

OIL SPILL PUBLIC INFO. CENTER



3 6653 00006407 5

EVOS
GC
1552
.P75
S42
1991
v.13

[Shoreline evaluations, 1991].

Kodiak K0110 SI 005 to K0302 IB 04

Title supplied by cataloger. This title page is supplied by Alaska Resources Library and Information Services (ARLIS).

ARLIS

Alaska Resources Library & Information Services
Library Building, Suite 111
3211 Providence Drive
Anchorage, AK 99508-4614

SHORELINE EVALUATION

SEGMENT ST/ K01-10-SI-005 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

3N Harbor seal pupping (5/10 to 6/30)
30 Harbor seal molting (8/15 to 9/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

C ARCHAEOLOGICAL CONSTRAINTS: An Exxon archaeological ^{CEH} ~~excavated~~ ^{excavated} prior to monitor is required on-site during shoreline treatment. ~~its~~ ^{it} will be ~~done~~ ^{done}

SHPO SIGNATURE: Charles Z. Holmes

DATE: 4/12/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 441 m: V.Light 0 m: No Oil 138 m
Subsurface Oil Observed: Yes X No Maximum Depth 12 cm

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>X</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 removal of pooled oil, followed by bioremediation of pooled oil and cover areas. Limit work to period between 7/1 and 8/14, per above constraints.

RAKE AREA INDICATED ON SKETCH PRIOR TO BIOREMEDIATION.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90

ADEC AL. REQUEN

EXXON ANDY TEN

NOAA Burl Wescott

USCG G.A. BEITER

FOSC:

DATE: 5-12-90

00 Pen 1

SEGMENT ST/ K0110/ SI 005

SUBDIVISION A

DATE 3 / 31 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Sep/Sub Bndry
- ☒ Oil Dist.
- Width
- Length
- % Cover
- ☒ Substrate Character
- ☒ Est. HWLAWL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ P/L Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
P/L - No Subsurface Oil

