREATMENT REQUIRED (Y or N)	<u>N</u>	<u>N</u>	<u>N</u>
Manual Pickup (Check as Req.)	<u> </u>	<u> </u>	<u> </u>
Spot Washing	<u> </u>	<u> </u>	<u> </u>
Bio-Customblen Only	<u> </u>	<u> </u>	<u> </u>
Bio-Inipol/Customblen	<u> </u>	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>	<u> </u>

COMMENTS:

INITIAL:

TAG:

FOSC:

TAG APPROVAL DATE: JUNE 7 1991

FOSC APPROVAL DATE: 6/11/91

ADEC John Bar

FOSC E. E. PAGE

EXXON Ed Maki

E. E. PAGE, CDR, USCG
CHIEF OF STAFF, FOSC

USCG Ed Maki

NOAA John Bar

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Eagle Nest: Access restricted from 3/1 to 9/1. USF&WS authorization required. Maintain 1000' vertical and 1/4 mile horizontal buffer.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT SB-4 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART ADECSIGNATURE Jiff Barnhart

- ☒ NTR Surveyed entire segment. Discovered Two logs with trace ST, CT.
No other oil located.

EXXON

NAME R. COULTER EXXONSIGNATURE Ray R. Coulter

- ☒ NTR No evidence of oiling found.

LANDMANAGER

NAME J. HARDISTEROF USFWSSIGNATURE J. P. Hardister

- ☒ NTR No oil observed.

USCG/NOAA

NAME CWO R. SPURR / S. SHIGENAKASIGNATURE R. Spurr / S. Shigenaka

- ☒ NTR No oiling found during survey

SURVEYED PORTION OF THE SEGMENT WAS A BEACH LOCATED BETWEEN TWO BOULDER/BEDROCK OUTCROPS IN SARDON BAY ON KOPIAK ISLAND. THE BEACH WAS SOUTHWEST OF A TIDAL LAGOON, AND DRIFT LOGS CHARACTERIZED SURFICIAL ALONG MUCH OF ITS LENGTH. A SET-NESTERS CABIN WAS SITUATED ABOVE THE SEGMENT. THE BEACH ITSELF APPEARED TO SHOW A GRADATION IN SUBSTRATE SIZE BOTH ACROSS AND DOWN. THAT IS, IT VARIED FROM PEBBLE-GRANULE AT ITS EASTERN END TO BOULDERS AT THE WEST, AND IN THE MIDDLE PORTION OF THE BEACH, FROM PEBBLES IN THE UITS TO COBBLES IN THE LOWER MITS. LITTORINA SITANA AND SCUTUATA SNAILS, MUSSELS, AND BARNACLES WERE PRESENT ON ROCKIER SUBSTRATE. NO OIL WAS OBSERVED ALONG THE SURVEYED SECTION OF SB-4A.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT SB-4 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART, ADEC SIGNATURE Jiff Barnhart

☒ NTR Surveyed entire segment. Discovered two logs with trace ST, CT. No other oil located.

EXXON

NAME R. COULTER, EXXON SIGNATURE _____

☐ NTR

LANDMANAGER

NAME J. HARDISTER OF USFWS SIGNATURE J. P. Hardister

☒ NTR No oil observed.

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKA SIGNATURE R. Spurr / G. Shigenaka

☒ NTR No oiling found during survey

SURVEYED PORTION OF THE SEGMENT WAS A BEACH LOCATED BETWEEN TWO BOULDER/BEDROCK OUTCROPS IN SPIRODON BAY ON KOPIAK ISLAND. THE BEACH WAS SOUTHWEST OF A TIDAL LAGOON, AND DRIFT LOGS CHARACTERIZED THE SUPRATIDAL ALONG MUCH OF ITS LENGTH. A SET-NETTERS CABIN WAS SITUATED ABOVE THE SEGMENT. THE BEACH ITSELF APPEARED TO SHOW A GRADATION IN SUBSTRATE SIZE BOTH ACROSS AND DOWN. THAT IS, IT VARIED FROM PEBBLE-GRANULE AT ITS EASTERN END TO BOULDERS AT THE WEST; AND IN THE MIDDLE PORTION OF THE BEACH, FROM PEBBLES IN THE UPTZ TO COBBLES IN THE LOWER MIZ. LITTORINA SITKANA AND SCUTUATA SNAILS, MUSSELS, AND BARNACLES WERE PRESENT ON ROCKIER SUBSTRATE. NO OIL WAS OBSERVED ALONG THE SURVEYED SECTION OF SB-4A.

DATE 29 / May / 91

ENERGY LEVEL: ☐ H ☒ M ☐ L

EST. OIL CATEGORY LENGTH: W _ m M _ m N _ m VL 1 m NO 335 m US _ m

SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAY8AP- 6 - 25 FRAMES 1+2

SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

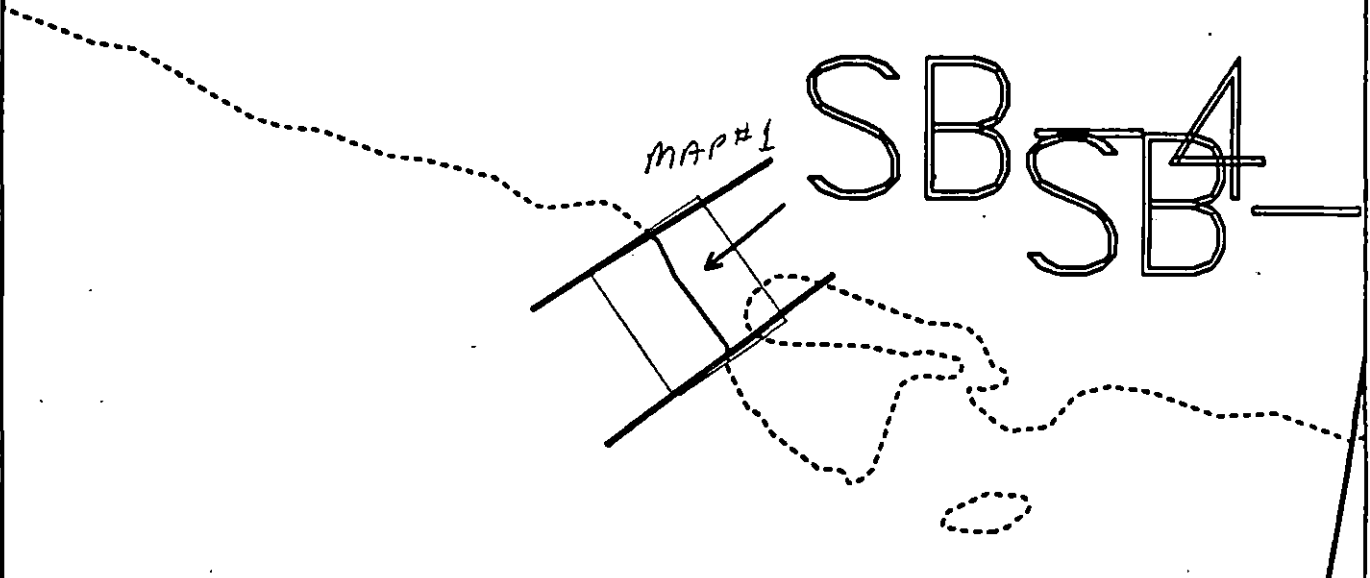
OG COMMENTS: This segment is located along the north-central shoreline of Spinidon Bay. This shoreline is the seaward side of a barrier beach which connects the mainland shore to a bedrock island. The beach is composed of cobbles, boulders and some finer-grained gravel and sand underlying the coarser components and comprising much of the beach face and low tide terrace. The only oiling found along this beach were CT/ST of two logs in the SUTZ.

REMARKS: MC 6/3/91

5

+

A



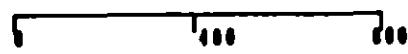
+

+



K0620 SB004 A

METERS



AK State Plane Zone 4

Subdivision Field Map

Map Key: 60400000000000000000

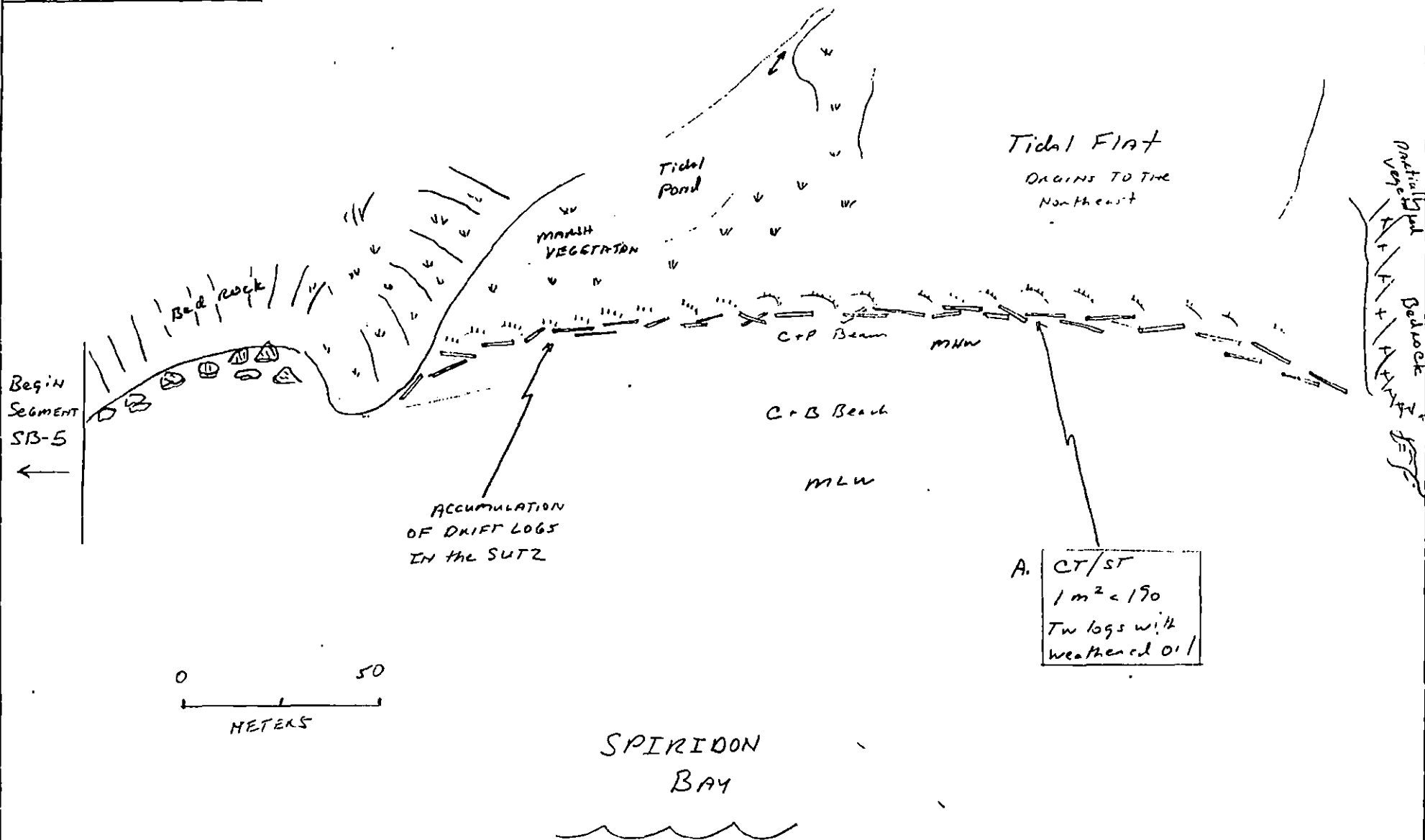
Name: D. Fitzgerald

Date: 29 MAY 1991

V V MARSH GRASS
 X T FORE DUNE
 Ridge
 LOGS
 PHOTO
 SITES

KODIAK ISLAND

Sketch P 06
 K06-20 SB-04-M
 DUNCAN M. FITZGERALD
 29 MAY 1991
 740-810



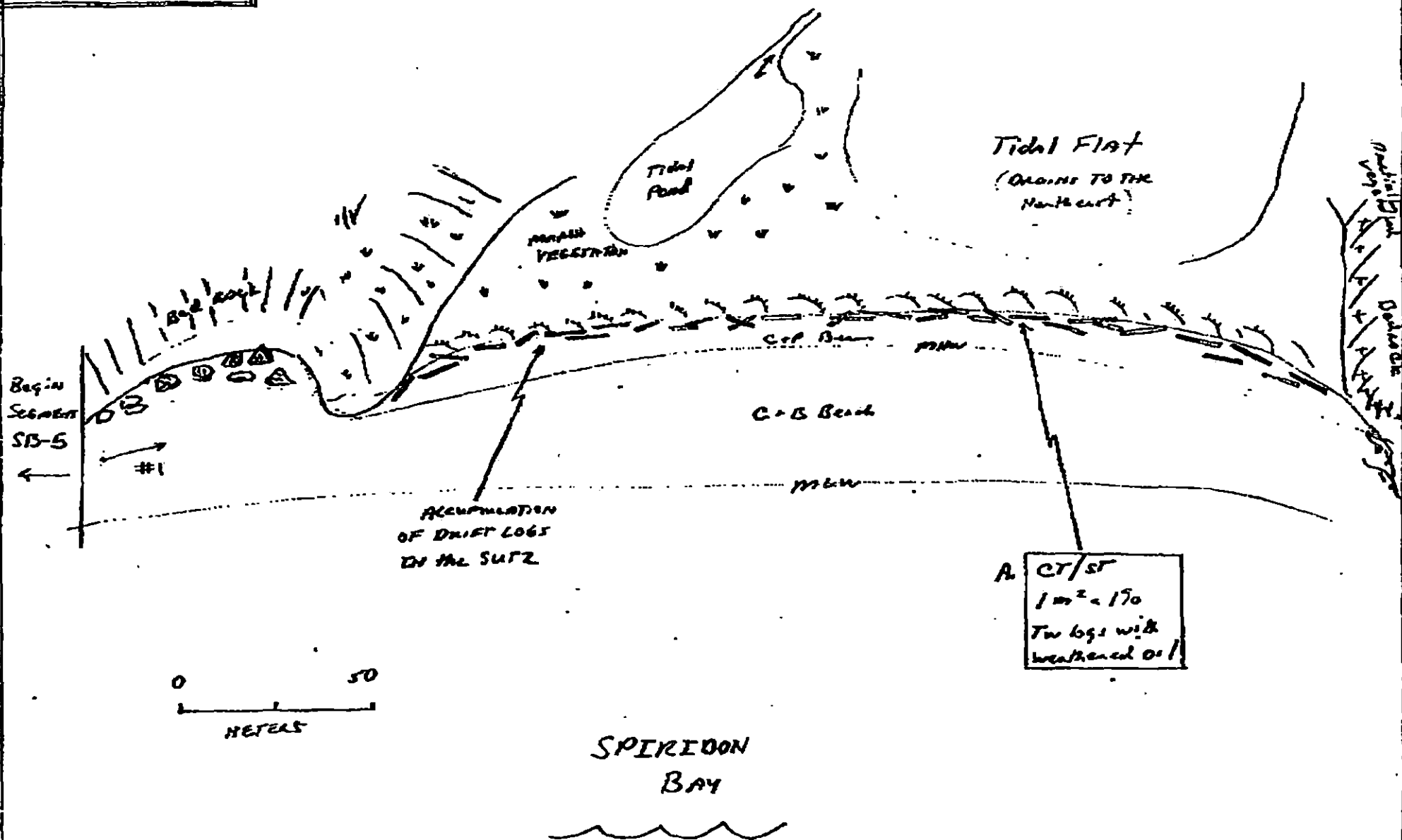
REVIEWED: MC 6/3/91

W V V MARSH GRASS
 7 7 7 DUNCAN
 Ridge
 LOGS
 PHOTO
 SITES

PHOTO SITE 08-4M
 ROLL 6-25 ME #1

KODIAK ISLAND

Sketch M 06
 K06-20 04-M
 DUNCAN M. F. F. F. F.
 29 MAY 1991
 740 - 810



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Hcls

DATE May 29 1991

SEGMENT # K06-20 SB-04

TIDAL HEIGHT(Range) 0-2 ft (730 - 830)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1 ft

WIND SPEED/DIRECTION 10 kts S

PHOTOGRAPHS: ROLL # 6-25

FRAME # 1+2

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

The only oil found on this segment was two stains on the drift logs piled at the top of the beach. At either end of the beach are rocky areas with a moderate cover of organisms. *Mytilus*, large barnacles (2cm *Balanus cariosus*), and *Fucus* provided most of the cover on the rocks. *Halosaccus*, *Scytosiphon*, green filamentous algae, *Littorines*, and *Anthopleura artemesia* were also present. On the beach below the logs some very sparse *Littorines*, barnacles, and *Fucus* were growing on small pebbles. Most of the barnacles in the area were "shedding" and spall had settled in the last three days.

Glaucous-winged Gull (8) Kittiwakes (4) Sparrows Song/Goldencrowned (3)

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	0		
Gulls/Kittiwakes	2	12	
Shorebirds	0		
Corvids	0		
Other Birds Sparrows	2	3	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	1	Fox	1
Pinnipeds (specify)		Deer Tracks/scat	
Harbor Seal	2		
Seals (specify)	0		

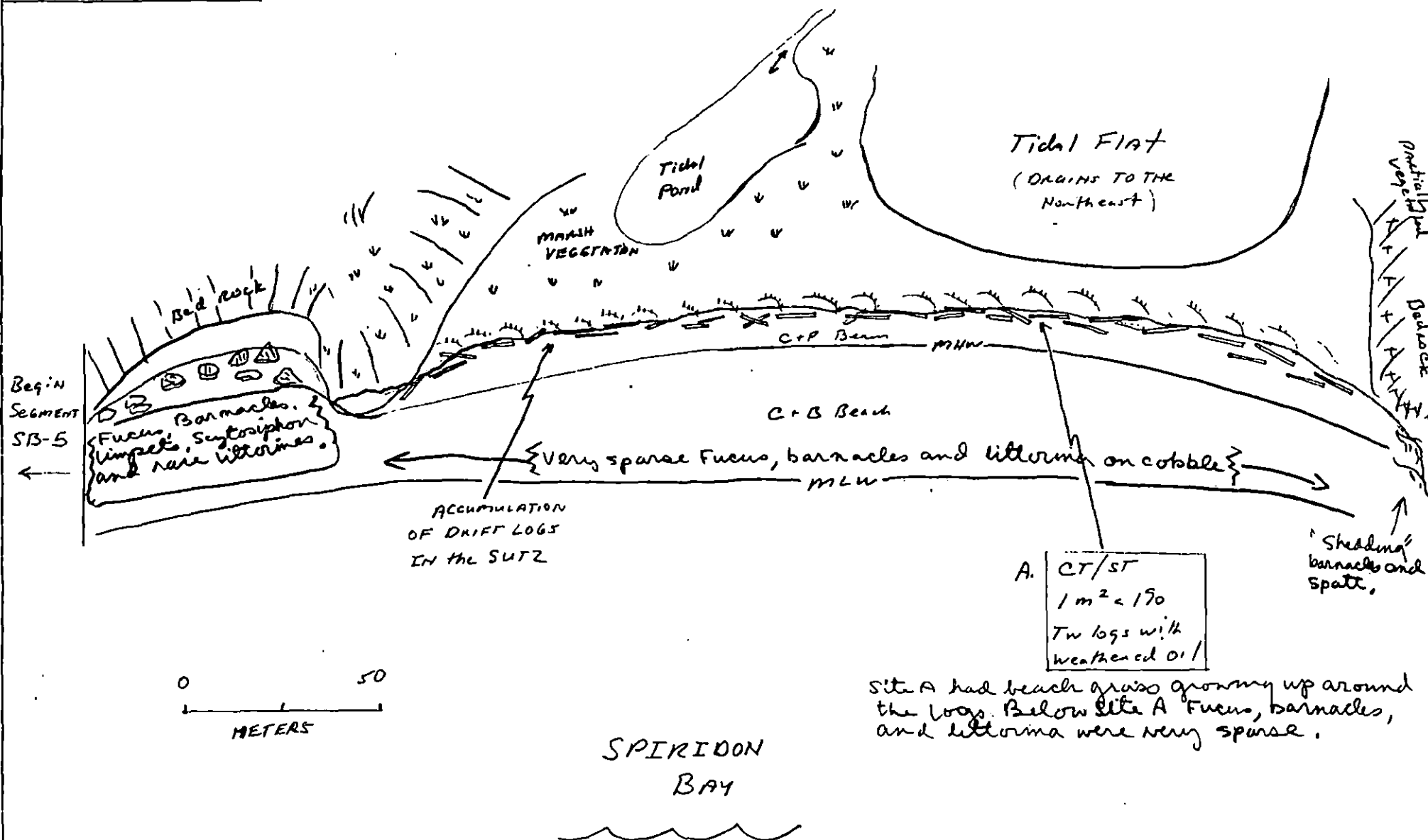
Shoreline subdivision map showing important biological features attached.

V V V MARSH GRASS
 T T T ONE DUNE
 Ridge
 LOGS
 PHOTO
 SITES

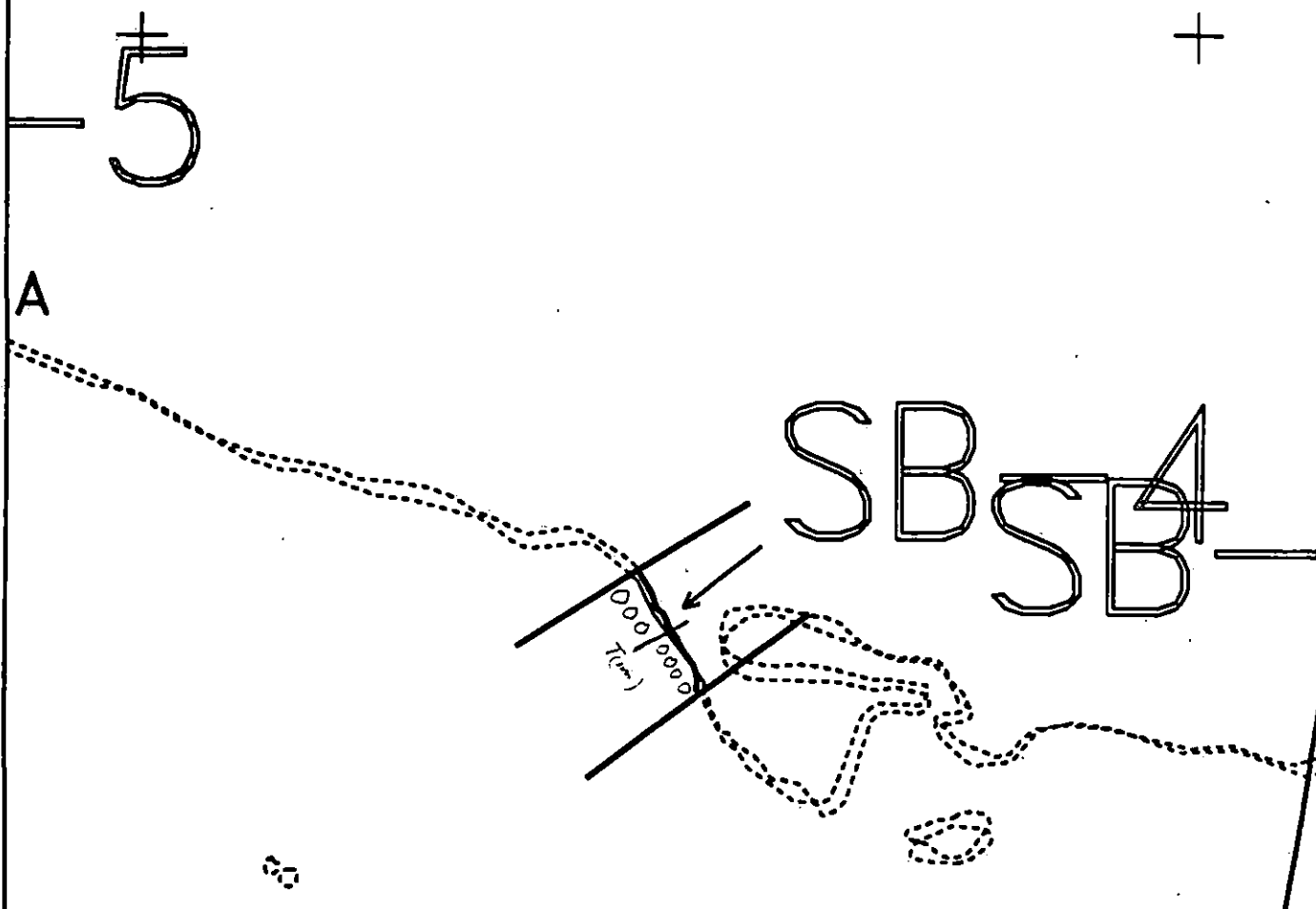
KODEAK ISLAND

Big Map
 H. DAVIS

Sketch Map 06
 K06-2 SB-04-M-
 DUNCAN M. FITZGERALD
 29 MAY 1991
 740-810



Site A had beach grass growing up around the logs. Below Site A Fuco, barnacles, and littorina were very sparse.



XXXX	Wide	K0620 SB004 A	Subdivision Field Map
////	Medium	ADEC Subsegment Length: 330m	Map Key: 60AK0020SB004A
----	Narrow	METERS	Name: <u>D. FitzGerald</u>
TTTT	Very Light	0 400 800	Date: <u>29 May 1991</u>
0000	No Oil	AK State Plane Zone 4	Data Entered:
		90620sb004a- . . .	



Reviewed: MC 6/3/91

1991 MAYSAP EVALUATION

SEGMENT: K06208B004 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 3/1 - 9/1

Ecological/Constraints (see page two for details) Eagle nest

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: _____

Date: _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: _____

TAG: _____

FOSC: _____

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC _____

FOSC _____

EXXON _____

USCG _____

NOAA _____

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Eagle Nest: Access restricted from 3/1 to 9/1. USF&WS authorization required. Maintain 1000' vertical and 1/4 mile horizontal buffer.

TEAM NO. 6-HELO SEGMENT SB-A SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART ADEC

SIGNATURE

Jeff Barnhart

- ☒ NTR Surveyed entire segment. Discovered two logs with trace ST, CT. No other oil located.

EXXON

NAME R. COULTER EXXON

SIGNATURE

Ray R. Coulter

- ☒ NTR No evidence of oiling found.

LANDMANAGER

NAME J. HARDISTEROF USFWS

SIGNATURE

J. P. Hardister

- ☒ NTR No oil observed.

USCG/NOAA

NAME CWO R. SPUR/E. SHIGENAKA

SIGNATURE

R. Spurr / E. Shigenaka

- ☒ NTR No oiling found during survey

SURVEYED PORTION OF THE SEGMENT WAS A BEACH LOCATED BETWEEN TWO BOULDER/BECK OUTCROPS IN SPIRODON BAY ON KODIAK ISLAND. THE BEACH WAS SOUTHWEST OF A TIDAL LAGOON, AND DRIFT LOGS CHARACTERIZED THE SURFICIAL ALONG MUCH OF ITS LENGTH. A SBT NETTERS CABIN WAS SITUATED ABOVE THE SEGMENT. THE BEACH ITSELF APPEARED TO SHOW A GRADATION IN SUBSTRATE SIZE BOTH ACROSS AND DOWN. THAT IS, IT VARIED FROM FINE GRANULES AT ITS EASTERN END TO BOULDERS AT THE WEST; AND IN THE MIDDLE PORTION OF THE BEACH, FROM PEBBLES IN THE MIDDLE TO COBBLES IN THE LOWER MIDDLE. LITTORINA SITANA AND SCUTULATA SNAILS, MUSSELS, AND BIVALVES WERE PRESENT ON ROCKIER SUBSTRATE. NO OIL WAS OBSERVED ALONG THE SURVEYED SECTION OF SB-4A.

ADEC

NAME J. BARNHART ADEC SIGNATURE Jiff Barnhart

☒ NTR Surveyed entire segment. Discovered Two logs with trace ST, CT.
No other oil located.

EXXON

NAME R. COULTER EXXON SIGNATURE _____

☐ NTR

LANDMANAGER

NAME J. HARDISTER OF USFWS SIGNATURE J. P. Hardister

☒ NTR No oil observed.

USCG/NOAA

NAME CWO R. SPURR/6. SHIGENAKA SIGNATURE R. Spurr / G. Shigenaka

☒ NTR No oiling found during survey

SURVEYED PORTION OF THE SEGMENT WAS A BEACH LOCATED BETWEEN TWO BOULDER/BEDROCK OUTCROPS IN SPIRODON BAY ON KODIAK ISLAND. THE BEACH WAS SOUTHWEST OF A TIDAL LAGOON, AND DRIFT LOGS CHARACTERIZED THE SUPERFICIAL ALONG MUCH OF ITS LENGTH. A SET-NETTERS CABIN WAS SITUATED ABOVE THE SEGMENT. THE BEACH ITSELF APPEARED TO SHOW A GRADATION IN SUBSTRATE SIZE BOTH ACROSS AND DOWN. THAT IS, IT VARIED FROM PEBBLE-GRANULE AT ITS EASTERN END TO BOULDERS AT THE WEST; AND IN THE MIDDLE PORTION OF THE BEACH, FROM PEBBLES IN THE UITS TO COBBLES IN THE LOWER MITS. LITTORINA SITKANA AND SCUTUATA SNAILS, MUSSELS, AND BARNACLES WERE PRESENT ON ROCKIER SUBSTRATE. NO OIL WAS OBSERVED ALONG THE SURVEYED SECTION OF SB-4A.

SUBDIVISION m

DATE 29 / May / 91

ENERGY LEVEL: ☐ H ☒ M ☐ L

WEATHER: ☐ SUN ☒ CLOUDS ☐ FOG ☒ RAIN ☐ SNOW

NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST. OIL CATEGORY LENGTH: W m M m N m VL / m NO 335 m US m

[illegible]

DISTRIBUTION: C = 91-100%; B = 61-90%; P = 11-50%; S = 1-10%; T = <1%

SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE

PHOTO ROLL # MAYSAP-

6-25

FRAMES 1+2

[illegible]

SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

OG COMMENTS: This segment is located along the north-central shoreline of Spinidon Bay. This shoreline is the seaward side of a barrier beach which connects the mainland shore to a bedrock island. The beach is composed of cobbler, boulders and some finer-grained gravel and sand underlying the coarser components and comprising much of the beach face and low tide terrace. The only oiling found along this beach were OT/ST of two logs in the SUTZ.

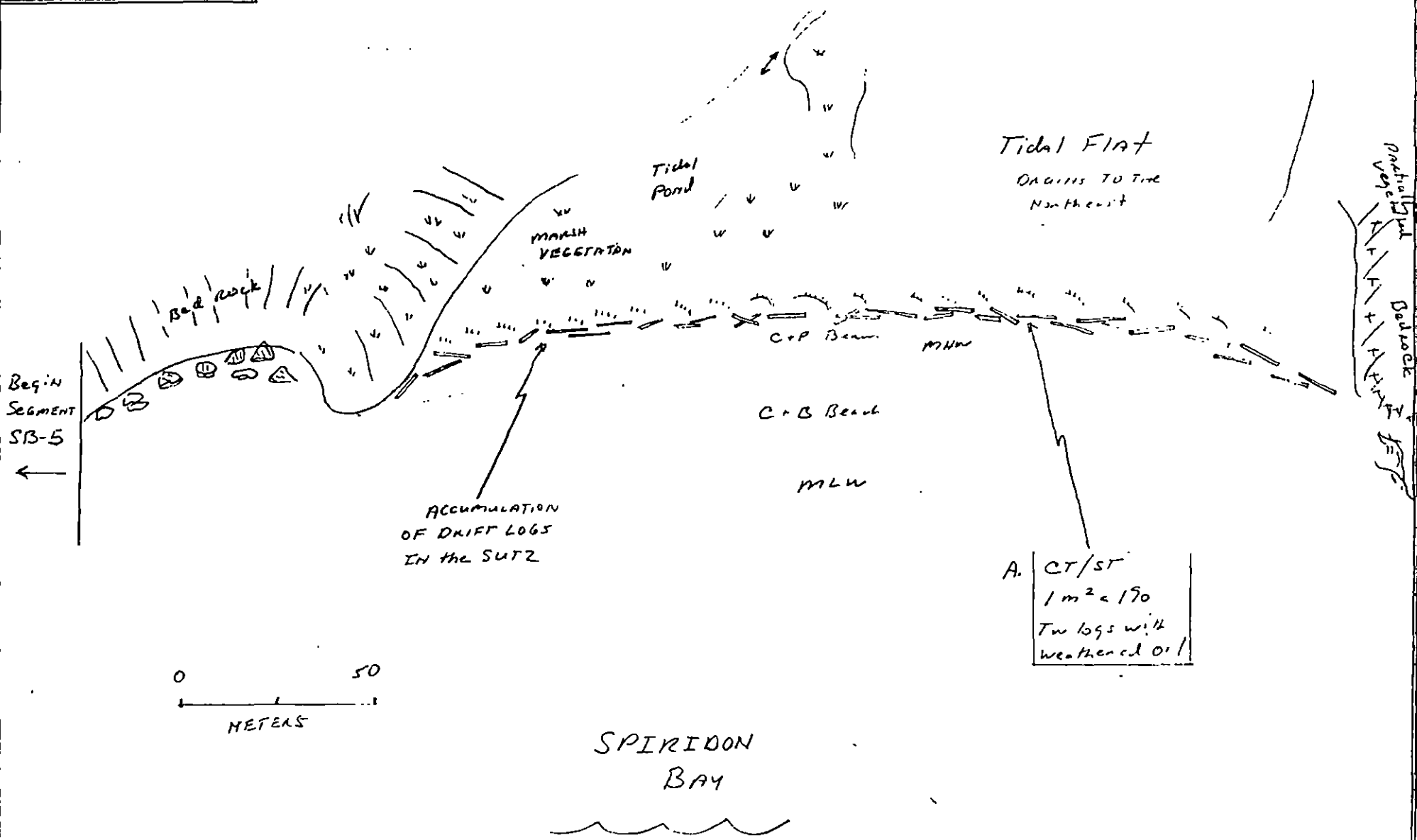
RECEIVED: MC 6/3/91

Date: 29 MAY 1991

-  MARSH GRASS
-  FORE DUNE Ridge
-  LOGS
-  PHOTO SITES

KODEAK ISLAND

Sketch MAP 06
K06-20-SB-04-M
DUNCAN M. FITZGERALD
29 MAY 1991
740-810

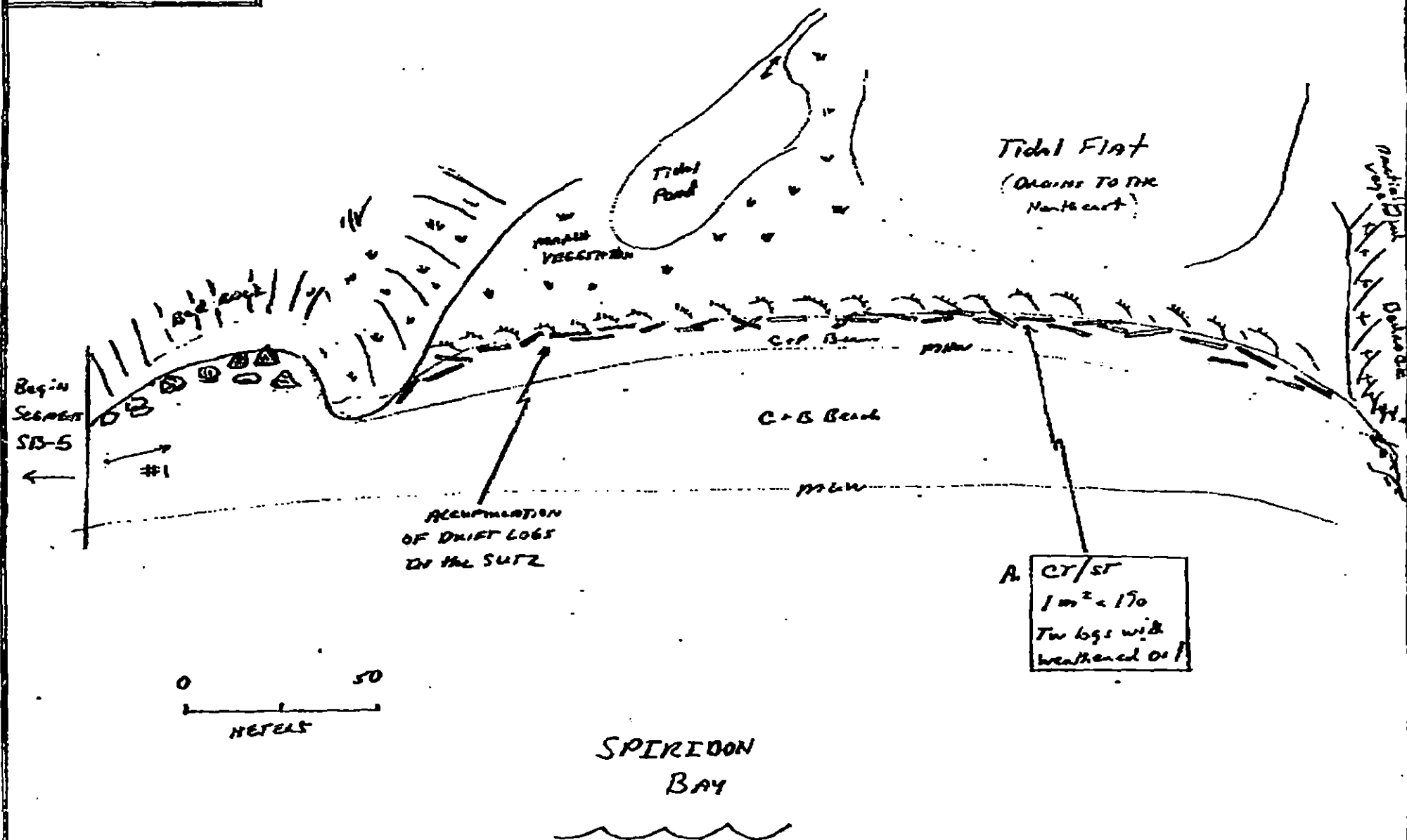


W V V MARSH GRASS
 SAC DUNE
 Ridge
 LOGS
 PHOTO
 SITES

PHOTO SITE SB-4M
 ROLL 6-2 FRAME #1

RODEAR ISLAND

Sketch P 06
 K06-2 B-04-M
 DUNCAN M. FITZGERALD
 29 MAY 1991
 740-810



MAISAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Hela

DATE May 29 1991

SEGMENT # K06-20 SB-04

TIDAL HEIGHT(Range) 0-2ft (730-830)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1ft

WIND SPEED/DIRECTION 10 Kt S

PHOTOGRAPHS: ROLL # 6-25

FRAME # 1+2

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

The only oil found on this segment was two stains on the drift logs piled at the top of the beach. At either end of the beach are rocky areas with a moderate cover of organisms. *Mytilus*, large barnacles (2cm *Balanus cariosus*) and *Fucus* provided most of the cover on the rocks. *Halosaccus*, *Scytosiphon*, green filamentous algae, littorines, and *Anthopleura artemesia* were also present. On the beach below the logs some very sparse littorines, barnacles, and *Fucus* were growing in small patches. Most of the barnacles in the area were "shedding" and spall had settled in the last three days.

Glaucous-winged Gull (8) Kittiwakes (4) Sparrows Song/Goldcrowned (3)

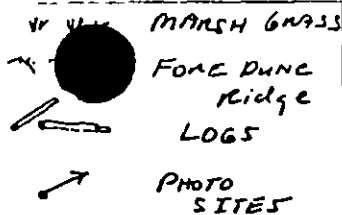
WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	0		
Gulls/Kittiwakes	2	12	
Shorebirds	0		
Corvids	0		
Other Birds Sparrows	2	3	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	1	Fox	1
Pinnipeds (specify)		Deer Tracks/scat	
Harbor Seal	2		
Whales (specify)	0		

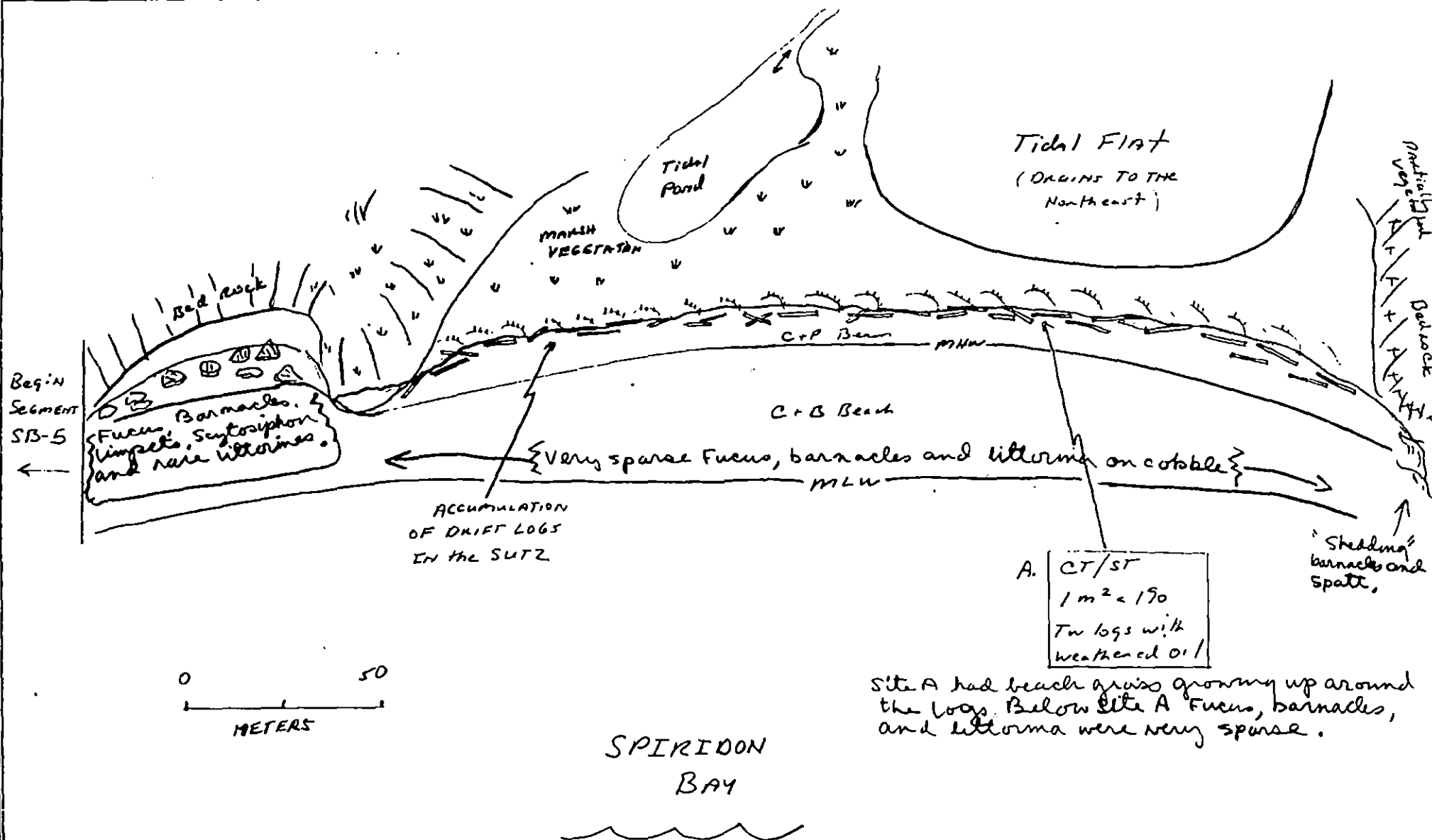
Shoreline subdivision map showing important biological features attached.