2 Δ
P/L - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

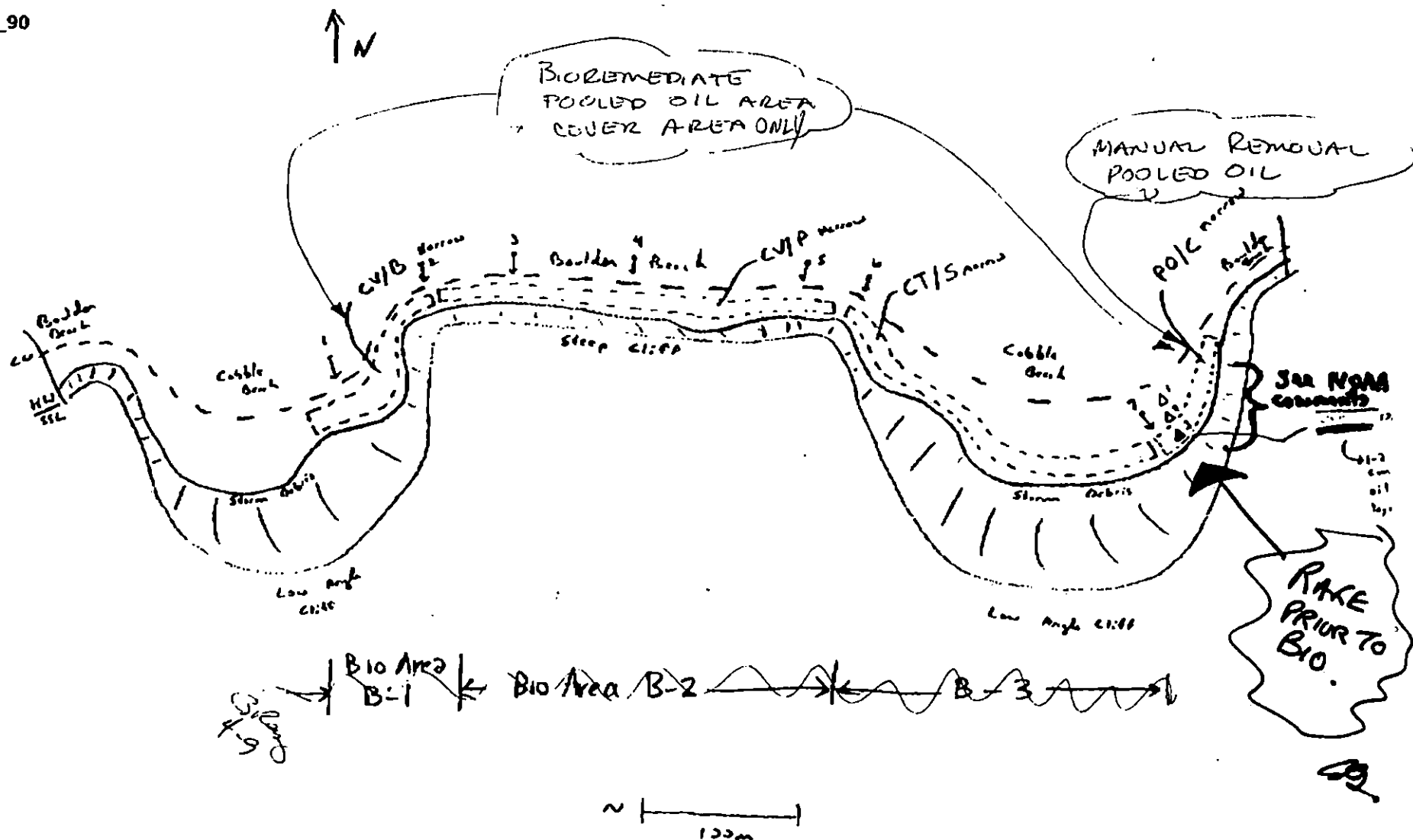
CT/P
Patched Distribution

CT/S
Splashed Distribution

Oil Vegetation

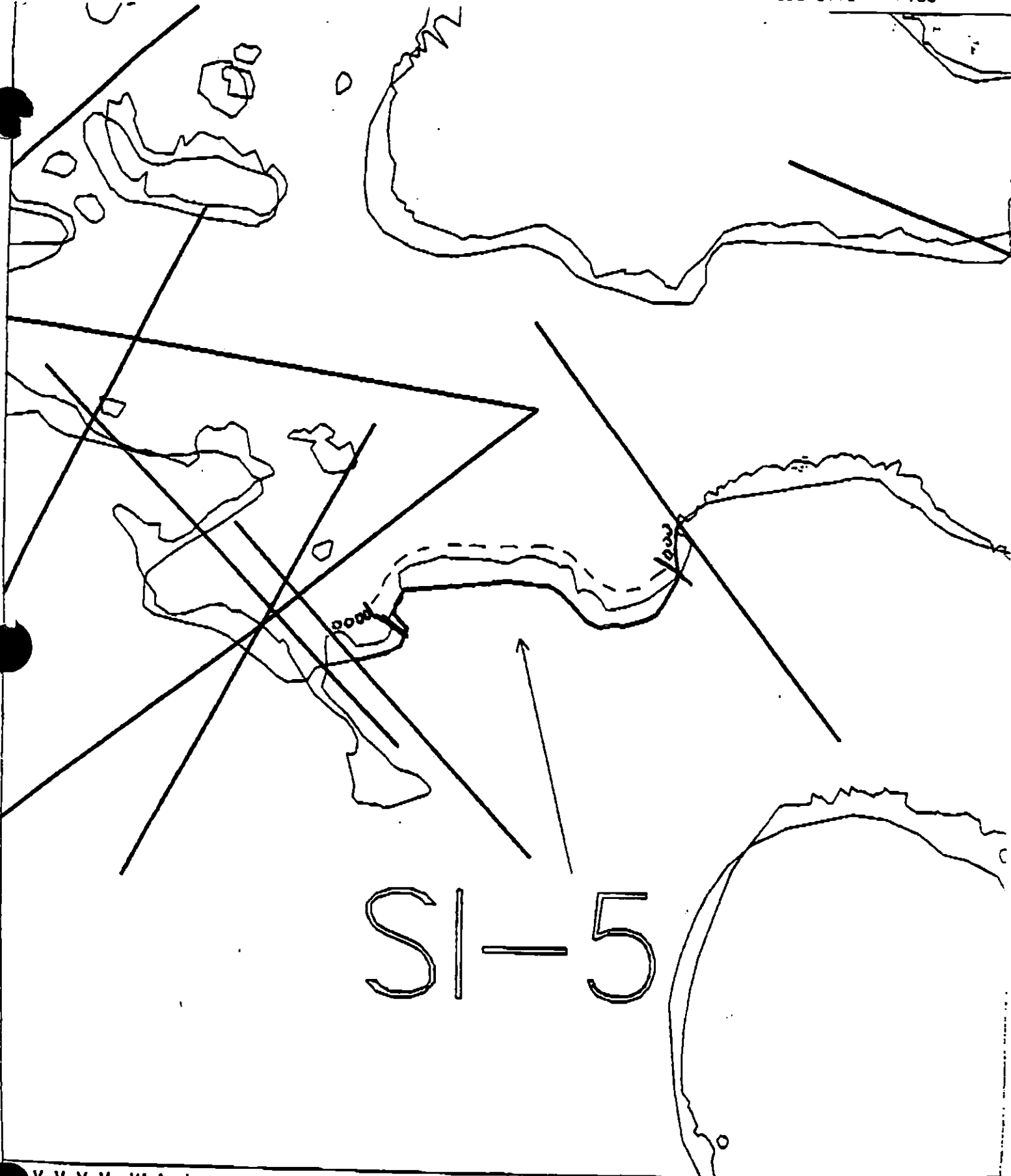
1 $\Rightarrow$
Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 50 CV 300 CT 200 ST 0 MS 0 PT 0 TB 0 FL 0 NO 150

REVISION 007400



SI-5

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

SI-5

ADEC Segment Length: 625m

Map Key: GOA-20

Name: Penland

Date: 3-31-90

REGION: KODIAK

SEGMENT: ST/K01-10-SI-100

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K01-10-SI-100 SUBDIVISION A (1 OF 1) DATE 5/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

T-1 All Bald Eagle nests (3/1 to 6/1) in Subdivision A

Active Bald Eagle nests (3/1 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)

Not on ADF&G map - but on NOAA list (?)

4GG State Marine Park Alaska State Parks

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 175 m: Narrow 50 m: V.Light 111 m: No Oil 2164 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 20+cm

RECOMMENDATIONS:

_____ No Treatment Recommended

X Treatment Recommended

X 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: Recommended treatment is manual removal of mousse and oiled debris as shown on attached sketch map.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

XXON _____

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 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 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
- 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 Subsistence area: Salmon harvesting (6/1 to 9/30)
 7HH 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 267-2356

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0110 SE100 SUBDIVISION: A DATE 5/24/90

USCG

NAME D.D. Haren Jr., GM3 USCGR SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Concur with ADEC Rep.

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Oiling in the segment consists of coat, cover, pooled mousse primarily in bedrock crevices and mousse with entrained sediments interstitial between boulders and cobbles. Three areas contain concentrations of recoverable mousse and mousse/sediment large enough to warrant treatment. Manual removal is recommended for the following areas: ① pocket beach just east of west segment boundary, ② pocket beach $\approx$ 700 m east of west segment boundary, and ③ large beach near middle of segment (see sketch map). Heavily oiled debris and trash should be removed. Note, nesting eagle very near site D.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

COMMENTS NOT AVAILABLE
AT PRESENT TIME

SSAT DATA
FAX COVER SHEET - GOLDSTREAK
(FOR SSAT PROGRAM TRANSMISSIONS ONLY)

TO: DAN DELAPINA FAX NO. 907 564-3771 TEAM NO. 19
FROM: James Springer LOCATION: Kodiak
PHONE NO: (907) 487-4000 FAX NO. (907) 487-4006
DATE: 5/25/90 TIME: 0900
NUMBER OF PAGES SENT INCLUDING FRONT COVER PAGE: 14

SSAT PACKAGE CHECK LIST:

SEGMENT NO.	SUBDIVISION	OG	SKETCH	COMPUTER MAP	FIELD SHORELINE COMMENTS SHEET	BIO	OPS
ST- <u>SI-100</u>	<u>A</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>ADEC / USCG</u>	<u>✓</u>	<u>✓</u>
ST-							
ST-							
ST-							
ST-							

PLEASE LIMIT 30 PAGES PER TRANSMISSION

COMMENTS: TOMORROWS PRIMARY SEGMENTS - AT AS-7, AS-4
TOMORROWS ALTERNATE SEGMENTS - IB-8

Mike Goodwin, Land Manager, is in Anchorage attending a memorial service and is not available for comments.

PRIMARY CONTACT:

PWS-
MARTY CRAMER @ 564-3721, GLENN HEYMAN @ 564-3723, FRED WEHREBERG @ 564-3726

SSA-
BRYAN TRIM @ 564-3674

SCAT SECRETARY - SANDY MOELLER-RIKARD @ 564-3660

IF ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CONTACT J. Springer
AT PHONE NUMBER 487-4000

EXXON - SCAT
3301 "C" STREET, SUITE 508
ANCHORAGE, ALASKA 99503
907-564-3660
FAX: 564-3771

SHORELINE OILING SUMMARY

REVISION NO. 2413.00

OG J. Springer USCG D. Haven SEGMENT ST/ KO 110 SI 100
 BIO D. Lohse LAND REP M. Goodwin SUBDIVISION A (1 OF 1)
 ADEC T. Ellsworth TIME 07:20 to 11:45
 M NO. 19 TIDE LEVEL -3 TO +4 DATE 05/24/90
 EST. SUBDIVISION LENGTH: 3/32 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 25 % B 25 % C 25 % P 15 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 40 % Hang 40 % Vert 20 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 130 m N 10 m VL 183 m NO 28/8 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	R	P	S	SP	BP	OP	BP	SP	SU	U	M	L
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT		X	✓	+	X	✓	+			X	✓	+	
STAIN													
MOUSSE		+	X	✓				X	✓	X	✓		
PATTIES													
TARBALLS													
FILM													
NO OIL										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	X		
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒

TYPE 0

#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 SUBSURFA SEDIMENT
		OP	OR	OL	OF	NO		UC	UC	SP	BP	OP	BP	SP	SU	U	M	L				
1	20	X					5-20	X					X		X							BGP/CP
2	30					X	.		X						X							P/CPG
3	40					X	.		X						X							G/G
							.															
							.															
							.															

COMMENTS

SEGMENT ST/ST-100

SUBDIVISION A

DATE 05/24/90

CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Entry
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. HAWAIIAN
- 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

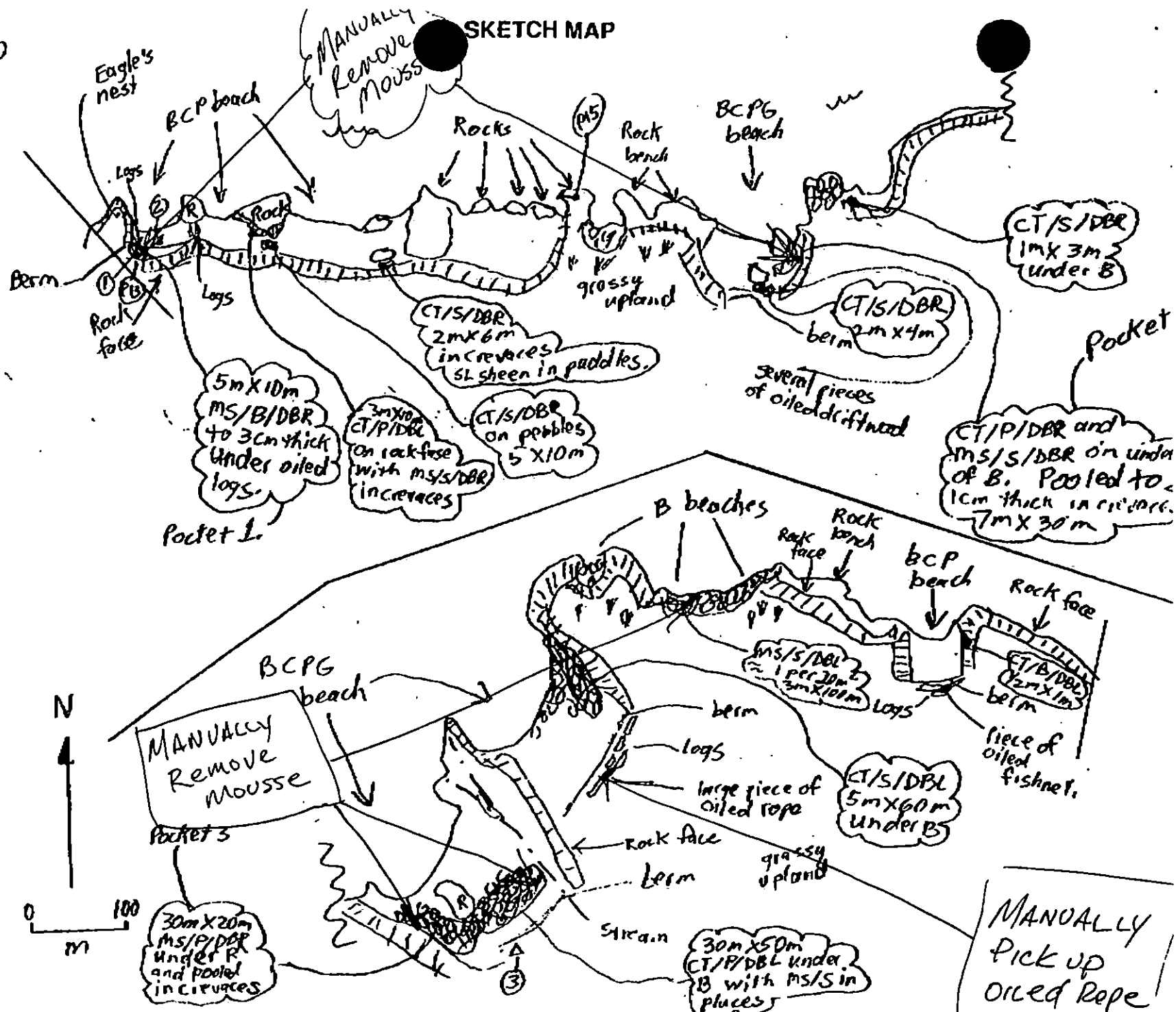
Splashed Distribution

Oiled Vegetation

1 →

Photo location, direction, and number

SKETCH MAP



REVISION 01/14/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K-10/SIN Subdivision A Date (mo / day / yr) 5-24-90Time (24 hr) 7:10 Biologist David Lohr

- (A) Substrate type and % of segments:
 (1) Bedrock 25 (2) Boulder 25 (3) Cobble 25 (4) Pebble 15 (5) Sand 10 (6) Silt _____
- (B) Overall % cover of biota (% of segment): Dense 45 Moderate 35 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 (O)

Photographs:
Roll No. ST-14-100Frames 12-16

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

Ecological Considerations:

One active bald eagle nest found on western segment boundary (see ecology map). In addition to the one mature eagle at nest 2 mature and 1 immature eagles were observed in the area.