KODIAK ISLAND

Big Map
H. Davis

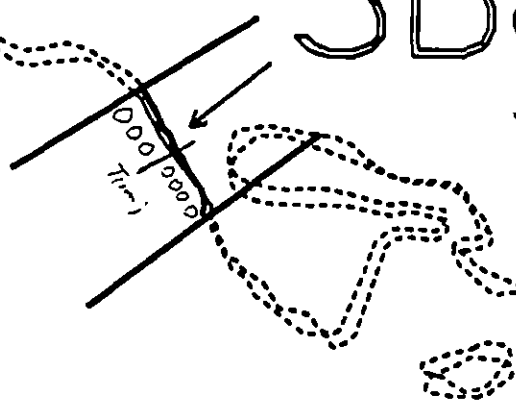
Skel MAP 06
 K06-20-SB-04-M
 DUNCAN M. FITZGERALD
 29 MAY 1991
 740-810



5

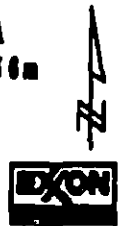
A

SB SB4



XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

K0620 SB004 A
 ADEC Subsegment Length: 336m
 METERS
 0 400 800
 AK State Plane Zone 4
 60620 SB004A



Subdivision Field Map
 Map Key: 60AK60620SB004A
 Name: D. Fitzgerald
 Date: 29 MAY 1991
 Date Entered:

Reviewed: MC 6/3/91

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-005 SUBDIVISION A (1 OF 1) DATE 5/12/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
5R Seabird colony (5/1 to 9/1)
5T(2) All Bald Eagle nests (3/1 to 6/1): Active Bald Eagle nests (3/1 to 9/1)
5S Shorebird/waterfowl concentration (4/1 to 5/15)
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Jean Davis DATE: 5/25/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1472 m: No Oil 2287 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☒ No Treatment Recommended	☐ Snare/Absorbent Booms
☐ Treatment Recommended	☐ Oil Snares (pom poms)
☐ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: <u> </u> Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90
ADEC Art Weimer
EXXON Andy Tan
NOAA Bull Weimer
USCG Mr. J. Hall

FOSC: [Signature] DATE: 6/4/90

SKE MAP

3/10/90
SEGMENT ST/ 54-5

DIVISION R

DATE May 12 90

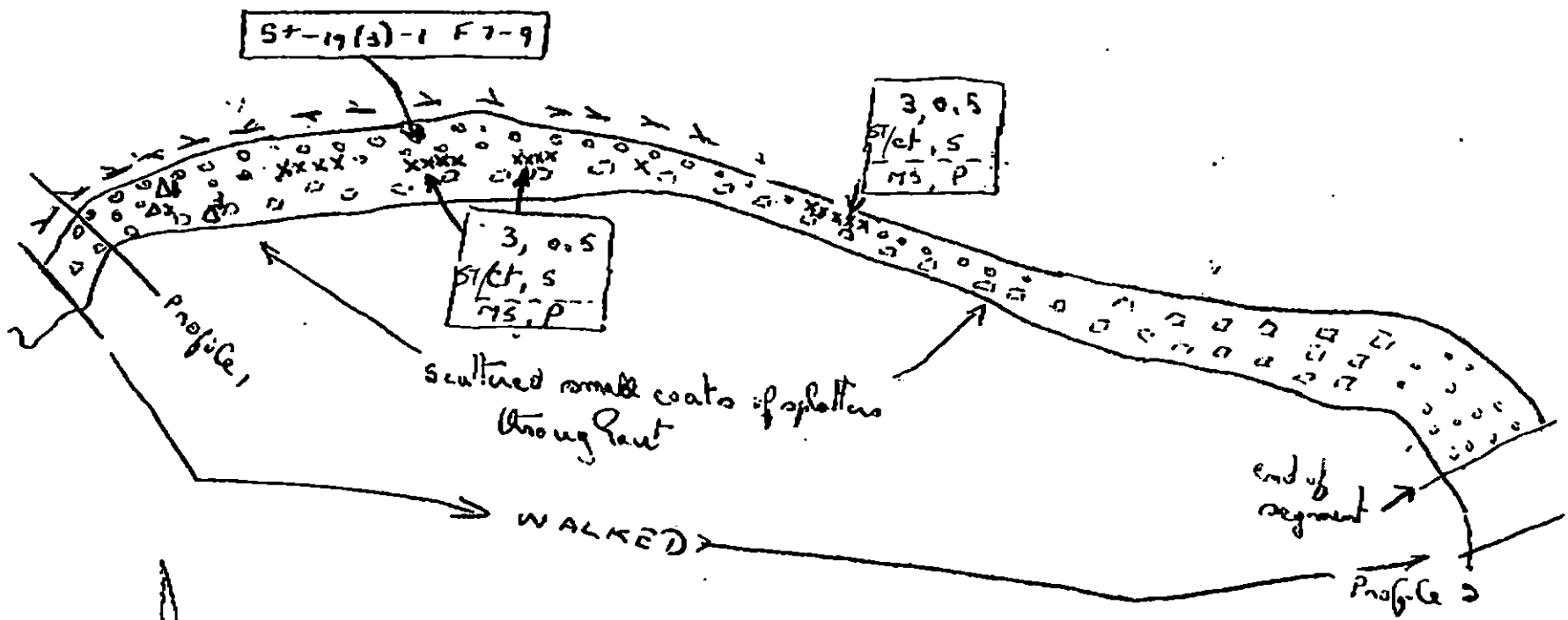
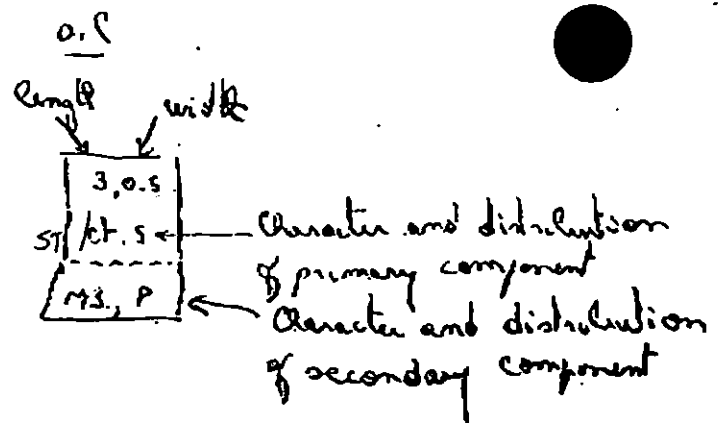
CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Entry
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. HML/LVL
- SSI
- Profile Location(s)
- Profile(s)
- Pt Location(s)
- Photo Location(s)

LEGEND

- 1 Δ No Subsurface Oil
- 2 Δ Subsurface Oil
- CT/C Continuous Distribution
- CT/B Broken Distribution
- CT/P Patchy Distribution
- CT/S Flecked Distribution
- eee Red Vegetation
- 1 → Note location, direction, and number

- Legend:
- Pebble / gravel
 - Cobble / Boulder
 - log / wood drift
 - stains / coats of splatters

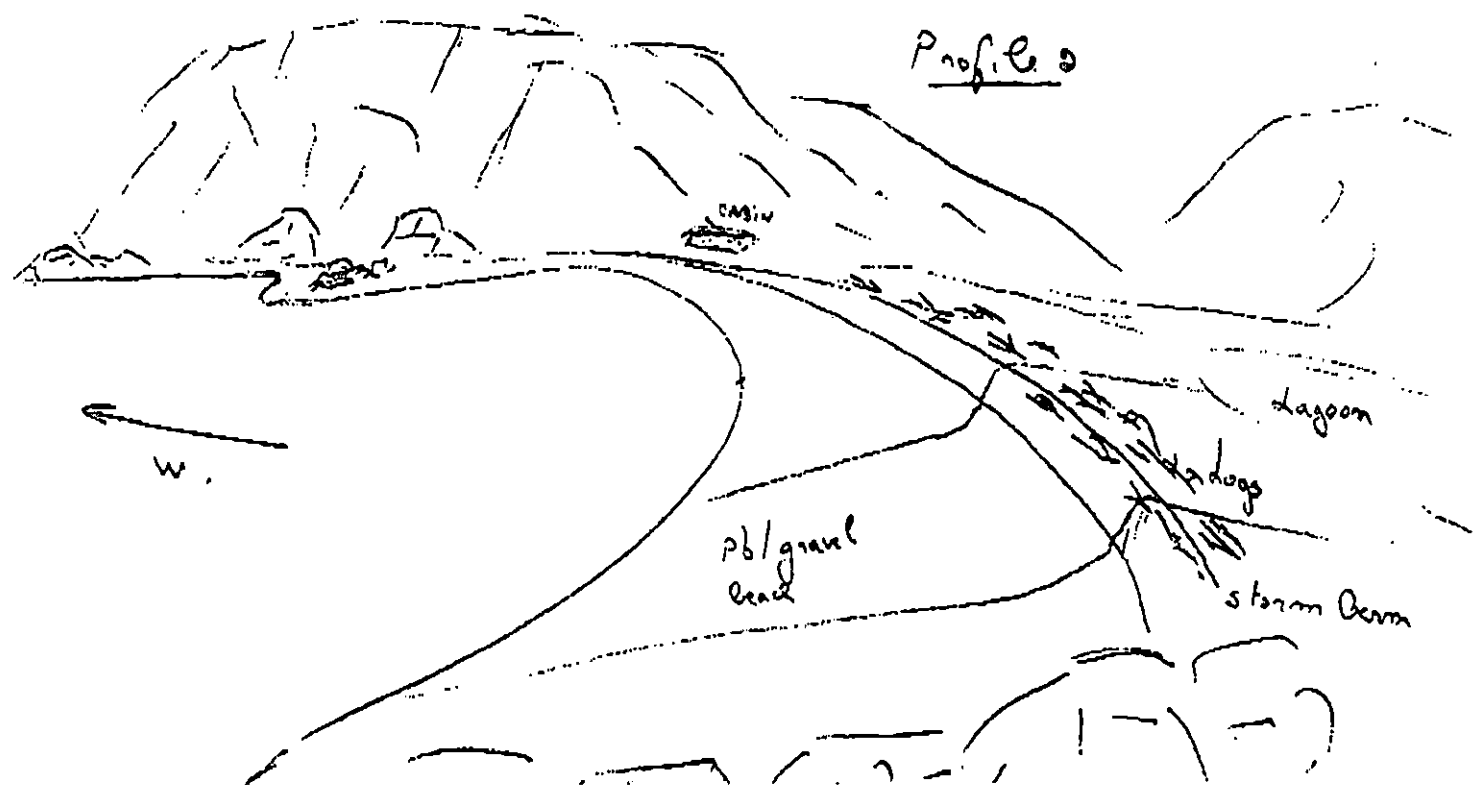
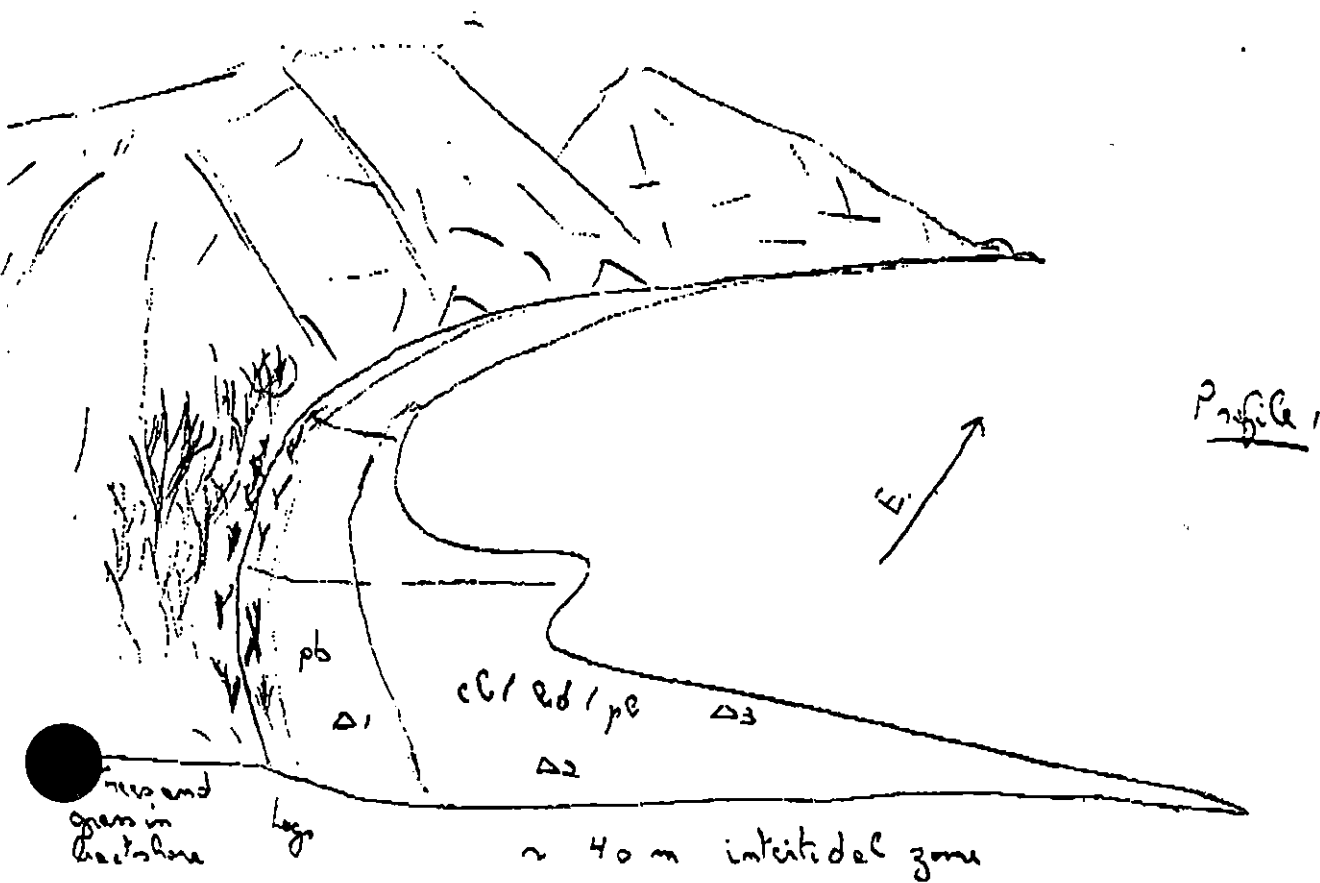


Character Length (m): AP ☐ PO ☐ CV ☐ CT 1000 ST 1000 MS 4 PT ☐ TB ☐ FL ☐ NO 2730

REVISION 02/04/90

Segment SA-5 May 12, 1990.

Geom. Trench Samples



ECOLOGY MAP

(4 of 4)

SB-5

(Page 6 of 6)

See map 1.

SB-4

SB-

← GOA
245C

SB-5

XXX Wide

//// Medium

--- Narrow

TTTT Very Light

ADEC Segment Length: 3759m

0 100 200 300

Map Key: GOA-245d

Name: _____

Date: _____

Not Colored.

ECOLOGY MAP

(3 of 4)

SB-5

(Page 5 of 6)

See map 1.

ACTIVE EAGLE NEST (INCUBATING)

← GOA
2450GOA
2450 →

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245c

Name: _____

Date: _____

SB-5

Ecology Map

(2 of 4)

SB-5

(Page 4 of 6)

See map 1.

← GOA
245AGOA
245C →

SB-5

XXX Wide

/// Medium

--- Narrow

TTTT Very Light

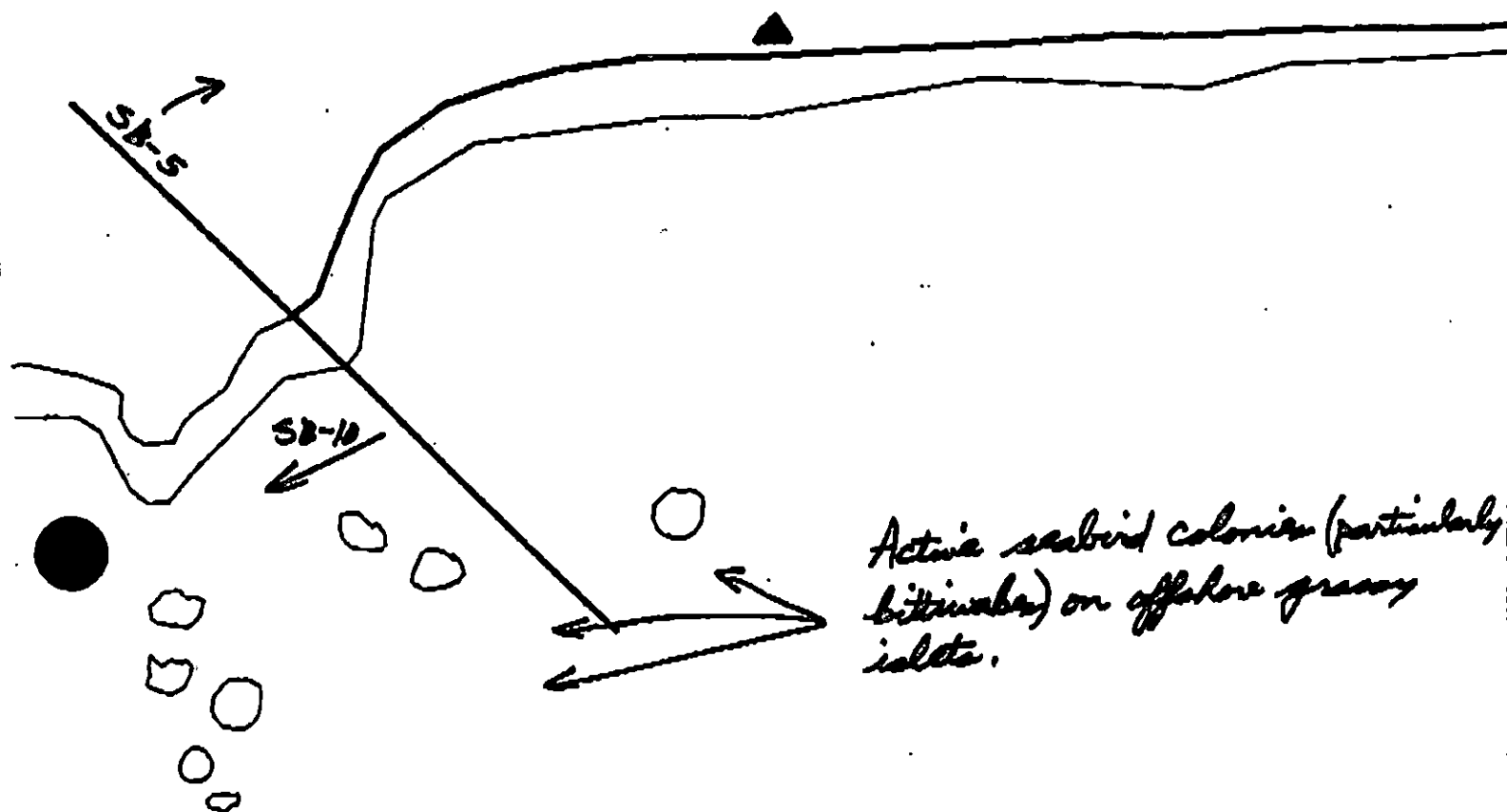
ADEC Segment Length: 3759m

Map Key: GOA-245b

Name: _____

Date: _____

ACTIVE EAGLE NEST (INCUBATING)



ECOLOGY MAP

SB-5

(1 of 4)

(Page 3 of 4)

ST - Active bald eagle nest (2)
(3/1 → 4/1).

ZZ - Subantarctic salmon
harvesting (June → Sept.).

GOA
2458 →

XXX Wide

//// Medium

---- Narrow

TTTT Very Light

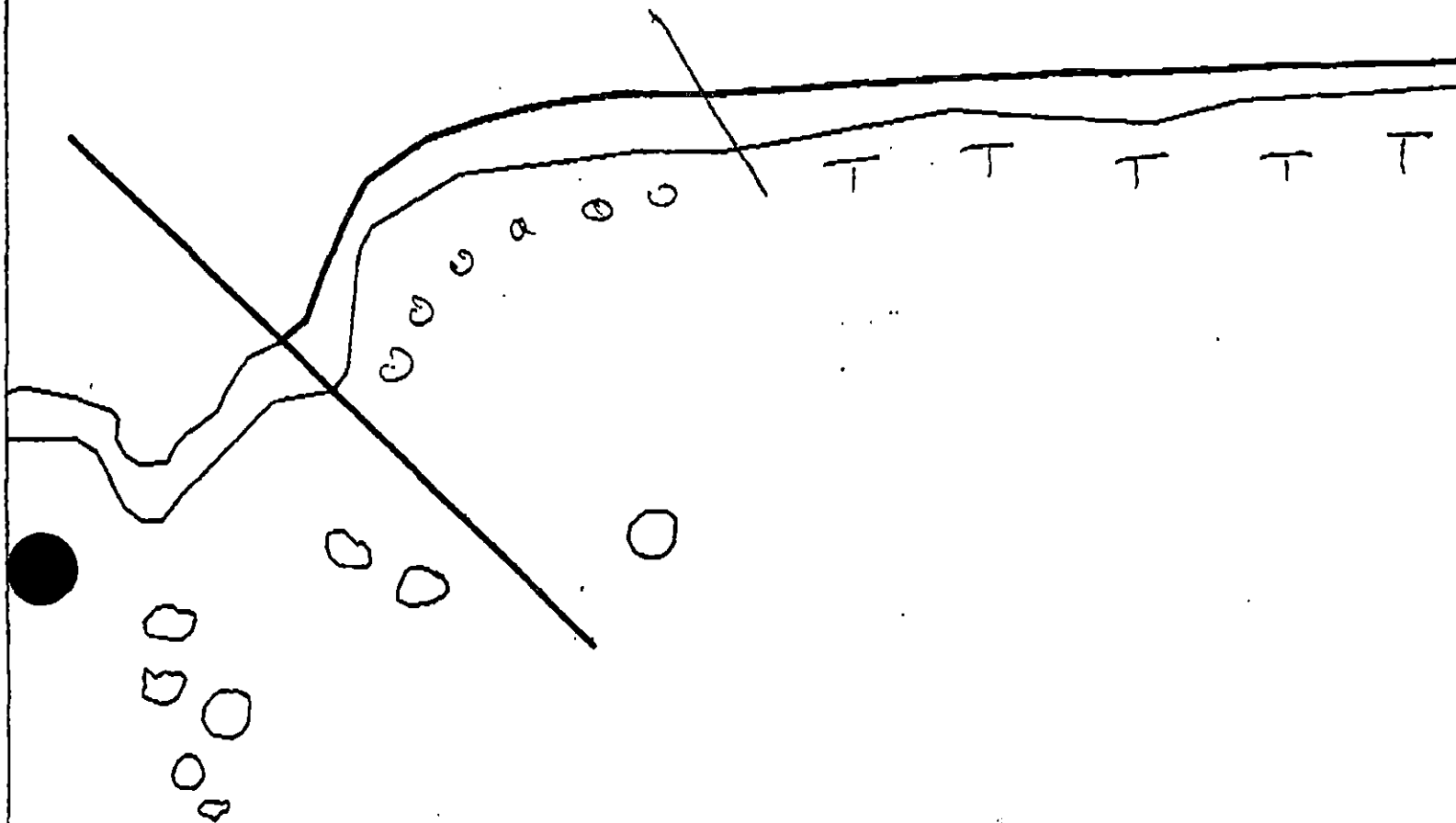
SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245a

Name: _____

Date: _____



GOA
245B-7

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0620 — SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245a

Name: John Marie SempalaDate: May 12/90

SB-5

T T T T T T T

B B B B

← GOA
245AGOA
245C →

XXXX Wide

//// Medium

---- Narrow

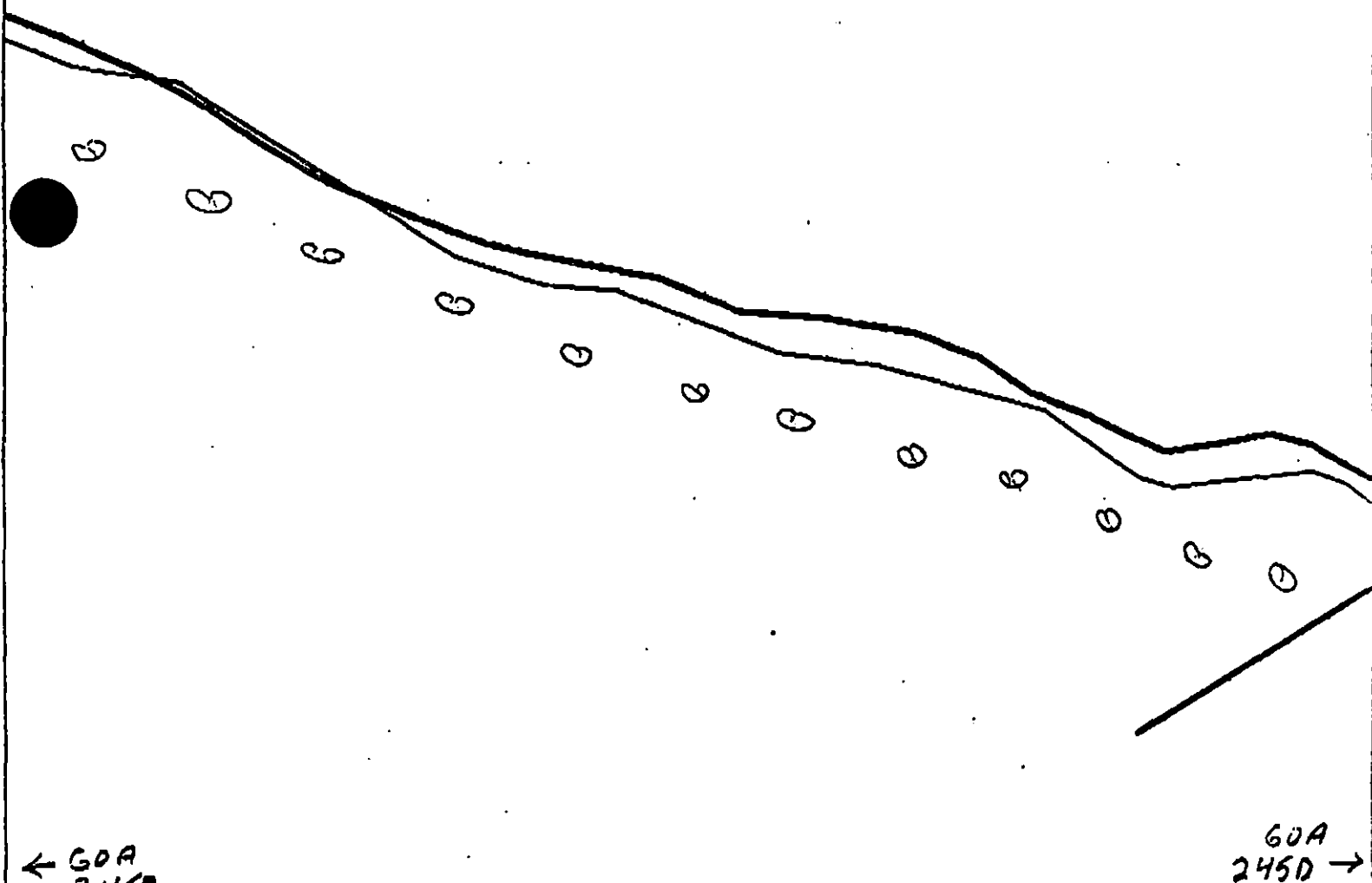
TTTT Very Light

K0620 - SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245b

Name: John T. SenfDate: May 12/90



XXX Wide
/// Medium
--- Narrow
TTTT Very Light

K0620-SB-5

ADEC Segment Length: 3759m

0 100 200 300

Map Key: GOA-245c

Name: James M. Stiefel

Date: May 12/90

SB-4

SB-

← GOA
245C

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0620-SB-5

ADEC Segment Length: 3759m



Map Key: GOA-245d

Name: Jean-Marie Sengul

Date: May 12/90

REGION: KODIAK

SEGMENT: ST/K06-20-SB-005

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-20-SB-005 SUBDIVISION A (1 OF 1) DATE 5/12/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
5R Seabird colony (5/1 to 9/1)
5T(2) All Bald Eagle nests (3/1 to 6/1): Active Bald Eagle nests (3/1 to 9/1)
5S Shorebird/waterfowl concentration (4/1 to 5/15)
3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
30, 3Q Harbor seal and seal lion molting (8/15 to 9/15)
4QQ State Marine Park National Wildlife Refuge
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1472 m: No Oil 2287 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
East side Kodiak, East side Afognak (7/4 to 10/1)
- 1K Purse seine hook-off
1L Set net sites
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- Harbor seal and sea lion pupping (5/10 to 7/1)
Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31).
Contact ADF&G and USFWS prior to treatment for confirmation.
AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
ADF&G Don Calkins 267-2403
- SR Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- SS Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Roth 267-2206
- ST All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
6V Anchorages (6/1 to 9/15)
6W Forest Service cabins (6/1 to 9/15)
6X Lodge (6/1 to 9/15)
6Y Special use destination
- YZ Subistence area: Salmon harvesting (6/1 to 9/30)
Finfish harvesting
Deer harvesting (6/1 to 1/7)
Invertebrate harvesting
Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K6-20 5A-5 SUBDIVISION: A DATE MAY 12/90

~~NOAA~~
~~USCG~~

NAME STEPHEN LEHMAN SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Agree with ADEC

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Coat and stain occur sporadically in the western portion of the segment. Recoverable oil occurs as interstitial mousse/sediment between boulders and cobbles in three 3m x 0.5m areas. Because of the very small amount of recoverable oil and the presence of 2 active eagle nests, no treatment is recommended.

LAND MANAGER

NAME OTTO F. CIPICINUTZ SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

in agreement with above - see Attachment No. 2

Attachment 2
U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately 'clean' or 'restored' for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

SHORELINE OILING SUMMARY

REVISION NO. 04-13-90

OG Jean Marie Samples USCG Stephen Lehmann SEGMENT ST/ SB-5
 NO Lewis Shannon LAND REP Off. Fleishberg SUBDIVISION A (1 OF 1)
 EXXON - ADEC Terry Powers TIME 08:13 to 10:19
 TEAM NO. 19 TIDE LEVEL +14.5' to -1.0' DATE 12/05/90
 EST. SUBDIVISION LENGTH: 3734 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 2 % B 10 % C 20 % P 40 % G 20 % S 8 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 1000 m NO 3734 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	R	P	S	1	2	3	4	5	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL													

PAVEMENT H F S 10 sq. m by 10 cmPATTIES / TARBALLS 10 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE -#BAGS 0

Photographs:

Roll No. ST-19 (III) -1Frames 7-9

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	DEEP (Y/N)	T	SURFACE-SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UO	1	2	3	4	5	SU	U	M	U				
1	30					X	0-0		X							X						ph/cr
2	30					X	0-0		X							X						"
3	90					X	0-0		X							X						"

COMMENTS

REVIEWED BAT DATE 16 MAY 90

SB-5, Spiridon Bay, May 12, 1990

SB-5 is a 3.7 km long segment located on the northwestern shore of Spiridon Bay on southwestern Kodiak Island. Although this section has a relatively large fetch window, its location on the northwestern side of a large bay restricts the maximum wave energy it can receive from the west and southwest. This segment was observed on May 12, between 0813h and 1030h and corresponding +4.5' to -1.0' tidal elevations.

At its western extremity, the shore consists of a gently sloping pebble/cobble/gravel/cobble beach backed by a low (0.5 m) unconsolidated, grassy bluff. At this location, the shoreline shows a relatively well defined segregation of sediments in profile with the coarser fraction restricted to the lower and middle intertidal zones, and the pebble/gravel fraction making up the upper intertidal zone, including a well defined, low storm berm. The area between this storm berm and the backshore bluff includes many logs and pieces of driftwood of all sizes, including a few oiled stained ones. Alongshore, the beach shows several gradual changes towards the east: 1: the backshore bluff increases in height and becomes bedrock cliffs near the eastern extremity of the segment, 2: the intertidal zone itself becomes narrower and steeper, and 3: sediments become coarser to the east, although a few small poorly defined areas of finer (pebble/gravel/sand) sediments do occur. The segment ends towards the east in a very uniform westerly facing beach of well sorted pebble/gravel/sand. At this location, the beach is obviously exposed to a higher wave energy climate as it shows a well defined steep storm berm with abundant log and driftwood debris in front of a small lagoon.

Oil occurs along this segment as 1: very few small stains and coats of splatters on coarse sediments in the lower part of the upper intertidal

zone, 2: three small areas, 3 m long by 0.5 m wide each, of discontinuous small (15 to 20 cm maximum diameter) patches of weathered mousse/sediment mixtures at the base of and between boulders and cobbles in the western and central part of the segment, and 3: as very few stains on logs and other pieces of driftwood.

3 from 2 in 1

SKETCH MAP

SEGMENT ST/ 513-5

DIVISION A

DATE May 11 90

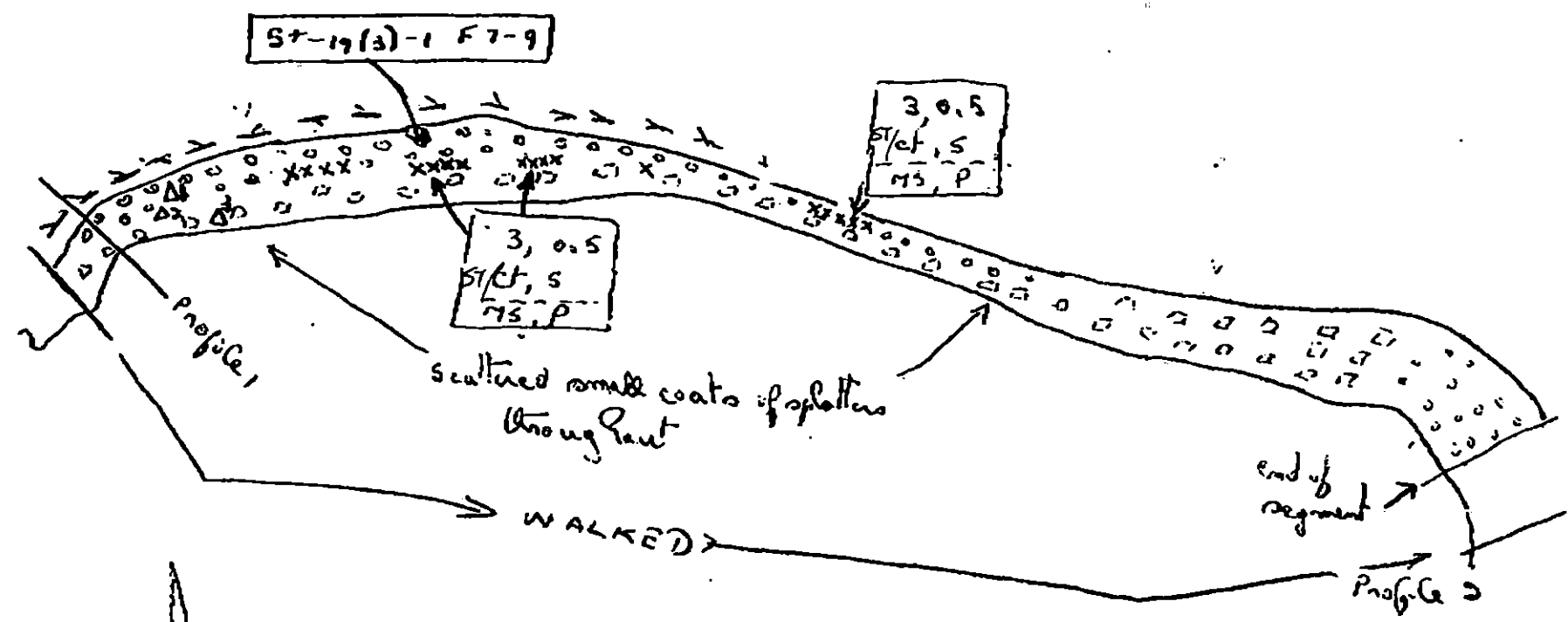
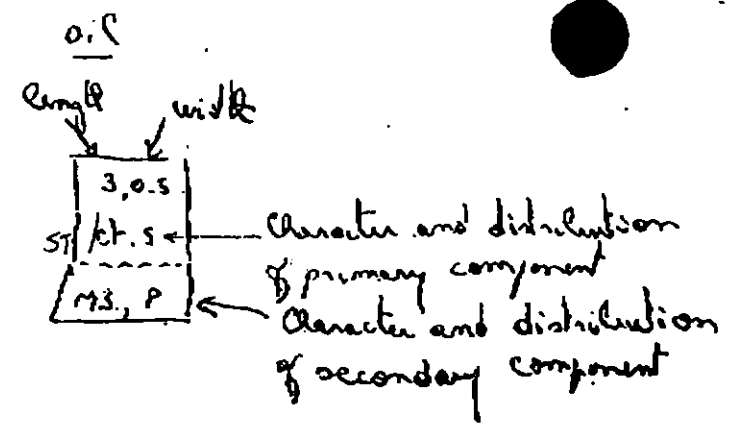
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bdry
- ☐ Oil Cont.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HRA/LVL
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pile Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 ☐ No Subsurface Oil
- 2 ☐ Subsurface Oil
- ☐ CT/C continuous Distribution
- ☐ CT/B broken Distribution
- ☐ CT/P patchy Distribution
- ☐ CT/S streaked Distribution
- ☐ lll Mixed Vegetation
- 1 ☐ Photo location, direction, and number

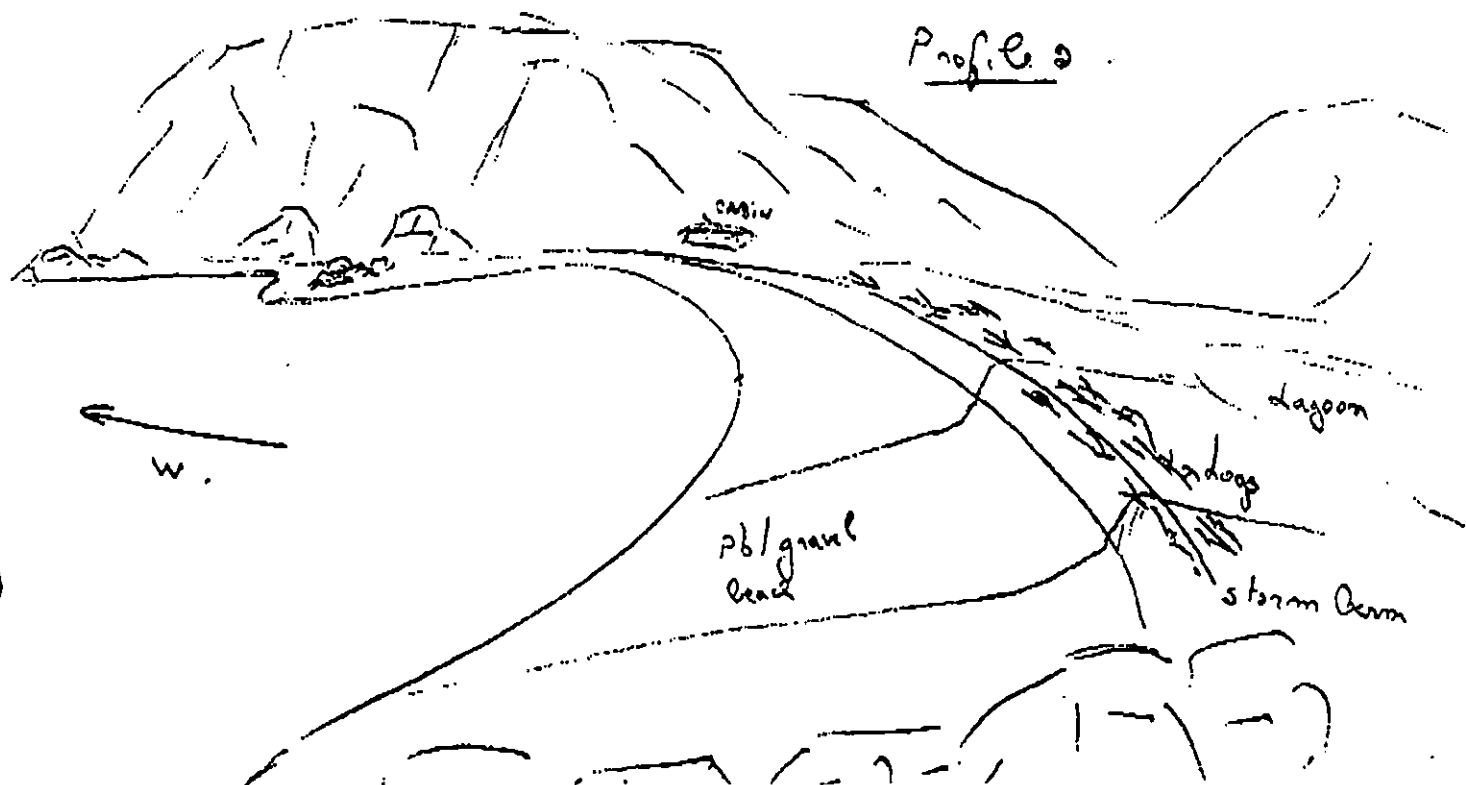
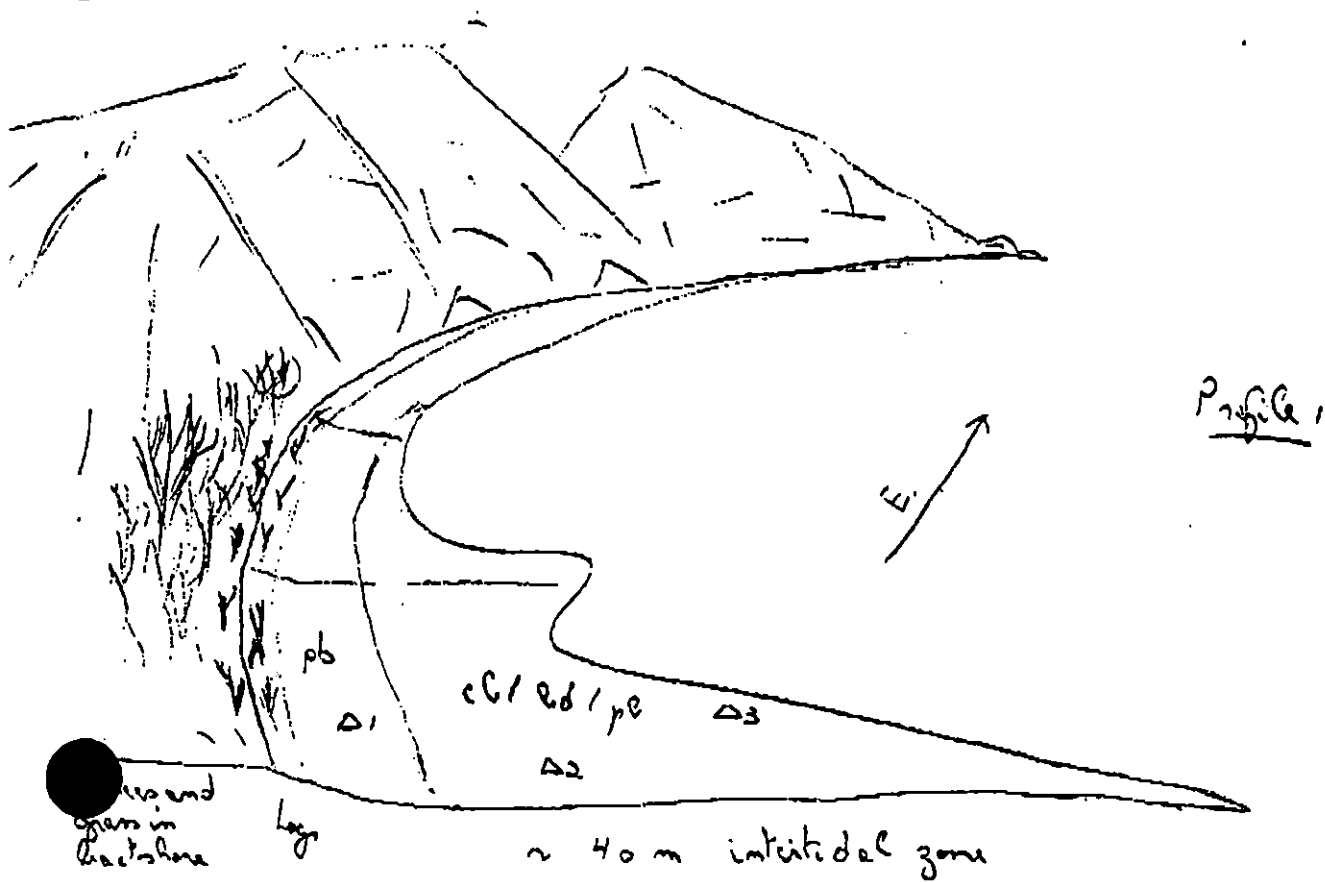
- Legend!
- ☐ P. 886 / gravel
 - ☐ 212 cobble / boulder
 - ☐ log / wood drift
 - ☐ stains / coats of oil / splatters



Character Length (m): AP ☐ PO ☐ CV ☐ CT 1000 ST 1000 MS 4 PT ☐ TB ☐ FL ☐ NO 2730

REVISION 03/04/90

Segment SA-5 May 12, 1990.

Geom. Tissue Samples

SHORELINE ECOLOGICAL SUMMARY (Page 1 of 6)

REVISION: 06/22/90

 K6-20
 Segment ST / SB-5 Subdivision A Date (mo / day / yr) 9/12/90
Time (24 hr) 0830-1030 Biologist SHARMAN

- (A) Substrate type and % of segments: SUBDIV.
 (1) Bedrock 2 (2) Boulder 10 (3) Cobble 20 (4) Pebble 40 (5) Sand 28 (6) Silt + granules
- (B) Overall % cover of biota (% of segment): Dense 40 Moderate 55 Low 5
SUBDIV. W. 1/2 E. 1/2 Beach/Cobble pocket beach
200m at E. end.
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)
 Photographs: Roll No. ST-19 (III) - 1
 Frames 7, 8, 9

BARNACLES

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	NOT PRESENT
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	NOT PRESENT
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS (ANCELA, LITTORINA, LIMPAETS)

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	NOT PRESENT
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	NOT PRESENT
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: 6 adult eagles, including 2 associated with each of 2 active nests (see Eco. map) - one incubating on beach nest. 3 subadult eagles. 6 pairs oystercatchers, 6 harlequin ducks (mostly paired), 6 cormorants, 1 pair white-winged scoters, 3 pairs pigeon guillemots, 1 yellowlegs, 2 unidentified sandpipers, 1 murrelet, Golden-crowned and song sparrows singing in splendor. 5 crows. Seabird (cont.)