1A, B - High of resource codes for this segment indicates anadromous fish in segment (see ecology map)

Shoreline Ecological Summary

LOT L

Segment ST/K-10/SI-100

Subdivision A

5-24-90

Biologist: David Cohen

Wildlife Observations / General Comments

1. Present in low intertidal: Rhodomenia, Siphonaria, coralline algae, Nuella, ~~re~~ unknown reddish-orange sponge, Scytosiphon, unknown filamentous red alga (Daysea) Lamirania, Spirorbis, yellow nudibranch (Anisodoris?), Leptasterias, Cuvieria, Onchidella, Ulva, Katharina tunicata, Pagurus, yellow sponge, Rhodometaria, Halosaccus, Epiactis, Alaria, Iridaea

mid intertidal: Siphonaria, Scytosiphon, Anthopleura, Zostera, Anelipa, Nuella, Epiactis, yellow sponge, coralline algae, sculpins, Ulva, Rhodometaria, Rhodomenia, Ralfsia, Pagurus, Gloiopeltis, Endocladia, Halosaccus, Iridaea, Porphyra, Alaria

high intertidal: Ulva

2. pair Widgeons, several oystercatchers, and many gulls present in area

3. Algal cover in low intertidal was ~95% on boulders and 90% on bedrock. ~~and~~ On mid-intertidal boulders it was more variable, ranging from 30-95%.

4. Ulva was quite abundant in high intertidal, reaching 50% in some areas.

5. Littorine eggs found on mid intertidal bedrock and boulders.

Recruitment and Mortality Summary

Segment ST/14 /SI-100

Subdivision A

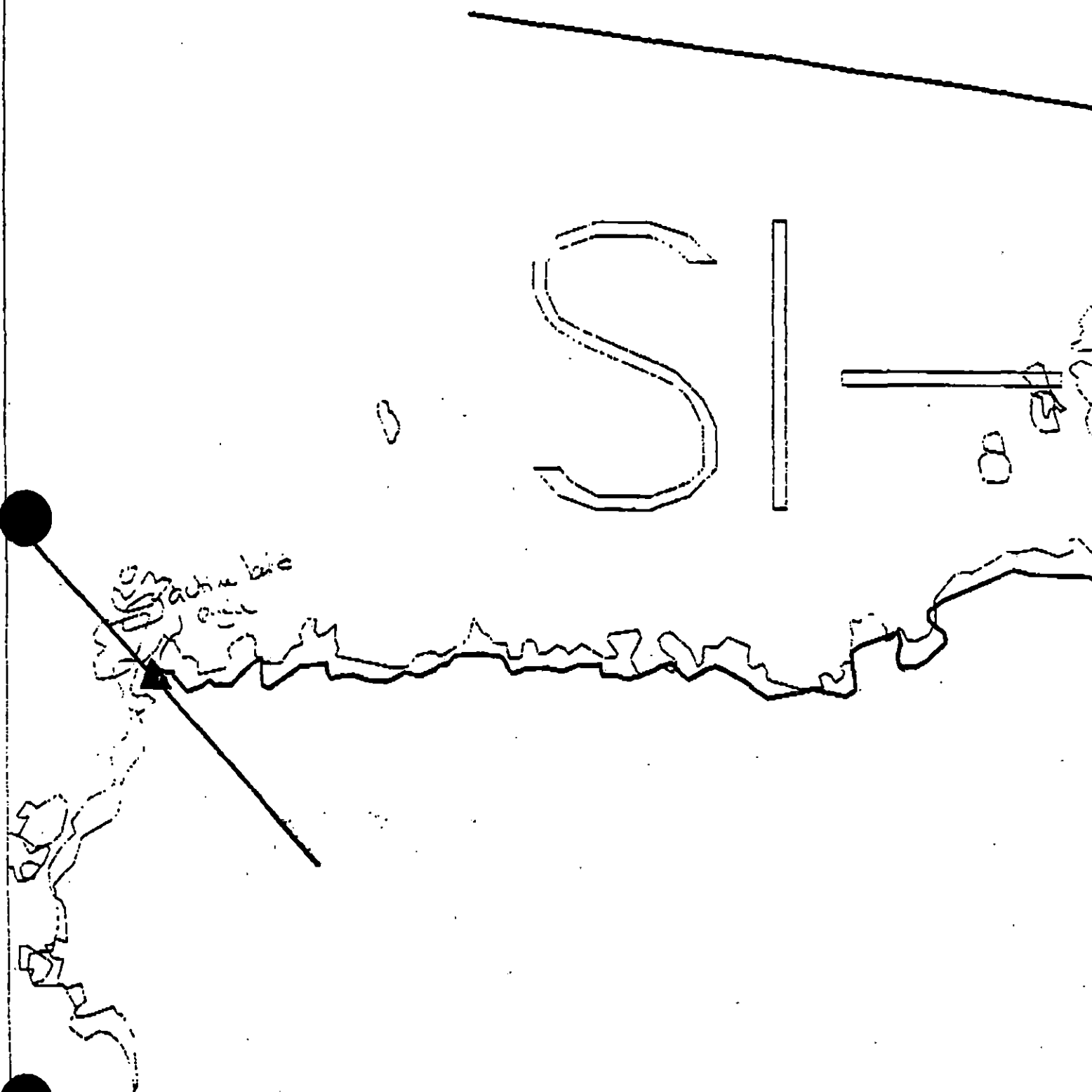
5-24-90

Regist: David Lohse

1. Recruitment of barnacles and ~~Acma~~ Fucus was patchy.
2. Distribution of Littorina eggs was patchy
3. Barnacle mortality in mid intertidal ranged from 15-20% on bedrock (2 sites estimated) and from 10-15% on boulders (2 sites estimated). Mortality on high intertidal bedrock was ~20% (1 site).
4. Mussel mortality was ~5% in mid intertidal pebble (1 site).

Ecology Map
Resource Codes for Entire Segment

B
ST



XXXX Wide

//// Medium

---- Narrow

TTTT Very light

SI-100

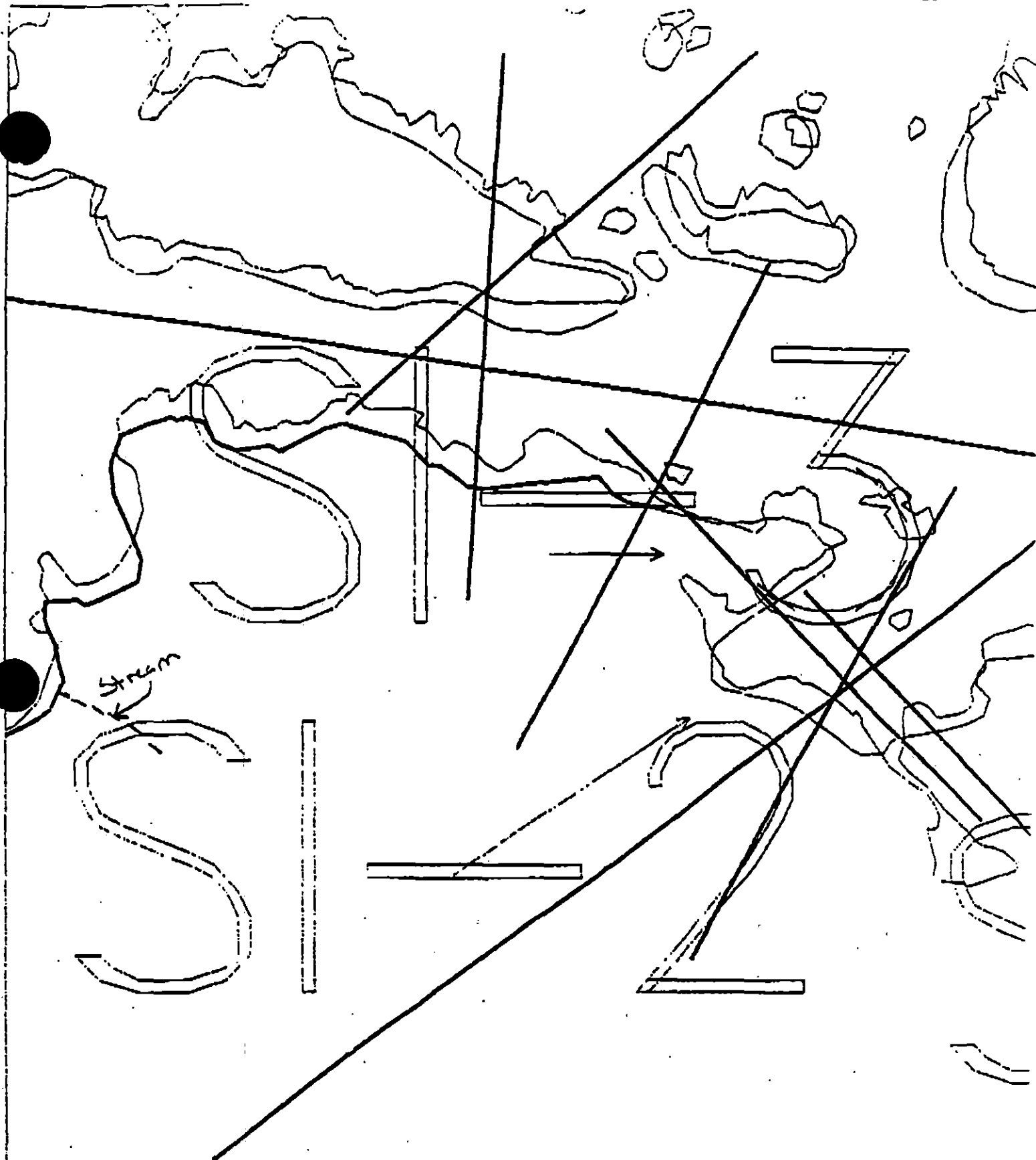
OLD KOD-SI-100

Approx. Segment Length: 2816m

Map Key: KOD-SI-100

Name: _____

Date: _____



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

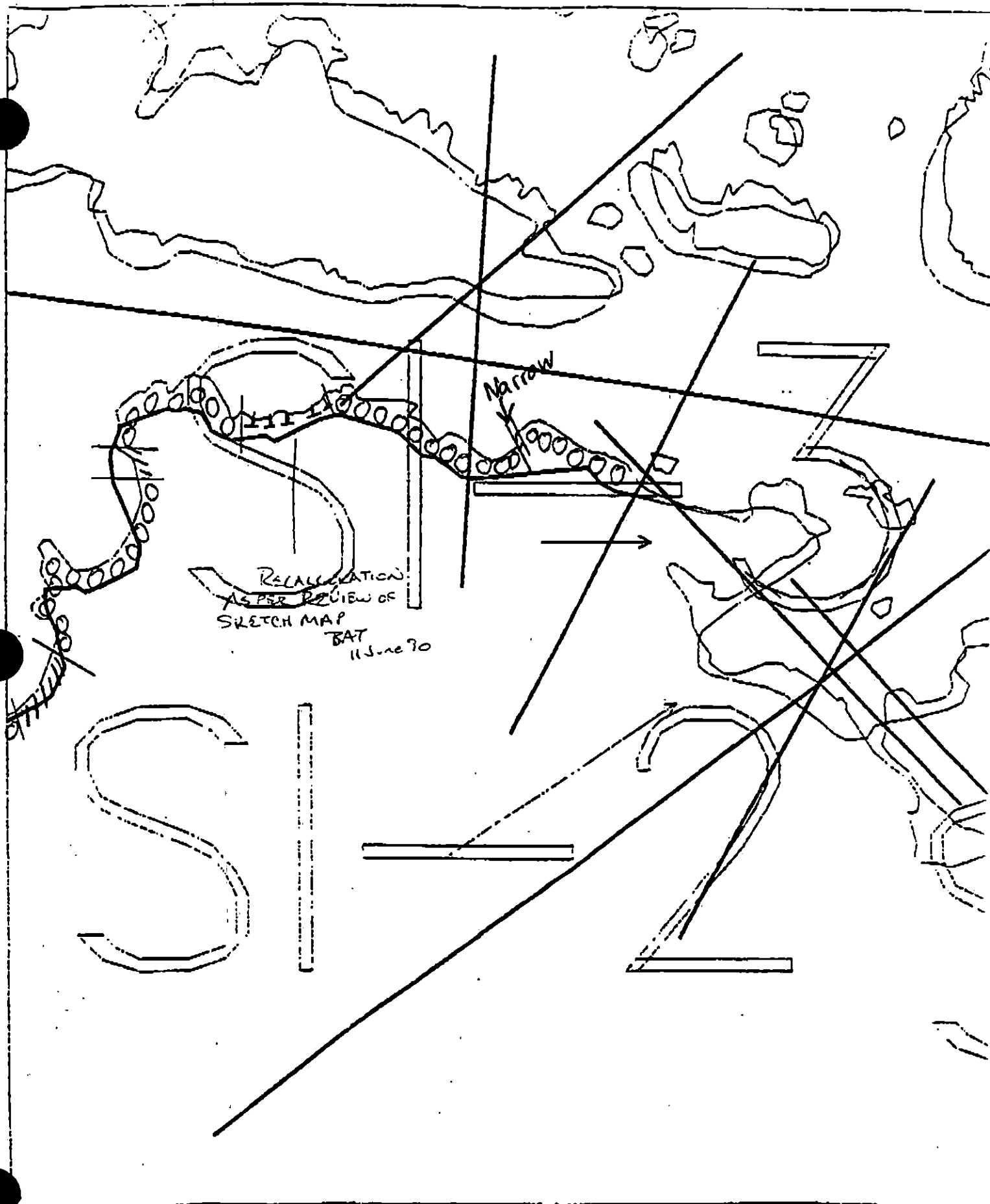
SI-100

Approx. Segment Length: 2816m

Map Key: K00-SI-10

Name: _____

Date: _____



XXXX Wide
 /// Medium
 --- Narrow

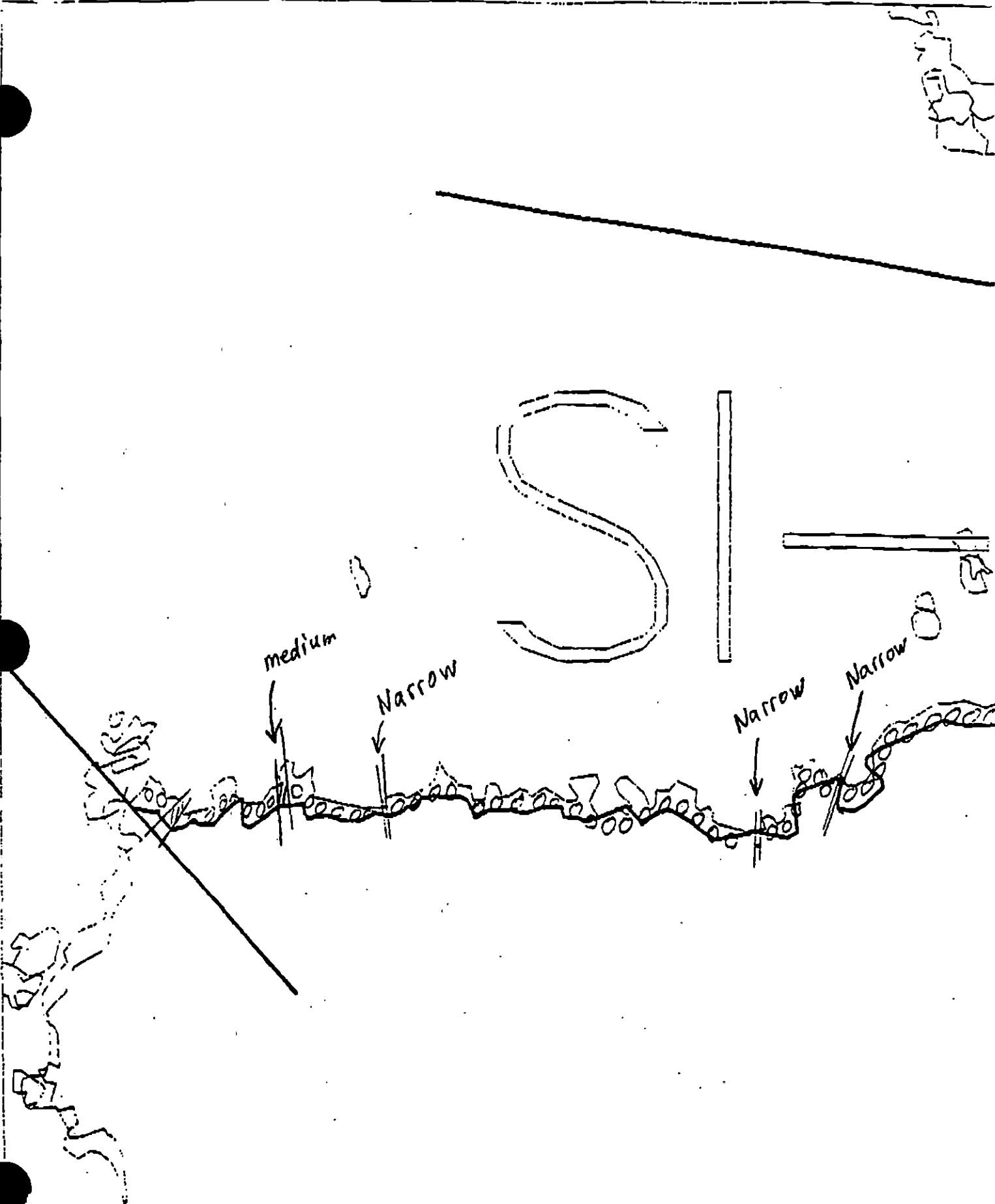
KØ11Ø-SI-100

Approx. Segment Length: 2816m

Map Key: KØD-SI-

Name: James Spring

100-100-100



XXXX Wide
 /// Medium
 --- Narrow

K0110-SI-100

OLD K011-XX500

Approx. Segment Length: 2816m

Map Key: K0D-SI-10

Name: James Springs

REGION: KODIAK

SEGMENT: ST/K01-10-SI-100

SUBDIVISIONS: A (1 OF 1)

2ND COPY

SHORELINE EVALUATION

SEGMENT ST/ K01-10-SI-100 SUBDIVISION A (1 OF 1) DATE 5/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All Bald Eagle nests (3/1 to 6/1) in Subdivision A
Active Bald Eagle nests (3/1 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)
Not on ADF&G map - but on NOAA list (?)
4GG State Marine Park Alaska State Parks
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 175 m: Narrow 50 m: V.Light 111 m: No Oil 2164 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 20+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 Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS: Recommended treatment is manual removal of mousse and oiled debris as shown on attached sketch map.

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 Kotof 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
- 3 Harbor seal and sea lion pupping (5/10 to 7/1)
3C 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