Ecological Considerations:
 Please see Eco. maps. The 2 active eagle nests were both identified during the 1989 USFWS Bald Eagle Productivity Survey; both were inactive at the time of that survey. Since they are active this year, they merit special concern. We did not have access to the 1:63,360 USFWS Eagle Nests and Seabird Colonies map. However, note from the maps and the above section that the nearshore islets support active seabird colonies. They also are probable important pinniped haulouts. This coastline is generally quite active biotically, particularly w. crows and seabirds, all of which are attractive to disturbance, when

SD-5

Shoeline Ecological Summary (cont.)
(Page 2 of 6)Sharman
5/12/90General Comments (cont.):

cowbird nests in upland cottonwoods. Concentration of seabirds feeding nearshore in E. portion of segment: ~100 herring gulls, ~50 glaucous-winged gulls, 30 cormorants, 10 tufted puffins, 10 guillemots, 10 red-throated loons. Offshore islets & rocks off W. end of segment (& off adjacent segment to W., SD-10) have nesting seabirds; one grassy islet in particular is building up a considerable colony (500+) of herring gulls. Across the segment, we observed ~30 glaucous-winged gulls & 10 herring gulls not associated with either the colonies (immediately) or the local feeding concentration. *Ogtermatelasma* have very definitely begun breeding at this time. There is a great deal of deer sign (scats & tracks) in the uplands, and we saw 4 deer carcasses (no oil) in the supratidal zone. Poor longbone marrow implies winterkill starvation. 1 live deer at pond/lagoon, E. end of segment. One sea lion scapula (old) in UTE. This is a normal and healthy intertidal community inhabiting a fairly continuous boulder/cobble beach. The MTE is characterized by the usual *Fucus*/barnacle/*Odonthallia*/*Scytosiphon*/*Gloiopeltis* community (*Scytosiphon* typically lower MTE) with thin discontinuous bands of mussels. All these algae are locally dense, particularly *Fucus* in the lower MTE of the western 1/2 of the segment. Spring barnacle recruitment, in the MTE particularly, is excellent, and *Fucus* & mussel recruitment is locally satisfactory where populations are established. MTE littorians are locally dense and are recruiting well. Other MTE species include *Extraneopoda*, alveoles, fine red algae (*Polyisiphonia*/*Paraisiphonia*?), and scattered *Sargassum*/*Protosiphonia* spp. Beneath MTE boulders are littorians (also some egg masses), limpets, *Pagurus*, pricklebacks, amphipods, *Leptasterias*. Beneath LTE boulders are nemertean, *Halichondria*, *Haliclona*, 1 *Nereis*, 1 juvenile *Strongylocentrotus droebachiensis*, a few *Leptograpsus*, and *Leptasterias*. In general, barnacle mortality is a normal 5-10% evident; mussel mortality is negligible. LTE tidepools include *Lithothamnium*, alveoles, foliose red coralline algae, *Katharina*, *Epicratia*, *Anthopleura*, *Antennaria* (also *A. elegantissima* & *A. xanthogramma*), tidepool sculpins. LTE bedrock and large boulders have *Katharina*, *Epicratia*, laminarians, alveoles, *Halosarcin*, *Semibalanus cariosus*, *Lithothamnium*, etc.

Ecology MAP
(4 of 4)

SB-5
(Page 6 of 6)

See map 1.

SB-4

SB-

← GOA
245C

SB-5

XXX Wide

/// Medium

--- Narrow

TTTT Very Light

ADEC Segment Length: 3759m

0 100 200 300

Map Key: GOA-245d

Name: _____

Date: _____

ECOLOGY MAP

(3 of 4)

SB-5

(Page 5 of 6)

See map 1.

ACTIVE EAGLE NEST (INCUBATING)

← GOA
2450GOA
2450 →

SB-5

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

ADEC Segment Length: 3759m

Map Key: GOA-245c

Name: _____

Date: _____



SB-5

Ecology MAP

(2 of 4)

SB-5

(Page 4 of 6)

See map 1.

← GOA
245AGOA
245C →

XXX Wide

/// Medium

--- Narrow

TTTT Very Light

SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245b

Name: _____

Date: _____

ACTIVE EAGLE NEST (INCUBATING)

SB-5

SB-10

Active seabird colonies (particularly
bittinabs) on offshore grassy
islets.

ECOLOGY MAP

(1 of 4)

SB-5

(Page 3 of 4)

5T - Active bald eagle nest (2)
(3/1 → 4/1).

7E - Subarctic skua
harvesting (June → Sept.).

GOA
245B →

XXX Wide

/// Medium

--- Narrow

TTTT Very Light

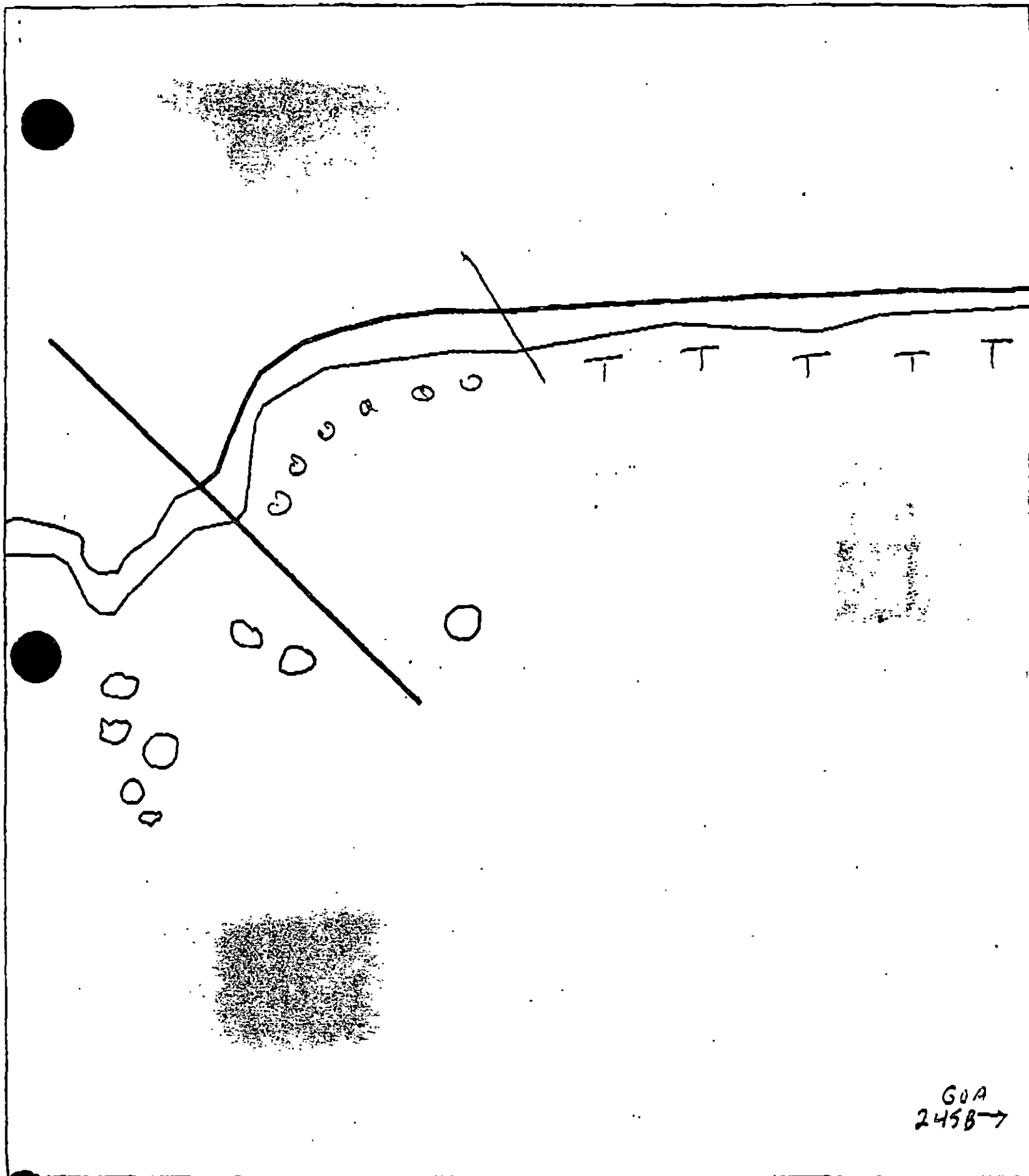
SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245a

Name: _____

Date: _____



GOA
245B-7

XXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0620 - SB-5

ADEC Segment Length: 3759m

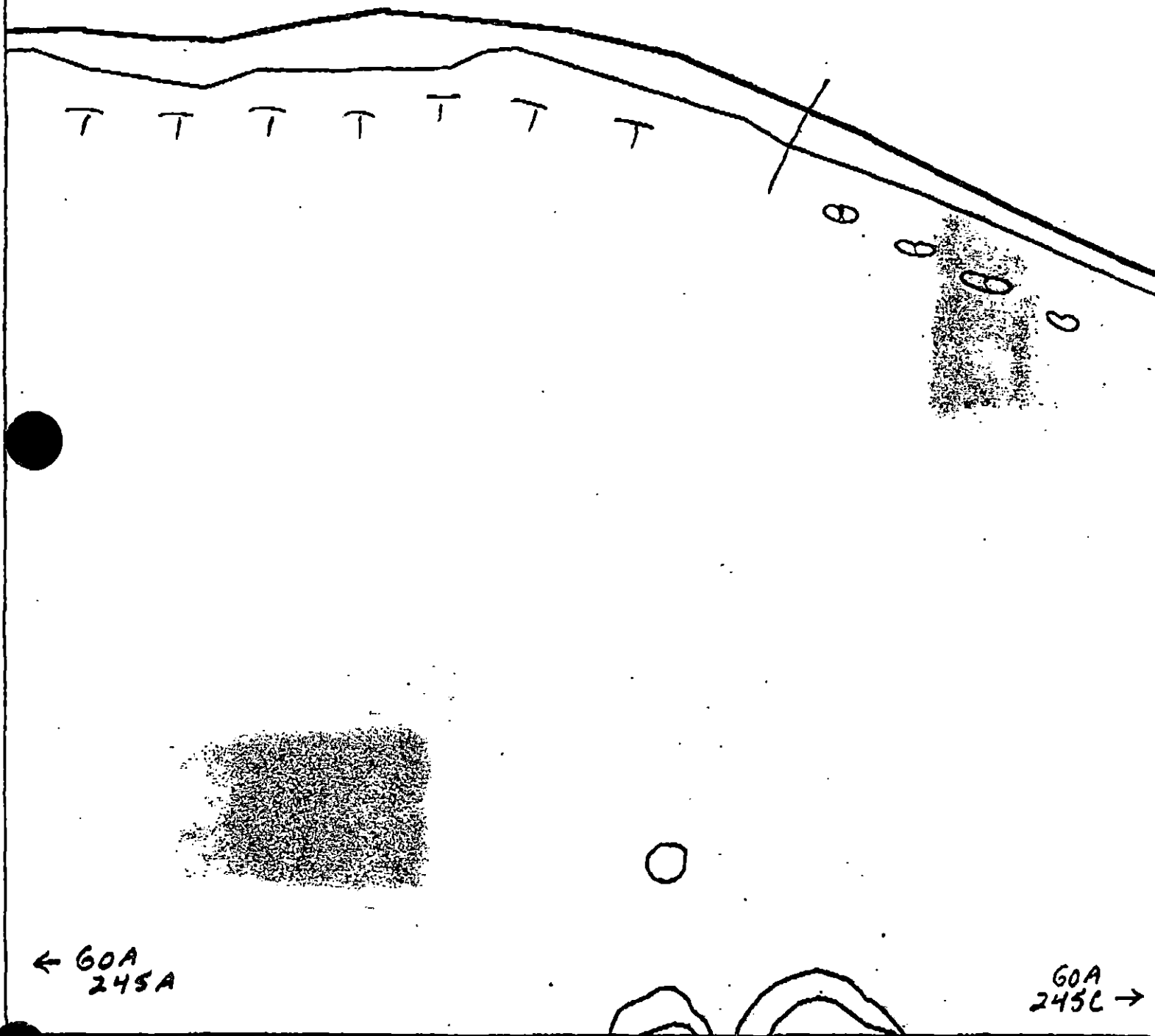
1.1 . 1.2 1.3 1.4 1.5

Map Key: GOA-245a

Name: Jean Marie Sempala

Date: May 12/90

SB-5

← GOA
245AGOA
245C →

XXXX Wide

//// Medium

---- Narrow

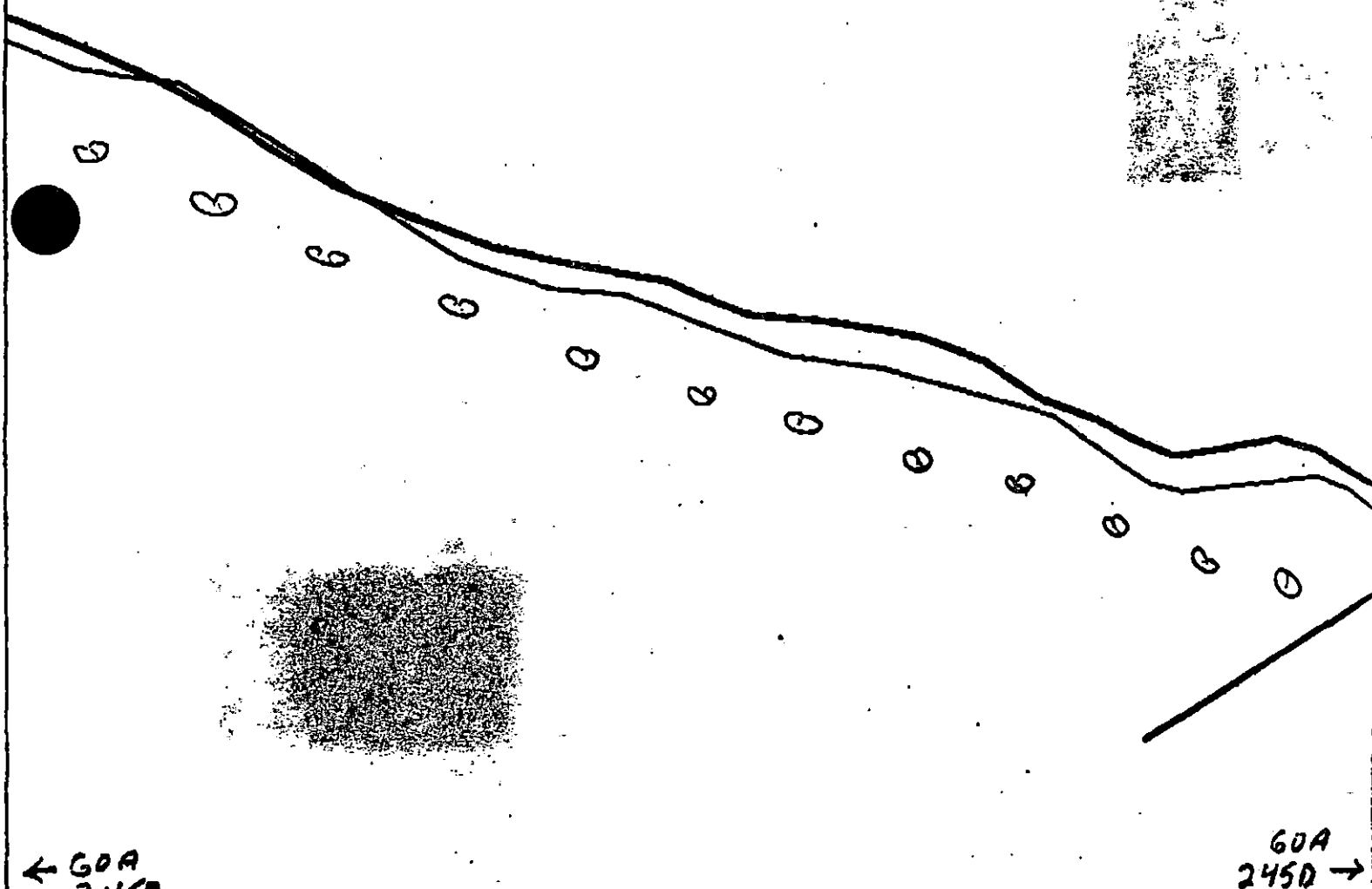
TTTT Very Light

Kø62ø - SB-5

ADEC Segment Length: 3759m

Map Key: GOA-245b

Name: John T. SempDate: May 12/90

← GOA
2450GOA
2450 →

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0620-SB-5

ADEC Segment Length: 3759m

0 100 200 300

Map Key: GOA-2450

Name: Jean-Marie SegalDate: May 12/90

SB-4

SB-

← GOA
245C

XXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0620-SB-5

ADEC Segment Length: 3759m

0 100 200 300

Map Key: GOA-245d

Name: *Jean Marie Sengul*

Date: *May 12/90*

1991 MAYSAP EVALUATION

SEGMENT: K0620XX507 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 5/15 - 9/1

Ecological/Constraints (see page two for details) Seabird colony

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: _____ Date: _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: _____

TAG: _____

FOSC: _____

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC _____

FOSC _____

EXXON _____

USCG _____

NOAA _____

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Seabird Colony: Access restricted. USF&WS authorization required after 5/15. Maintain 1000' vertical and 1/2 mile horizontal buffer.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT XX-507 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART ADEC SIGNATURE Jeff Barnhart

☒ NTR NOT surveyed due to nesting birds.

CONCURE WITH USEFWS, ADEC, USCG & NOAA (State of Alaska Kodiak Island Borough)

EXXON

NAME R. COULTER EXXON SIGNATURE Rex R. Coulter

☒ NTR UNANIMOUS DECISION BY TEAM REFS. TO NOT SURVEY DUE TO NESTING BIRDS LOCATED IN THE AREA.

LANDMANAGER

NAME J. HARDISTER OF USEFWS SIGNATURE John P. Hardister

☒ NTR This segment was not surveyed at my request due to the disturbance to nesting Black Oystercatchers. Refer to NOAA representation for further relevant comments.

USCG/NOAA

NAME CWO R. SPUR/G. SHIGENAKA SIGNATURE R. Spur

☒ NTR Segment not surveyed at request of Landmanager (USCG) due to ecological sensitivity. Recommend NOT returning.

THE SEGMENT WAS A SMALL ISLAND IN SPIROON BAY THAT WAS NOT SURVEYED BY CONSENSUS OF THE TEAM. THE HIGH DEGREE OF ECOLOGICAL SENSITIVITY (HELOS LANDING ON AN ADJACENT ISLAND CAUSED DISTURBANCES TO DEPENDENT OYSTERCATCHERS WHICH WERE INCUBATING 2 EGGS NEAR THE LANDING SITE), DIFFICULTY IN LANDING HELICOPTERS, AND LITTLE LIKELIHOOD OF FINDING SIGNIFICANT OILING ON THE SEGMENT ALL CONTRIBUTED TO THE DECISION. THIS AREA IS NESTING HABITAT FOR SEA- AND SHOREBIRDS AND SHOULD NOT BE SUSCEPTIVE TO THE STRESS OF ASSESSMENT OR TREATMENT CREWS.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT XX-507 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART, ADEC

SIGNATURE

Jiff Barnhart

☒ NTR NOT surveyed due to nesting birds.

CONCURRE WITH USFWS, ADEC, USCG & NOAA (John Spurr - Kodiak Island Borough)

EXXON

NAME R. COULTER, EXXON

SIGNATURE

☐ NTR

LANDMANAGER

NAME J. HARDISTER

OF USFWS

SIGNATURE

J. Hardister

☒ NTR This segment was not surveyed at my request due to the disturbance to nesting Black Oystercatchers. Refer to NOAA representative for further relevant comments.

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKA

SIGNATURE

R. Spurr / G. Shigenaka

☒ NTR Segment not surveyed at request of Landmanager (USFWS) due to ecological sensitivity. Recommend NOT returning.

THE SEGMENT WAS A SMALL ISLAND IN SPIRIDON BAY THAT WAS NOT SURVEYED BY CONSENSUS OF THE TEAM. THE HIGH DEGREE OF ECOLOGICAL SENSITIVITY (HELOS LANDING ON AN ADJACENT ISLAND CAUSED DISTURBANCES TO RESIDENT OYSTERCATCHERS WHICH WERE INCUBATING 2 EGGS NEAR THE LANDING SITE), DIFFICULTY IN LANDING THE HELICOPTERS, AND LITTLE LIKELIHOOD OF FINDING SIGNIFICANT OILING ON THE SEGMENT ALL CONTRIBUTED TO THE DECISION. THIS AREA IS NESTING HABITAT FOR SEA- AND SHOREBIRDS AND SHOULD NOT BE SUBJECTED TO THE STRESS OF ASSESSMENT OR TREATMENT CREWS.

NAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K06-20 XX-507

TIDAL HEIGHT(Range)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1 ft

WIND SPEED/DIRECTION 10 Kts S

PHOTOGRAPHS: ROLL #

FRAME #

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

This segment is a small island with a rocky shore and grass covered top. We did not survey this island because the ecological sensitivity outweighed the likelihood of finding significant oiling. There were sea and shore birds nesting on this island. The disturbance caused by a survey would greatly outweigh any possible benefit the survey could create.

Cormorants (2) Harlequin (2) Eagle on next island (1)

Glaucous-wing Gulls (10+) Oystercatchers (6) (8+ nest on other island) Kittiwakes (4) Sparrows (4)

WILDLIFE OBSERVATIONS (We landed on a neighboring island with 8 Oystercatchers and a nest 7/29)

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1 on island next door	0
Seabirds	1	2	
Waterfowl	1	2	
Gulls/Kittiwakes	2	14+	
Shorebirds	1	6	
Corvids	0	-	
Other Birds Sparrows	1	4	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	2 adults 1 pup	0	
Pinnipeds (specify)			
Narwhal seal	1		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

Rev 1 of 19 Apr

SB-10



XXXX Wide
//// Medium
---- Narrow
TTTT Very Light
0000 No Oil

K0620 XX507 A
ADEC Subsegment Length: 260m
METERS

AK State Plane Zone 4
90020xx507a-1 . . .



Subdivision Field Map
Map Key: 60AK0620XX507A
Name: D. FitzGerald (MC)
Date: 5/29/91
Date Entered:

1991 MAYSAP EVALUATION

SEGMENT: R0620XX507 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 5/15 - 9/1

Ecological/Constraints (see page two for details) Seabird colony

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature:

Date:

RECOMMENDATIONS:

INITIAL**TAG**

FOSSC

TREATMENT REQUIRED (Y or N)

N

^

1

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL:

TAG:

FOSC:

TAG APPROVAL DATE: June 7 1991

FOSC APPROVAL DATE:

ADEC

FOSC

EXXON

E. E. PAGE, ODR, USCG
CHIEF OF STAFF, FOSC

USCG

NOAA

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Seabird Colony: Access restricted. USF&WS authorization required after 5/15. Maintain 1000' vertical and 1/2 mile horizontal buffer.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 4-HELO SEGMENT XX-507 SUBDIVISION A^M DATE 5/29/91

REC

NAME J. BARNHART ADF&GSIGNATURE Jiff Barnhart☒ NTR NOT surveyed due to nesting birds.

CONCUR WITH USF&WS, ADF&G, USCG & NOAA (John Coulter Kodick Island Borough)

EXXON

NAME R. COULTER EXXONSIGNATURE Ray R. Coulter☒ NTR UNANIMOUS DECISION BY TEAM REPS. TO NOT SURVEY DUE TO NESTING BIRDS LOCATED IN THE AREA.

LANDMANAGER

NAME J. HARDISTEROF USF&WSSIGNATURE John P. Hardister☒ NTR This segment was not surveyed at my request due to the disturbance to nesting Black Oystercatchers. Refer to NOAA representative for further relevant comments.

USCG/NOAA

NAME CWO E. SPUR/G. SHIGENAKA SIGNATURE E. Spurr☒ NTR Segment not surveyed at request of Landmanager (USF&WS) due to ecological sensitivity. Recommend NOT returning.

SEGMENT WAS A SMALL ISLAND IN SPIRODON BAY THAT WAS NOT SURVEYED BY CONSENSUS OF THE TEAM. HIGH DEGREE OF ECOLOGICAL SENSITIVITY (HELOS LANDING ON AN ADJACENT ISLAND CAUSED DISTURBANCES TO RESIDENT OYSTERCATCHERS WHICH WERE INCUBATING 2 EGGS NEAR THE LANDING SITE), DIFFICULTY IN LANDING THE HELICOPTERS, AND LITTLE LIKELIHOOD OF FINDING SIGNIFICANT OILING ON THE SEGMENT ALL CONTRIBUTED TO THE DECISION. THIS AREA IS NESTING HABITAT FOR SEA- AND SHOREBIRDS AND SHOULD NOT BE SUBJECTED TO THE STRESS OF ASSESSMENT OR TREATMENT CREWS.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT XX-507 SUBDIVISION A^M DATE 5/29/91

ADEC

NAME J. BARNHART, ADEC SIGNATURE Jeff Barnhart

☒ NTR NOT surveyed due to nesting birds.

CONCUR WITH USFWS, ADEC, USCG & NOAA (John Spurr Kodiak Island Borough)

EXXON

NAME R. COULTER, EXXON SIGNATURE _____

☐ NTR

LANDMANAGER

NAME J. HARDISTER OF USFWS SIGNATURE John P. Hardister

☒ NTR This segment was not surveyed at my request due to the disturbance to nesting Black Oystercatchers. Refer to NOAA representative for further relevant comments.

USCG/NOAA

NAME CWO R. SPURR/E. SHIGENAKA SIGNATURE R. Spurr / E. Shigenaka

☒ NTR Segment not surveyed at request of Landmanager (USFWS) due to ecological sensitivity. Recommend NOT returning.

THE SEGMENT WAS A SMALL ISLAND IN SPIRIDON BAY THAT WAS NOT SURVEYED BY CONSENSUS OF THE TEAM. THE HIGH DEGREE OF ECOLOGICAL SENSITIVITY (HELOS LANDING ON AN ADJACENT ISLAND CAUSED DISTURBANCES TO RESIDENT OYSTERCATCHERS WHICH WERE INCUBATING 2 EGGS NEAR THE LANDING SITE), DIFFICULTY IN LANDING THE HELICOPTERS, AND LITTLE LIKELIHOOD OF FINDING SIGNIFICANT OILING ON THE SEGMENT ALL CONTRIBUTED TO THE DECISION. THIS AREA IS NESTING HABITAT FOR SEA- AND SHOREBIRDS AND SHOULD NOT BE SUBJECTED TO THE STRESS OF ASSESSMENT OR TREATMENT CREWS.

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K06-20 XX-507

TIDAL HEIGHT(Range)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1 ft

WIND SPEED/DIRECTION 10 Kts S

PHOTOGRAPHS: ROLL #

FRAME #

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

This segment is a small island with a rocky shore and grass covered top. We did not survey this island because the ecological sensitivity outweighed the likelihood of finding significant oiling. There were sea and shore birds nesting on this island. The disturbance caused by a survey would greatly outweigh any possible benefit the survey could create.

Cormorants (2) Harlequin (2) Eagle on next island (1)

Glaucous-wing Gulls (10+) Oystercatchers (6) (8+ nest on other island) Kittiwakes (4) sparrows (4)

WILDLIFE OBSERVATIONS (We landed on a neighboring island with 8 Oystercatchers and a nest 1/2 egg)

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1 on island next door	0
Seabirds	1	2	
Waterfowl	1	2	
Gulls/Kittiwakes	2	14+	
Shorebirds	1	6	
Corvids	0	-	
Other Birds sparrows	1	4	

MARINE MAMMALS

OBSERVED

LAND MAMMALS

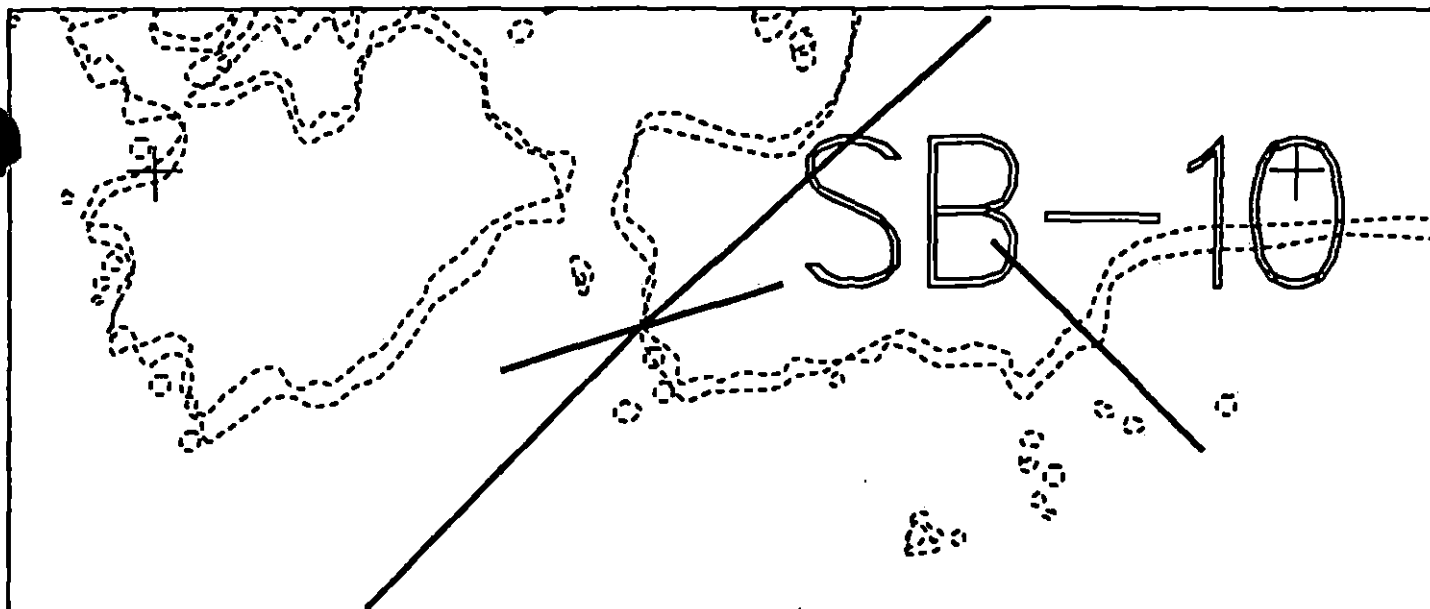
SPECIES

OBSERVED

Sea Otters	2 adults 1 pup	0	
Pinnipeds (specify)			
Narwhal seal	1		
Wales (specify)	0		

Shoreline subdivision map showing important biological features attached.

D. 1. 11. 1. 1.



XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

K0620 XX507 A
 ADEC Subsegment Length: 269m
 METERS

0 400 800

AK State Plane Zone 4
 98620xx507a



Subdivision Field Map
 Map Key: 60AK9820XX507A
 Name: D. FitzGerald (MC)
 Date: 5/29/91
 Data Entered:

1991 MAYSAP EVALUATION

SEGMENT: K06208B010 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN

Ecological/Constraints (see page two for details) NONE

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: Timothy P. Smith Date: 6/07/91

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

N

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL:

TAG:

FOSC:

TAG APPROVAL DATE: JUNE 7 1991

FOSC APPROVAL DATE: 6/11/91

ADEC

FOSC

EXXON

E. E. PAGE, CDR, USCG
CHIEF OF STAFF, FOSC

USCG

NOAA

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT SB-10 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART ADEC

SIGNATURE

Jeff Barnhart

☐ NTR Trace amounts of MS, ST, SOR were observed in pocket beaches along this segment, with the highest concentrations at the north end of the segment.

EXXON

NAME R. COULTER EXXON

SIGNATURE

Reg R. Coulter

☒ NTR Access is very difficult and dangerous. I did not personally walk all of this beach due to a temporary illness. Based on the portion I saw, I would agree with the comments of the other reps.

LANDMANAGER

NAME J. HARDISTEROF USFWS

SIGNATURE

John P. Hardister

☒ NTR This segment consists of a series of high energy beaches with pockets of protected areas. Some small amounts of SOR may be found in the pockets; however, cleanup is not recommended due to the insignificant amounts and the safety risk that would be involved.

USCG/NOAA

NAME CWO R. SPURR / G. SHIGENAKA

SIGNATURE

R. Spurr / G. Shigenaka

☒ NTR Small amounts of highly weathered mousse/sor were observed in this segment. I would not recommend clean up of this for the reasons listed by NOAA Rep.

SURVEYED PORTION OF THE SEGMENT WAS A RUSSSED, IRREGULAR PIECE OF SHORELINE IN SPIROVON BAY. THIS WAS, TO BE UNDERSTATED, A DIFFICULT SEGMENT TO SURVEY. MOST OF THE SHORELINE CONSISTED OF ANGULAR BOULDER OR BEDROCK FACES, MAKING TRAVERSING SLOW AND SOMEWHAT RISKY. THOSE PARTS OF THE BEACH AT THE MITE LEVEL OR BELOW WERE COVERED WITH ALGAE AND WERE VERY SLICK. OBSERVED OILING ALONG THE BEACH WAS VERY INFREQUENT AND MOSTLY COAT. A FEW EXAMPLES OF WEATHERED MOUSSE/SOR WAS SEEN ON THE BOULDER SUBSTRATE. SOME RESIDUES AT THE BEGINNING OF THE SEGMENT WERE BROKEN UP BY THE VESSEL CREW, BUT ALL OTHER OIL OBSERVED WOULD NOT WARRANT FURTHER ATTENTION FOR THREE REASONS: SMALL AMOUNT; EXPOSED NATURE OF SHORELINE; AND DIFFICULTY IN ACCESS.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT 5B-10 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART, ADECSIGNATURE Jeff Barnhart

- ☒ NTR Trace amounts of MS, ST, SOR were observed in pocket beaches along this segment, with the highest concentrations at the north end of the segment.

EXXON

NAME R. COULTER, EXXON

SIGNATURE _____

- ☐ NTR

LANDMANAGER

NAME J. HARDISTEROF USFWSSIGNATURE John P. Hardister

- ☒ NTR This segment consists of a series of high energy beaches with pockets of protected areas. Some small amounts of SOR may be found in the pockets, however, cleanup is not recommended due to the insignificant amounts and the safety risk that would be involved.

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKASIGNATURE R. Spurr / G. Shigenaka

- ☒ NTR Small amounts of highly weathered mousse/SOR were observed in this segment. I would not recommend clean up of this for the reasons listed by NOAA Rep.

SURVEYED PORTION OF THE SEGMENT WAS A RUGGED, IRREGULAR PIECE OF SHORELINE IN SPIROVON BAY. THIS WAS, TO BE UNDERSTATED, A DIFFICULT SEGMENT TO SURVEY. MOST OF THE SHORELINE CONSISTED OF ANGULAR BOULDERS OR BEDROCK FACES, MAKING TRAVERSING SLOW AND SOMEWHAT RISKY. THOSE PARTS OF THE BEACH AT THE MTLZ LEVEL OR BELOW WERE COVERED WITH ALGAE AND WERE VERY SLICK. OBSERVED OILING ALONG THE SEGMENT WAS VERY INFREQUENT AND MOSTLY COAT. A FEW EXAMPLES OF WEATHERED MOUSSE/SOR WAS SEEN IN THE BOULDER SUBSTRATE. SOME RESIDUES AT THE BEGINNING OF THE SEGMENT WERE BROKEN UP BY THE ECO CREW, BUT ALL OTHER OIL OBSERVED WOULD NOT WARRANT FURTHER ATTENTION FOR THREE REASONS: SMALL AMOUNT; EXPOSED NATURE OF SHORELINE; AND DIFFICULTY IN ACCESS.

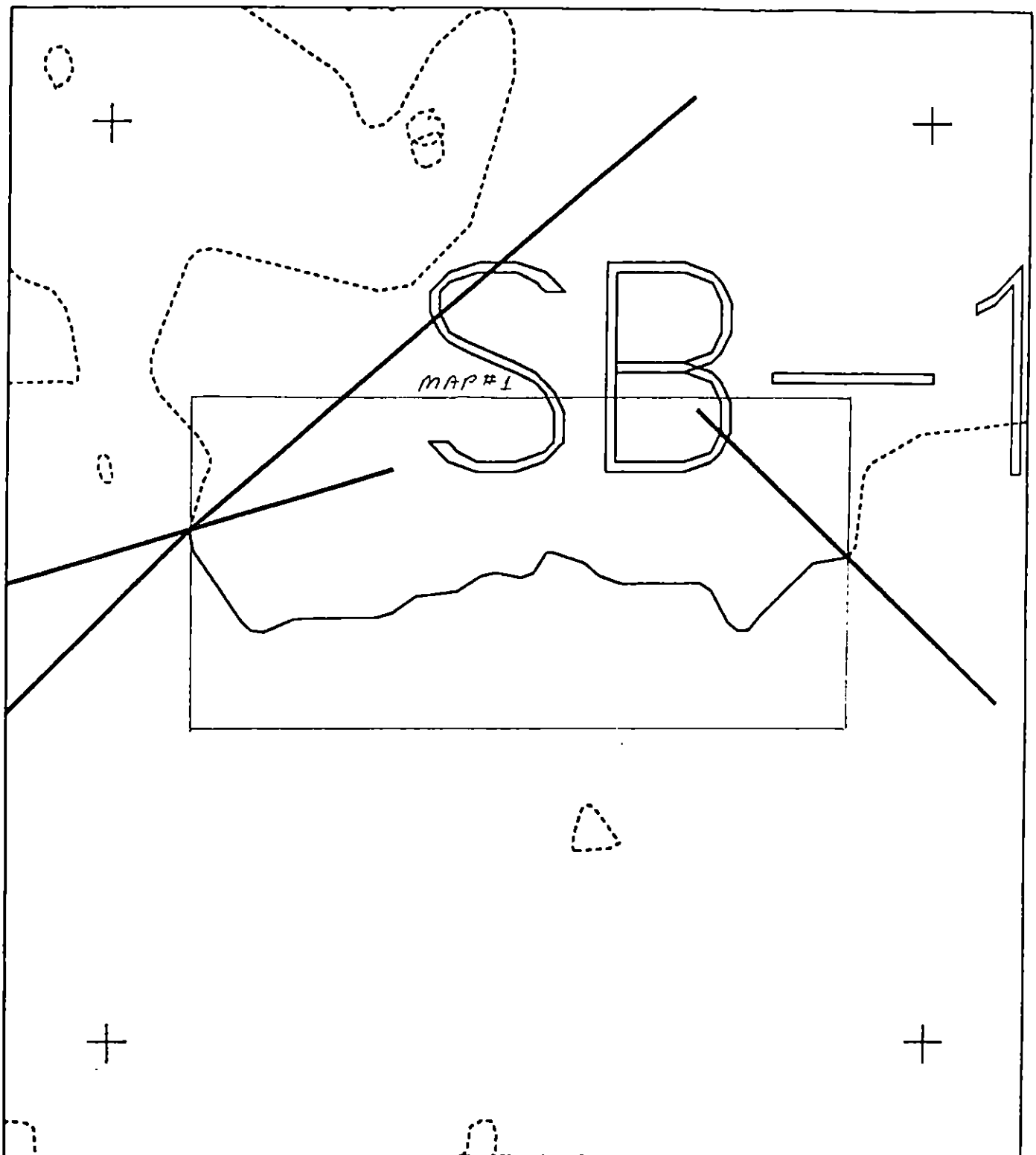
PAGE 1 OF 1

DATE 29 May 191

ENERGY LEVEL: ☐ H ☒ M ☐ L

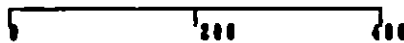
EST. OIL CATEGORY LENGTH: W — m M — m N — m VL 1189 m NO — m US — m

Revised: MC 6/3/91



K0620 SB010 A

METERS



AK State Plane Zone 4.
K0620 SB010 A

Subdivision Field Map

Map Key: 604200203010A

Name: D. M. Fitzgerald

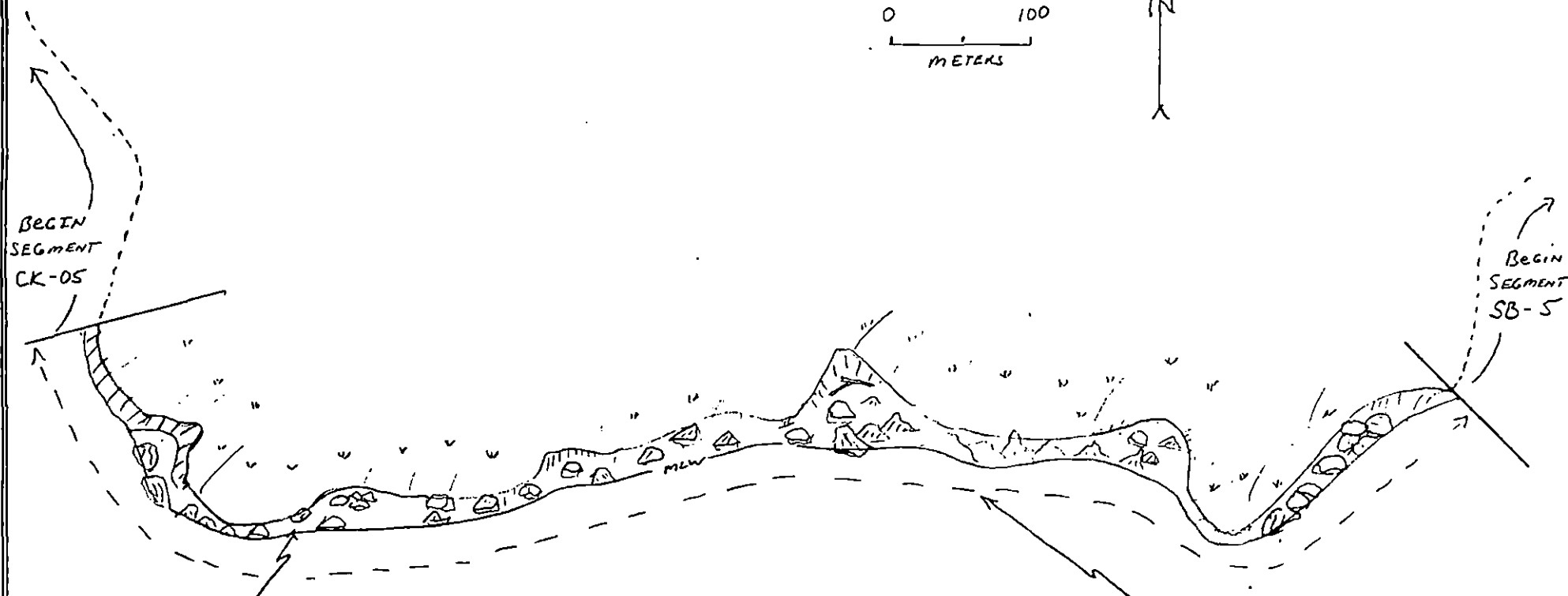
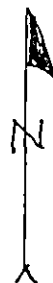
Date: 29 MAY 1991

" " " VEGETATED SLOPE
 " " " Bedrock outcrops
 ↗ PHOTO SETS

SKETCH MAP (06)
 KODIAK-SB-10-A
 D M FITZGERALD
 29 MAY 1991
 930 to 1035

KODIAK ISLAND

0 100
METERS



Irregular Bedrock /
Boulder slope - cliff

SPIRIDON
BAY

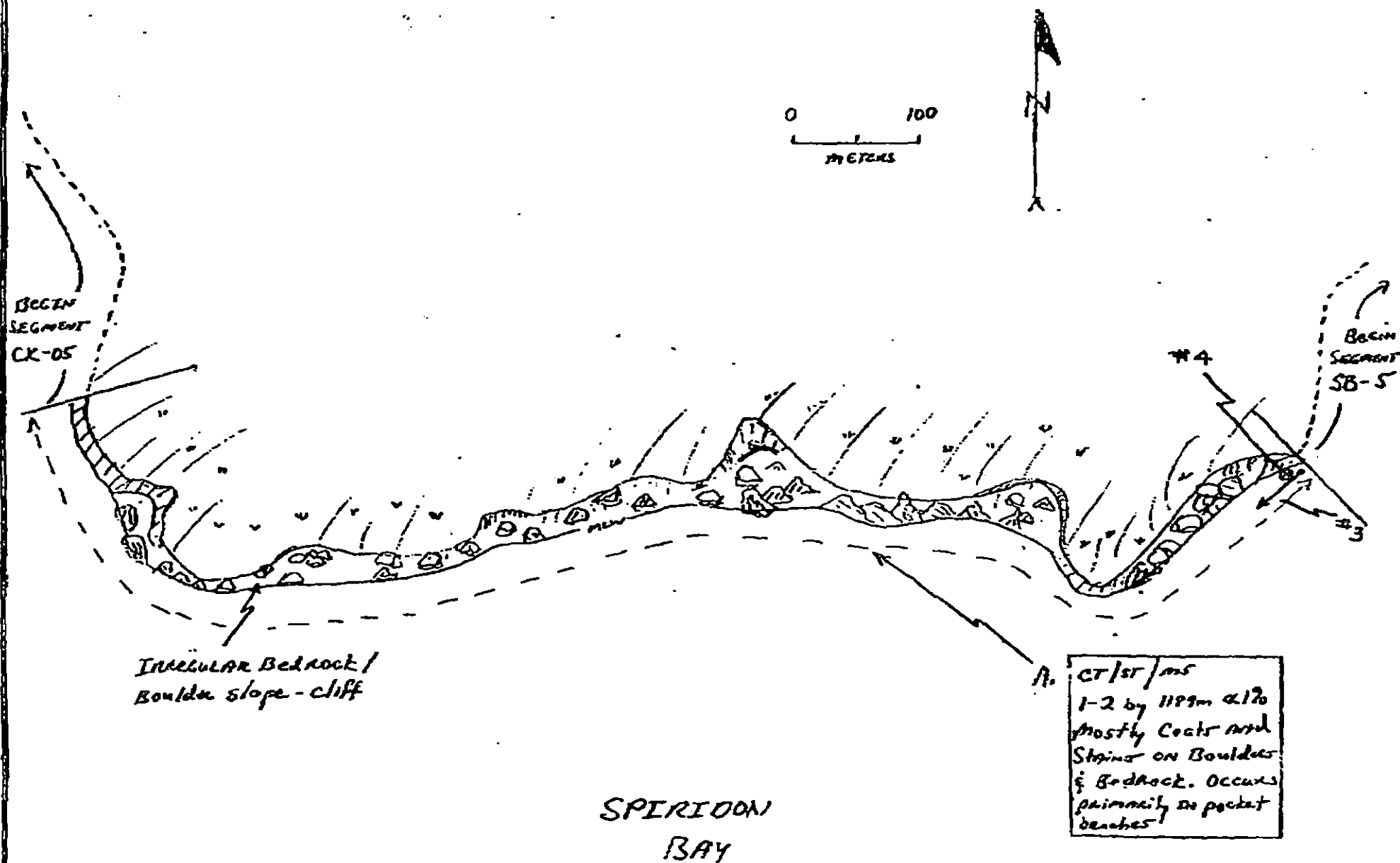
CT/SF/MS
 1-2 by 1189m <190
 mostly Coats and
 stains on boulders
 & Bedrock. Occurs
 primarily in pocket
 beaches

REVIEWED: MC 6/3/91

PHOTO SITES SB-10A
ROLL 6-21 FRAMES 3 & 4

Sketch MAP (06)
KOD- SB-10-A
D. M. F. GERALD
29 May 1991
930 to 1035

KODIAK ISLAND



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K06-20 SB-10

TIDAL HEIGHT(Range) -1.4M - -1.4M (930 - 10:35)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1-2 ft

WIND SPEED/DIRECTION 10 KTS

SE

PHOTOGRAPHS: ROLL # 6-25

FRAME # 3+4

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

This segment was a tortuous, irregular shoreline of angular boulders and steep bedrock faces. However, this was one of the most diverse regions I have seen in Alaska. There was an extensive algal cover: *Fucus*, *Ulva*, *Ulva*, *Halosaccion*, *Laminaria setchellii*, *Alaria*, *Scytosiphon*, *Borsella*, *Corallina*, *Gracilaria*, and the grass *Phyllospadix*. The animal population was equally diverse: Barnacles (*B. glandula*, *B. cariosus*, *Tetralia*, *B. nubilus*), Gastropods (*Nucella lima* + *canaliculata*, *Littorina*, *Lucina*, *Gastropoda*, *Scutum* + *persona*), Chitons (*Katharina*, *Mopalia*, *Tonacella*), Seastars (*Henricia*, *Evasteria*, *Pisaster*, *Leptasterias*), Anemones (*Anthopleura*, *Telia*, *Episcylla*), *Cucumaria*, *Mytilus*, *Halichondria*, amphipods, bryozoans, flatworms, Nematodes, spirorhis and many more.

Removing the very infrequent coat and weathered SOR would not be worth the disturbance to this area or the danger to workers (it is a hard climb and very slippery)

Kittiwakes (6) Cormorant (2)

Eagles (2) Glaucous-winged Gulls (10) Oystercatchers (4) Rock sandpipers (2)

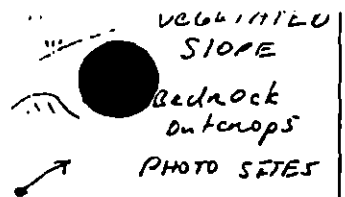
WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	2	Sculpins
Seabirds	1	2	Blenney
Waterfowl	0	0	
Gulls/Kittiwakes	2	16	
Shorebirds	2	6	
Corvids	0	0	
Other Birds	0	0	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	2 w/pup	Deer tracks + scat	
Pinnipeds (specify)	0		
ies (specify)	0		

Shoreline subdivision map showing important biological features attached.

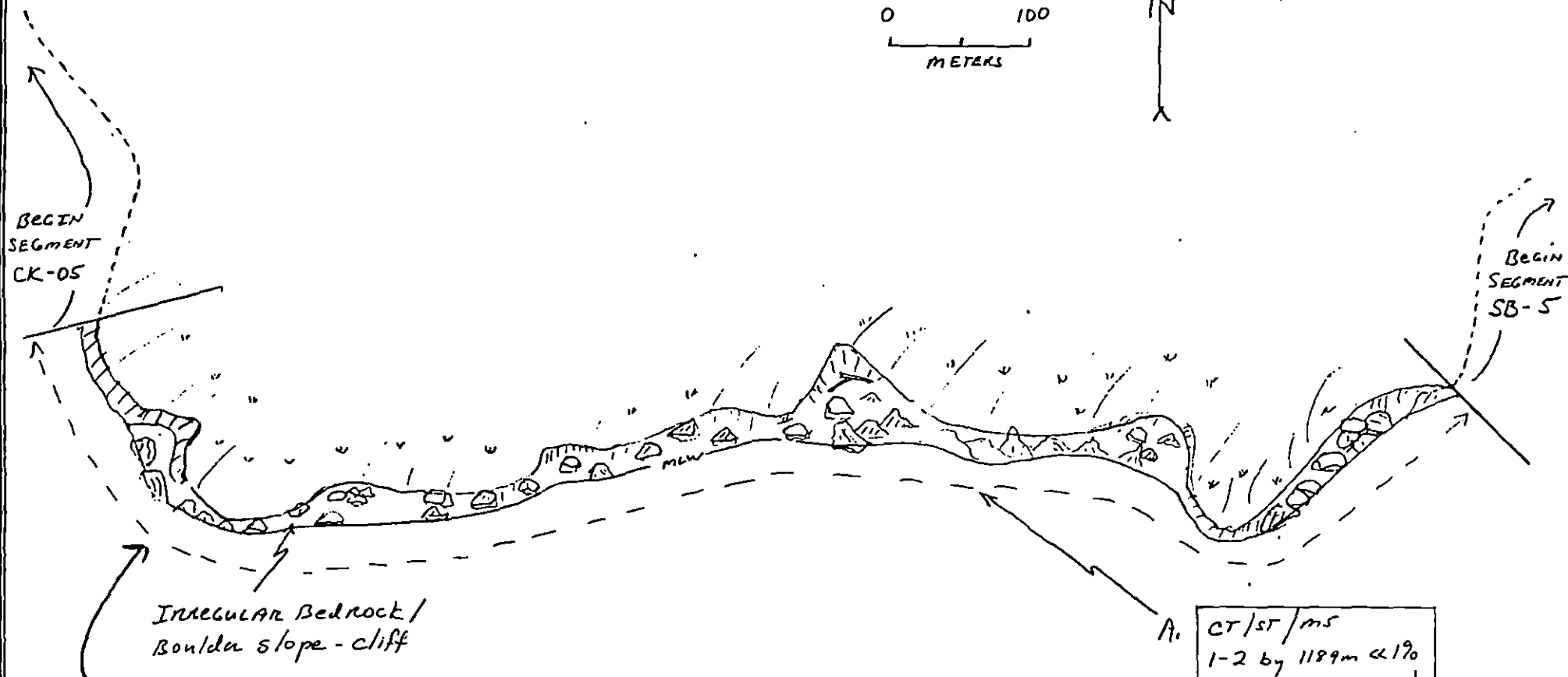


Big Map
H. Davis

Sketch MAP (06)
KOD-SB-10-A
D. M. FITZGERALD
29 May 1991
930 to 1035

KODIAK ISLAND

0 100
METERS

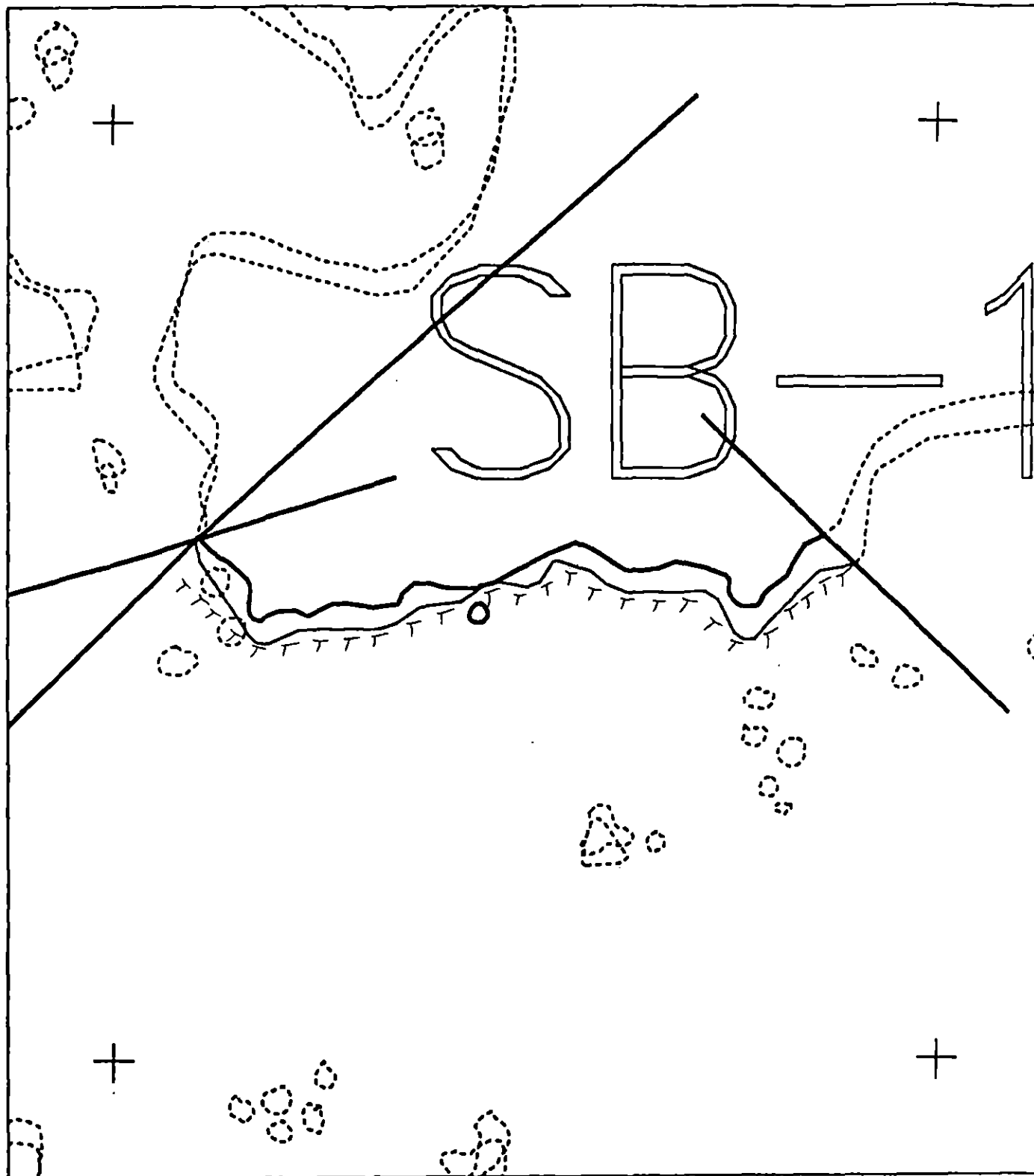


Site A

This is a very rich, diverse intertidal community.
It is also a tricky area to move across. Any
clean ups would be disruptive to the
animals and dangerous to the workers.

SPIRIDONI
BAY

CT/ST/MS
1-2 by 1189m < 1%
mostly Coats and
Strings on Boulder
& Bedrock. Occurs
primarily in pocket
beaches



XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

K0620 SB010 A
 ADEC Subsegment Length: 1188m
 METERS

AK State Plane Zone 4
 90620-60100- ...



Subdivision Field Map

Map Key: 60AK0620SB010A

Name: D. M. Fitzgerald

Date: 29 MAY 1991

Date Entered:

Reviewed: MC 6/3/91

1991 MAYSAP EVALUATION

SEGMENT: K06208B010 SUB: M REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN

Ecological/Constraints (see page two for details) NONE

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO Signature: _____ Date: _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: _____

TAG: _____

FOSC: _____

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC _____

FOSC _____

EXXON _____

USCG _____

NOAA _____

ADEC

NAME J. BARNHART ADEC

SIGNATURE

Jeff Barnhart

☒ NTR Trace amounts of ms, st, sor were observed in pocket beaches along this segment, with the highest concentrations at the north end of the segment.

EXXON

NAME R. COULTER EXXON

SIGNATURE

Reg R. Coulter

☒ NTR Access is very difficult and dangerous. I did not personally walk all of this beach due to a temporary illness. Based on the portion I saw, I would agree with the comments of the other reps.

MANAGER

NAME J. HARDISTER

OF USFWS

SIGNATURE

John P. Hardister

☒ NTR This segment consists of a series of high energy beaches with pockets of protected areas. Some small amounts of STK may be found in the pockets; however, cleanup is not recommended due to the insignificant amounts and the safety risk that would be involved.

USCG/NOAA

NAME CWO R. SPURR/G. SHIGENAKA

SIGNATURE

R. Spurr / G. Shigenaka

☒ NTR Small amounts of highly weathered mousse/sor were observed in this segment. I would not recommend clean up of this for the reasons listed by NOAA Rep.

SURVEYED PORTION OF THIS SEGMENT WAS A CROOKED, IRREGULAR PIECE OF SHORELINE IN SPIROVON BAY. THIS WAS, TO BE UNDERSTATED, A DIFFICULT SEGMENT TO SURVEY. MOST OF THE SHORELINE CONSISTED OF ANGULAR BOULDER OR BEDROCK FACES, MAKING TRAVERSING SLOW AND SOMEWHAT RISKY. THOSE PARTS OF THE BEACH AT THE HIGH LEVEL OR BELOW WERE COVERED WITH ALGAE AND WERE VERY SLICK. OBSERVED OILING ALONG THE SEAM WAS VERY INFREQUENT AND MOSTLY COAT. A FEW EXAMPLES OF WEATHERED MOUSSE/SOR WAS SEEN IN BOULDER SUBSTRATE. SOME RESIDUES AT THE BEGINNING OF THE SEGMENT WERE BROKEN UP BY THE WAVEZ, BUT ALL OTHER OIL OBSERVED WOULD NOT WARRANT FURTHER ATTENTION FOR THREE REASONS: SMALL AMOUNT; EXPOSED NATURE OF SHORELINE; AND DIFFICULTY IN ACCESS.

TEAM NO. 6-HELO SEGMENT 5B-10 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART, ADECSIGNATURE Jiff Barnhart

- ☒ NTR Trace amounts of ms, st, sor were observed in pocket beaches along this segment, with the highest concentrations at the north end of the segment.

EXXON

NAME R. COULTER, EXXON

SIGNATURE _____

- ☐ NTR

LANDMANAGER

NAME J. HARDISTEROF USFWSSIGNATURE J. P. Hardister

- ☒ NTR This segment consists of a series of high energy beaches with pockets of protected areas. Some small amounts of sor may be found in the pockets, however, cleanup is not recommended due to the insignificant amounts and the safety risk that would be involved.

USCG/NOAA

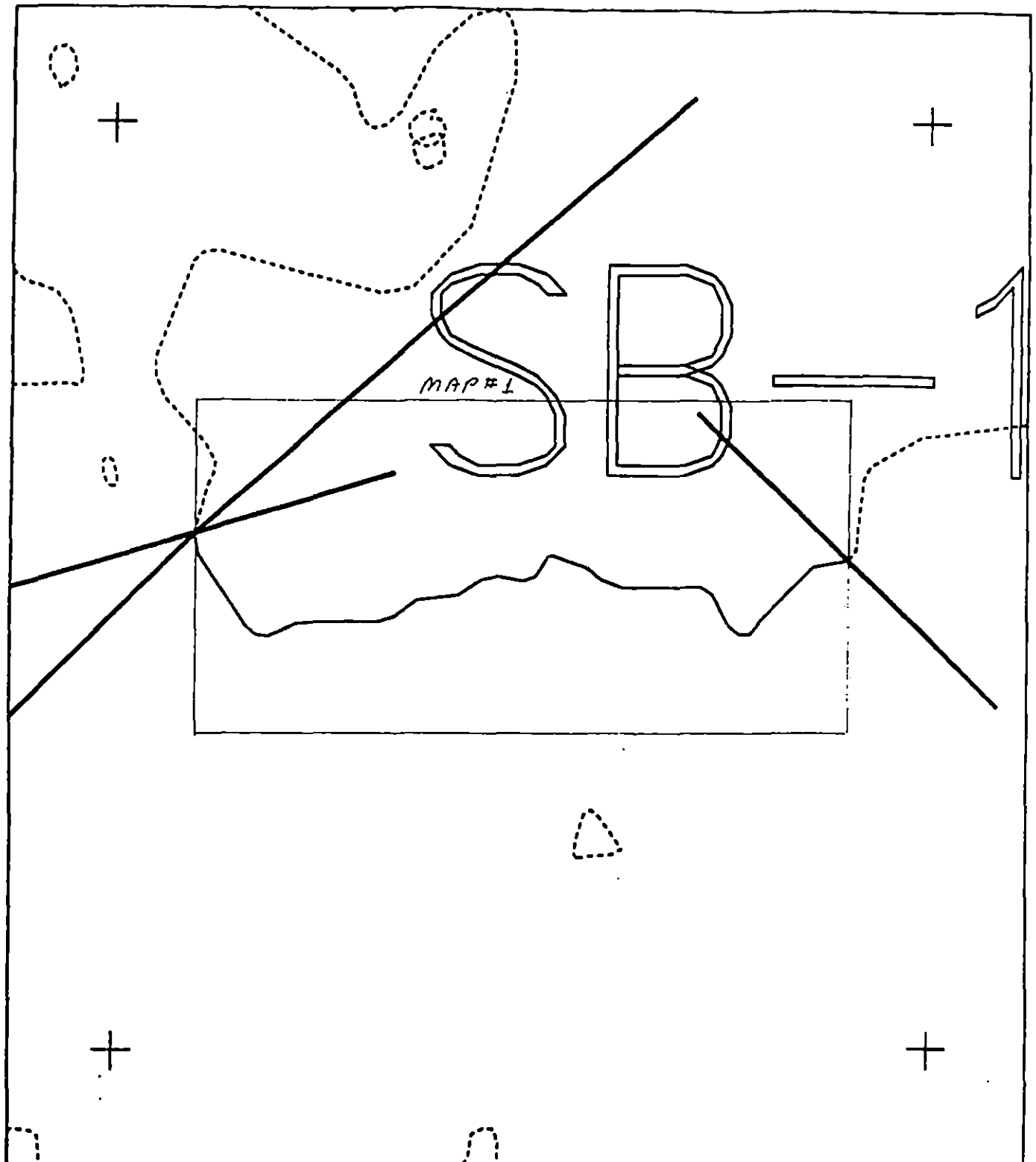
NAME CWO R. SPURR/G. SHIGENAKASIGNATURE R. Spurr / G. Shigenaka

- ☒ NTR Small amounts of highly weathered mousse/sor were observed in this segment. I would not recommend clean up of this for the reasons listed by NOAA Rep.

SURVEYED PORTION OF THE SEGMENT WAS A RUGGED, IRREGULAR PIECE OF SHORELINE IN SPIROVON BAY. THIS WAS, TO BE UNDERSTATED, A DIFFICULT SEGMENT TO SURVEY. MOST OF THE SHORELINE CONSISTED OF ANGULAR BOULDERS OR BEDROCK FACES, MAKING TRAVERSING SLOW AND SOMEWHAT RISKY. THOSE PARTS OF THE BEACH AT THE NITZ LEVEL OR BELOW WERE COVERED WITH ALGAE AND WERE VERY SLICK. OBSERVED OILING ALONG THE SEGMENT WAS VERY INFREQUENT AND MOSTLY COAT. A FEW EXAMPLES OF WEATHERED MOUSSE/SOR WAS SEEN IN THE BOULDER SUBSTRATE. ~~SOME BOULDERS~~ AT THE BEGINNING OF THE SEGMENT WERE BROKEN UP BY THE CO CREW, BUT ALL OTHER OIL OBSERVED WOULD NOT WARRANT FURTHER ATTENTION FOR THREE REASONS: SMALL AMOUNT; EXPOSED NATURE OF SHORELINE; AND DIFFICULTY IN ACCESS.

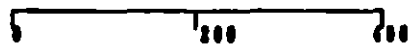
DATE 29 May 191

Revised: MC 6/3/91



K0620 SB010 A

METERS



AS State Plane Zone 4,
80020688100-4.

Subdivision Field Map

Map Key: 601X062000010A

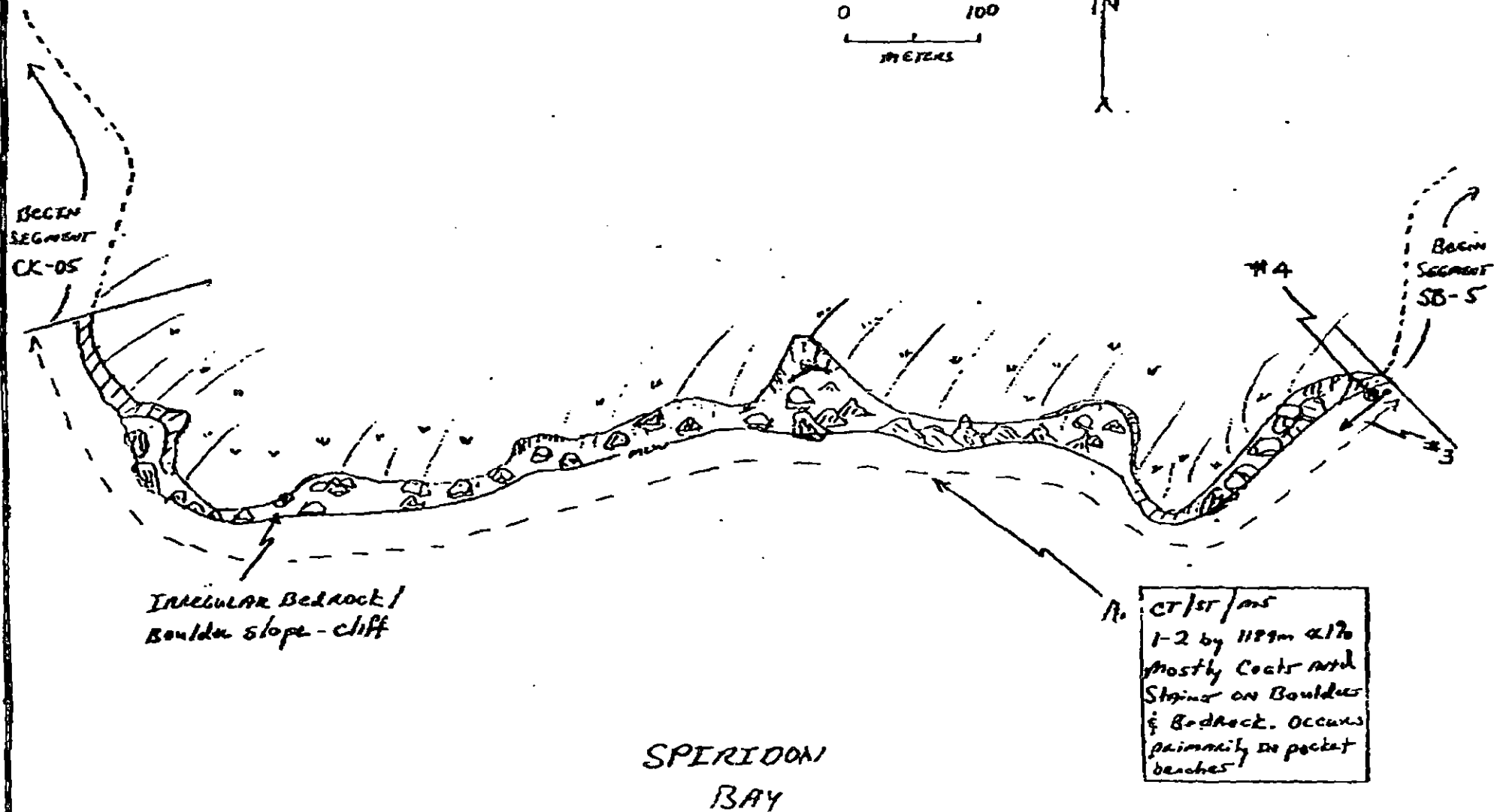
Name: D.M. Fitzgerald

Date: 29 May 1991

PHOTO SITES SB-10A
ROLL 6- FRAMES 3 & 4

SKETCH MAP (06)
KODIAK ISLAND
D. M. F. AGERALD
29 May 1991
930 to 1035

KODIAK ISLAND



AYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K06-20 SB-10

TIDAL HEIGHT(Range)-1.4M - 1.4M (9:30 - 10:35)

SUBDIVISION M

BIOLOGIST H. Davis

SEA STATE 1-2 ft

WIND SPEED/DIRECTION 10 kts

SE

PHOTOGRAPHS: ROLL # 6-25

FRAME # 3+4

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

This segment was a tortuous, irregular shoreline of angular boulders and steep bedrock faces. However, this was one of the most diverse regions I have seen in Alaska. There was an extensive algal cover: *Fucus*, *Ulva*, *Halosaccion*, *Laminaria setchellii*, *Alaria*, *Scytosiphon*, *Borsella*, *Coastline*, *Dridaea*, and the grass *Phyllospadix*. The animal population was equally diverse: Barnacles (*B. glandula*, *B. canaliculatus*, *Tetradium B. auriculatus*), Gastropods (*Nucella lima* + *canaliculata*, *Littorina*, *Lacuna*, *Gibberella scabra* + *digitalis*, *Nitidulites*, *scutellum* + *persona*), Chitons (*Katharina*, *Mopalia*, *Tonacella*), Seastars (*Henricus*, *Evasteria*, *Pisaster*, *Liptasteria*), Anemones (*Anthopleura*, *Callia*, *Epicleris*), *Cucumaria*, *Mytilus*, *Halichondria*, amphipods, bryozoans, flatworms, Nematodes, spirorhis and many more.

Removing the very infrequent coal and weathered rock would not be worth the disturbance to this area or the danger to workers (it is a hard climb and very slippery).

Kittiwakes (6) Cormorant (2)

Eagles (2) Glaucous-winged Gulls (10) Oystercatchers (4) Rock Sandpipers (2)

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	2	Sculpins
Seabirds	1	2	Blenny
Waterfowl	0	0	
Gulls/Kittiwakes	2	16	
Shorebirds	2	6	
Corvids	0	0	
Other Birds	0	0	

LAND MAMMALS

MARINE MAMMALS	# OBSERVED	SPECIES	# OBSERVED
Sea Otters	2 w/pup	Deer Tracks + scat	
Pinnipeds (specify)	0		
Whales (specify)	0		

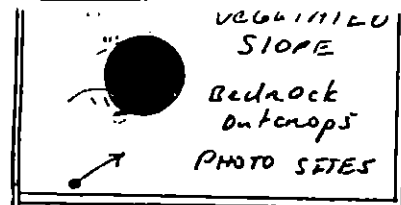
Shoreline subdivision map showing important biological features attached.

End of Log

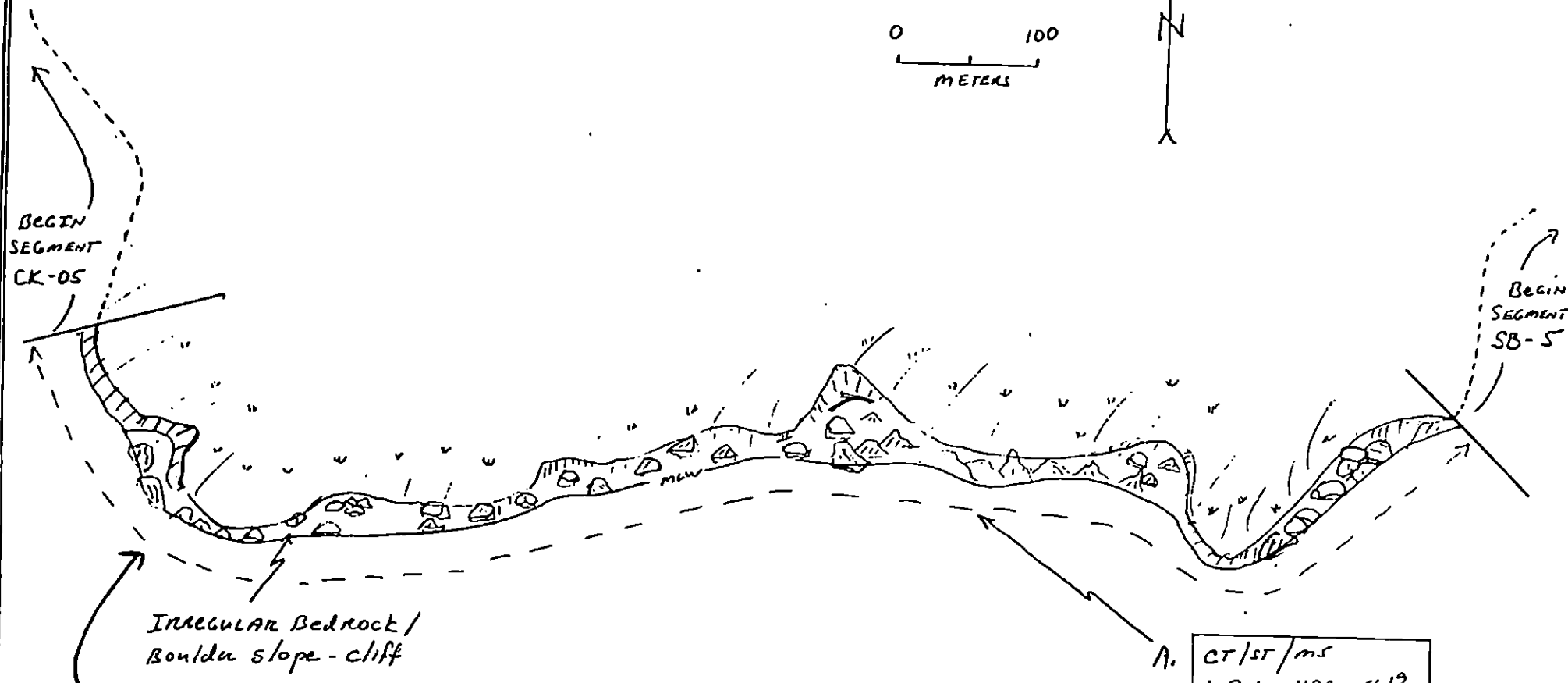
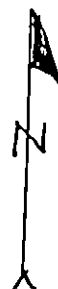
Big Map
H. Davis

SB-4 MAP (06)
K 20-SB-10-A
D M. FITZGERALD
29 May 1991
930 to 1035

KODIAK ISLAND



0 100
METERS



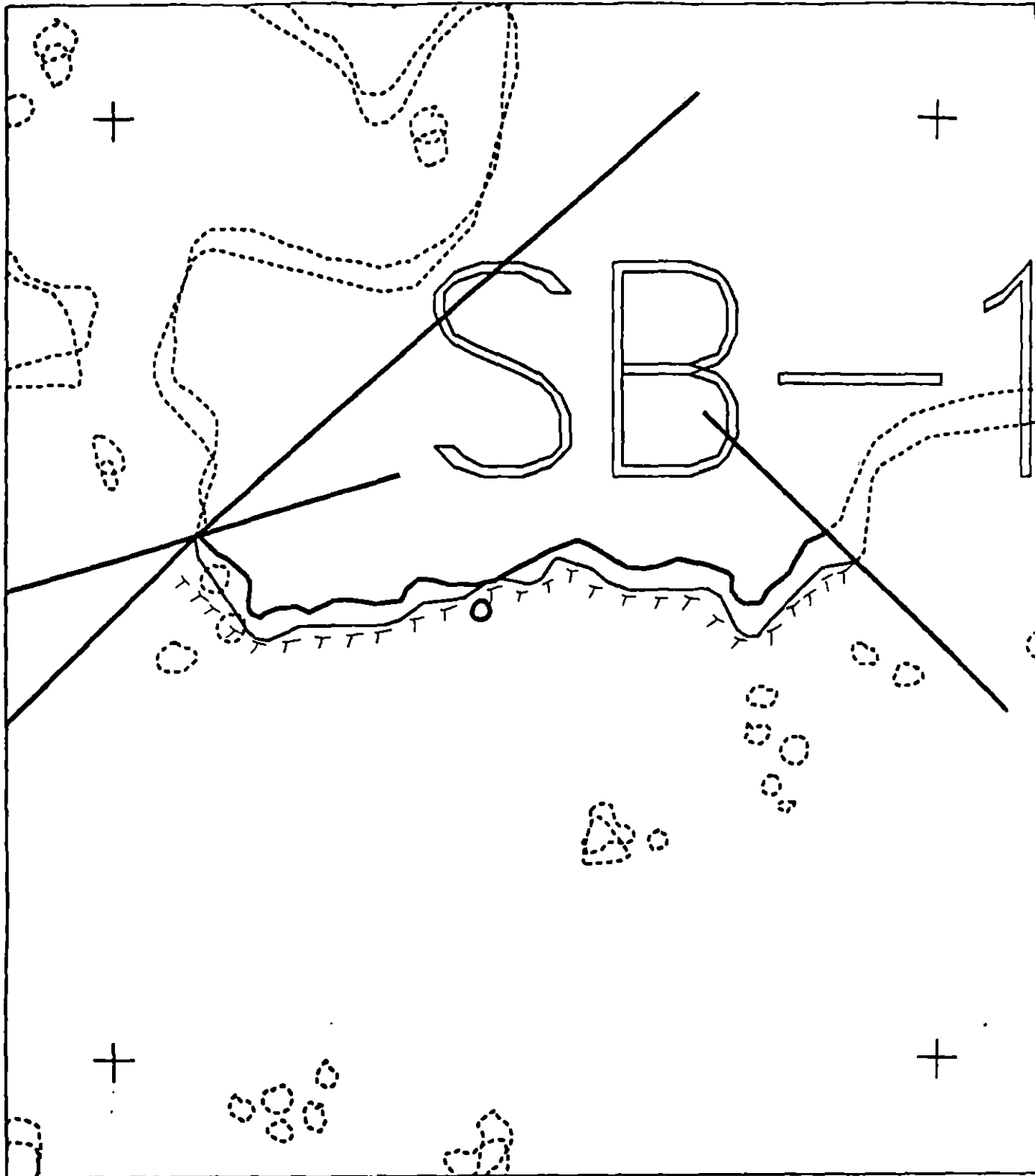
Site A

This is a very rich, diverse intertidal community.

It is also a tricky area to move across. Any
clean ups would be disruptive to the
animals and dangerous to the workers.

SPIRIDON
BAY

A. CT/ST/MS
1-2 by 1189m & 190
mostly Coats and
Stains on Boulders
& Bedrock. Occurs
primarily in pocket
beaches



XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

K0620 SB010 A
 ADEC Subsegment Length: 1189m
 METERS
 0 200 400
 AK State Plane Zone 4
 6062056010a- . . .

Subdivision Field Map
 Map Key: 60AK0020SB010A
 Name: D. M. Fitzgerald
 Date: 29 MAY 1991
 Date Entered:



Reviewed: MC 6/3/91

REGION: KODIAK

SEGMENT: K06-34-SL-01

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-01 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 97 m: No Oil 272 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat: ☐ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS: Manual pick up of mousse and patties. Work restricted to before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

SL-01-A

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
 7HH Finfish harvesting
 7II Deer harvesting (8/1 to 1/7)
 7JJ Invertebrate harvesting
 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34 SL 01 SUBDIVISION: K6-34-2L-1A DATE 4-4-90

CG
NAME D.D. Haren Jr. GM3 USCG SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

all areas less than 1% coverage. Cannot justify treatment

ADEC
NAME Francine J. Bennis SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Very sporadic MS/MS PATCHES are present in this area of Sturgeon Lagoon. A small clean-up crew should also cruise this segment & pick up the retrievable oil.
SSAT Field map should accompany clean-up crew

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE [Signature] USFWS

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Concur with ADEC representative.
JPH

John Merrick
Concur - if a team in the area a small effort here would be beneficial
John Merrick Konaig Inc
REVISION NO 03/21/90

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Flaven SEGMENT ST/ K6-34-SL-1
 BIO Davis LAND REP USFWS Hardinger SUBDIVISION K6-34-SL-1A
 EXXON Avery ADEC Bennis TIME 5:20 to 5:45
 TEAM NO.: 20 TIDE LEVEL: +1.5 to +1.5 DATE 4 / 4 / 90
 ST. SUBDIVISION LENGTH: 410 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 0 % B 0 % C 20 % P 20 % G 20 % S 10 % M 20 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 100 m NO 310 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	S	SB	DB	GY	BL	TL	LR	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT				✓		✓							✓	
STAIN														
MOUSSE			✓					✓					✓	
PATTIES			✓					✓					✓	
TARBALLS														
FILM														
NO OIL											✓	✓		✓

PAVEMENT: H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. 20-3Frames 16-18

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SB	DB	GY	BL	TL	LR	SU	U	M	L		
1	30					✓	-											✓			MGC
2	40					✓	-											✓			MGC
3	30					✓	-											✓			MGC
4	40					✓	-											✓			MGC
							-														
							-														

COMMENTS A 2m band of very sporadic CT/S + MS/P extended ^{approx. 100m} into this section from K6-34-SL-2A. Band is < 1% coverage. Additionally, 2 mousse patties approx 12cm in diameter and 2 cm in thickness were observed at the south end of the section. Washed entire section.

REVISION: 03/24/00

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K06-34 Subdivision SL01A Date (mo / day / yr) 4-4-90Time (24 hr) 17:00 Biologist J. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock _____ (2) Boulder _____ (3) Cobble 20 (4) Pebble 30 (5) Sand 20 (6) Silt 30
- (B) Overall % cover of biota (% of segment): Dense _____ Moderate 30% Low 70% (25%)
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (O)

Photographs:
Roll No. ST-20-3Frames 16-18

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT 1, 2, 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT 1, 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT 1, 2, 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT 1, 2, 5, 6
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: Fewer mussel beds and they are further out. Glaucous winged Gulls are on the beds. 2 adult eagles seen. (1 flying (standing on mud flat area) 10-15 Pintails, 10+ Glaucous winged Gulls.

Ecological Considerations: (1A, 1B, 8AA) This section is part of an estuary area that provides food shelter and breeding habitats to many species of birds, mammals and fish.

ASC # 256-40 # 10010

SL-2

SL-1

SL

K6-34-SL-1A

XXXX Wide	SL-1	K6-34-SL-1A
/// Medium		Map Key: GOA-274
--- Narrow	ADEC Segment Length: 369m	Name: <u>Acton</u>
TTTT Very Light		Date: <u>4-4-90</u>
0000 No Oil	 METERS	Data Entered: _____

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-01 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Shuman DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 97 m: No Oil 272 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Manual pick up of mousse and patties. Work restricted to before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC John Baker John Baker

EXXON Andy Ten Andy Ten

NOAA Bar/Wesscott Bar/Wesscott

USCG G.A. Reiter G.A. Reiter

FOSC: WJL DATE: 5-1-90

OG ASEGMENT ST/K6-34-SL-1SUBDIVISION K6-34-SL-1ADATE 4 / 4 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ O: D.st.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Fst. HW/LVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pt - No Subsurface Oil

2 Δ

Pt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Oiled Vegetation

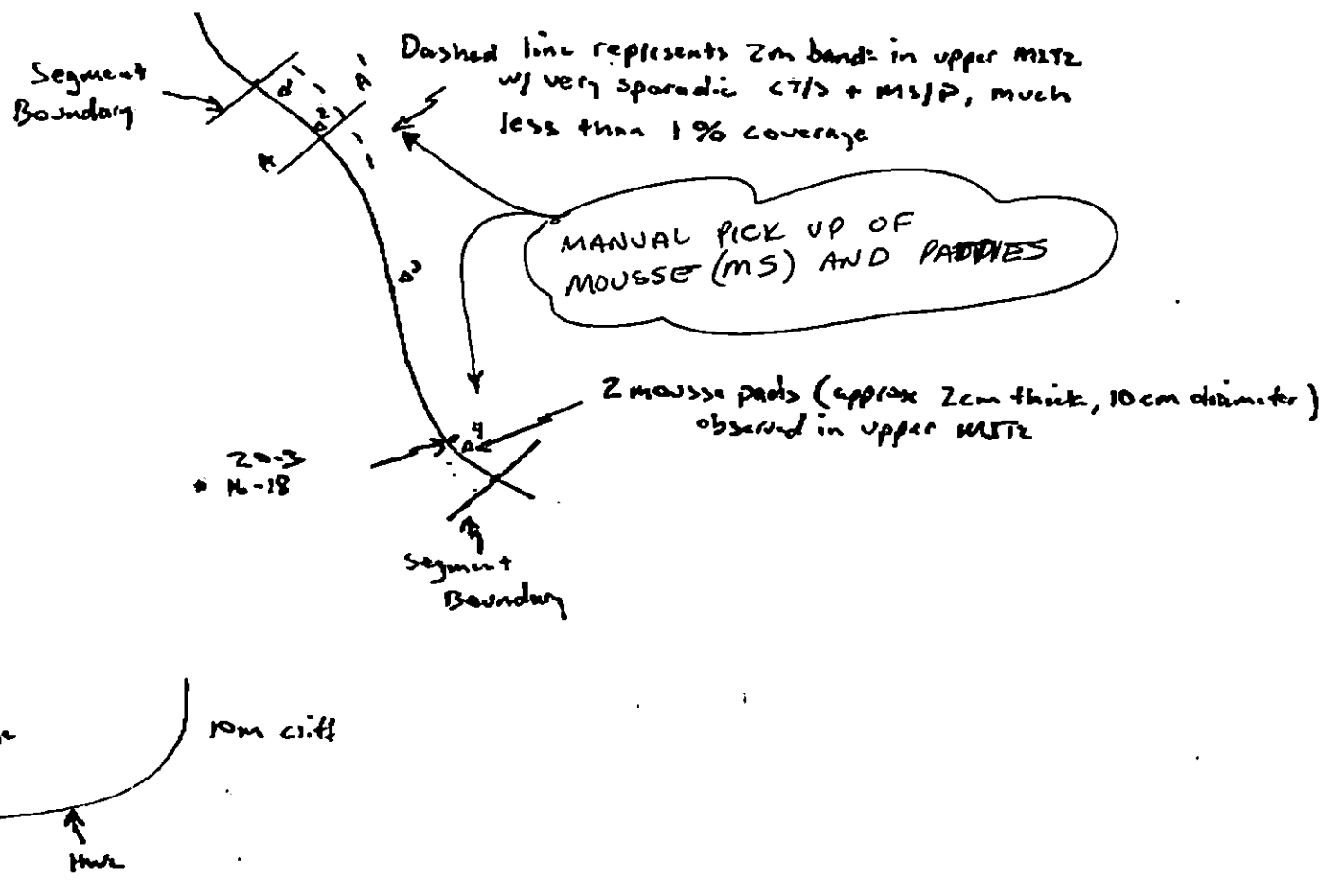
1 $\rightarrow$ Photo location, direction,
and number

ETCH MAP

N ↑

Approx Scale

1cm = 50m

Oil Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 100 PT 0 TB 0 FL 0 NO 310

REVISION: 03/24/00

SL-1

SL-

SL-1

ADEC Segment Length: 369m

TTTT Very Light

A horizontal scale bar labeled "METERS" with markings at 0, 100, 200, and 300.

K6-34-SL-1A

Map Key: GOA-274

Name: Acton

Date: 4-4-90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL-01 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	WORK BEFORE 7/10

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous streams (256-40-10010 and 256-40-2003) are more than 100m from work site. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unrolled blots and substrate. Sensitive estuary.

FOSC

[Signature]

Date

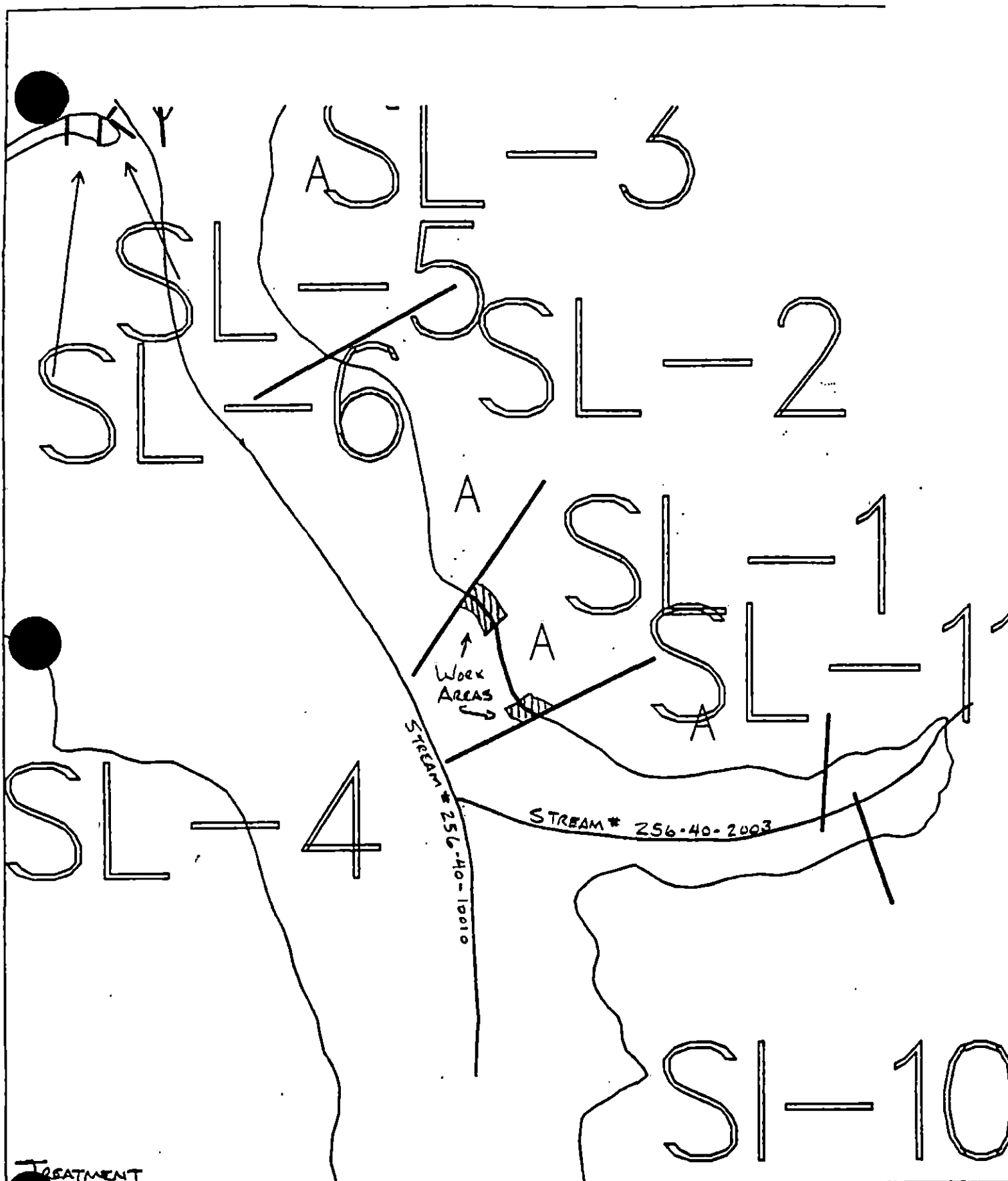
6-15-90

Prepared by

[Signature]

Date

6/15/90



TREATMENT



Exxon Company, USA
Map Keys K00-SL-1



SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-01 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Johnson DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 97 m: No Oil 272 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Manual pick up of mousse and patties. Work restricted to before 7/10.