- 6J 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 / K0110 SE 100 SUBDIVISION: A DATE 5/24/90

USCG

NAME D.D. Hagen Jr., GM3156GR SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Concur with ADEC Rep.

ADEC

NAME Terry EllsworthSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Oiling in the segment consists of coats, cover, pooled mousse primarily in bedrock crevices and mousse with entrained sediments interstitial between boulders and cobbles. Three areas contain concentrations of recoverable mousse and mousse/sediment large enough to warrant treatment. Manual removal is recommended for the following areas: ① pocket beach just east of West Segment boundary, ② pocket beach ~ 700 m east of West segment boundary, and ③ large beach near middle of segment (see sketch map). Heavily oiled debris and trash should be removed. Note, nesting eagle very near site ①.

LAND MANAGER

NAME

SIGNATURE

☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDCOMMENTS NOT AVAILABLE
AT PRESENT TIME

SSAT DATA
FAX COVER SHEET - GOLDSTREAK
(FOR SSAT PROGRAM TRANSMISSIONS ONLY)

TO: DAN DELAPINA FAX NO. 907 564-3771

TEAM NO. 19

FROM: James Springer

LOCATION: Kodiak

PHONE NO: (907) 487-4000

FAX NO. (907) 487-4006

DATE: 5/25/90

TIME: 0900

NUMBER OF PAGES SENT INCLUDING FRONT COVER PAGE: 14

SSAT PACKAGE CHECK LIST:

SEGMENT NO.	SUBDIVISION	OG	SKETCH	COMPUTER MAP	FIELD SHORELINE COMMENTS SHEET	BIO	OPS
ST- SI-100	A	✓	✓	✓	ADEC / USCG	✓	✓
ST-							
ST-							
ST-							
ST-							

PLEASE LIMIT 30 PAGES PER TRANSMISSION

COMMENTS: TOMORROWS PRIMARY SEGMENTS - AT AS-7, AS-4

TOMORROWS ALTERNATE SEGMENTS - IB-8

Mike Goodwin, Land Manager, is in Anchorage attending a memorial service and is not available for comments.