SIZE CONSTRAINTS ADDENDUM dated 6/15/90 PPA

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER John
EXXON ANDY TEE Andy FOSC: WJL DATE: 5-1-90
NOAA Burke Glescott Burke
USCG G.A. REITER G.A. Reiter

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-02 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

SHPO SIGNATURE

Charles E. Johnson

DATE:

April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 428 m: No Oil 348 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X Manual Pickup

 Bioremediation

 Tarmat: Breakup

 Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Manual pick up of mousse and oiled debris. Work to be conducted before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE:

ADEC

AL KUZAK

EXXON

ANDY TEAL

NOAA

Bur/Warrent

USCG

G.A. REITER

4/14/90

FOSC:

My L

DATE:

5-1-90

Acton
GMENT ST/ KL-34-SL-2

DIVISION KL-34-SL-2A

TE 4 / 4 90

CHECKLIST

N Arrow
Approx. Scale
Seg/Sub Bndy
O.I. Dist
Width
Length
% Cover
Substrate Character
Est. HML/LYL
SSL
Profile Location(s)
Profile(s)
Pt Location(s)
Photo Location(s)

GEN2

1 Δ
No Subsurface Oil

2 Δ
Subsurface Oil

CT/C
No. of Distribution

CT/B
m Distribution

CT/P
y Distribution

CT/S
red Distribution

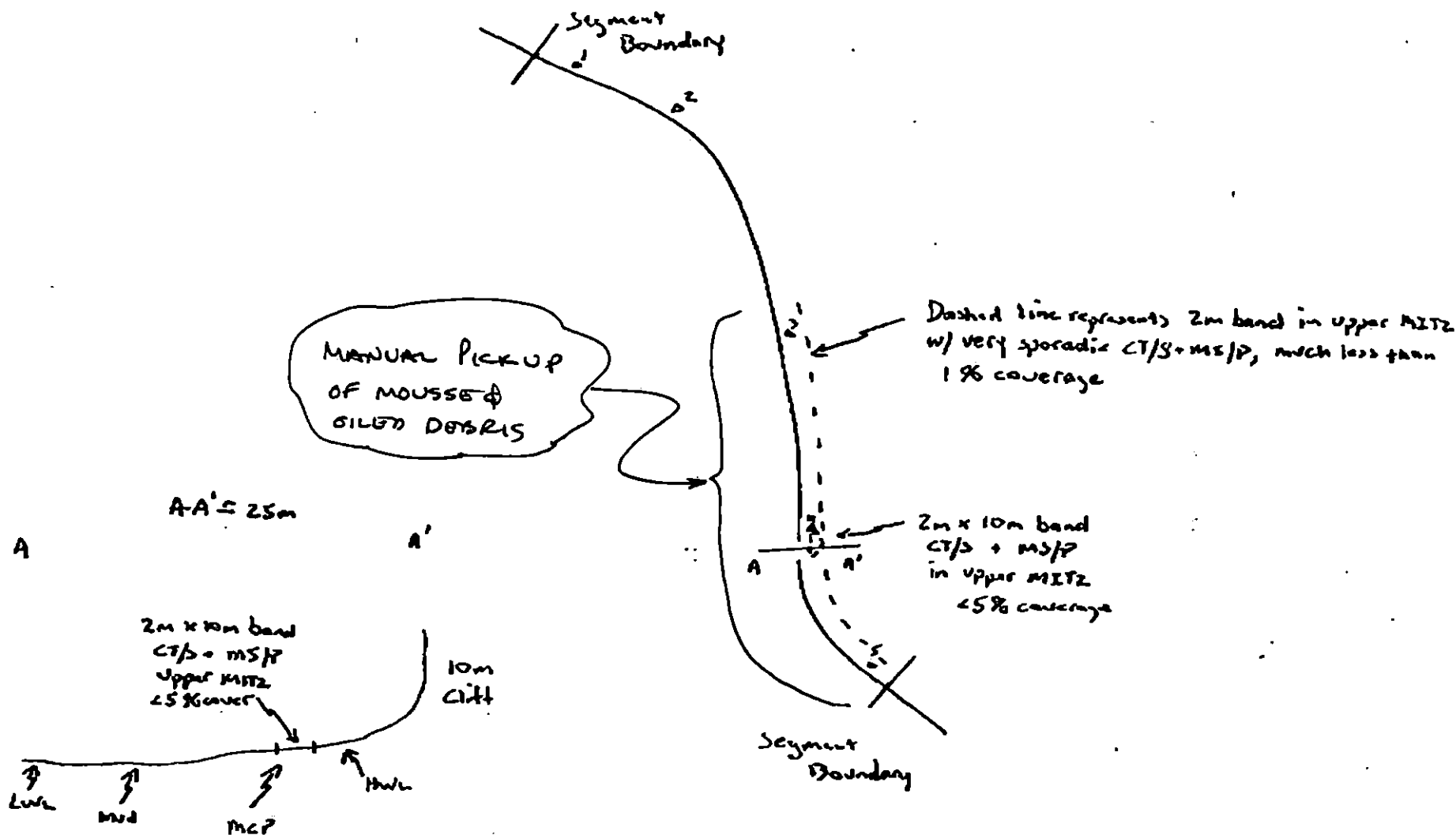
Vegetation

location, direction,
number

SKETCH MAP

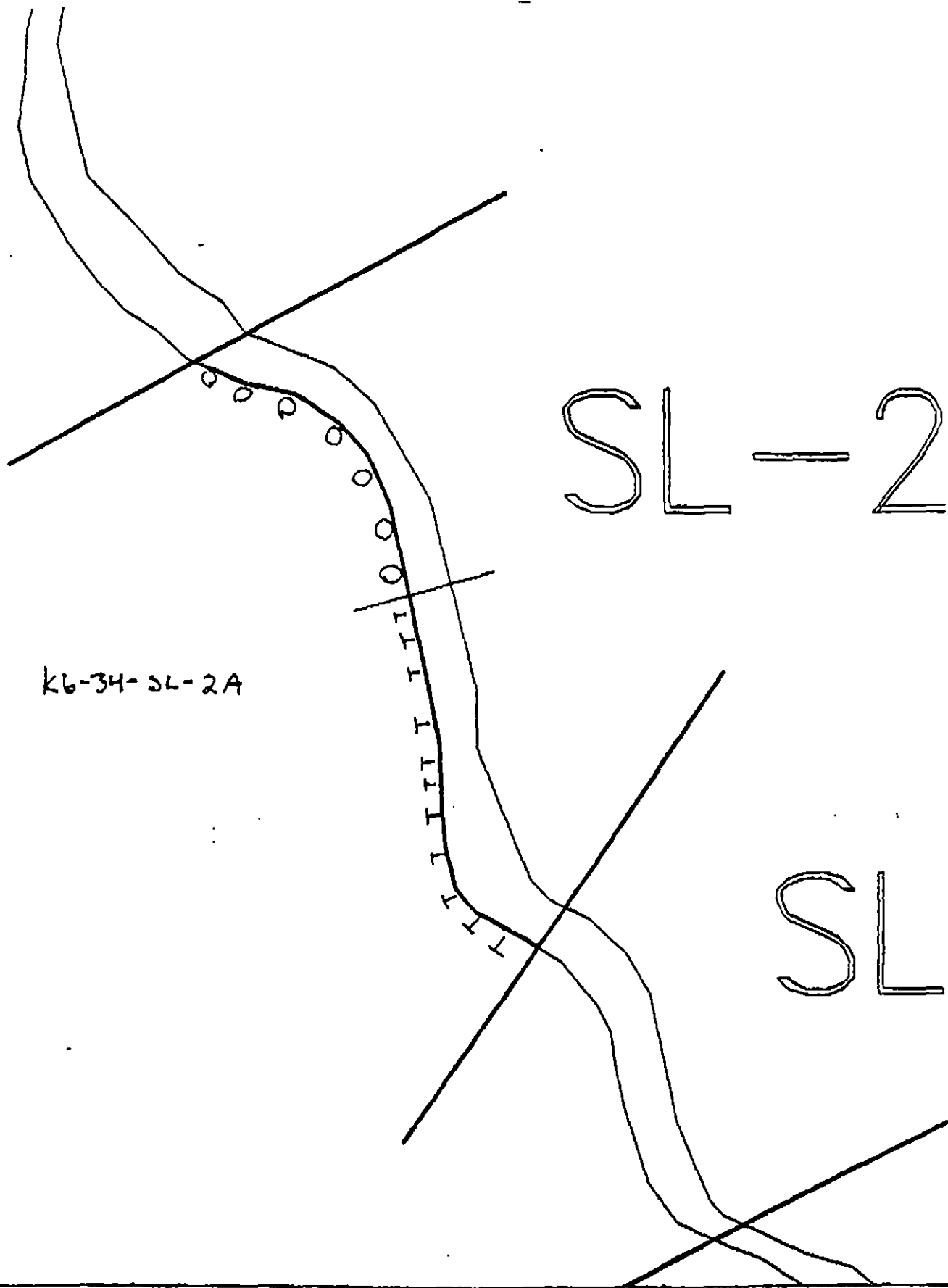
Approx Scale
1cm ≈ 50m

N ↑



Fracture Length (m): AP 0 PO 0 CV 0 CT 400 ST 0 MS 400 PT 0 TB 0 FL 0 NO 342

REVISION 02/94/98



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-2

ADEC Segment Length: 742m



KG-34-SL-2A

Map Key: GOA-191

Name: Acton

Date: 4-4-90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL-02 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL INSPECTION/CONSULTATION REQUIRED.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

Sensitive estuary. No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

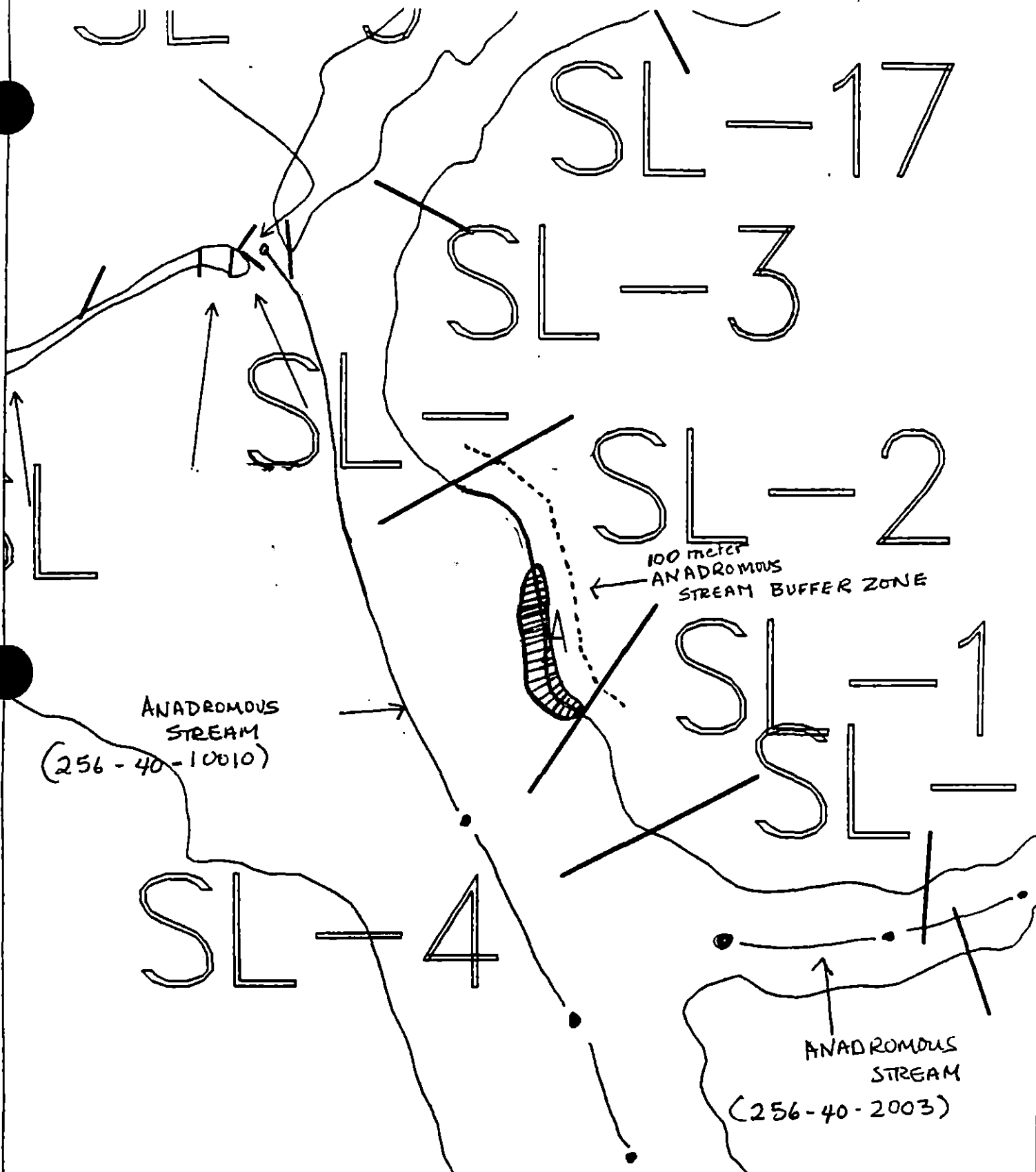
TAG APPROVAL DATE _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC _____

DATE 6-10-90

Prepared By: Ray R. Coulter

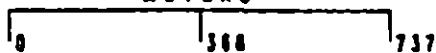
Date 06/09/90



Exxon Company, USA
Map Key: KOD-SL-2
May 17, 1990



ECOLOGY MAP
SEGMENT SL-2
SUBDIVISION A (1 of 1)
METERS



- ★ Seabird Colony
- ▲ Eagle Nest

1 inch = 1209 feet

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-02 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

SHPO SIGNATURE Charles E. Hansen DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 428 m: No Oil 348 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Manual pick up of mousse and oiled debris. Work to be conducted before 7/10.

SEE CONSTRAINT ADDENDUM
DATED 06/10/90 RexC.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC AL Kizgush
EXXON ANDY TETZ
NOAA Bar/Warrent
USCG G.A. REITER FOSC: W L DATE: 5-1-90

REGION: KODIAK

SEGMENT: K06-34-SL-02

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-02 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 428 m: No Oil 348 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat: _____ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS: Manual pick up of mousse and oiled debris. Work to be conducted before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

SL-02-A

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotai Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34 - SL-2 SUBDIVISION: K6-34-SL-2A DATE 4-4-90

USCG

NAME D.D. Haven Jr., GMS, USCGR SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

The amount of oil present does not justify the dedication of personnel for clean-up. The only reason I suggest treatment is due to the presence of clean up debris (pom-poms) that needs to be picked up. While there are workers out there, they may as well try to get some of the oil.

ADEC

NAME Francine J. Bennis SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

A small band of mousse patties/mousse saturated sediments (2m x 10m) exists. Comments remain the same as those for SL-03.
A small-scale manual clean-up is recommended.
SSAT field map should accompany clean-up crew.
Some pom-poms are present in UITE, & should be removed.

LAND MANAGER

NAME John P. Hardister SIGNATURE [Signature] USFWS☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Concur with comments of both USCG and ADEC representatives.

John Merrick

John Merrick Koniag, Inc

Concur with above recommendations

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ K-34-SL-2
 BIO Davis LAND REP VFW's Harbor SUBDIVISION K-34-SL-2A
 EXXON Avery ADEC Bennis TIME 5:00 10:50
 TEAM NO.: 20 TIDE LEVEL: +1.5 10 +1.3 DATE 4/4/90
 ST. SUBDIVISION LENGTH: 742 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo 16 WORKING DIRECTION: N 10 S
 SURFACE SEDIMENTS: R 0 % B 0 % C 20 % P 20 % G 20 % S 10 % M 20 % V 20 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 400 m NO 342 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	10	15	20	25	BR	OR	OL	OF	NO	SU	UI	ME	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓		✓

 PAVEMENT: H F S 0 sq. m by 0 cm

 PATTIES / TARBALLS 0 BAGS

 NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

 TYPE 1/1-0

 #BAGS 0

Photographs:

 Roll No. 0

 Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	BR	OR	OL	OF	NO	SU	UI	ME	U		
1	30					✓	.										✓			MGP
2	30					✓	.										✓			MGP
3	30					✓	.										✓			MGP
4	40					✓	.										✓			MGP
5	30					✓	.										✓			MGP
							.													

COMMENTS A 2m band of very sporadic CT/S + MS/P (< 1% coverage) was observed for approx. 400 m in the upper MITE. An area approx 2m x 10m w/in this band had a slightly higher CT/S + MS/P concentration (< 5% coverage).
 Varked entire segment.

3. Acton
 SEGMENT ST/ KL-34-SL-2
 DIVISION KL-34-SL-2A
 DATE 4 / 4 90

SKETCH MAP

Approx Scale
 1cm $\approx$ 50m
 N $\uparrow$

CHECKLIST

☐ N Arrow
☐ Approx. Scale
☐ Seg/Sub Bndry
☐ O: Dist
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. HWA/LWA
☐ SSL
☐ Profile Location(s)
☐ Profile(s)
☐ Pt Location(s)
☐ Photo Location(s)

LEGEND

1 Δ
 No Subsurface Oil

2 Δ
 Subsurface Oil

CT/C
 CT/S Distribution

CT/B

CT/P Distribution

CT/P

CT/S Distribution

CT/S

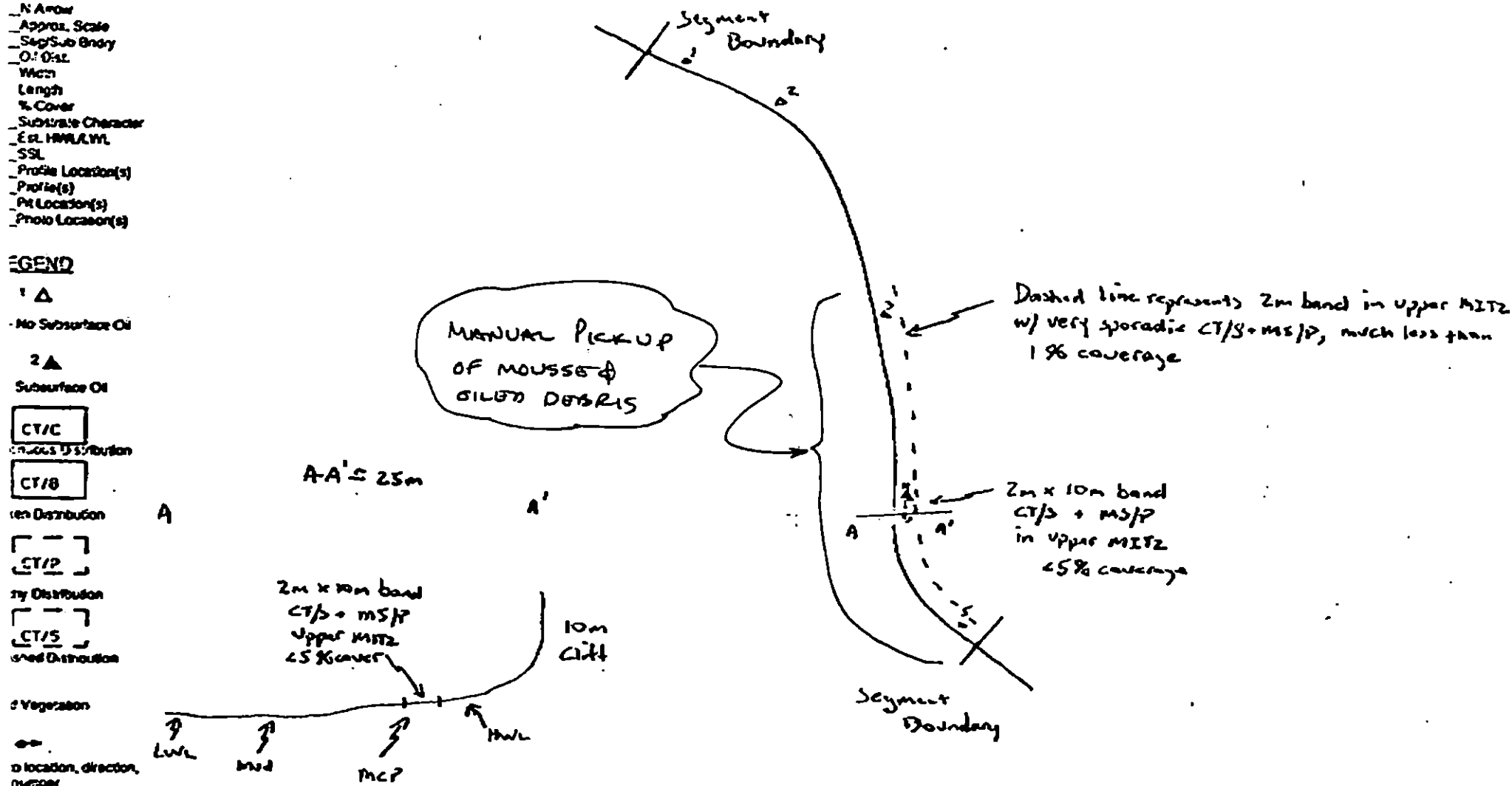
CT/S Distribution

Vegetation

to location, direction,
 number

Character Length (m): AP ☐ PO ☐ CV ☐ CT ☒ 400 ST ☐ MS ☒ 400 PT ☐ TB ☐ FL ☐ NO 342

REVISION: 02/24/98



SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/K06-34 Subdivision SL-02A Date (mo/day/yr) 4-4-90Time (24 hr) 16:30 Biologist H. Davis

(A) Substrate type and % of segments:

(1) Bedrock (2) Boulder (3) Cobble 30 (4) Pebble 30 (5) Sand 30 (6) Silt 30(B) Overall % cover of biota (% of segment): Dense 10% Moderate 50% Low 40% (30%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles/adults (X), new settlement (⊙)

Photographs:

Roll No. ST-20-3Frames

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	X	X	X	X	3	X	3	3	3	3
4	4	X	X	X	X	4	X	4	4	4	4
5	5	X	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 3, 5, 6

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	X	2	2	2	2
3	3	X	3	3	X	3	3	X	X	X	3
4	4	X	4	4	X	4	4	X	4	4	4
5	5	X	5	5	5	5	5	5	5	5	5
6	6	X	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 5, 6

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	X	X	3	X	X	3	3	3
4	4	4	4	X	X	4	X	X	4	4	4
5	5	5	5	5	X	5	5	X	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 2, 6

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	X	3	X	3	X	X	X	X	3	3
4	4	X	4	X	4	X	X	X	4	4	4
5	5	X	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 2, 5, 6

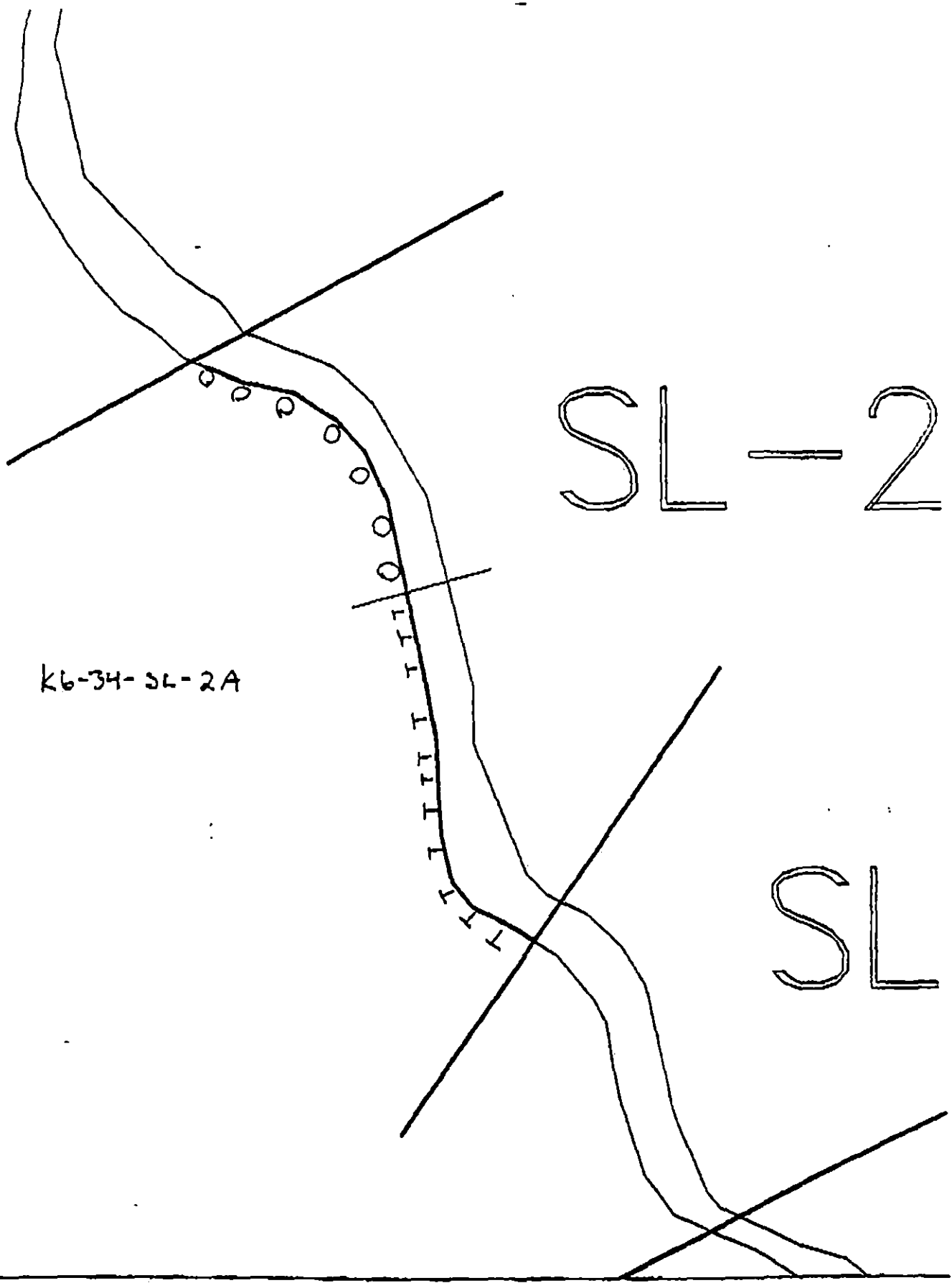
Wildlife Observations/ General Comments: Soft cliffs above the intertidal look to have slumped. often sediment is very soft. Eelgrass beds visible in deeper water. Dense mussle patches with some Fucus cover in low intertidal area. (2) oyster catches seen on mussle beds. Parts of the Mytilus beds are on fine sediment held up by the mussles next to them.

Ecological Considerations: (1A, 1B, 3AA) This is an Estuary area that provides food, shelter and breeding habitats to many species of birds, mammals and fish. In front of this section are patches of dense Mytilus.

ASC# 256-40, #10010

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotai Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
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- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
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- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



SL-2

K6-34-SL-2A

SL

SL-2

K6-34-SL-2A

Map Key: GOA-191

Name: Acton

Date: 4-4-90

Date Entered:

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

ADEC Segment Length: 742m



SHORELINE EVALUATION

SEGMENT ST/K06-34-SL-03 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream outmigration (4/15 to 7/31)

1B Salmon spawning (7/15 to 9/10; PEAK 8/15)

8AA Sensitive Estuary

No disturbance of stream beds or banks unless authorized by ADF&G.
Contact ADF&G Habitat Division prior to treatment for permits.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to oiled substrate and biota. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. H. Jones DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 21 m: No Oil 839 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Recommend manual pick up of mousse and oiled trash. Work should be conducted before 7/10, per above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90

ADEC Mr. Heinen

EXXON ANDY TOL

NOAA Burt Wescott

USCG G.A. REITER

FOSC:

DATE: 4-20-90

OG Acton

SEGMENT SL-3

SUBDIVISION KL-34 SL-3A

DATE 4 / 4 / 90

SWITCH MAP

Approx Scale

1cm $\approx$ 50m

CHECKLIST

- ☐ K Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bdry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAVLAW
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Oil Vegetation

1 $\Rightarrow$

Photo location, direction, and number

MS/P - 3 cobbles

w/ mousse

mousse approx 0.5cm x 2.5cm

on each cobble

- in upper MITZ

MANUAL PICKUP
OF MOUSSE (MS)
AND OILED TRASH

Segment Boundary

20-3
#13

Pom-Poms at base of cliff in upper MITZ.

A-A' $\approx$ 25m

A

A'

2m x 10m band CT/S, MS/P
45 % coverage
in upper MIT zone

20-3
#14,15

Segment Boundary

2m x 10m band
CT/S + MS/P,

upper MITZ

10m
cliff

LWL
mid
M.C.P
HUL

Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT 25 ☐ ST ☐ MS 25 ☐ PT ☐ TB ☐ FL ☐ NO 779

REVISION: 307/4/90

SL-

SL-3

K6-34-SL-3A

SL-5

10m. Ref

Segment Boundary

SL

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-3

ADEC Segment Length: 804m

0 100 200 300
METERS

K6-34-SL-3A

Map Key: GOA-192

Name: Acton

Date: 4-4-90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL- 03 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

Sensitive estuary. No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unopened biota and substrate.

TAG APPROVAL DATE _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

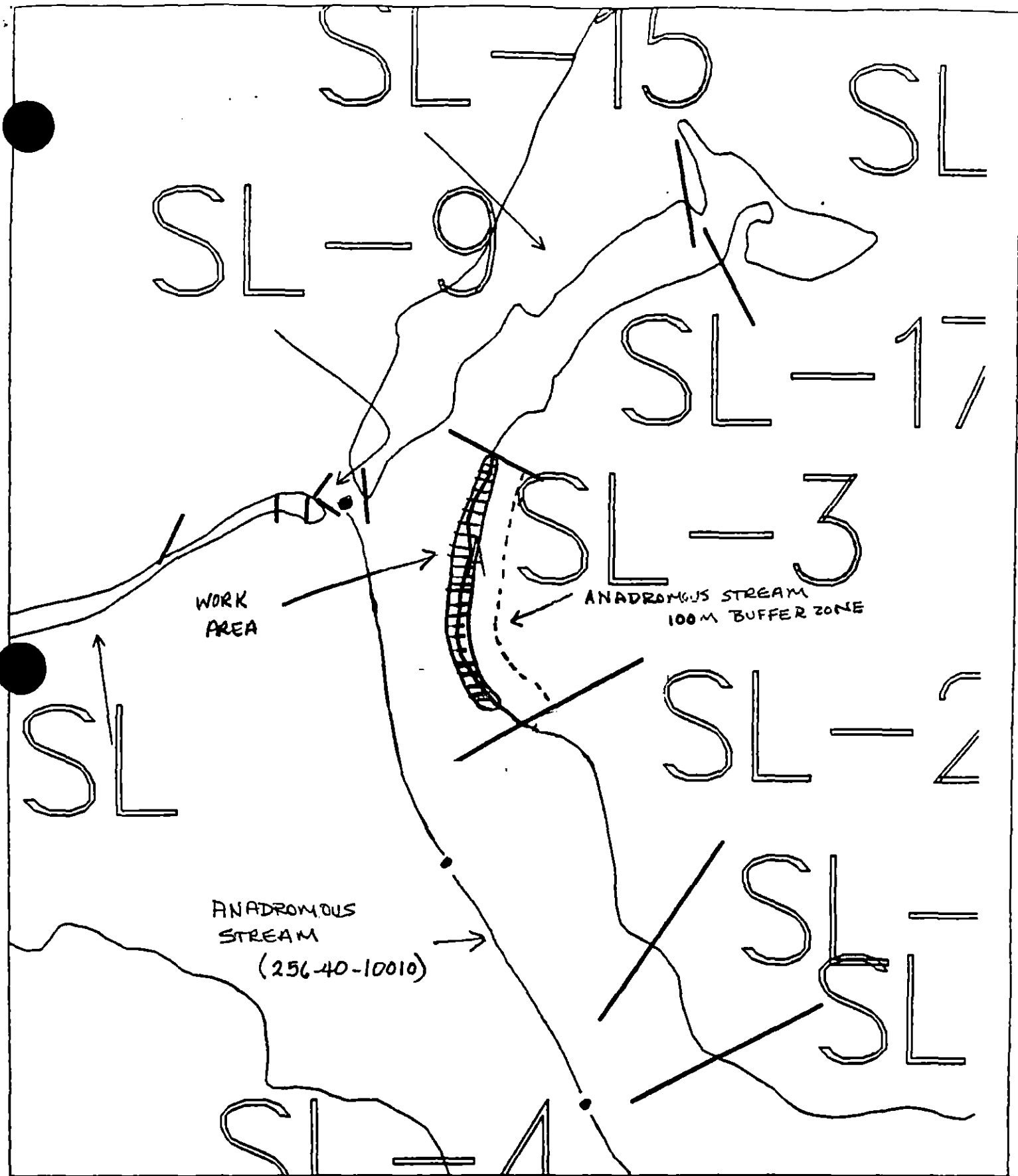
FOSC

DATE

6-10-90

Prepared By: Rev. D. Coulton

Date 06/19/90



Exxon Company, USA
Map Key: K00-SL-3
May 17, 1990



ECOLOGY MAP
SEGMENT SL-3
SUBDIVISION A (1 of 1)
METERS

0 333 705



Seabird Colony



Eagle Nest

1 inch = 1157 feet

SHORELINE EVALUATION

SEGMENT ST/K06-34-SL-03 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream outmigration (4/15 to 7/31)

1B Salmon spawning (7/15 to 9/10; PEAK 8/15)

8AA Sensitive Estuary

No disturbance of stream beds or banks unless authorized by ADF&G.
Contact ADF&G Habitat Division prior to treatment for permits.

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Avoid disturbance/damage to unoiled substrate and biota. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Hansen DATE: 4/12/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 21 m: No Oil 839 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Recommend manual pick up of mousse and oiled trash. Work should be conducted before 7/10, per above constraints.

SEE CONSTRAINT ADDENDUM
DATED 06/10/90 REXC.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90

ADEC [Signature]
EXXON ANDY TATE FOSC: DATE:
NOAA Burt Westcott
USCG G.A. BEITER

REGION: KODIAK

SEGMENT: KO6-34-SL-003

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/K06-34-SL-03 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream outmigration (4/15 to 7/31)

1B Salmon spawning (7/15 to 9/10; PEAK 8/15)

8AA Sensitive Estuary

No disturbance of stream beds or banks unless authorized by ADF&G.
Contact ADF&G Habitat Division prior to treatment for permits.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled substrate and biota. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 21 m: No Oil 839 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat: _____ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS: Recommend manual pick up of mousse and oiled trash. Work should be conducted before 7/10, per above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 10634 - SL-3 SUBDIVISION: K6-34-SL-3A DATE 4-9-90

SCG

NAME D.D. Haven Jr. GM3, USCG SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Mousse is not present in quantities that warrant treatment, but mousse is now weathering in this low energy very rapidly; so I recommend treatment (low priority small scale) due to the lack of weathering of the oil.

ADEC

NAME Francine T. Bennis SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Walked entire segment. A small band of mousse patches/MS-saturated sediments are present in northern portion of segment, just below cabin.

A small-scale manual pick-up of is recommended. This oil has remained static over the winter & is likely to persist for some time if not removed.

SSAT Field maps should accompany clean-up crew.

LAND MANAGER

NAME JOHN P. HARDISTER SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

USFWS

Concur with comments of ADEC representative. Observation of mousse patches disclosed a weathered condition that indicates their placement over-winter. Consideration for removal is warranted.

John Merrick

John Merrick

Kongas Inc.

REVISION NO. 002170

If a clean up effort is made this summer this area should be monitored

REVISION NO. 01/22/10

SURFACE OIL

Frames 13-15

REVIEWED BAT DATE 7 Apr 90

OG Ag

SEGMENT KL-34-SL-3

SUBDIVISION KL-34-SL-3A

DATE 4 / 4 / 90

ATCH MAP

Approx Scale

1cm $\approx$ 50m

CHECKLIST

- ☐ K Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAV/LA, WL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pic Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction, and number

MS/P - 3 cobbles

w/ mousse

mousse approx 0.5cm x 2.5cm

on each cobble

- in upper MITZ

MANUAL PICKUP
OF MOUSSE (MS)
AND OILED TRASH

Segment Boundary

20-3
#15

Pom-Poms at base of cliff in upper HIVE.

A-A' $\approx$ 25m

A

A'

2m x 10m band CT/S, MS/P
45 % coverage
in upper MIT zone

20-3
#14, 15

2m x 10m band
CT/S + MS/P,
upper MITZ

10m
cliff

Segment Boundary

LWL Mid M.C.P. HIVE

M.C.P.

Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT 25 ☐ ST ☐ MS 25 ☐ PT ☐ TB ☐ FL ☐ NO 779

REVISION: 30/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/2/90

Segment ST / K06-34 Subdivision SL-03A Date (mo / day / yr) 4 - 4 - 90

Time (24 hr) 16:00 Biologist H. Davis

(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 25 (4) Pebble 35 (5) Sand 20 (6) Silt 20

(B) Overall % cover of biota (% of segment): Dense _____ Moderate 25% Low 75% (25%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. ST-20-3

Frames 13, 14, 15

BARNACLES

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	X	3	3	X	X	X	X	3	
4	4	4	4	X	4	4	X	X	X	X	4	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 6
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	X	3	3	X	3	3	3	3	X	3	
4	4	X	4	4	X	4	4	4	4	X	4	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 6
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	X	X	3	3	X	X	
4	4	4	4	4	4	X	X	4	4	X	X	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 6
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	X	X	3	3	X	3	X	3	3	X	3	
4	4	X	4	4	X	4	X	4	4	X	4	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 6
6	6	6	6	6	6	6	6	6	6	6	6	

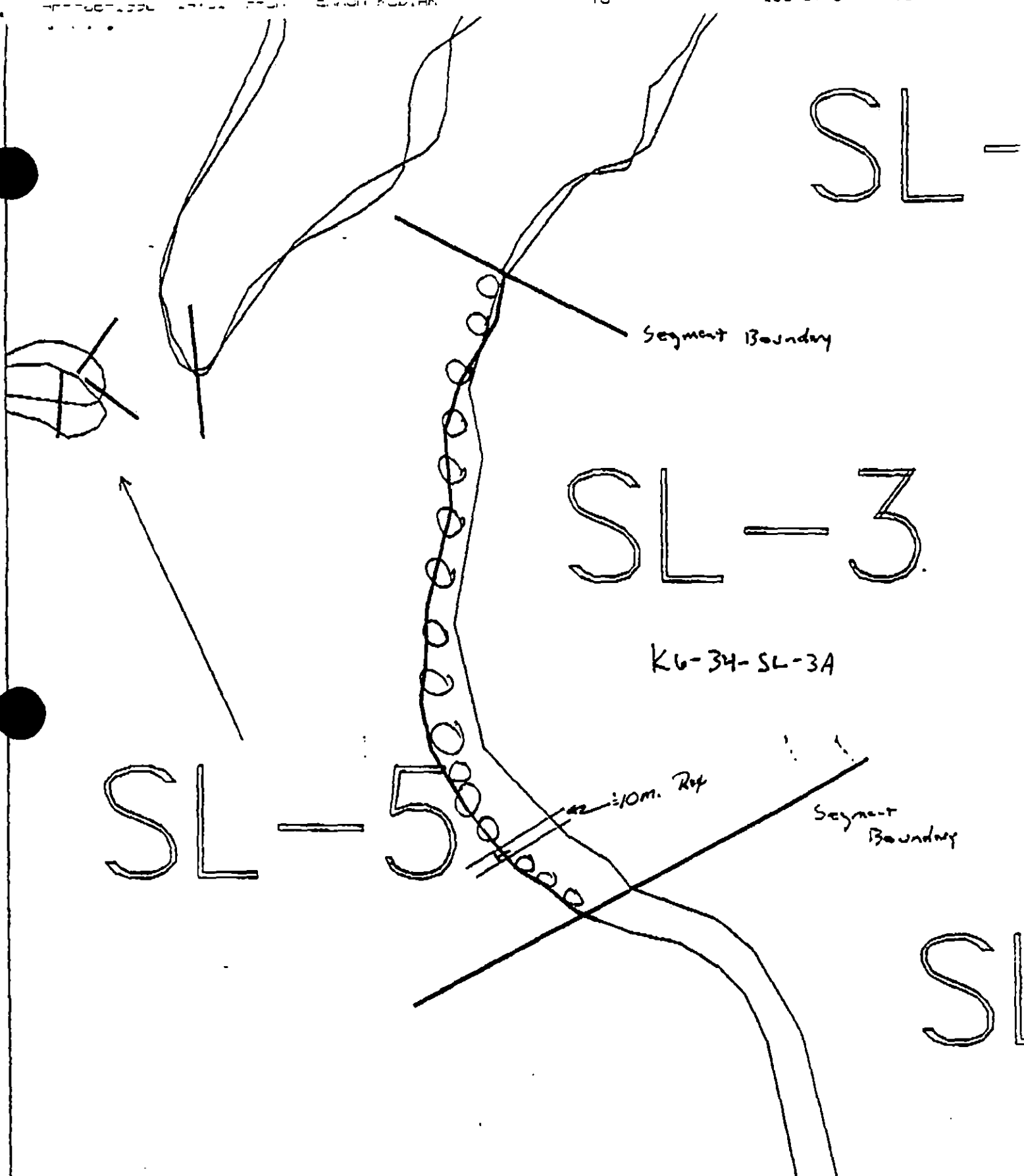
Wildlife Observations/ General Comments: Deer tracks were seen in the upper intertidal. Mytilus was found rarely in the mid-intertidal. On the lower intertidal there were very dense patches of Mytilus. Littorines were the most numerous but limpets were found often. Fucus was also patchy in its distribution (sporadic fairly dense patches) as small cobbles completely covered but scattered.