PRIMARY CONTACT:

PWS-

MARTY CRAMER @ 564-3721, GLENN HEYMAN @ 564-3723, FRED WEHREBERG @ 564-3726

SSA-

BRYAN TRIM @ 564-3674

SCAT SECRETARY - SANDY MOELLER-RIKARD @ 564-3660

IF ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CONTACT J. Springer
AT PHONE NUMBER 487-4000

EXXON - SCAT
3301 "C" STREET, SUITE 508
ANCHORAGE, ALASKA 99503
907-564-3660
FAX: 564-3771

SHORELINE OILING SUMMARY

REVISION NO. 3413.00

OG J. Springer USCG D. Haven SEGMENT ST/ KO110 SL100
 BIO D. Lohse LAND REP M. Goodwin SUBDIVISION A (1 OF 1)
 ADEC T. Ellsworth TIME 07:20 10 11:45
 TEAM NO. 10 TIDE LEVEL -3 TO +4 DATE 05/24/90
 EST. SUBDIVISION LENGTH: 3/32 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 25 % B 25 % C 25 % P 15 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 40 % Hang 40 % Vert 20 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 130 m N 10 m VL 183 m NO 2818 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	R	P	S	SP	BP	CP	GP	HP	LP	MP	VP	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT		X	✓	+	X	✓	+						X	✓	+	
STAIN																
MOUSSE		+	X	✓					X	✓			X	✓		
TIRES																
TARBALLS																
FILM																
NO OIL													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	X		
Debris			

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒

TYPE 0

#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)	H	SURFACE SUBSURFA. SEDIMENT	
		OP	OR	OL	OF	NO		VO	VC	20-24	25-29	30-34	35-39	40-44	45-49	SU	U	M	L							
1	20		X				5-20	X						X		X										B/C/P
2	30					X	.		X							X										P/C/P
3	40					X	.		X							X										G/G
							.																			
							.																			
							.																			

COMMENTS

SECTION ST/ST-100

SUBDIVISION A

DATE 05/24/90

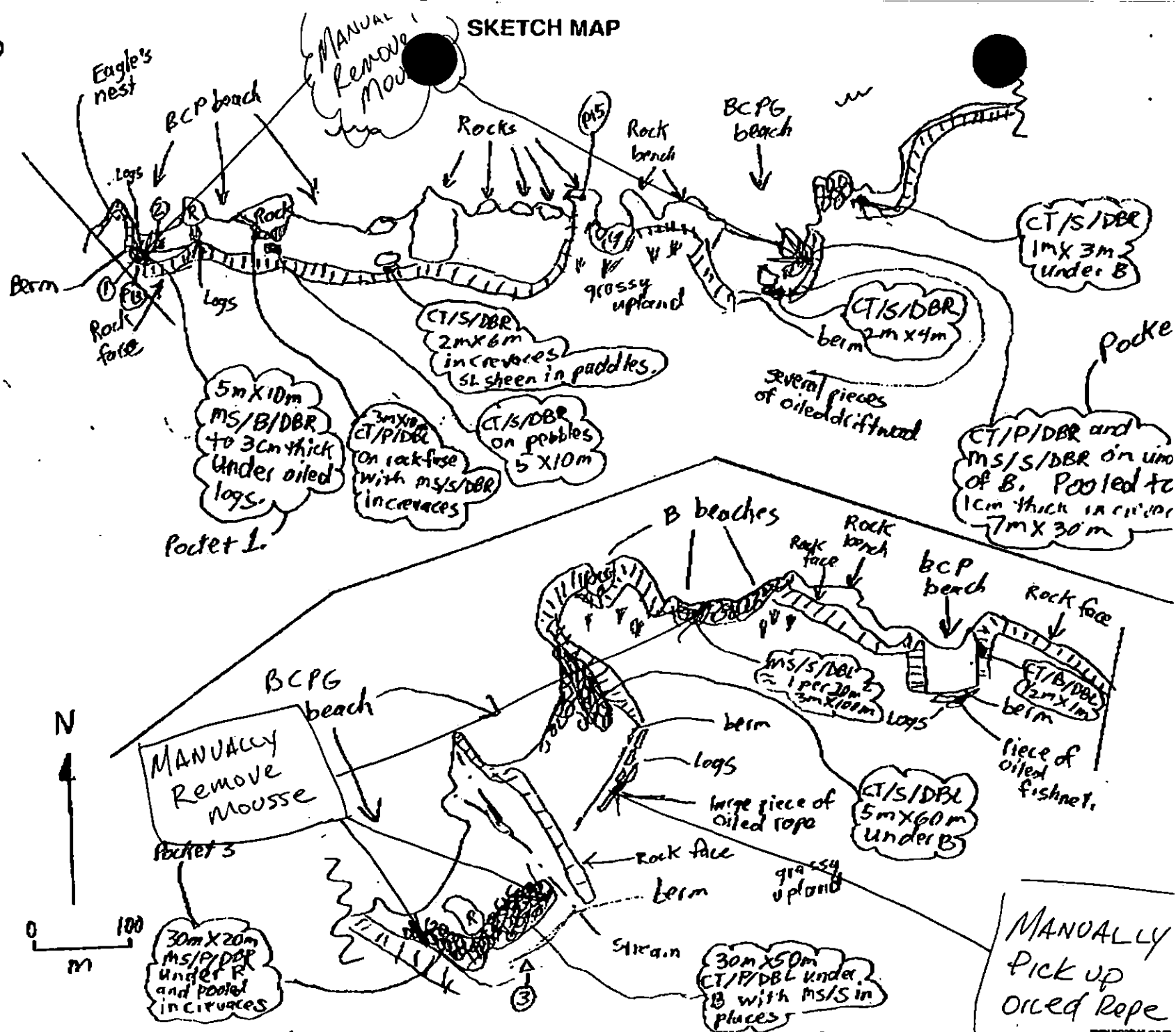
CHECKLIST

- ☐ 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
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 $\bullet$
Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP $\bigcirc$ PO $\bigcirc$ CV $\bigcirc$ CT 174 ST $\bigcirc$ MS 140 PT $\bigcirc$ TB $\bigcirc$ FL $\bigcirc$ NO 2818

REVISION: 01/7

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K1-10/51-100 Subdivision A Date (mo / day / yr) 5-24-90Time (24 hr) 7:10 Biologist David Lohr