Ecological Considerations: (IA, IB, 8AA) The estuary and river areas are food sources for many species of: Birds (Eagles, ducks, gulls and other waterfowl), mammals (Deer, Bear, Fox, and river otter), and fish (Pink, Chum, Coho, Steelhead, and Rainbow)

ASC# 256-40, #10010

KODIAK ECOLOGICAL CONSTRAINTS

- ~~1A~~ **Salmon stream mouth - fry outmigration (4/15 to 7/31)**
1B **Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)**
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C** **Salmon fry nursery area (4/31 to 7/31)**
- 1D** **Kotol Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** **Remote release site**
- 1I** **Gill net area**
- 1J** **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K** **Purse seine hook-off**
- 1L** **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M** **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to uncolled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P** **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q** **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R** **Seabird colony (5/1 to 8/31)**
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S** **Shorebird/waterfowl concentration (4/1 to 5/15)**
 Restrict all activity to essential minimum, especially air traffic.
- 5T** **All Bald Eagle nests (3/1 to 6/1)**
Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U** **Recreation: Tent sites (6/1 to 9/15)**
- 6V** **Anchorage (6/1 to 9/15)**
- 6W** **Forest Service cabins (6/1 to 9/15)**
- 6X** **Lodge (8/1 to 9/15)**
- 6Y** **Special use destination**
- 7Z** **Subsistence area: Salmon harvesting (6/1 to 9/30)**
- 7HH** **Finfish harvesting**
- 7II** **Deer harvesting (8/1 to 1/7)**
- 7JJ** **Invertebrate harvesting**
- 7KK** **Boar harvesting (4/1 to 5/15 and 10/25 to 11/30)**
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-3

ADEC Segment Length: 804m



KG-34-SL-3A

Map Key: GOA-192

Name: Acton

Date: 4-4-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0634-SL-05 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. 256-40-10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles E. Hoffman DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 12 m: No Oil 41 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> <u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90
ADEC D. Kewen
EXXON ANDY TEAL FOSC: h y l DATE: 4-20-90
NOAA Burt Wesort
USCG G.A. BELTER

SEGMENT K0634/SL005

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

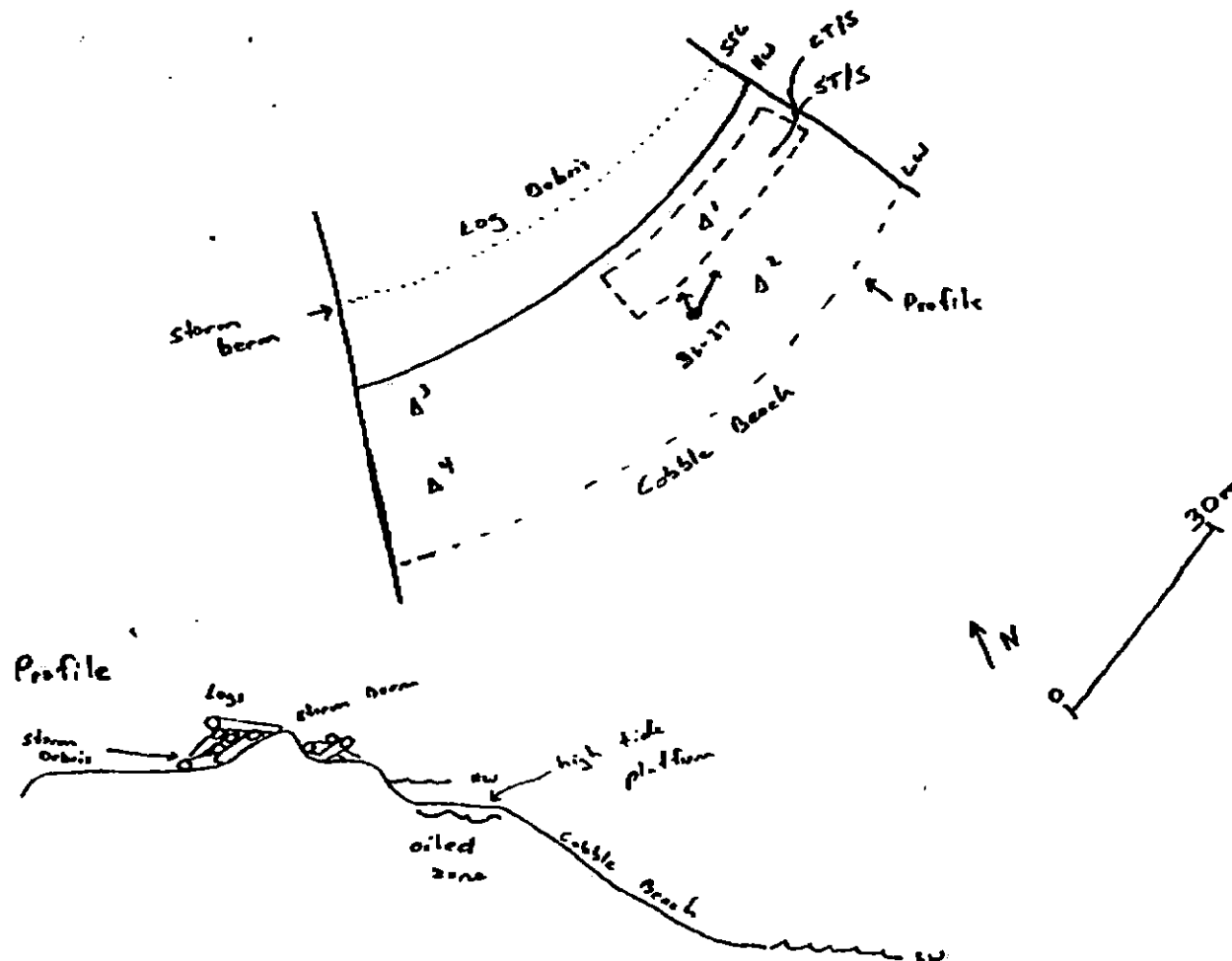
CT/S

Splashed Distribution

Oiled Vegetation

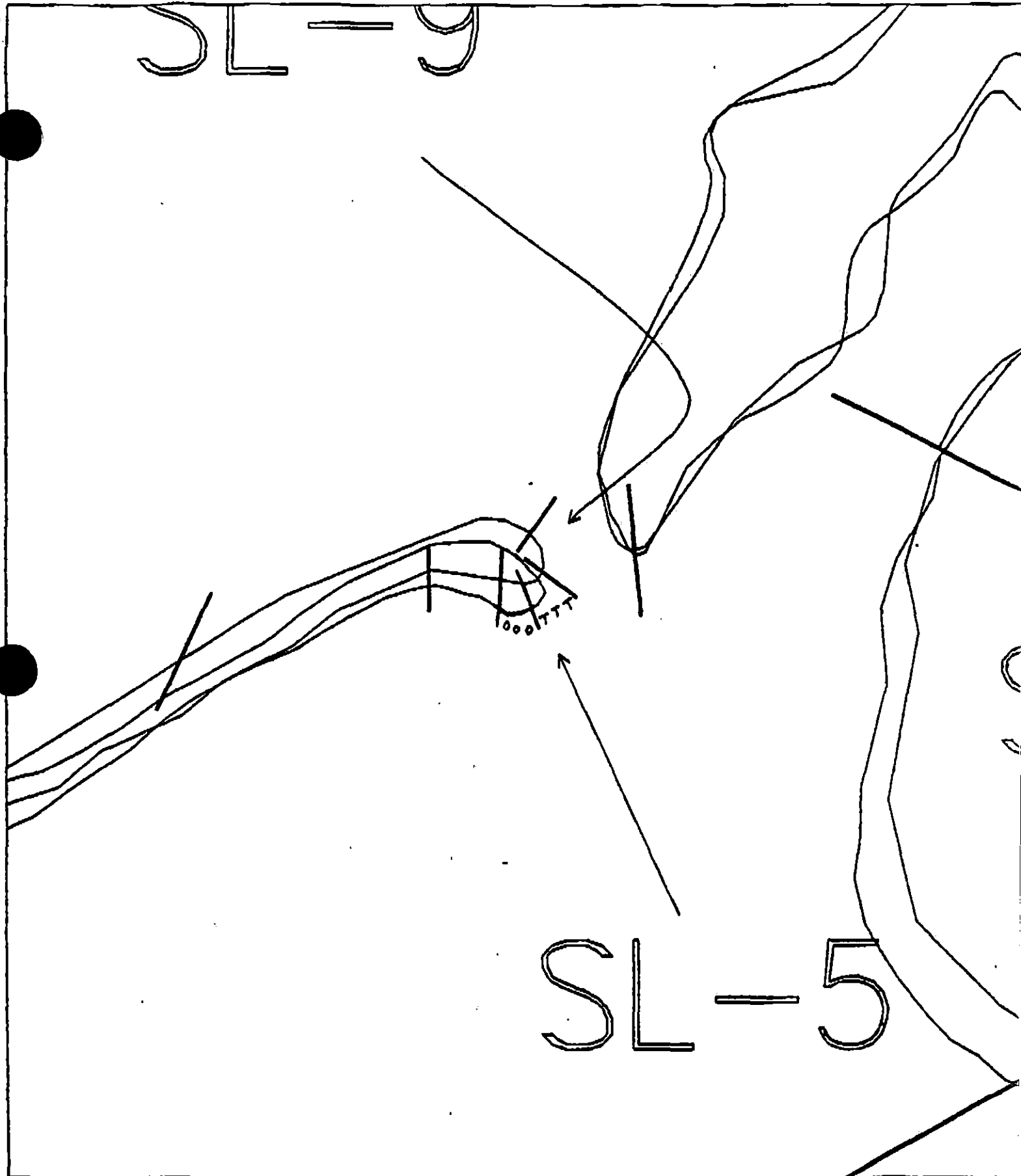
1 →

Photo location, direction, and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 30 MS 0 PT 0 TB 0 FL 0 NO 27

SL-9



XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
0000 No Oil

SL-5

ADEC Segment Length: 57m



Map Key: GOA-194

Name: Pealend

Date: 4-4-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/K06-34-SL-05

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0634-SL-05 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. 256-40-10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 12 m: No Oil 41 m

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0634/SL005 SUBDIVISION: A DATE 4-4-90

~~NOAA~~
~~666~~

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Approximately 30m by 3m zone of stained cobble.
Recommend allow to weather (clean) naturally.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

110634/SL005 Sub. A.

No sub surface oil observed 4 pits to 20 cm
in cobble bench. 3m x 30m area very light staining,
oil coats sporadic and patchy in distribution.
Oil is weathered on cobble no mouse puddles or oiled
sediment observed in this area of Subdivision A.
SL005 57 meters walked.

LAND MANAGER

NAME John Merrick SIGNATURE John Merrick Konag Inc

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Concur

SHORELINE OILING SUMMARY

REVISION NO. 03-22-90

OG Penland 0000 Naughton SEGMENT ST/ K0634/SL005
 BIO Spight LAND REP Merrick KONIG SUBDIVISION A
 EXXON Byers ADEC Shelton TIME 16:55 10:17:05
 TEAM NO.: 19 TIDE LEVEL: 2.0 ft to 2.0 P DATE 4/4/90
 EST. SUBDIVISION LENGTH: 57 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock low debris
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 30 m NO 27 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	TC	TS	TP	TS	BR	BL	OW	SL	TL	LR			SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT: H F S C sq.m by C crPATTIES / TARBALLS C BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE C#BAGS C

Photographs:

Roll No. 19-4Frames 36-37

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UD	UC	BR	BL	OW	SL	TL	LR			SU	U	M	U		
1	20						-																Cobbles
2	20						-																Cobbles
3	20						-																Cobbles
4	20						-																Cobbles
							-																
							-																

COMMENTS

- zone of stained cobble and gravel, zone of stain is 30m x 3m
- no oil observed at depth

SEGMENT 10634/SL005

SKETCH MAP

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PA Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

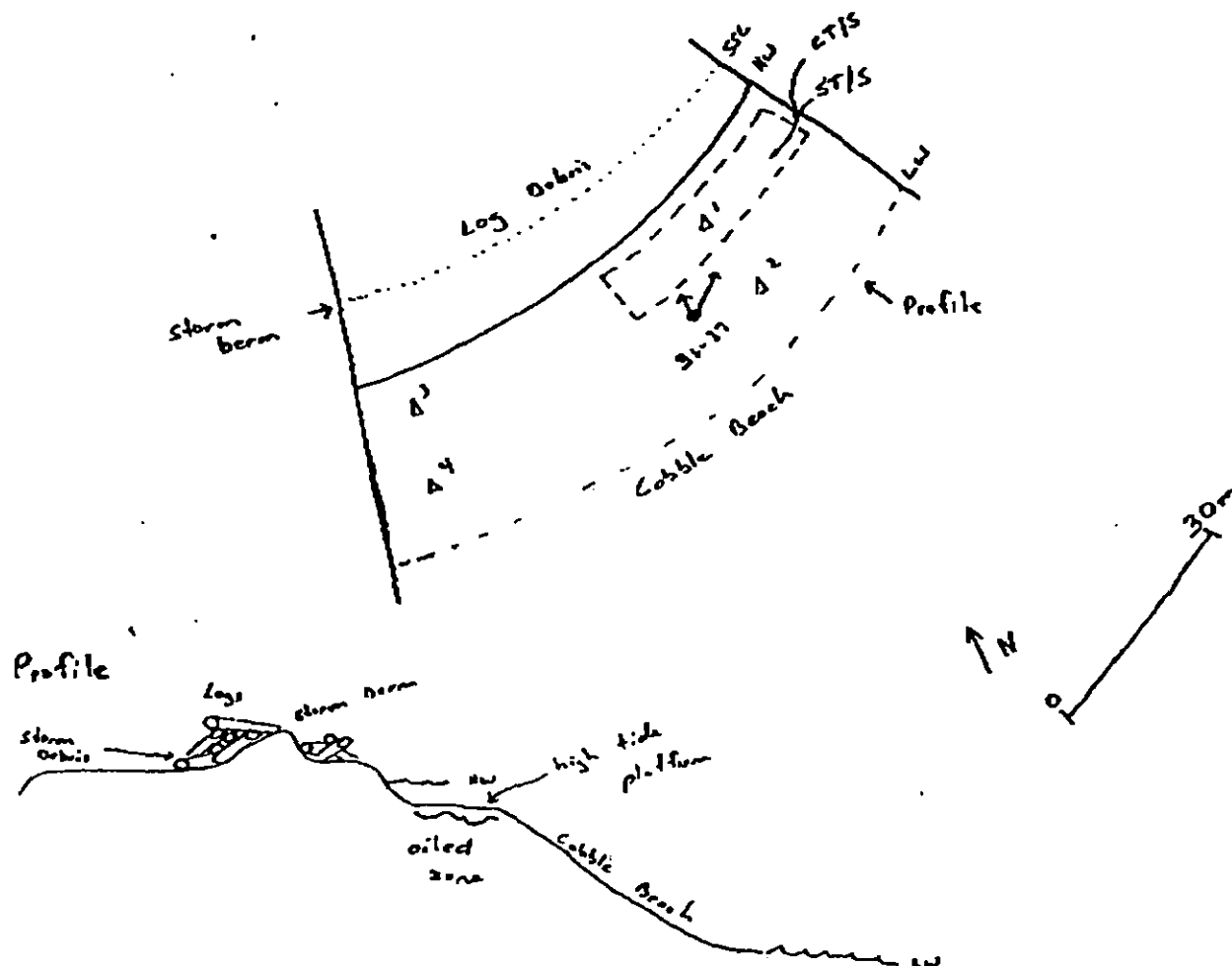
CT/S

Splashed Distribution

Oiled Vegetation

1 ➔

Photo location, direction, and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 30 MS 0 PT 0 TB 0 FL 0 NO 27

REVISED 8/24

30m x 2m

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SL-5 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 16:55 Biologist SP16HF

(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 70 (4) Pebble 30 (5) Sand _____ (6) Silt _____

(B) Overall % cover of biota (% of segment): Dense _____ Moderate 50 Low 50

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

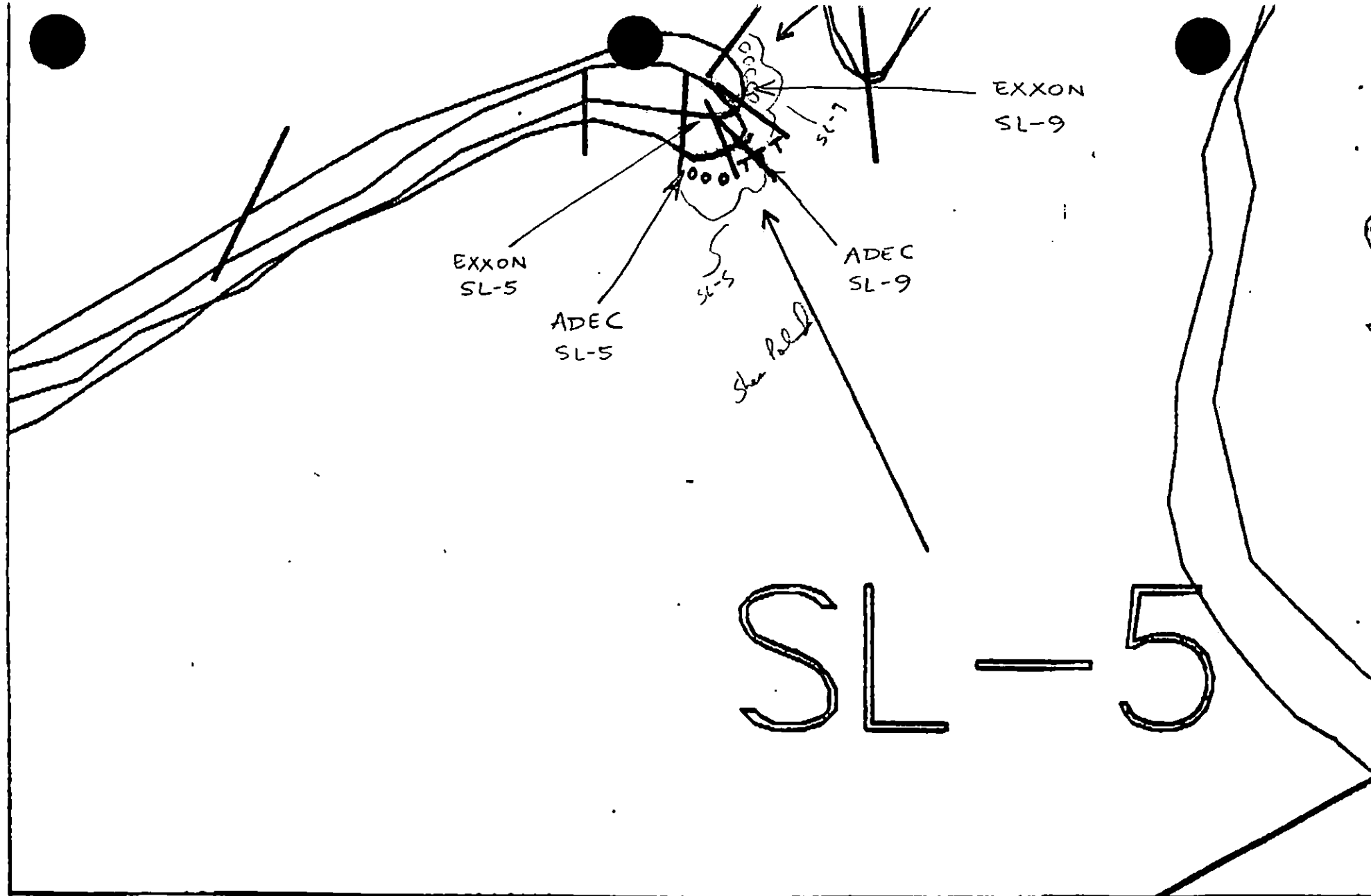
Ecological Considerations:

1A, 1B, EAA

KODIAK ECOLOGICAL CONSTRAINTS

SL-005-A

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



XXXX Wide
 / / / / Medium
 - - - - Narrow
 T T T T Very Light
 O O O O

SL-5

ADEC Segment Length: 57m

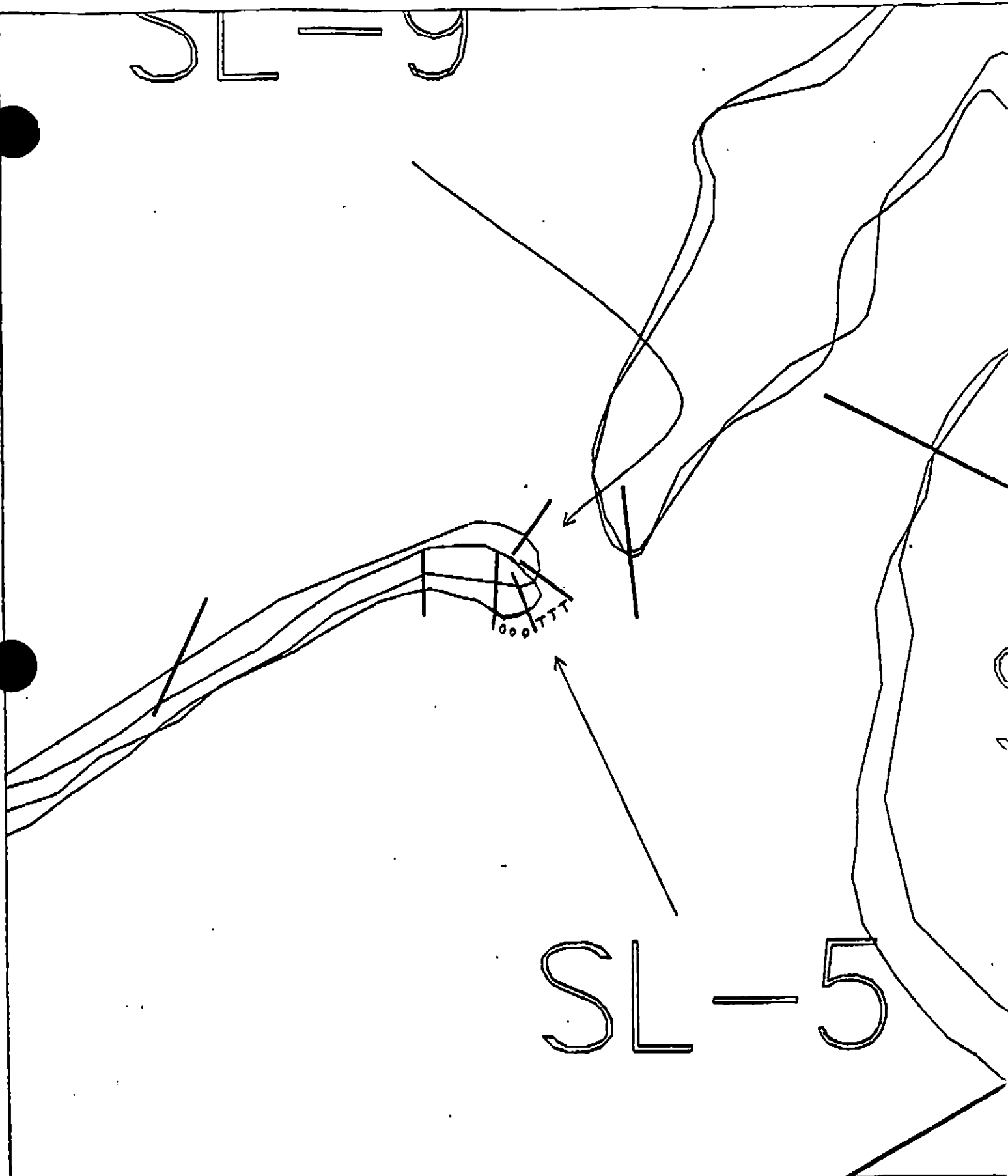


Map Key: GOA-194

Name: Pealand

Date: 4-4-92

SL-9



XXXX Wide
/ / / Medium
- - - Narrow
TTTT Very Light

SL-5

ADEC Segment Length: 57m

0 100 200 300



Map Key: GOA-194

Name: Penland

Date: 4-4-90

Note Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-06 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles E. Hansen DATE: 4/12/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 94 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> <u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90

ADEC Al Koenig

EXXON Andy Teds

NOAA Burl Wescott

USCG G.A. REITER

FOSC: W L DATE: 4-20-90

OG Penland

SEGMENT X0634/SL006

SUBDIVISION A

DATE 4 / 4 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Data
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HML/LWL
- ☒ SCL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

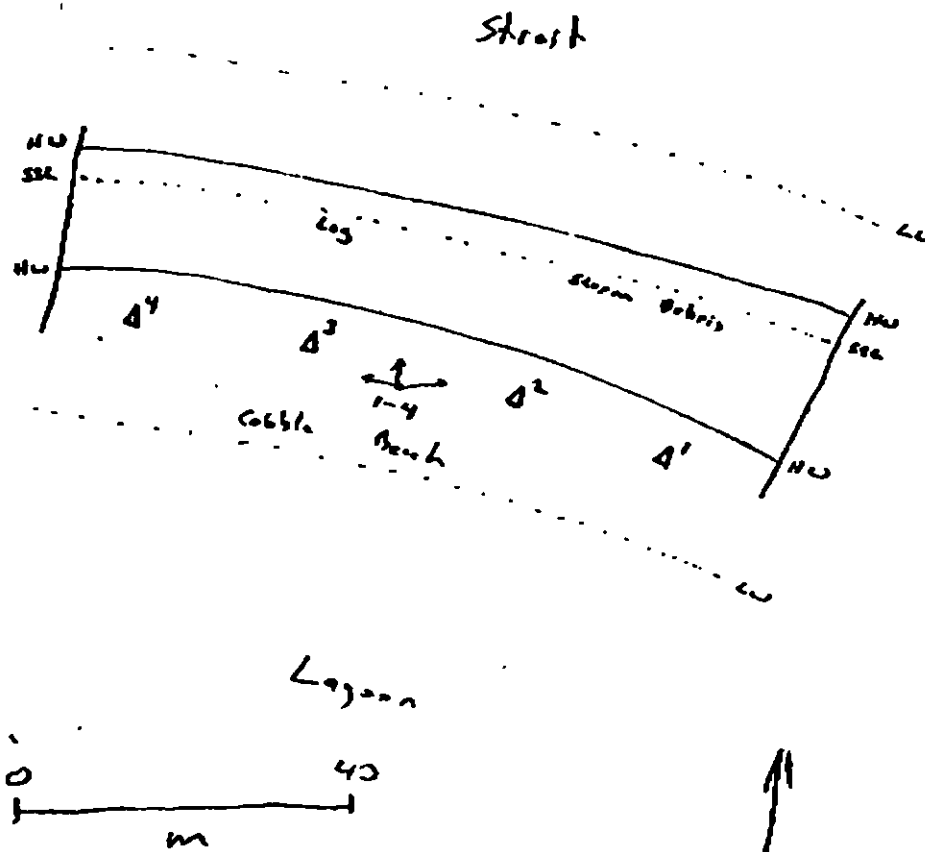
Splashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction,
and number

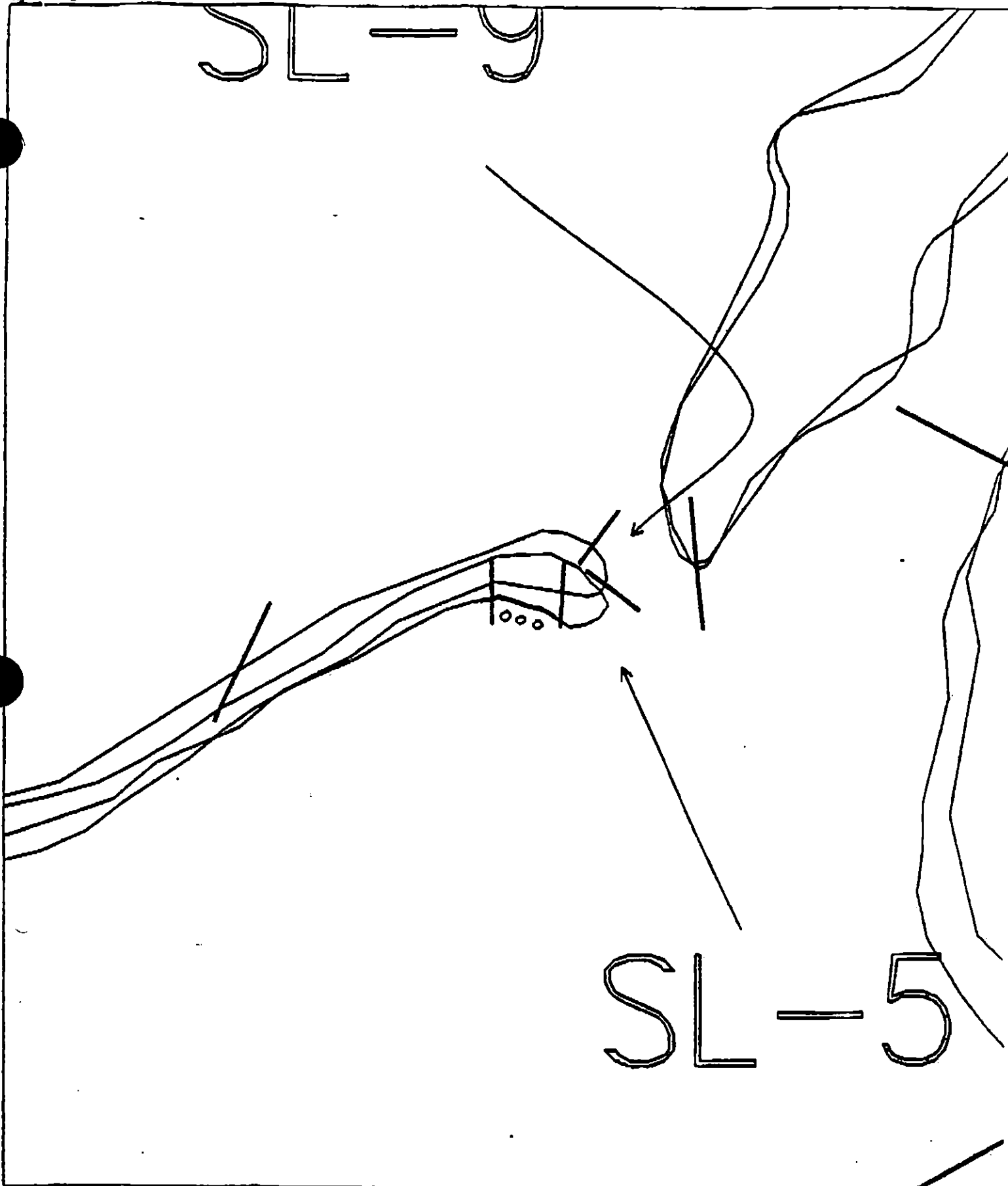
ETCH MAP



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 36

REVISION: 03/04/00

SL-9



XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light
 0000 No Oil

SL-6

ADEC Segment Length: 86m



Map Key: GOA-195

Name: Penland

Date: 4-4-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/K06-34-SL-006

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-06 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 94 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634 / 5L006 SUBDIVISION: A DATE 4-4-90

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS
No oil observed. Lagoon facing cobble beach. Fairly low energy.

ADEC NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS K0634 / 5L006
No oil observed - 4 pits to 20 cm NO sub-surface oil observed. 86 meters walked

LAND MANAGER

NAME John Merrick SIGNATURE John Merrick Komag, Inc

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

SHORELINE OILING SUMMARY

REVISION NO. 02/22/90

OG Pealand ~~USCG~~ NAVA Naughton SEGMENT ST/ K0634/SL006
 BIO Epigea LAND REP Merriack Kont/AG SUBDIVISION A
 EXXON Oxyera ADEC Sheldon TIME 17:05 10 17:15
 TEAM NO.: 19 TIDE LEVEL: +2 ft. to +1.75 ft DATE 4 / 4 / 90
 EST. SUBDIVISION LENGTH: 86 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log Debris
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 86 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	10	15	20	25	30	35	40	45	50	55	SU	U	M	U
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL											X	X	X	X

PAVEMENT: H F S 0 sq.m by 0 c:PATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. ST-14-5Frames 1 - 4

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM/CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UO	35	40	45	50	55	SU	U	M	L		
1	20					X	.								X					cobbles
2	20					X	.								X					cobbles
3	20					X	.								X					cobbles
4	20					X	.								X					cobbles
							.													
							.													

COMMENTS

no oil obtained on surface or subsurface

OG Penland

SEGMENT 0634/SL006

SUBDIVISION A

DATE 4 / 4 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☒ Substrate Character
- ☒ Est. HML/LWL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PH Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

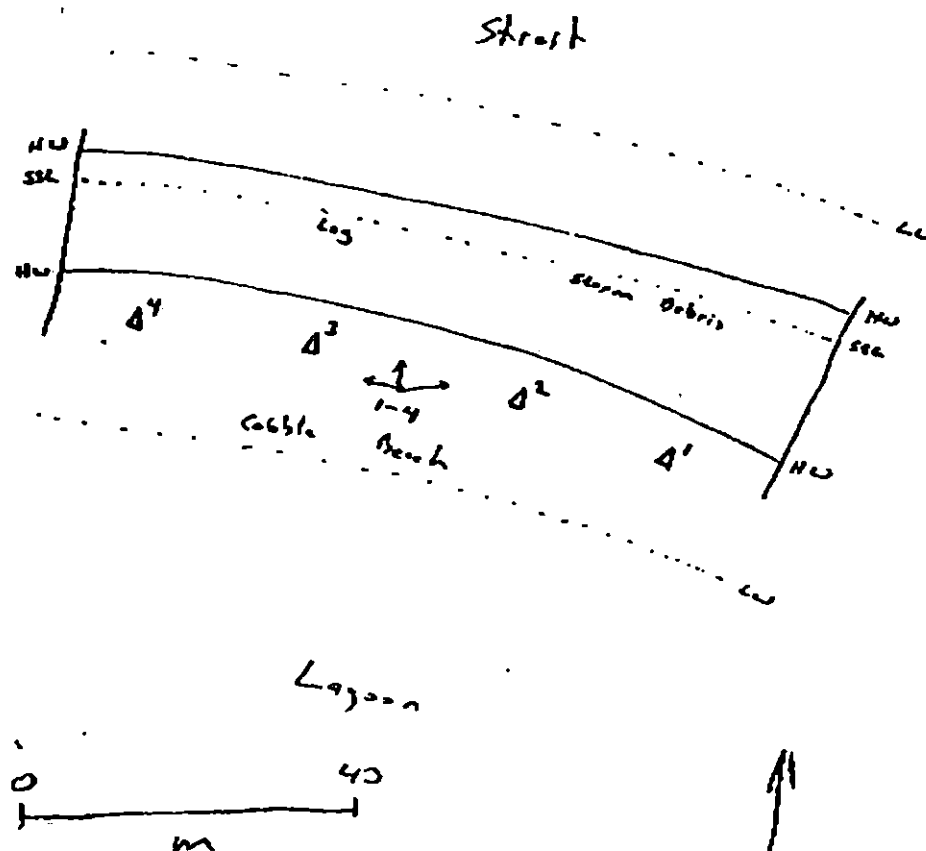
Splashed Distribution

Oil Vegetation

1 ➔

Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 86

REVISION: 034600

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SL-6 Subdivision A Date (mo / day / yr) 4/4/90

Time (24 hr) 21:10 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 40 (4) Pebble 60 (5) Sand _____ (6) Silt _____

(B) Overall % cover of biota (% of segment): Dense 30 Moderate 20 Low 50

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	X	X	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: UL Generally bare. LL B. glandula cobble with mussels mixed in. Mussel beds on delta behind berm; also largish Fucus patches. Littorina sitkana dense on gravel/mud between cobbles. No LL in this area.

1A, 1B, 8AA

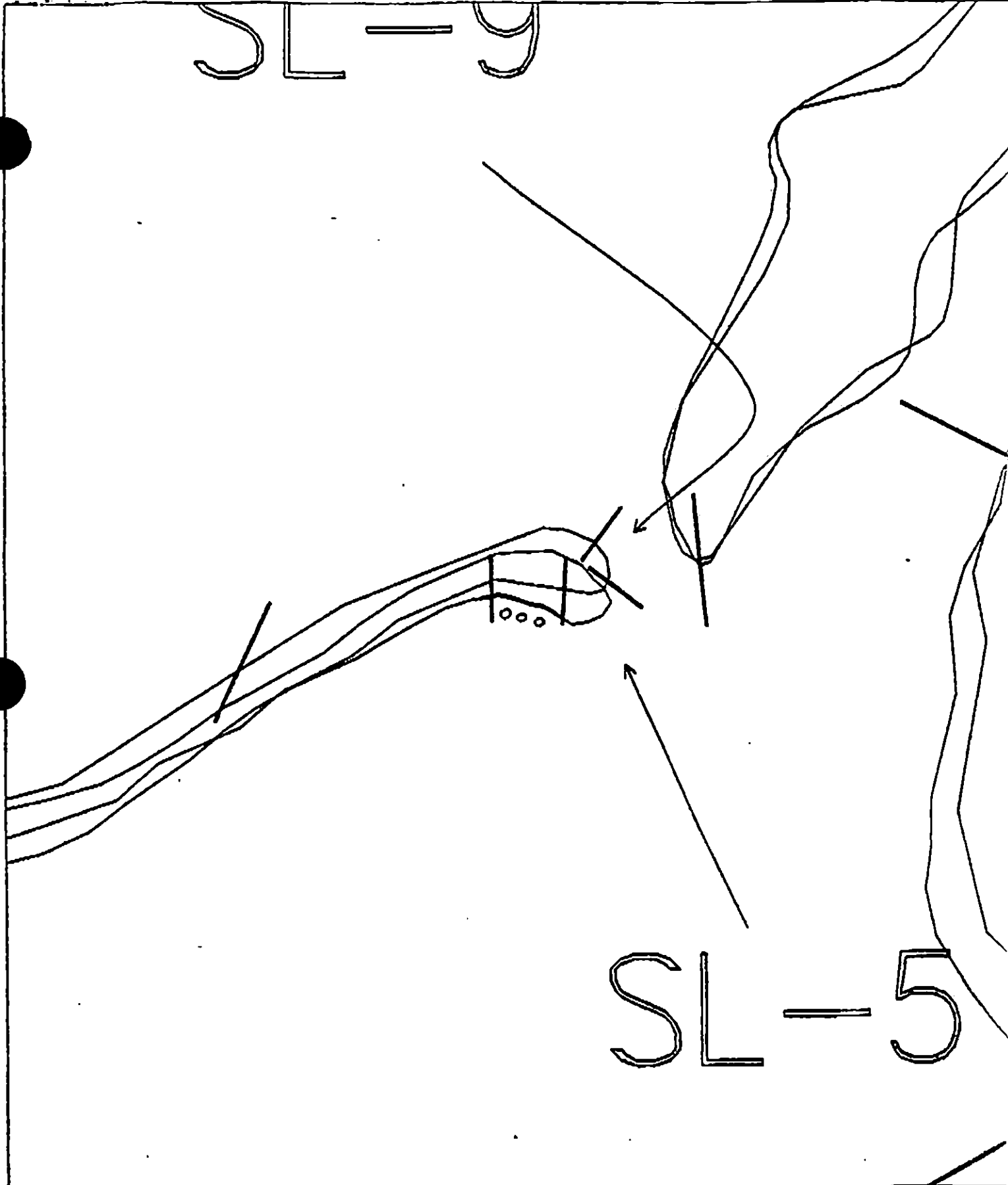
ASC# 256-40 #10010

KODIAK ECOLOGICAL CONSTRAINTS

SL-06 A'

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotai Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

SL-9



XXXX Wide
//// Medium
---- Narrow
TTTT Very Light
0000 No Oil

SL-6

ADEC Segment Length: 86m



Map Key: GOA-195

Name: Penland

Date: 4-4-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. 256-40-10010.

Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276). required prior

SHPO SIGNATURE: Charles E. Hume DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 112³ m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☒ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snare (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: <u> </u> Wands
☐ Tarmat: ☐ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE
MANUAL PICKUP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90

ADEC Art Weiner D. Weiner

EXXON Andy Tate Paul

NOAA Bert Wiscott Paul

USCG G.A. Reiter G.A. Reiter

FOSC: My L DATE: 5-1-90

UW 101160

SEGMENT 0634/56007

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Body
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HNTLA/VL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PI Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PT - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

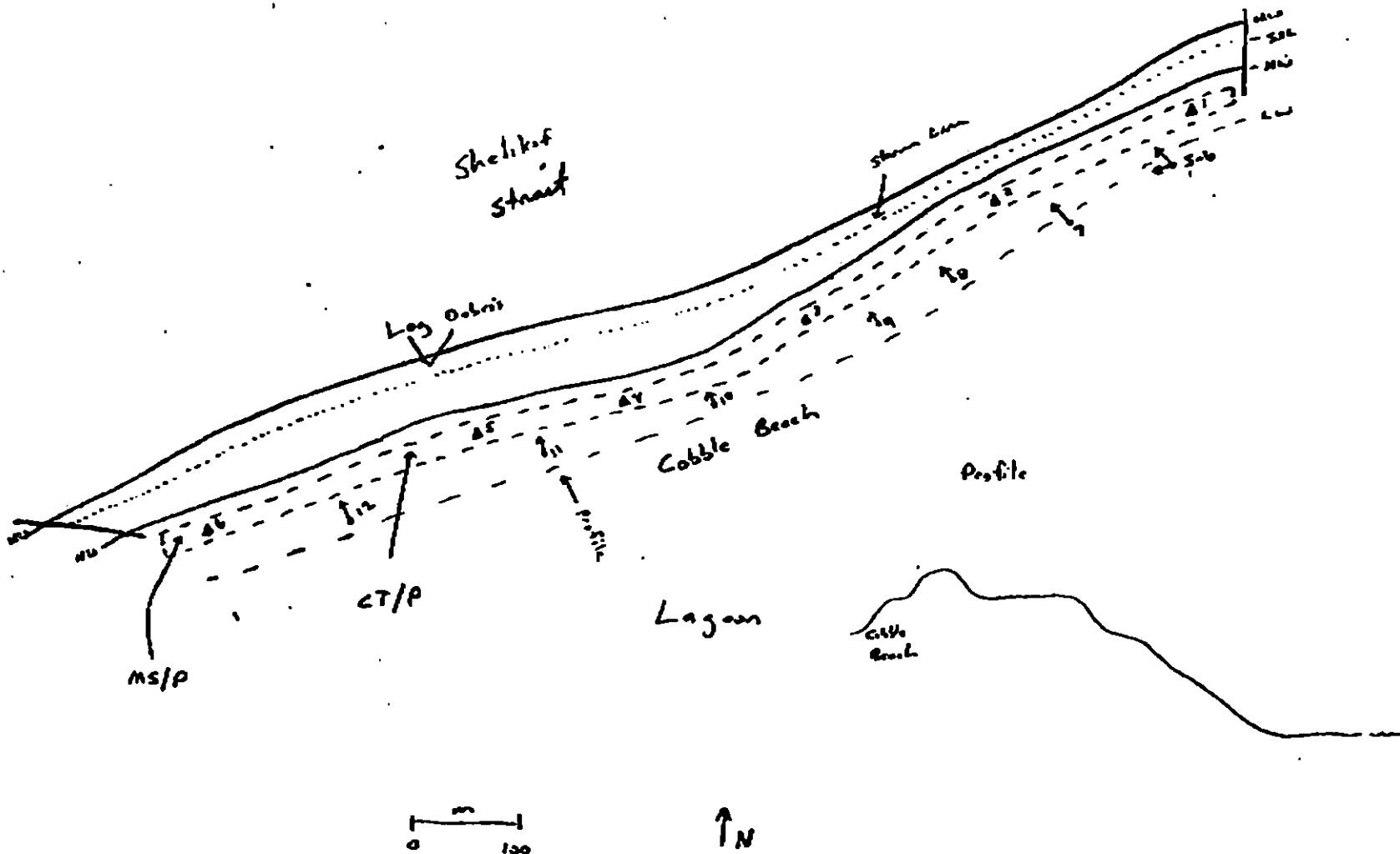
Splashed Distribution

Oiled Vegetation

1 →

Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 1164 ST 0 MS 1164 PT 0 TB 0 FL 0 NO 0

REVISION: 0334/90

SL-13

SL-8

SL-7

S

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

SL-7

ADEC Segment Length: 1164m



Map Key: COA-196a

Name: Shes Peiland

Date: 4-4-90

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT KO6-34-SL-07 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unrolled biota and substrate. *Sensitive Estuary*

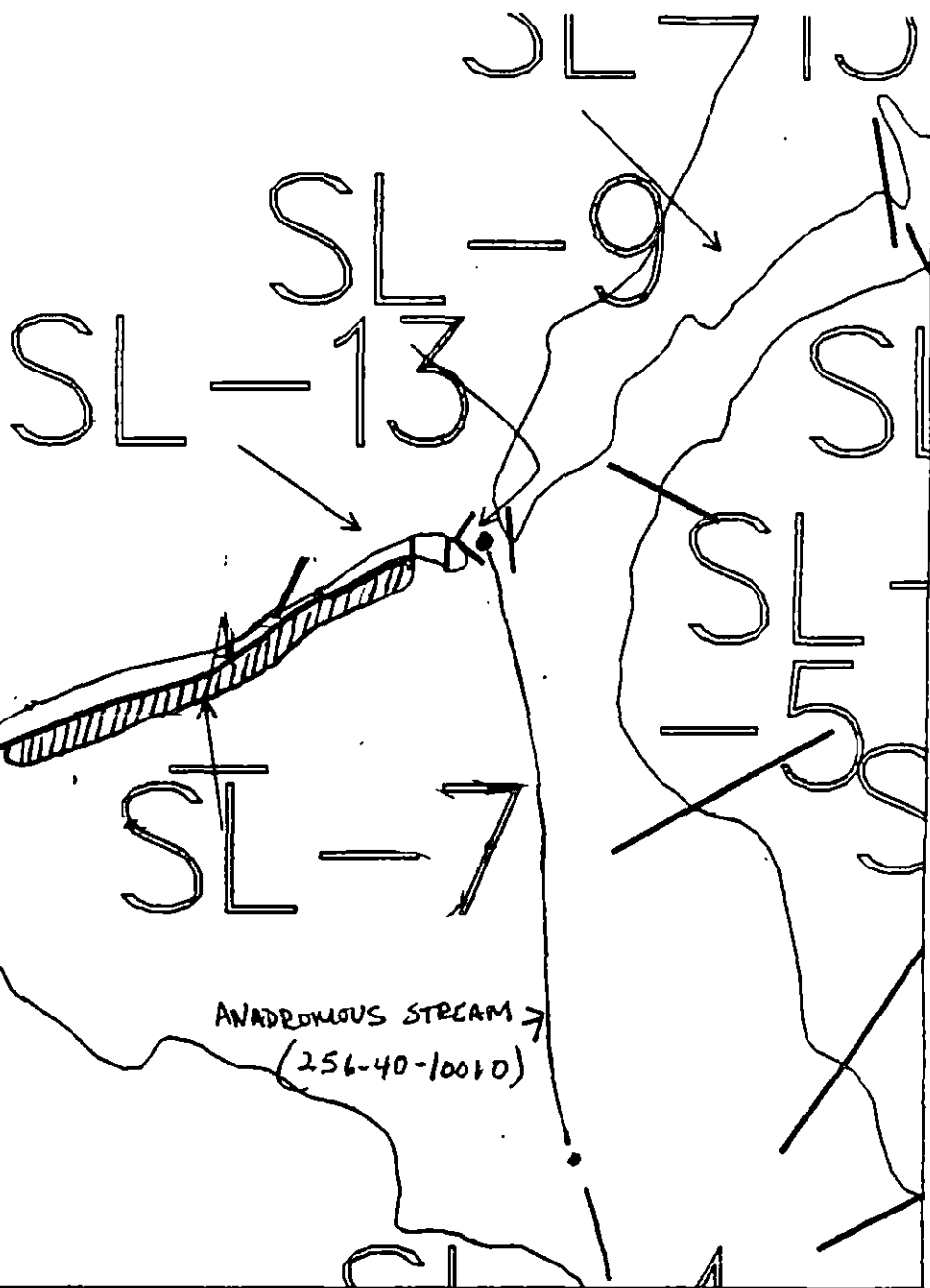
TAG APPROVAL DATE _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC *W L*

DATE *6-10-90*

Prepared By: *Rex D. Coulter*

Date *06/10/90*



Exxon Company, USA
Map Key: KOD-SL-7
May 17, 1990



ECOLOGY MAP
SEGMENT SL-7
SUBDIVISION A (_ / of _ / _)
METERS
0 400 800

- | | |
|---|----------------|
| ★ | Seabird Colony |
| ▲ | Eagle Nest |

1 inch = 1509 feet

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. 256-40-10010.

Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276). required prior

SHPO SIGNATURE: Charles J. Hume DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 112³ m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☒ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☒ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☐ Bioremediation	☐ Spot Washing: <u> </u> Wands
☐ Tarmat: <u> </u> Breakup	☐ <u> </u> Beach Cleaner
☐ <u> </u> Removal	☐ Other (see comments)

COMMENTS:

**SEE CONSTRAINT ADDENDUM
DATED 06/10/90. Rex C.**

TAG COMMENTS:

DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE
MANUAL PICK UP OF MOUSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90

ADEC Art Weiner Dist. Weiner

EXXON Andy Tate

NOAA Bill Wiscott

USCG G.A. REITER G.A. Reiter

FOSC: W L DATE: 5-1-90

REGION: KODIAK

SEGMENT: K06-34-SL-07

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. 256-40-10010.

Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 112³ m: No Oil 0 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634 / SLOO7 SUBDIVISION: A DATE 4-4-90

AAA
0000

NAME John Naughton SIGNATURE John J. Naughton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Oil stains and some mousse were observed in an almost continuous band of 1 to 2 meters wide along this entire segment. However did not appear to be subsurface. Because this segment is low energy the mousse should be removed manually. The stained cobbles should not be treated and no cobbles should be removed from the beach during treatment.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS K0634 / SLOO7 1164 Meters. ASSESSEMENT.

Band of oil observed in splashes 2 meters wide, rather sporadic along this segment. Mousse in sediment observed in this band as well. Impact can be found in the Mud to upper tidal levels. 6 pits in cobbles to 20 cm NO sub surface oil observed. Impact can be observed along the entire 1164 meters. Type A clean up could greatly improve surface conditions. Low energy beach.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Koniag, Inc

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

If treating other segments a once over picking up the mousse patches is recommended

SHORELINE OILING SUMMARY

REVISION NO. 03/22/88

OG Donland NOAA USCG Navigation SEGMENT ST/ K0634/34007
 BIO Slight LAND REP Meerick KONLAG SUBDIVISION A
 KXON Byers ADEC Shelton TIME 17:15 10:17 30
 TEAM NO.: 19 TIDE LEVEL: +1.75 10 +1.75 DATE 4 / 4 / 90
 EST. SUBDIVISION LENGTH: 1164 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log debris
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 1164 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	B	P	N	SW	SP	FW	GY	BL	SU	U	M	L
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL													

PAVEMENT: H F S 0 sq.m by 0 cm

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE N/A

#BAGS 0

Photographs:

Roll No. 19-5

Frames 5-12

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UO	SW	SP	FW	GY	BL	SU	U	M	L		
1	20					X	.								X					Cobbles
2	20					X	.								X					Cobbles
3	20					X	.								X					Cobbles
4	20					X	.								X					Cobbles
5	20					X	.								X					Cobbles
6	20					X	.								X					Cobbles

COMMENTS

oil in narrow 2m band, along the entire length of the shoreline.
 oil in the upper-intertidal zone.

RAT

7 Apr 90

SEGMENT ST R0634/SL007

SUBDIVISION A

DATE 4 / 4 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LA/WL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Photo Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PT - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

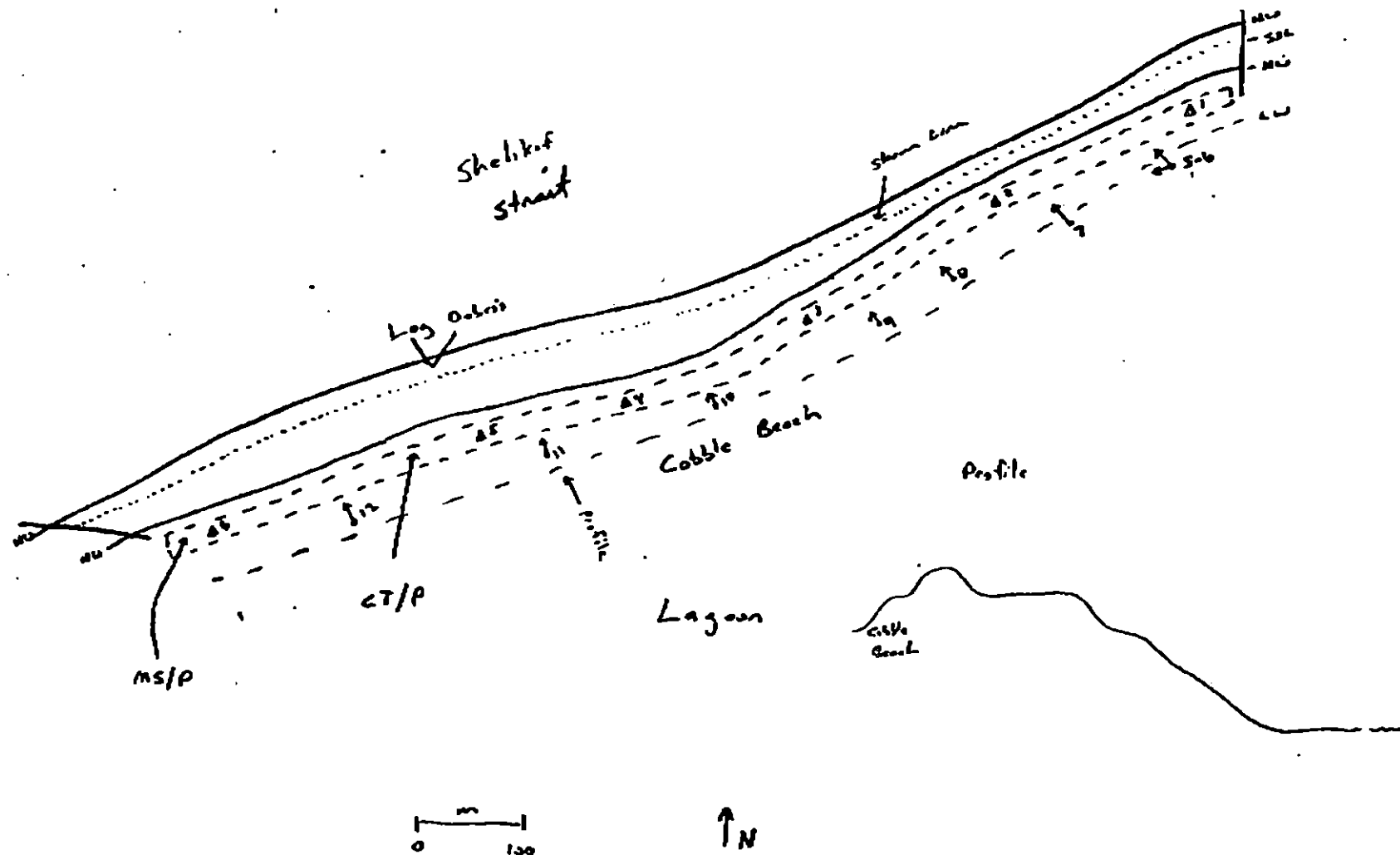
CT/S

Splashed Distribution

Oiled Vegetation

1 →

Photo location, direction, and number



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT 1164 ST ☐ MS 1164 PT ☐ TB ☐ FL ☐ NO ☐

REVISION: 002479

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST/ SL-7 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 7:10 Biologist SPLITT

(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 40 (4) Pebble 60 (5) Sand _____ (6) Silt _____

(B) Overall % cover of biota (% of segment): Dense _____ Moderate _____ Low _____

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (⊙)

Photographs: _____
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	X	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: *B. glandula* cobble
Fucus common in a couple of places
No LL
Eelgrass in lagoon

1A, 1B, 8AA
ASC # 256-40, #10010

SL-13

SL-8

SL-7

S

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

SL-7

ADEC Segment Length: 1184m



Map Key: COA-196a

Name: Shes Peiland

Date: 4-4-90

Date Entered:

REGION: KODIAK

SEGMENT: K06-34-SL-08

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-08 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth (ASC #256-40, #10010)
1A Salmon - fry outmigration (4/15 to 7/31)
1B Salmon - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 61 m: V.Light 304m: No Oil 0 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 10 cm

RECOMMENDATIONS:

☐ No Treatment Recommended	☐ Snare/Absorbent Booms
☒ Treatment Recommended	☐ Oil Snares (pom poms)
☐ Manual Pickup	☐ Absorbents (pads, rolls, etc)
☒ Bioremediation	☐ Spot Washing: _____ Wands
☐ Tarmat: _____ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS: Bioremediate subsurface oil.

TAG COMMENTS:

TAG APPROVAL DATE: _____
ADEC _____
EXXON _____
NOAA _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

SL-08-A

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.
 No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (8/1 to 9/15)
- 6V Anchorages (8/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (8/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634/SLOO8 SUBDIVISION: A DATE 4-4-90NOAA
4600NAME John Naughton SIGNATURE John J. Naughton☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Suggest clean up (manual removal) of only pooled mussels which is "melting" subsurface in cobbles. Stained and coated cobbles should not be treated - only way to clean these would be to physically remove the cobbles, which I recommend against.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTEDCOMMENTS 10634/SLOO8 Sturgeon River lagoon
Oil can be observed along the entire Segment. With surface coats found on Segment borders.

330 meters length of K0634/SLOO8. Mussels, occasional along segment between cobble and gravel sediment. 6 pits dug to 30 cms - pits 4 & 5 observed oil in subsurface sediments. Weathered oil down to 10 cm on cobble. Pools on surface make Manual clean type. Subsurface oil may need Geo-tech bag washing treatment. Low energy area

LAND MANAGER

NAME John Merrick SIGNATURE John Merrick Koniag, Inc☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Limited manual removal of thickest suggested.

SHORELINE OILING SUMMARY

REVISION NO. 3322-98

OG Penland NOAA Naughton SEGMENT ST/ K0634/54009
 BIO Spight LAND REP Merrick KONTAG SUBDIVISION A (1/1)
 EXXON Oyars ADEC Shelton TIME 17:30 10:18:00
 TEAM NO.: 19 TIDE LEVEL: 1.78 10-1.5 ft DATE 4/4/90
 EST. SUBDIVISION LENGTH: 330 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock Log Debris
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 70 m VL 260 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	10	15	20	25	SP	OR	OL	OP	NO	TL	SU	U	M	U
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

PAVEMENT: H F S C sq. m by 0 cm

PATTIES/TARBALLS 0 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE N/A

#BAGS 0

Photographs:

Roll No. ST-19-5

Frames 14-24

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM/IN)	BELOW	OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OP	NO			SP	OR	OL	OP	NO	TL	SU	U	M	U		
1	20																			Cobbles
2	20																			Cobbles
3	20																			Cobbles
4	30						0-10													Cobbles
5	30						0-10													Cobbles
6	30																			Cobbles

COMMENTS

- entire zone oiled, at the segment ends it is a surface coat,
- oil can be seen melting into the top 10cm of cobbles in the MSP and P/O's area.
- The low energy in this area will promote the persistence of oil here.

REVIEWED BAT DATE 7 Apr 90

SEGMENT ST/ K0634 / SLOOY

SKETCH MAP

SUBDIVISION A

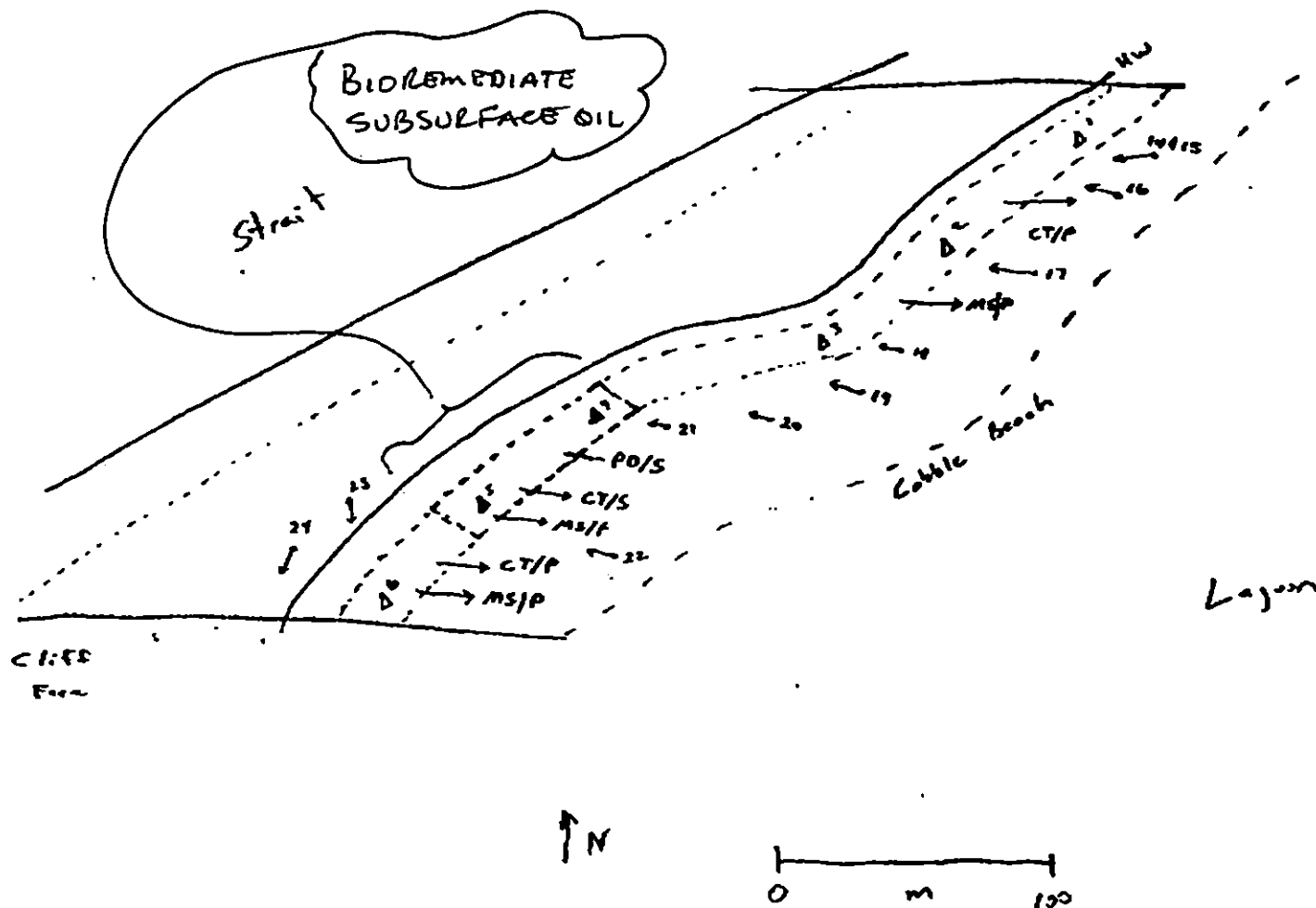
DATE 4 / 4 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bdry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWM/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

- ☐ 1 Δ
PH - No Subsurface Oil
- ☐ 2 Δ
PH - Subsurface Oil
- ☐ CT/C
Continuous Distribution
- ☐ CT/B
Broken Distribution
- ☐ CT/P
Patchy Distribution
- ☐ CT/S
Splashed Distribution
- ☐ Offd Vegetation
- ☐ Photo location, direction, and number



Oil Character Length (m): AP 0 PO 70m CV 0 CT 330 ST 0 MS 330 PT 0 TB 0 FL 0 NO 0

SHORELINE ECOLOGICAL SUMMARY

Segment ST/ SL-8 Subdivision A Date (mo / day / yr) 4/4/90
Time (24 hr) > 16:00 Biologist SPIGHT (prob. 17:10 - 17:30)

- (A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 100 (4) Pebble _____ (5) Sand _____ (6) Silt _____
- (B) Overall % cover of biota (% of segment): Dense 10 Moderate _____ Low 90
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)
Photographs: _____
Roll No. _____
Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	X	3	X	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	X	X	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	X	3	X	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	X	3	X	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments:

Ecological Considerations: Generally a steep and barren gravel pile with a small mm of B. glandula cobble, this broader toward the end. Lots of eelgrass debris. Limpets may be common in UL under bare cobble. A band of abundant eelgrass.

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotoi Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

SL-14

SL-8

S

XXXX Wide
//// Medium
---- Narrow
TTTT Very Light
0000 No Oil

SL-8

ADEC Segment Length: 330m

0 100 200 300
METERS

Map Key: GOA-197

Name: Shes Paulan

Date: 4-7-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-08 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth (ASC #256-40, #10010)

1A Salmon - fry outmigration (4/15 to 7/31)

1B Salmon - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Hume

DATE: April 14, 1990 *CEH 4/25/90*

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 61 m: V.Light 304m: No Oil 0 m
Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X Manual Pickup

X Bioremediation

 Tarmat: Breakup

 Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Bioremediate subsurface oil.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC JOHN BAKER

EXXON ANDY TALL

NOAA Burt Wesel

VSCG G.A. Reiter

FOSC: My L

DATE: 4-22-90

(TAKES)

Include limited pickup of mouse

SEGMENT ST/ K0634 / SLOOY

SKETCH MAP

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☐ Name
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

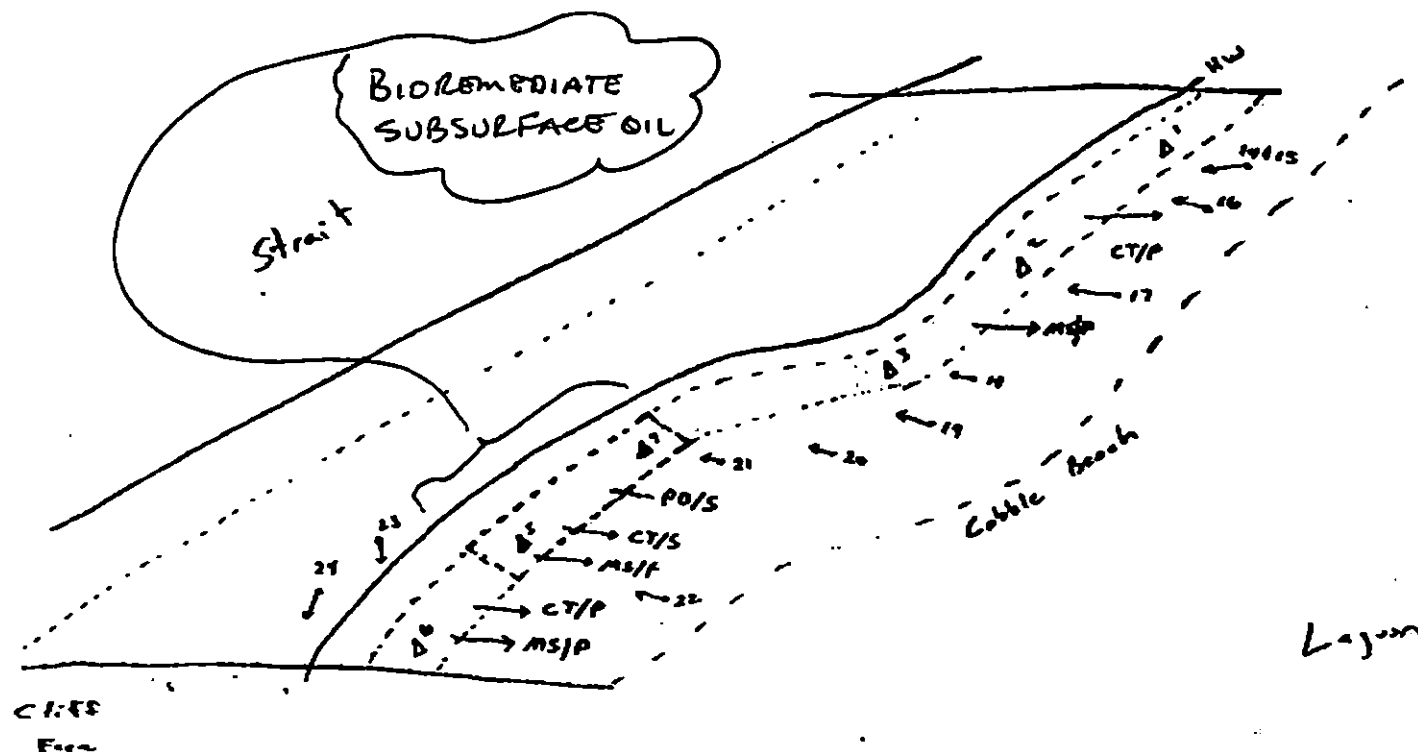
CT/S

Selected Distribution

Oiled Vegetation

1 →

Photo location, direction, and number



Oil Character Length (m): AP 0 PO 70m CV 0 CT 330 ST 0 MS 330 PT 0 TB 0 FL 0 NO 0

REVISION: 03/04/90

SL-14

SL-8

S

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

SL-8

ADEC Segment Length: 330m



Map Key: GOA-197

Name: Steve Paulsen

Date: 4-7-90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL-08 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	OPEN
Bioremediation	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (256-40-10010) is more than 100m from work site. No constraint to manual pickup and bioremediation.

OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to uncolled biota and substrate. Sensitive estuary.

FOSC

[Signature]

Date

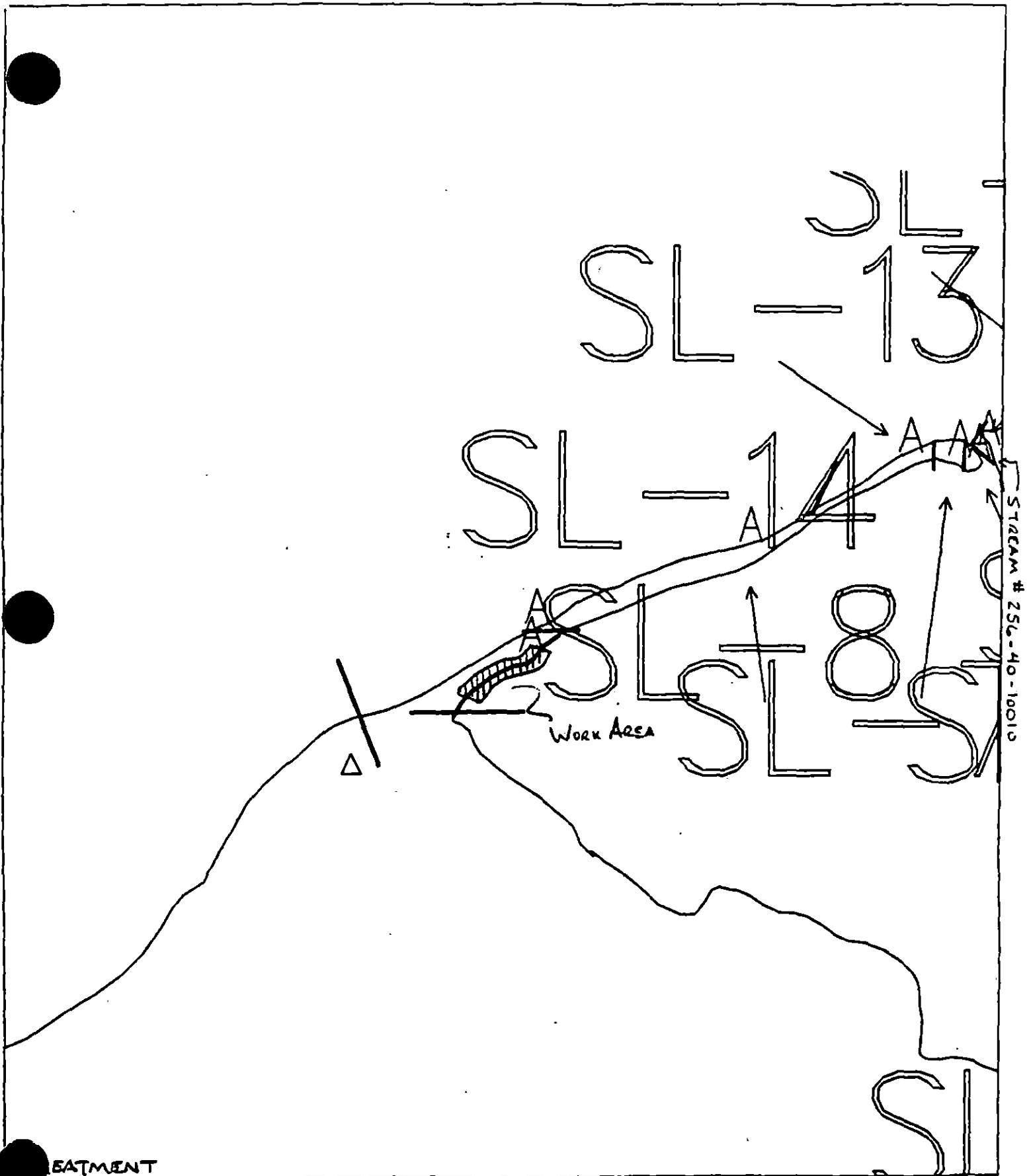
6-16-90

Prepared by

[Signature]

Date

6/15/90



EATMENT



Exxon Company, USA

ECOLOGY MAP
 SEGMENT K6-34 SL-8
 SUBDIVISION A (1 of 1)

- ★ Seabird Colony
- ▲ Active Eagle Nest
- △ Inactive Eagle Nest

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-08 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth (ASC #256-40, #10010)
1A Salmon - fry outmigration (4/15 to 7/31)
1B Salmon - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles R. Hume

DATE: April 14, 1990 *CEH 4/25/90*

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 61 m: V.Light 304m: No Oil 0 m
Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended Snare/Absorbent Booms
X Treatment Recommended Oil Snares (pom poms)
X Manual Pickup Absorbents (pads, rolls, etc)
X Bioremediation Spot Washing: Wands
 Tarmat: Breakup Beach Cleaner
 Removal Other (see comments)

COMMENTS: Bioremediate subsurface oil.

SPE CONSTRAINT ADDENDUM dictated 6/15/90.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC JOHN BAUER

EXXON ANDY TALL

NOAA Burt Wescott

FOSC: ky h

DATE: 4-22-90

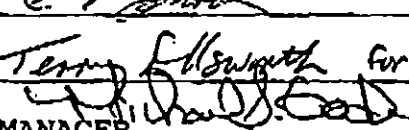
(Thickest)
(TH)
include limited pickup of mouse

WORK PLAN MODIFICATION RECOMMENDATIONSEGMENT K6-34-SL-008ASUBDIVISION ADATE 07-05-90MODIFICATION1. REASON FOR MODIFICATION:

Joint Field Survey by Land Manager Rep. Mike Goodwin, ADNR, (for John Merrick, Koniag, Inc.), ADEC, USCG and ADF&G representatives revealed the oil present in Subdivision (A) was naturally degrading at a rapid rate and was in a state that would be difficult to remove. It was determined the removal of oil present either by manual or by bioremediation technique would do more harm than good. This lagoon is an enviromentally sensitive area and represents an anadromous salmon spawning area. Total excavation of the beach gravels and cobbles would be required to treat this area.

2. SUGGESTED ADJUSTMENT TO WORK PLAN:

Demobilize this Subdivision (A), with no further treatment recommended.

3. TIMING ISSUES:USCG ADEC LAND MANAGEREXXON:ADF&G:

Terry Ellsworth for John R. Reed
(for John Merrick, Koniag, Inc.)
(If field representative is on site)
Dan H. Wilson
Jeffrey P. Barnhart

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-09 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled substrate and biota. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles Z. [Signature] DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 23 m: No Oil 55 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BARNER [Signature]
EXXON ANDY TEAR [Signature] FOSC: [Signature] DATE: 5-1-90
NOAA Burt W. [Signature]
USCG G.A. REITER [Signature]

OG Pen 1

SEGMENT ST/ K0634/SL009

SUBDIVISION A

DATE 4 / 4 90

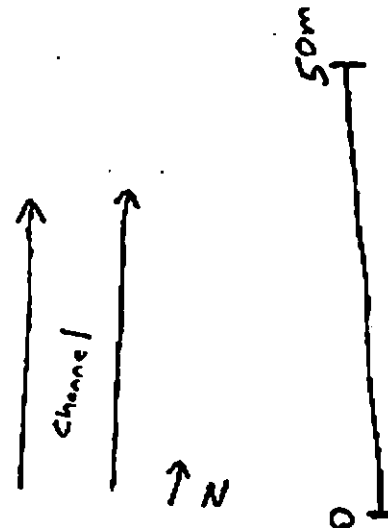
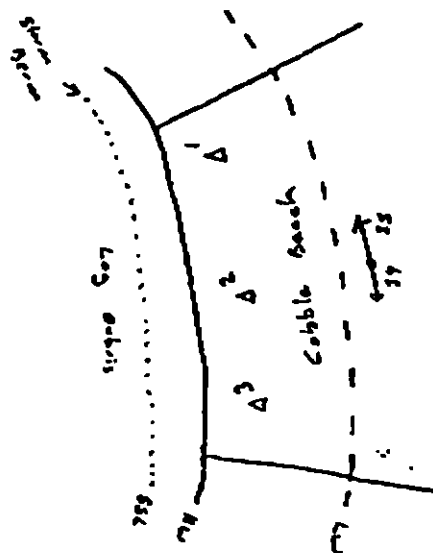
CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LW/LMA
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Photo Location(s)
- ☒ Photo Location(s)

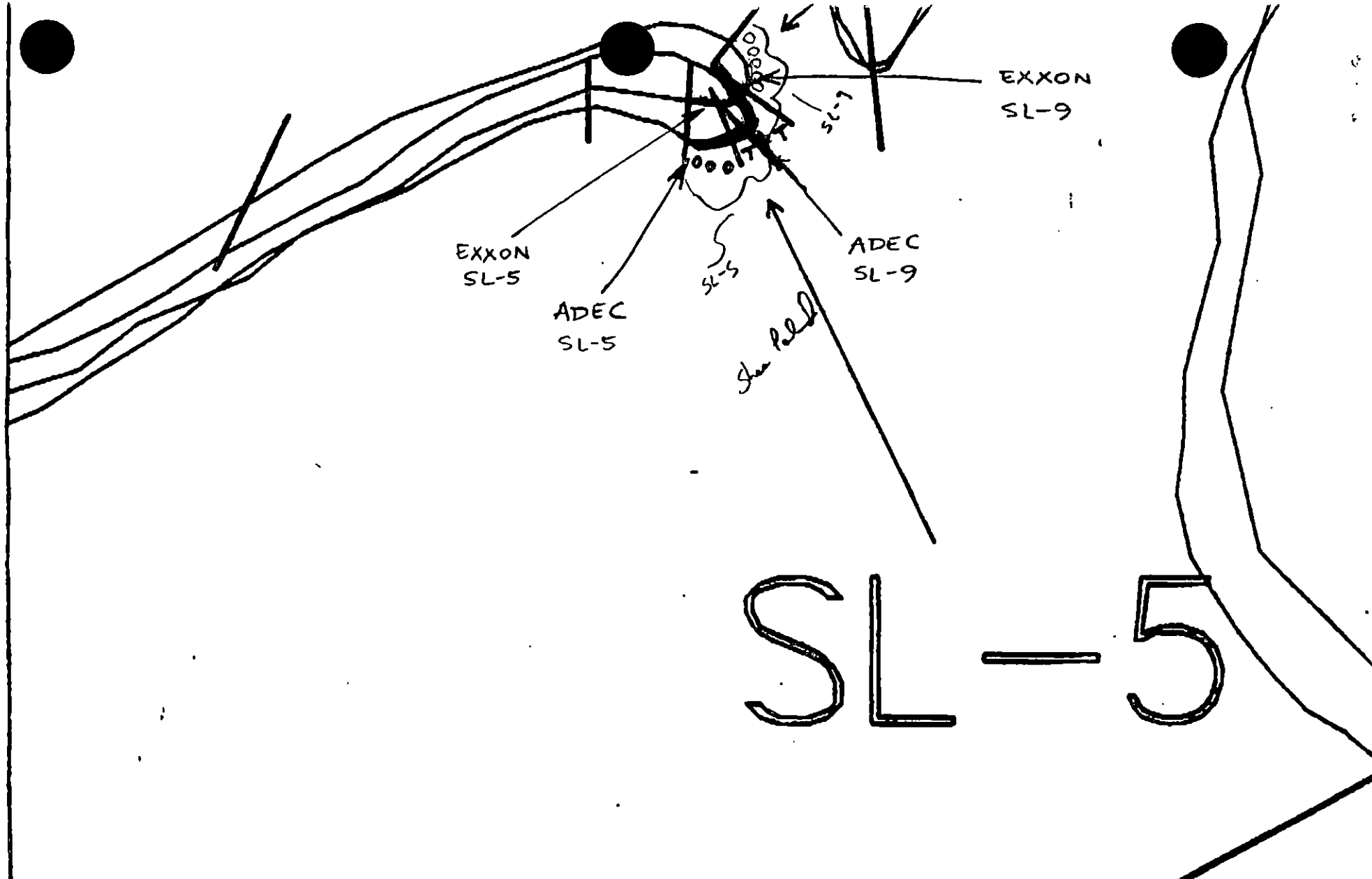
LEGEND

- 1 Δ
P1 - No Subsurface Oil
- 2 Δ
P1 - Subsurface Oil
- CT/C
Continuous Distribution
- CT/B
Broken Distribution
- CT/2
Patchy Distribution
- CT/S
Sporadic Distribution
- $\bullet \rightarrow$
Oiled Vegetation
- $\bullet \rightarrow$
Photo location, direction, and number

ATCH MAP



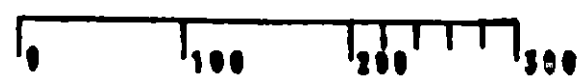
Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 49



XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light
 OOOO

SL-5

ADEC Segment Length: 57m



Map Key: GOA-194

Name: Pealand

Date: 4-4-92

Map Entered:

SL-9

SL-5

XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
OOOO No Oil

SL-9

ADEC Segment Length: 49m

0 100 200 300

Map Key: GOA-198

Name: Shea Island

Date: 4-4-90

Data Entered:

REGION: KODIAK

SEGMENT: K06-34-SL-09

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-09 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled substrate and biota. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 23 m: No Oil 55 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634 / SLO09 SUBDIVISION: A DATE 4-4-90

~~USCG~~

NAME

John Naughton

SIGNATURE

John V. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

No oil observed. This segment is made up of
cobble berm forming south side of stream bank mouth
(Sturgeon River). Appears to be quite dynamic, shifting
with strong flows of river.

ADEC

NAME

Scott Shetton

SIGNATURE

Scott Shetton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

K06/34 SLO09

Channel bank inner tidal flow and river currents
up to 8 knots in this area. NO oil observed 49 meters
walked 3 pits no subsurface observed.

LAND MANAGER

NAME

John Merrick

SIGNATURE

John Merrick Kona Inc

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Perland ~~NOAA~~ Naughton SEGMENT ST/ K0634/SL009
 BIO Spight LAND REP Merrick - KONIAG SUBDIVISION A
 EXXON Byers ADEC Shellen TIME 16:45 to 16:55
 TEAM NO.: 19 TIDE LEVEL: +2.5 ft to 2.0 ft DATE 7 / 4 / 90
 EST. SUBDIVISION LENGTH: 49 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock log debris
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 49 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IP	IS	1	2	3	4	5	6	7	8	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT: H F S 0 sq. m by C cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS C

Photographs:

Roll No. 19-4Frames 34-35

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW	OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO			1	2	3	4	5	6	7	8	SU	U	M	U		
1	20																					Cobble
2	20																					Cobble
3	20																					Cobble

COMMENTS

- This segment represents the channel bank of Sturgeon Lagoon.
- no oil observed on beach and in pits
- Three major pits dug and several random pits were dug, no oil was observed.

OG Penland

SKETCH MAP

SEGMENT ST/ K0634/SL009

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ O: Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LW/LA
- ☒ SSL
- ☐ Profile Location(s)
- ☒ Profile(s)
- ☒ Pic Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pt - No Subsurface Oil

2 ▲

Pt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

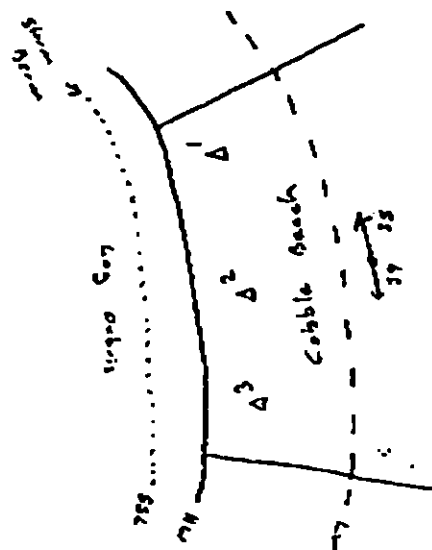
CT/S

Splashed Distribution

Dead Vegetation

1 →

Photo location, direction,
and number



N



Oil Character Le: AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 TB 0 FL 0 NO 49

230125074/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SL-9 Subdivision _____ Date (mo / day / yr) 4/4/90Time (24 hr) 16:45 Biologist SP/6HT(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder 10 (3) Cobble 70 (4) Pebble 10 (5) Sand 10 (6) Silt _____(B) Overall % cover of biota (% of segment): Dense 70 Moderate 30 Low _____(C) Density, substrate preference (by number from A, above), &
vertical zonation of major taxa: (upper-U; mid-M; low tidal-L);
juveniles / adults (X), new settlement (3)Photographs:
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

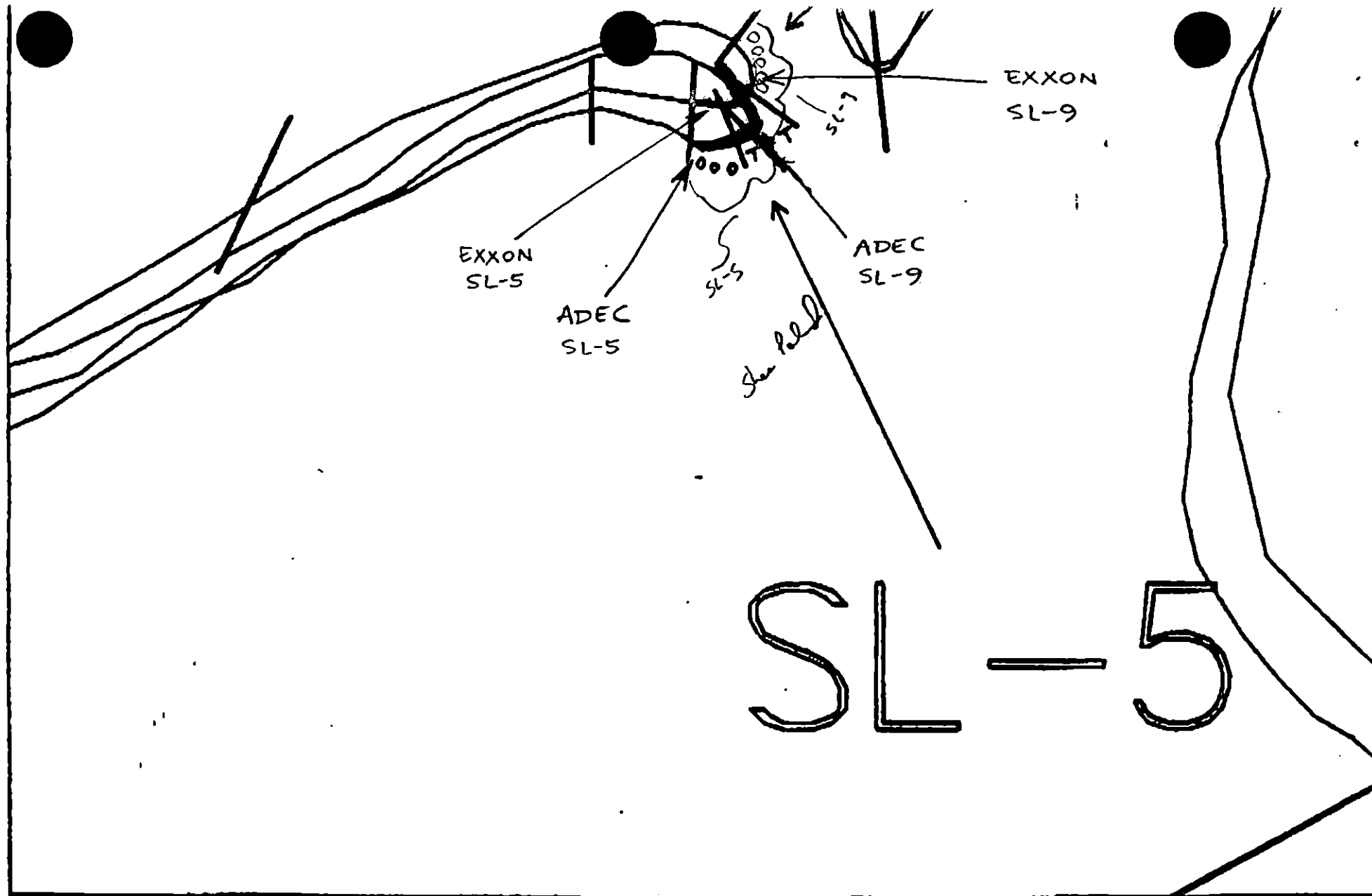
Ecological Considerations:

lower bank is almost entirely a mussel bed

1A, 1B, 8AA

KODIAK ECOLOGICAL CONSTRAINTS

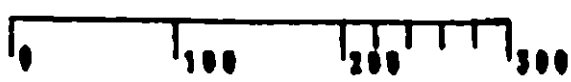
- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light
 o o o o

SL-5

ADEC Segment Length: 57m



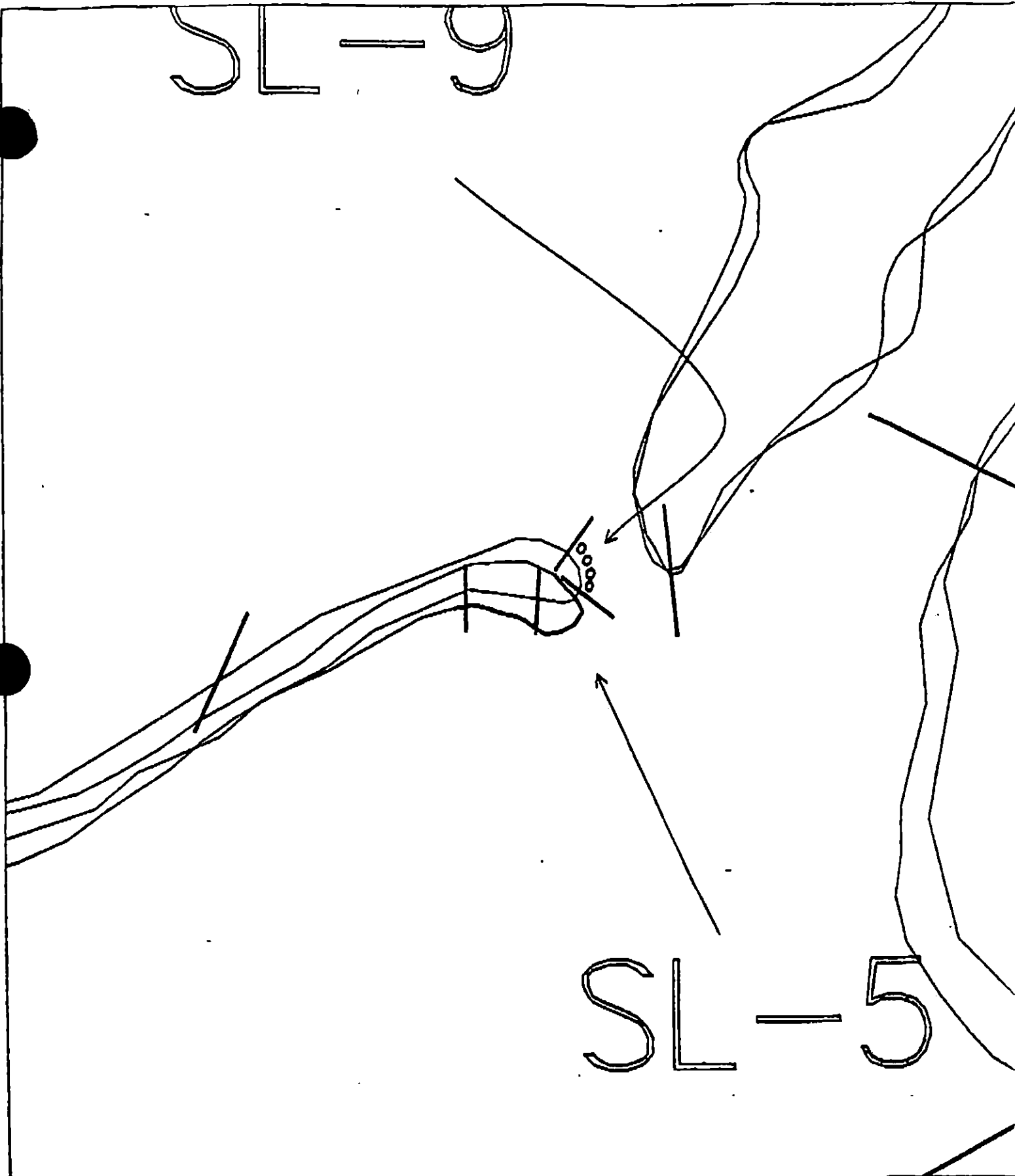
Map Key: GOA-194

Name: Pealand

Date: 4-4-90

note entered.

SL-9



SL-5

XXXX Wide

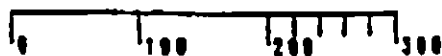
//// Medium

--- Narrow

TTTT Very Light

SL-9

ADEC Segment Length: 49m



Map Key: GOA-198

Name: Shen Pei-lan

Date: 4-4-90

Map Category:

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-011 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles Z. [Signature] DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 0 m: No Oil 847 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90
ADEC AL Kucuk [Signature]
EXXON ANDY TEAL [Signature] FOSC: [Signature] DATE: 4-20-90
NOAA Burl Wescott [Signature]
USCG G.A. BEITER G.A. Beiter

K6-34-SL-11A

SL-1

SL-11

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-11

ADEC Segment Length: 792m



K6-34-SL-11A

Map Key: GOA-184

Name: Acton

Date: 4-4-90

Date Entered:



K6-34-SL-11A

SL-1

Segment Boundary
SL-11
Segment Boundary

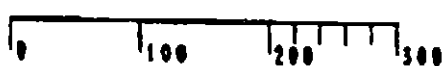
20-3
#19

A
A'

XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
OOOO No Oil

SL-11

ADEC Segment Length: 792m



K6-34-SL-11A

Map Key: GOA-184

Name: Acton

Date: 4-4-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/K06-34-SL-011

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-011 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 847 m

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat: _____ Breakup

_____ Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST K6-34, SL-11 SUBDIVISION: K6-34-SL-11A DATE 4-4-90

CG

NAMED D. Haven Jr., 6m3, USCGR

SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil sighted

ADEC

NAME Francine J. Benoit

SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Walked entire segment, 792 m. NO OIL OBSERVED.

LAND MANAGER

NAME JOHN P. HARDISTER

SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

no oil observed.

John Merrick

no oil - no clean up

John Merrick Konag Inc

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ K6-34-SL-11
 BIO Davis LAND REP USPWS Hardisty SUBDIVISION K6-34-SL-11A
 EXXON Avery ADEC Bennis TIME 5:45 10:15
 TEAM NO.: 20 TIDE LEVEL: +1.5 10 +2.0 DATE 4/4 /90
 ST. SUBDIVISION LENGTH: 792 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 0 % B 0 % C 0 % P 0 % G 25 % S 25 % M 50 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 792 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	IC	IS	IP	IS	SL	BR	RW	SL	TL	LR	SU	UI	M	U
ASPHALT														
PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL											✓	✓	✓	✓

PAVEMENT: H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. 20-3Frames 19

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SL	BR	RW	SL	TL	LR	SU	UI	M	U		
1	30					✓	-											✓			MS
2	30					✓	-											✓			MS
3	30					✓	-											✓			MS
4	30					✓	-										✓				MS
5	30					✓	-											✓			MS
							-														MS

COMMENTS No oil was observed in this section. Entire section was surveyed on foot

3 Acton

SKETCH MAP

SEGMENT ST/ Kv-34-SL-11

DIVISION Kv-34-SL-11 A

DATE 4 / 4 / 90

Approx. Scale
1 cm = 2 m

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Brady
- ☐ Ct: D+L
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HYDRAUL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

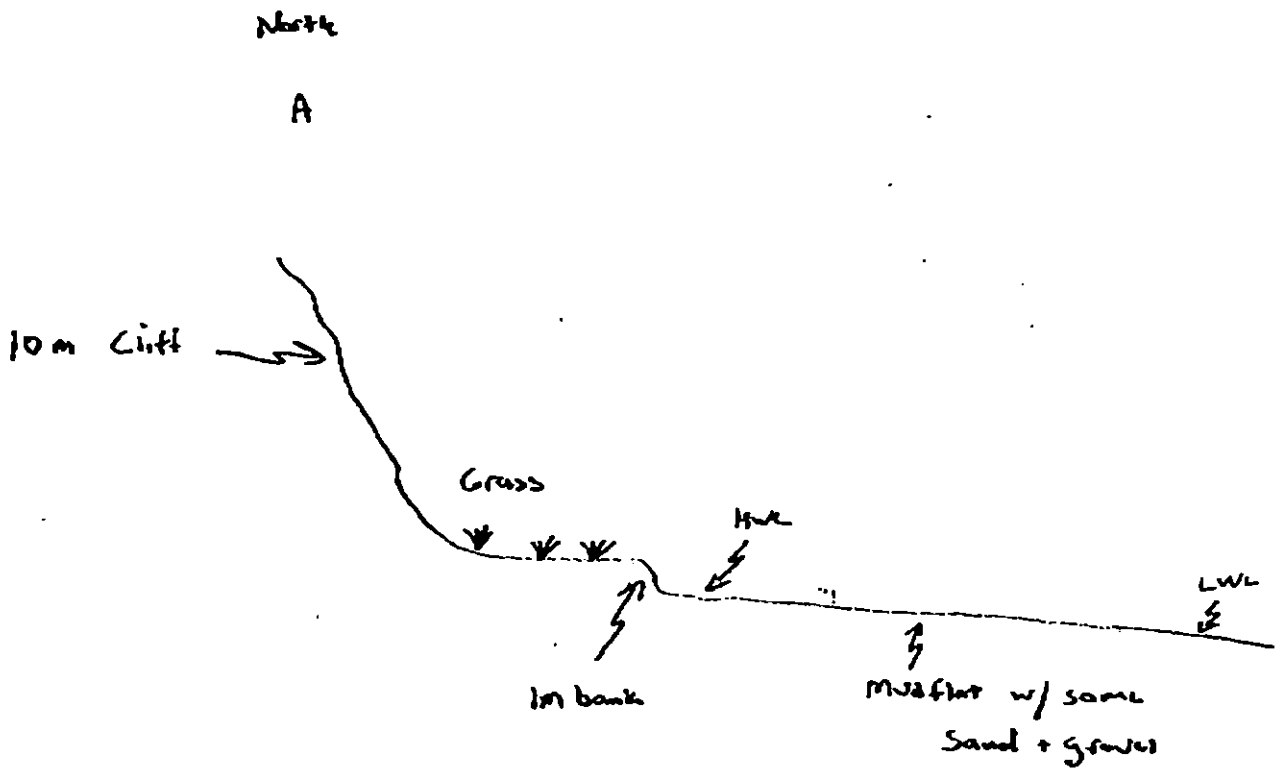
- 1 Δ
- No Subsurface Ct
- 2 Δ
- Subsurface Ct
- CT/C

Continuous Distribution
- CT/B

Open Distribution
- CT/P

Patchy Distribution
- CT/S

Isolated Distribution
- Red Vegetation
- 1 $\Rightarrow$
- to location, direction,
d number



SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/79

Segment ST/K06-34 Subdivision SL-11A Date (mo/day/yr) 4-4-90Time (24 hr) 17:30 Biologist H. Davis(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble _____ (4) Pebble 25% (5) Sand 25% (6) Silt 50%(B) Overall % cover of biota (% of segment): Dense _____ Moderate 50% Low 50% (25%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles/adults (X), new settlement (3)

Photographs:
Roll No. ST-20-3Frames 19, 20, 21

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	X	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 2, 3, 4, 5, 6

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	X
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 2, 4, 5, 6

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	X	3	3	3	3
4	4	4	4	4	4	4	X	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT
1, 2, 5, 6

Wildlife Observations/ General Comments: This area bordered the east fork of the Sturgeon River. Several eagles were seen over head (3 adult, 1 juvenile) River otter tracks were found in the mud. Deer tracks were numerous. There were patches of Fucus at the mouth of the fork and scattered blades of Ulva (monstrum?) and some filamentous Rhodophyta.

Ecological Considerations: (A, B, & C) The Sturgeon Lagoon is an estuary area that provides feeding and breeding habitat for birds (Eagles, Ducks, gulls and other waterfowl), mammals (Red Fox, Bear, Deer, and River Otter) and fish (Pike, Chum, Coho, Steelhead and Rainbow).

KODIAK ECOLOGICAL CONSTRAINTS

- ~~1A~~ ~~Salmon stream mouth - fry outmigration (4/15 to 7/31)~~
~~1B~~ ~~Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)~~
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C **Salmon fry nursery area (4/31 to 7/31)**
- 1D **Kodiak Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H **Remote release site**
- 1I **Gill net area**
- 1J **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K **Purse seine hook-off**
- 1L **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R **Seabird colony (5/1 to 8/31)**
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S **Shorebird/waterfowl concentration (4/1 to 5/15)**
 Restrict all activity to essential minimum, especially air traffic.
- 5T **All Bald Eagle nests (3/1 to 6/1)**
Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U **Recreation: Tent sites (6/1 to 9/15)**
- 6V **Anchorage (6/1 to 9/15)**
- 6W **Forest Service cabins (6/1 to 9/15)**
- 6X **Lodge (6/1 to 9/15)**
- 6Y **Special use destination**
- 7Z **Subsistence area: Salmon harvesting (6/1 to 9/30)**
- 7HH **Finfish harvesting**
- 7II **Deer harvesting (8/1 to 1/7)**
- 7JJ **Invertebrate harvesting**
- 7KK **Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)**
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

K6-34- SL-11A

SL-1

SL-11

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-11

ADEC Segment Length: 792m



K6-34-SL-11A

Map Key: GOA-184

Name: Acton

Date: 4-4-90

Date Entered:

K6-34-SL-11A

SL-1

Segment Boundary

SL-11

Segment Boundary

20-3
#19

A
A'
3
4
5

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

SL-11

ADEC Segment Length: 792m

0 100 200 300
METERS

K6-34-SL-11A

Map Key: GOA-184

Name: Acton

Date: 4-4-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-013 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: *Charles Z. [Signature]* DATE: 4/12/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 22 m: No Oil 446 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> <u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90

ADEC *[Signature]*
EXXON *[Signature]* FOSC: *[Signature]* DATE: 5-12-90
NOAA *[Signature]*
USCG *G.A. Reiter*

If cultural resources are uncovered during shoreline treatment, stop work

UG Kenland

SEGMENT 0634/SL013

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HML/LWL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

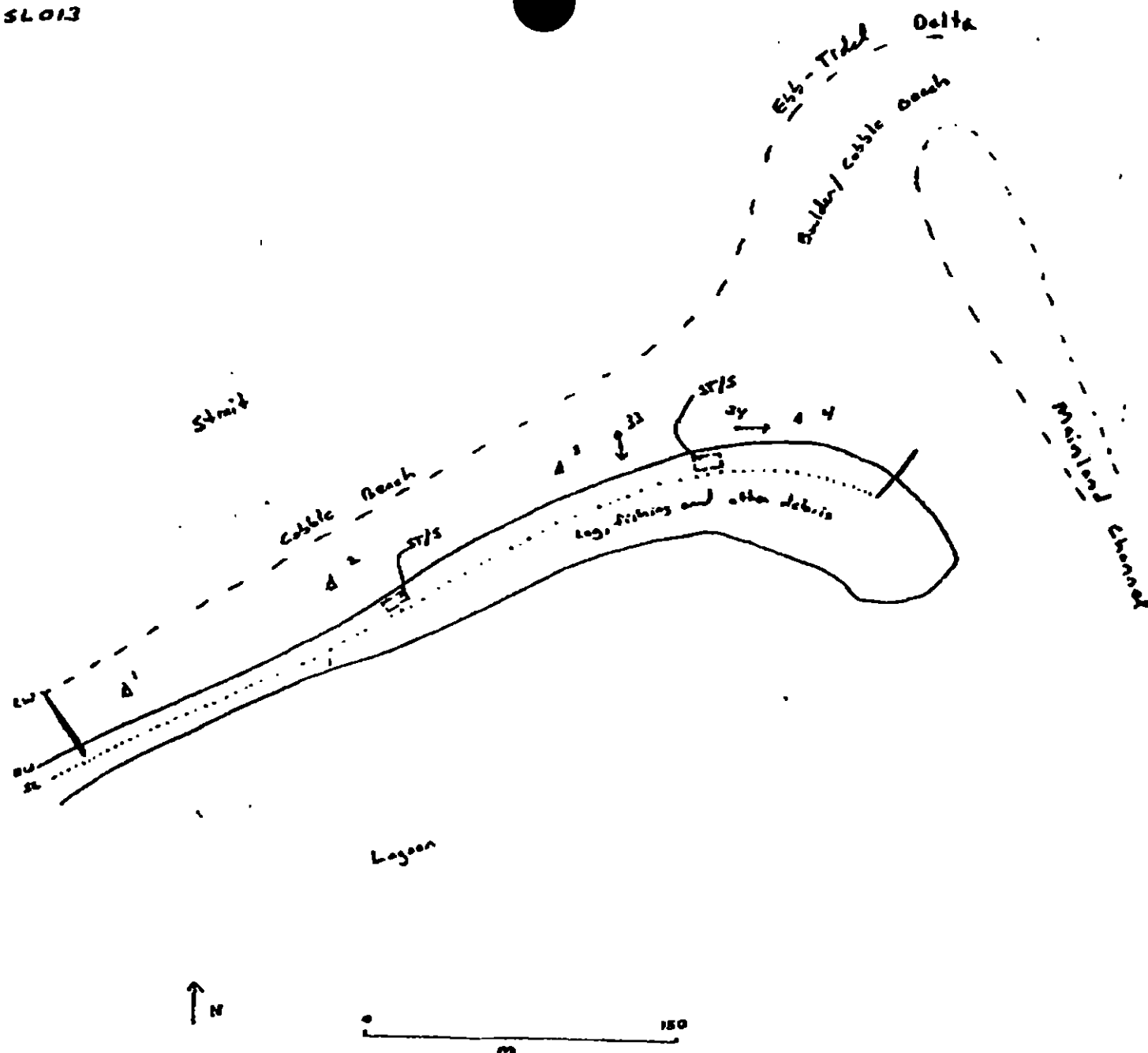
Splashed Distribution

Oil Vegetation

1 ➡

Photo location, direction,
and number

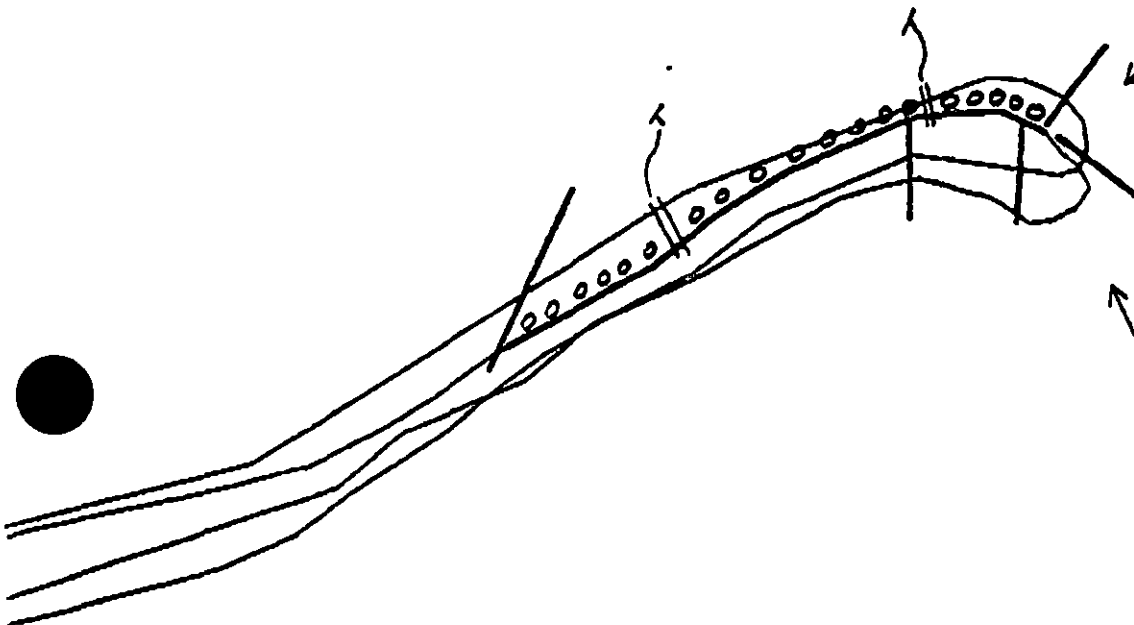
ETCH MAP



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST 10 MS ☐ PT ☐ TB ☐ FL ☐ NO 450

REVISION 000000

SL-13



SL-13

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-13

ADEC Segment Length: 468m



Map Key: GOA-277

Name: Shes Penland

Date: 4-4-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/K06-34-SL-013

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-013 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 22 m: No Oil 446 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

If cultural resources are uncovered during shoreline treatment, stop work

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634 / SLO13 SUBDIVISION: A DATE 4-4-90

NAME

John Naughton

SIGNATURE

John J. Naughton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

a few oil stains observed on wood debris, No treatment recommended. Very high energy beach.

ADEC

NAME

Scott Shelton

SIGNATURE

Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

K0634 / SLO13

TEAM walked 400 meters High energy beach
Stains observed on Berm drift logs - NO oil
observed at Pit locations or at subsurface levels
to 15 cm at the 4 pit locations. NO oil observed
on the cobble beach / High energy wave action with
inertial current energy from tidal drainage of
Sturgeon Lagoon in the Northern section of SLO13.

LAND MANAGER

NAME

John Merrick

SIGNATURE

John Merrick KONIAG, INC

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland ~~NOAA~~ USCG Naughton SEGMENT ST/ K0634/SL013
 BIO Spight LAND REP Merrick KONTAG SUBDIVISION A
 EXXON 3 years ADEC Shelton TIME 16:15 to 16:45
 TEAM NO.: 19 TIDE LEVEL: +3 ft. to +2.5 ft. DATE 4/4/90
 EST. SUBDIVISION LENGTH: 460 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock driftwood
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 0 % B 10 % C 80 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 10 m NO 430 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	10	15	20	25	25-30	30-35	35-40	40-45	45-50	50-55	SU	U	M	U
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				X		X					X			
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL											X	X	X	X

PAVEMENT: H F S 0 sq. m by 0 crPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. 19-5Frames 33-34

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OF	OR	OL	OF	NO		VO	UC	25-30	30-35	35-40	40-45	45-50	50-55	SU	U	M	U		
1	15					X	-									X					Cobble
2	15					X	-									X					Cobble
3	15					X	-									X					Cobble
4	15					X	-									X					Cobble
							-														
							-														

COMMENTS

- stains observed on exposed log (the distribution is very scattered).
- no oil observed on beach
- four pits were dug and cobbles overturned in random areas.

UG Penland

SEGMENT 0634/SL013

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LW
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PE Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
Plt - No Subsurface Oil

2 Δ
Plt - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

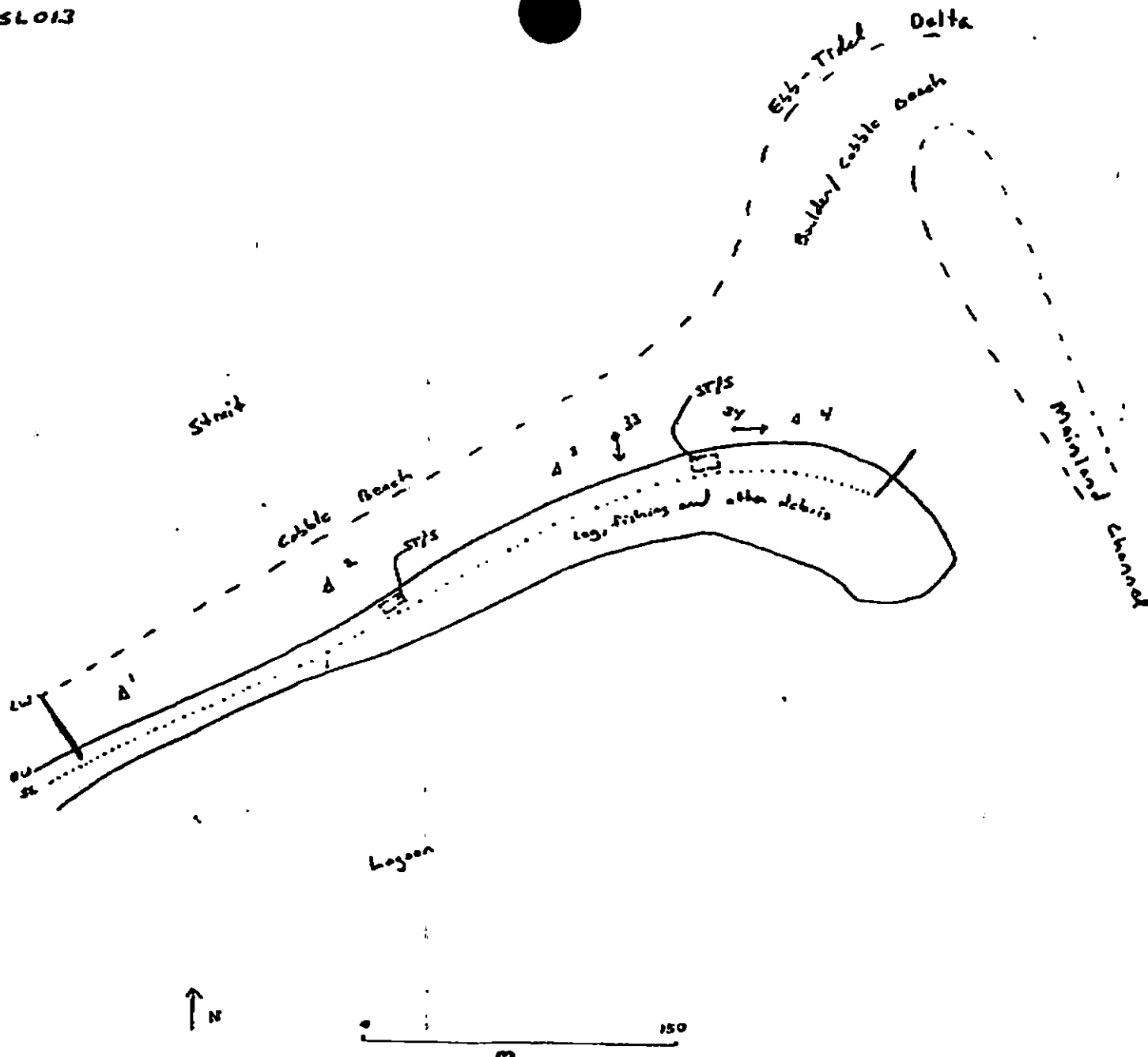
CT/P
Patchy Distribution

CT/S
Spotted Distribution

Oiled Vegetation

1 ●→
Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 10 MS 0 PT 0 TB 0 FL 0 NO 450

REVISION 000000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/81

Segment ST / SL-13 Subdivision _____ Date (mo / day / yr) 4/4/90Time (24 hr) 15:53 Biologist SPIGHT(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 100 (4) Pebble _____ (5) Sand _____ (6) Silt _____(B) Overall % cover of biota (% of segment): Dense 20 Moderate 30 Low 50

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: Left area ~ 1610 est W = < 3 ft. Thus all obs refer to ML. UL sedentary spp occasional.

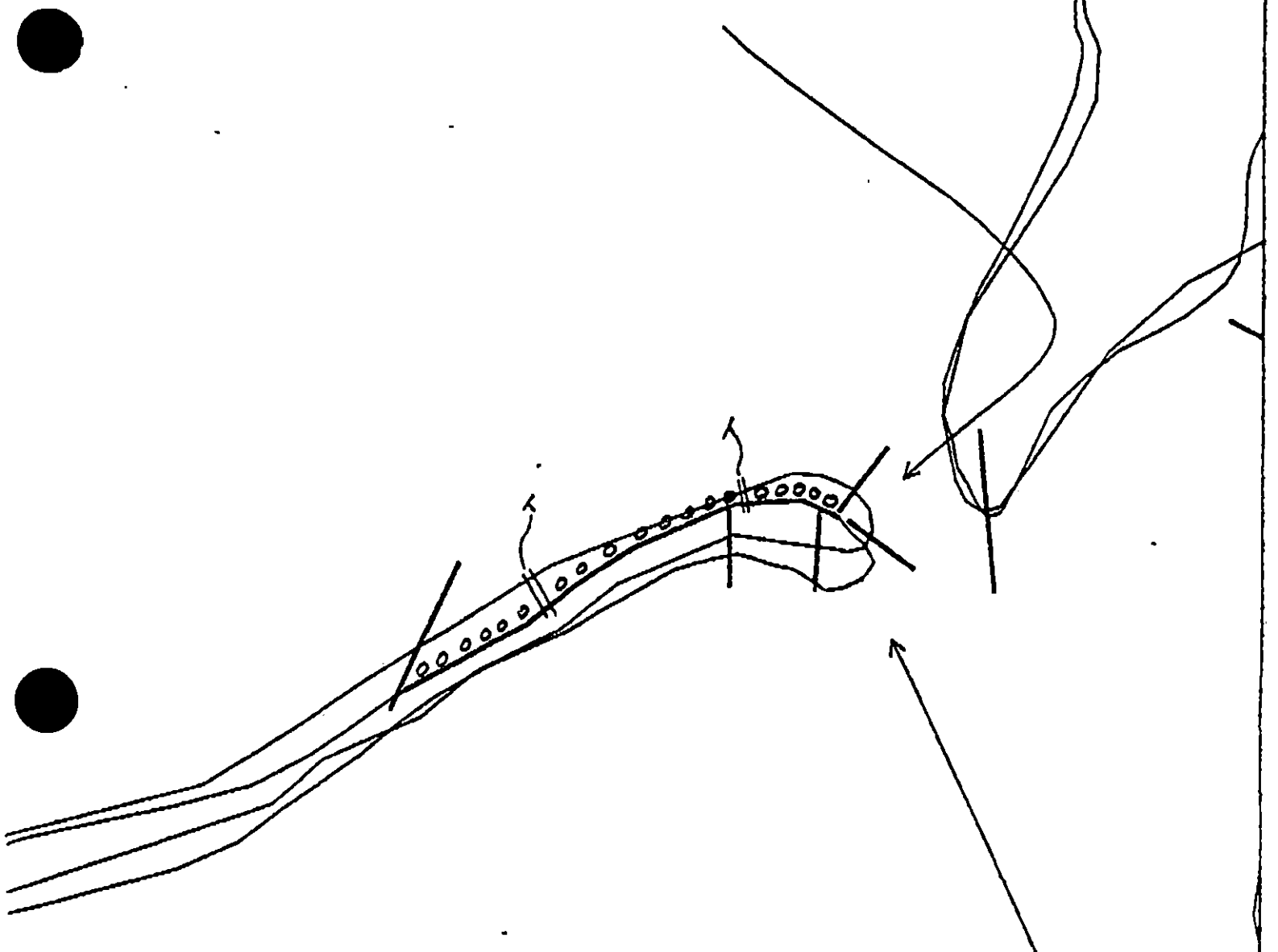
At ML: Area of B. carnosus cobble; above it dense bed of Mytilus attached in hooks betw cobbles or in some areas (near river) forming primary habitat. Appreciable bare cobble in area so overall density is not very high. 1A, 1B, 8AA

KODIAK ECOLOGICAL CONSTRAINTS

SL-013 'A'

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.
 No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotof Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3Q, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

SL-9



SL-5

XXXX Wide

/// Medium

---- Narrow

TTTT Very Light

0000 No Oil

SL-13

ADEC Segment Length: 468m



Map Key: GOA-277

Name: Shag Penland

Date: 4-4-92

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-014 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

8AA Sensitive estuary.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles E. Holmes DATE: 4/12/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 39 m: No Oil 1347 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90

ADEC Al Meyer

EXXON Andy Ten

NOAA Bull Wescott

USCG G.A. Reiter

FOSC: ML

DATE: 5-12-90

UG Perched

SEGMENT K0434/SL014

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HNTL/VL
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PA Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PT - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

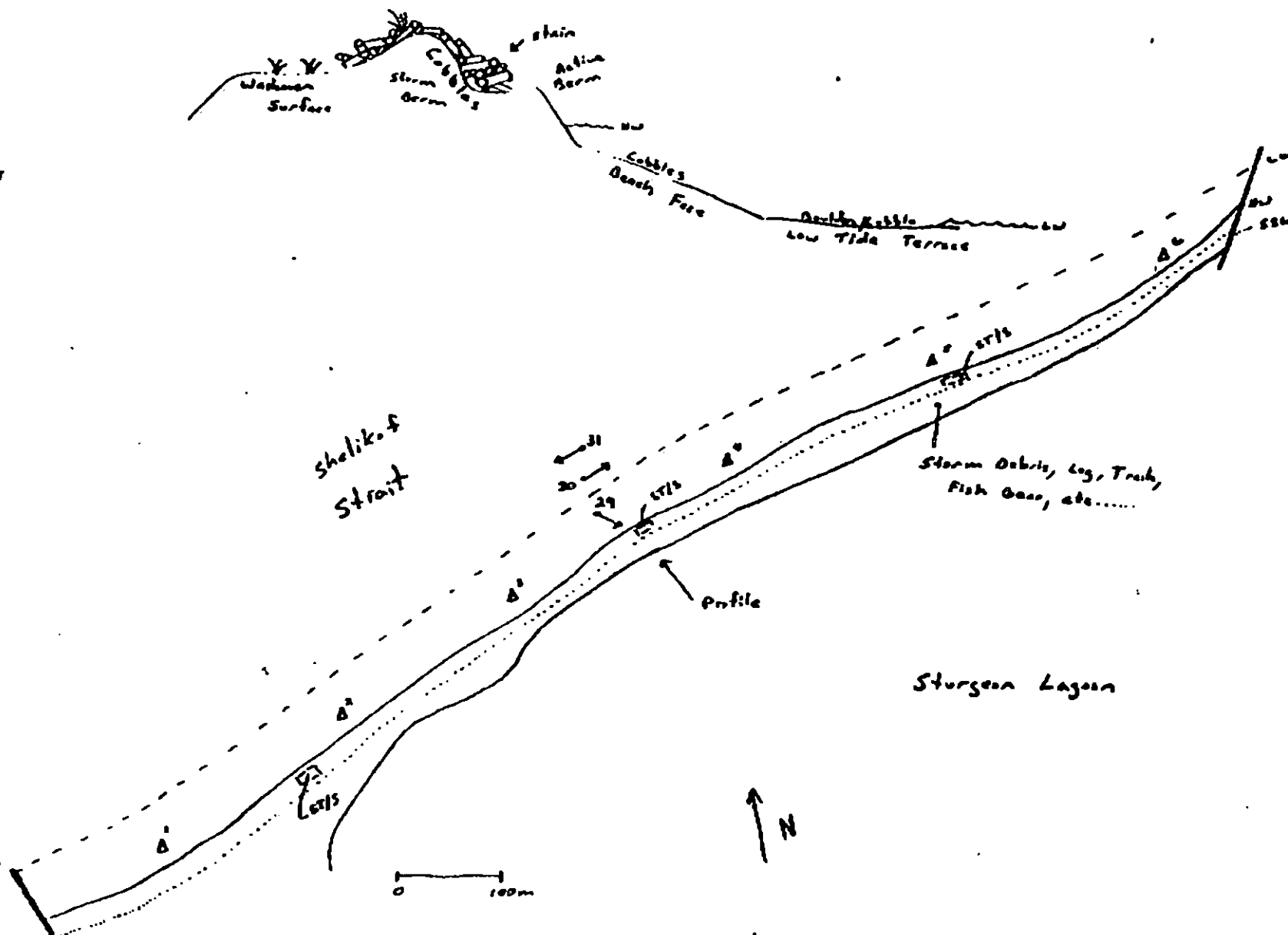
Splashed Distribution

Oil on Vegetation

1 $\Rightarrow$

Photo location, direction,
and number

ETCH MAP



Oil Character Length (m): AP 0 PO 0 OV 0 CT 0 ST 15 MS 0 PT 0 TB 0 FL 0 NO 1391

REVISION: 0001/90

SL-14

SL-8

SL-

GOA
187B →

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SL-14

ADEC Segment Length: 1406m

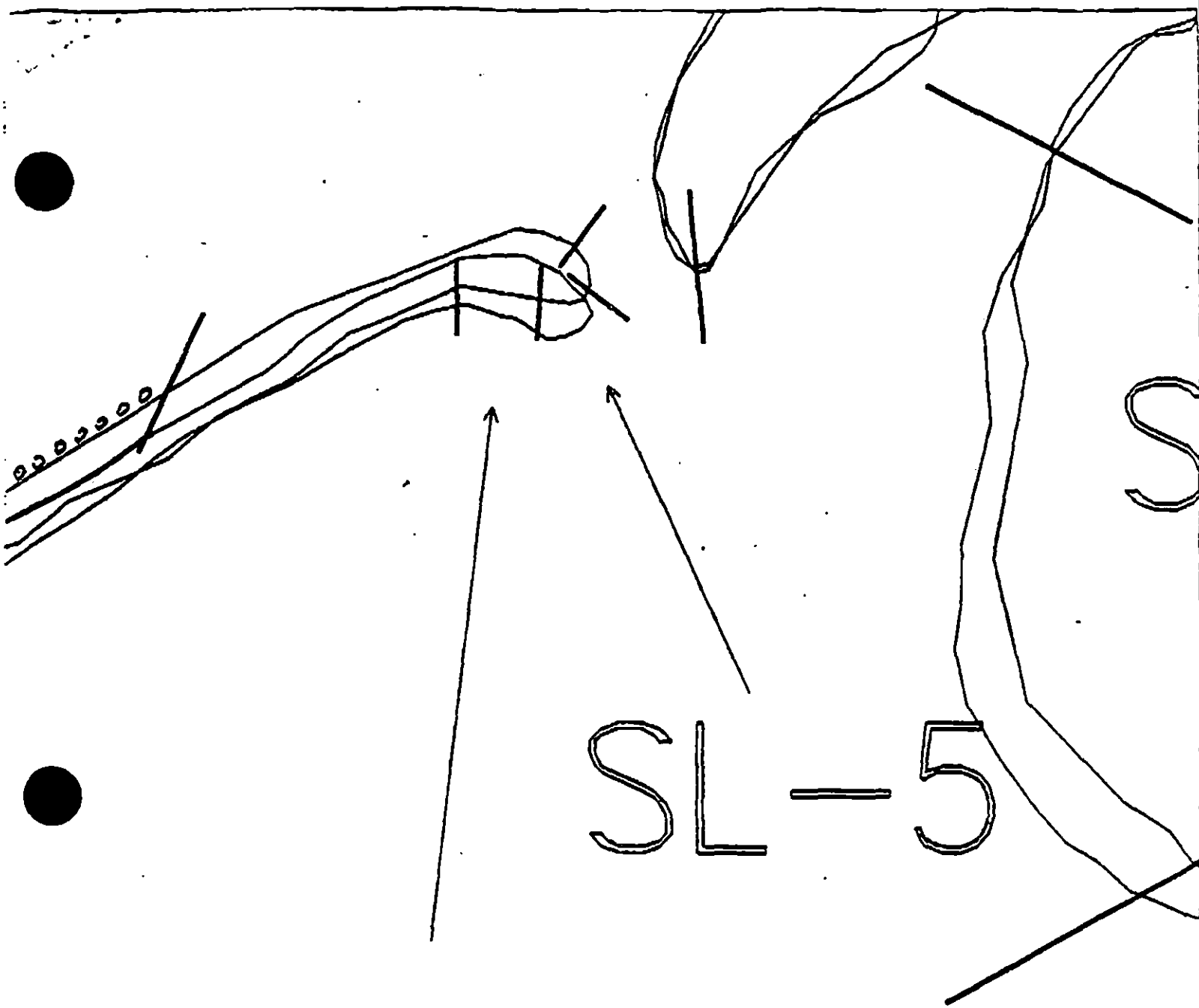


Map Key: GOA-187a

Name: Shea Penland

Date: 4-4-90

Data Entered:



← GUA
187A

XXX Wide

/// Medium

--- Narrow

TTTT Very Light

OOOO No Data

SL-14

ADEC Segment Length: 1406m



Map Key: GOA-187b

Name: Shen Penland

Date: 4-4-90

REGION: KODIAK

SEGMENT: ST/K06-34-SL-014

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-014 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. ASC #256-40, #10010

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

8AA Sensitive estuary.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 39 m: No Oil 1347 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634/SL014 SUBDIVISION: A DATE 4-4-99

~~704A~~
~~1000~~
NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Only a few splatters of oil seen on several logs in the massive debris berm. This coastline facing the Shelikof Strait is very high energy.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED
COMMENTS K0634/SL014

☐ TREATMENT SUGGESTED

Sub. A
TEAM 19 walked 1400 meters. Oil splatters observed on storm berm drift. NO other oil observed to subsurface pits. NO oil observed in subsurface Shelikof exposure High energy cobble beach.

LAND MANAGER

NAME John Merrick SIGNATURE John Merrick Koniag, Inc

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY

REVISION NO. 03/22/88

OG Penland NOAA USCG Naughton SEGMENT ST/ K0634/360/4
 BIO Spight LAND REP Marist KONIAG SUBDIVISION 9
 EXXON Byers ADEC Sheldon TIME 15:30 to 16:15
 TEAM NO.: 19 TIDE LEVEL: 1.9 ft to 1.3 ft DATE 4/4/90
 EST. SUBDIVISION LENGTH: 1406 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log Debris
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 0 % B 10 % C 80 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 15 m NO 1391 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	10	15	17	18	20	25	30	35	40	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				X		X				X			
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										X	X	X	X

PAVEMENT: H F S 0 sq.m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES - ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. ST-19-4Frames 29-31

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW	OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO			20	25	30	35	40	SU	U	M	U		
1	15					X	.							X					cobbles
2	15					X	.							X					cobbles
3	15					X	.							X					cobbles
4	15					X	.							X					cobbles
5	15					X	.							X					cobbles
6	15					X	.							X					cobbles

COMMENTS

- Three areas of 1m x 5m stain on log debris.
- No oil observed in shallow pits or on the intertidal beachface.
- Six pits were dug and in many other areas cobbles were randomly overturned.

UG Portland

SEGMENT S 0434/SL014

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWM/LWL
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PT - No Subsurface Oil

2 Δ

PT - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

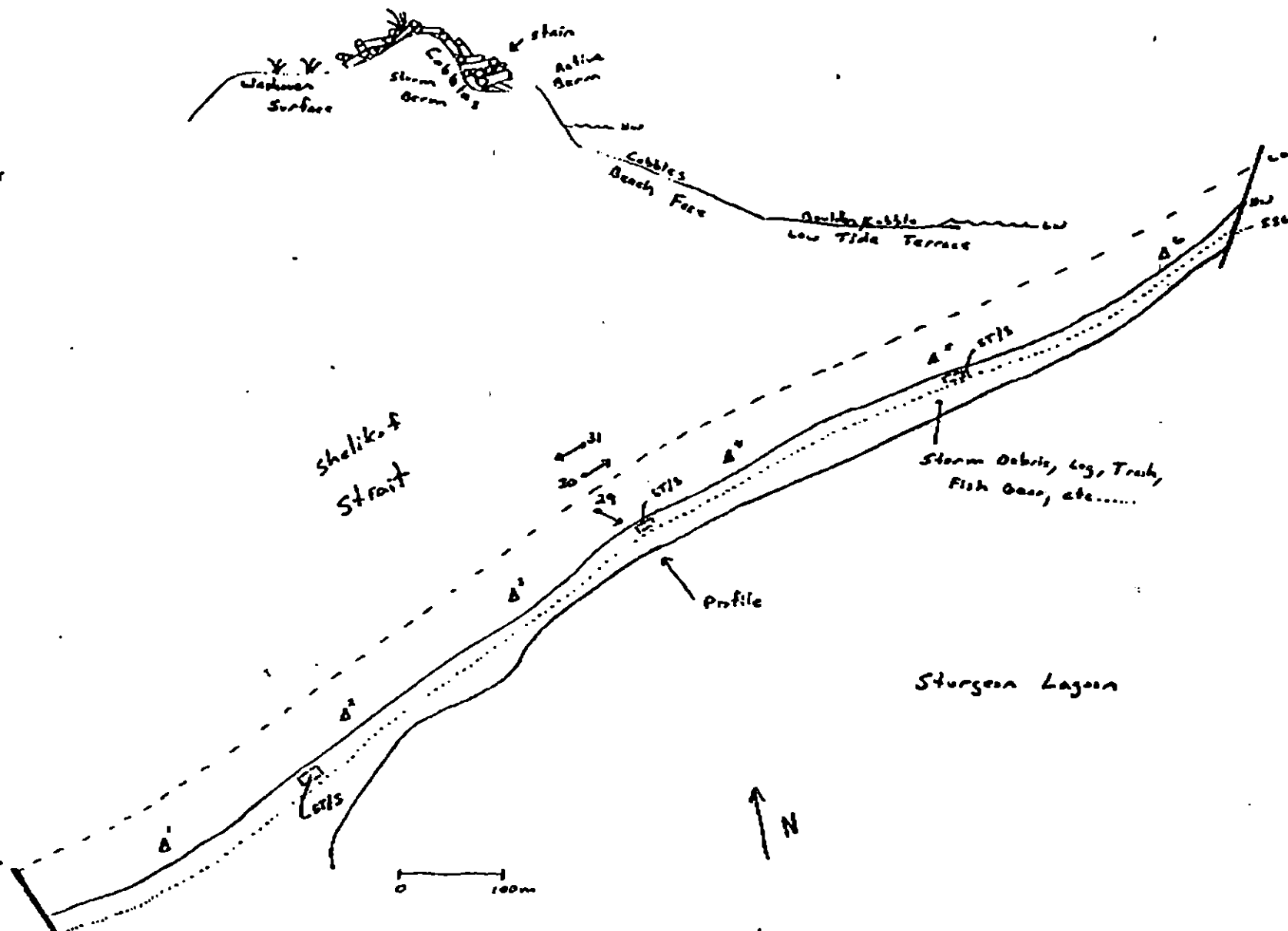
Splashed Distribution

Oiled Vegetation

1 →

Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 15 MS 0 PT 0 TB 0 FL 0 NO 1391

REVISED: 03/01/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SL-14 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 15:32 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 100 (4) Pebble _____ (5) Sand _____ (6) Silt _____

(B) Overall % cover of biota (% of segment): Dense _____ Moderate _____ Low 100

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	X	X	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	X	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	X	3	X	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	X	X	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Deer, Bear signs

Ecological Considerations: Left area 15:53 est W = +3 ft (tide falling) thus all obs refer to ML.

Generally sparse fauna on cobbles. Individual cobbles at ML may have moderate fauna; neighbors typically bare. Smooth, large littorine very abundant

1A, 1B, 8AA

ASC # 256-40, #10010

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.
 No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior
 to treatment for permits.
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- 1D Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gift net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
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 horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m
 horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m
 vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
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 and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
 treatment for confirmation of dates.
- 6U Recreation: Tent sites (8/1 to 9/15)
- 6V Anchorages (8/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

J L T U

SL-14

SL-8

SL-

GUA
187B →

XXX Wide
/// Medium
--- Narrow
TTTT Very Light
OOOO

SL-14

ADEC Segment Length: 1406m

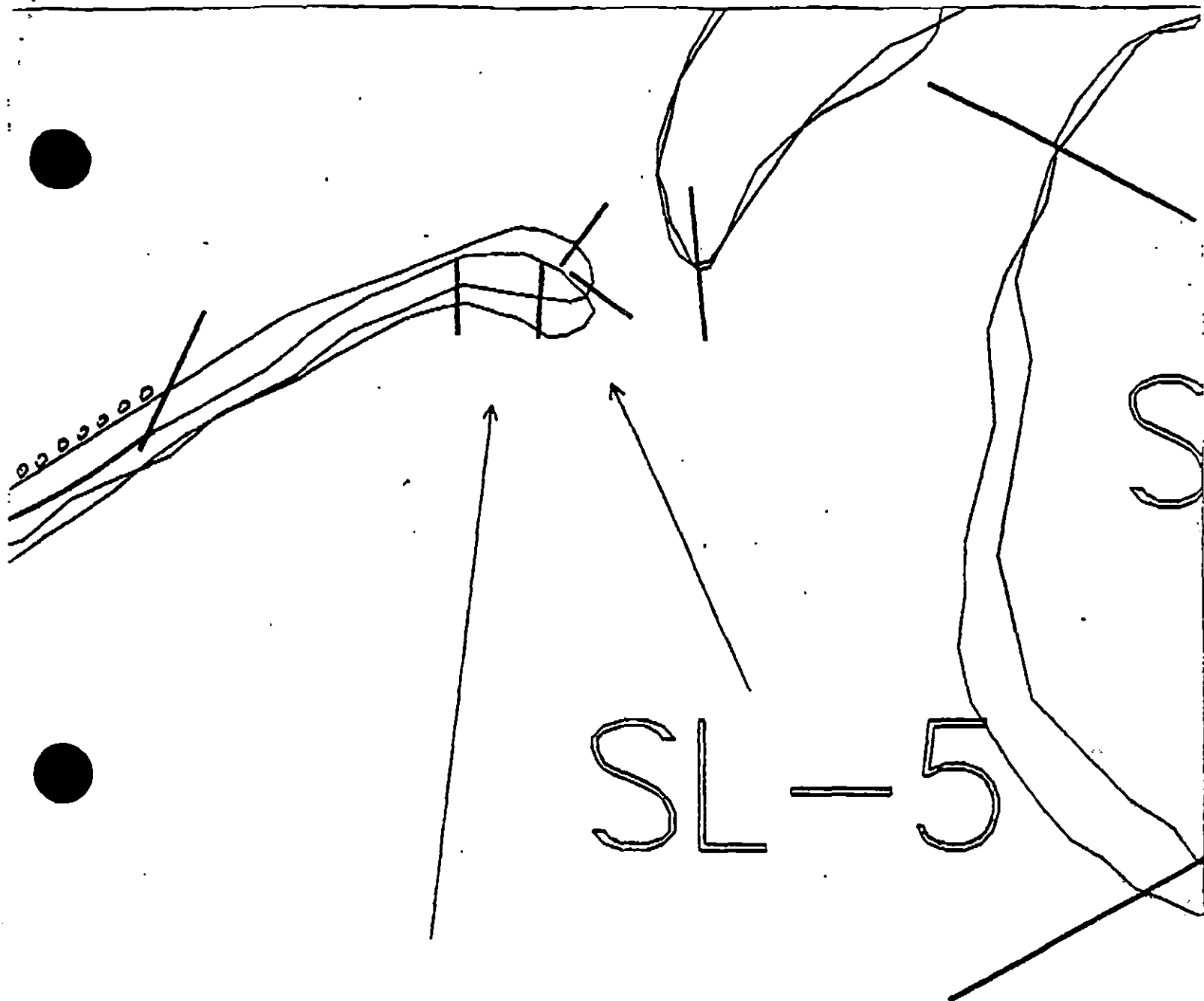
0 100 200 300

Map Key: GUA-187a

Name: Shea Penland

Date: 4-4-90





← GUA
187A

XX Wide

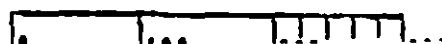
//// Medium

--- Narrow

TTTT Very Light

SL-14

ADEC Segment Length: 1406m



Map Key: GOA-187b

Name: Shea Penland

Date: 4-4-90

ARLIS
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Library & Information Services
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