- (A) Substrate type and % of segments:
 (1) Bedrock 25 (2) Boulder 25 (3) Cobble 25 (4) Pebble 15 (5) Sand 10 (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 45 Moderate 35 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 (O)

Photographs:
Roll No. ST-14-100Frames 12-16

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

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:

See page 2

Biological Considerations:

- ST - One active bald eagle nest found on western segment boundary (see ecology map). In addition to the one mature eagle at nest 2 mature and 1 immature eagles were observed in the area.
- A.B - List of resource codes for this segment indicates anadromous

Shoreline Ecological Summary

LOT L

Segment ST/K-10/SI-100

Subdivision A

5-24-90

Biologist: David Cohen

Wildlife Observations / General Comments

Present in low intertidal: Rhodomenia, Siphonaria, coralline algae, Nuella, unknown reddish-orange sponge, Scytosiphon, unknown filamentous red alga (Daysea), Laminaria, Spirorbis, yellow nudibranch (Anisodoris?), Leptasterias, Cuvieria, Onchidella, Ulva, Katharina tunicata, Pagurus, yellow sponge, Rhodometaria, Halosaccus, Epiactis, Alaria, Iridaea

mid intertidal: Siphonaria, Scytosiphon, Anthopleura, Zostera, Anelipa, Nuella, Epiactis, yellow sponge, coralline algae, sculpins, Ulva, Rhodometaria, Rhodomenia, Ralfsia, Pagurus, Gloiopeltis, Endocladia, Halosaccus, Iridaea, Porphyra, Alaria

high intertidal: Ulva

2. Pair Widgeons, several oystercatchers, and many gulls present in area

3. Algal cover in low intertidal was ~95% on boulders and 90% on bedrock. On mid-intertidal boulders it was more variable, ranging from 30-95%.

4. Ulva was quite abundant in high intertidal, reaching 50% in some areas.

5. Littorina eggs found on mid intertidal bedrock and boulders.

Recruitment and Mortality Summary

Segment ST/14 /SI-100

Subdivision A

5-24-90

Biologist: David Lohse

1. Recruitment of barnacles and ~~Alga~~ Fucus was patchy.
2. Distribution of Littorine eggs was patchy
3. Barnacle mortality in mid intertidal ranged from 15-20% on bedrock (2 sites estimated) and from 10-15% on boulders (2 sites estimated). Mortality on high intertidal bedrock was ~20% (1 site).
4. Mussel mortality was ~5% in mid intertidal pebbles (1 site).

Eulogy Mac
Resource Codes For Entire Semester

5T

S

Jack & Jane
1911

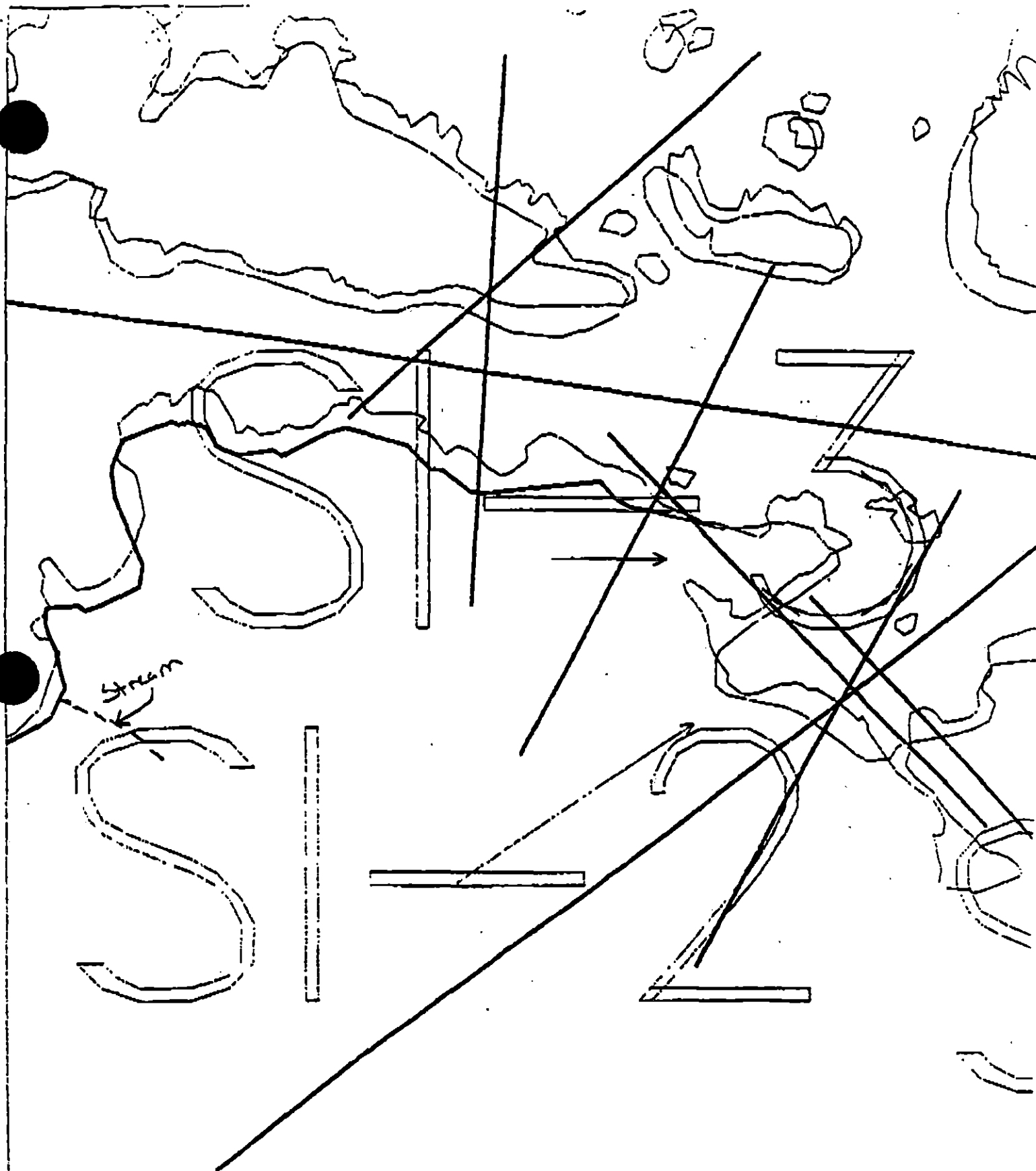
XXXX Wide
 //// Medium
 ---- Narrow

SI - 100
OLD Kolls-XXS-44

Approx. Segment Length: 2816m

Map Key: KOD-SI-100

Name: _____



XXXX Wide

//// Medium

--- Narrow

TTTT Very light

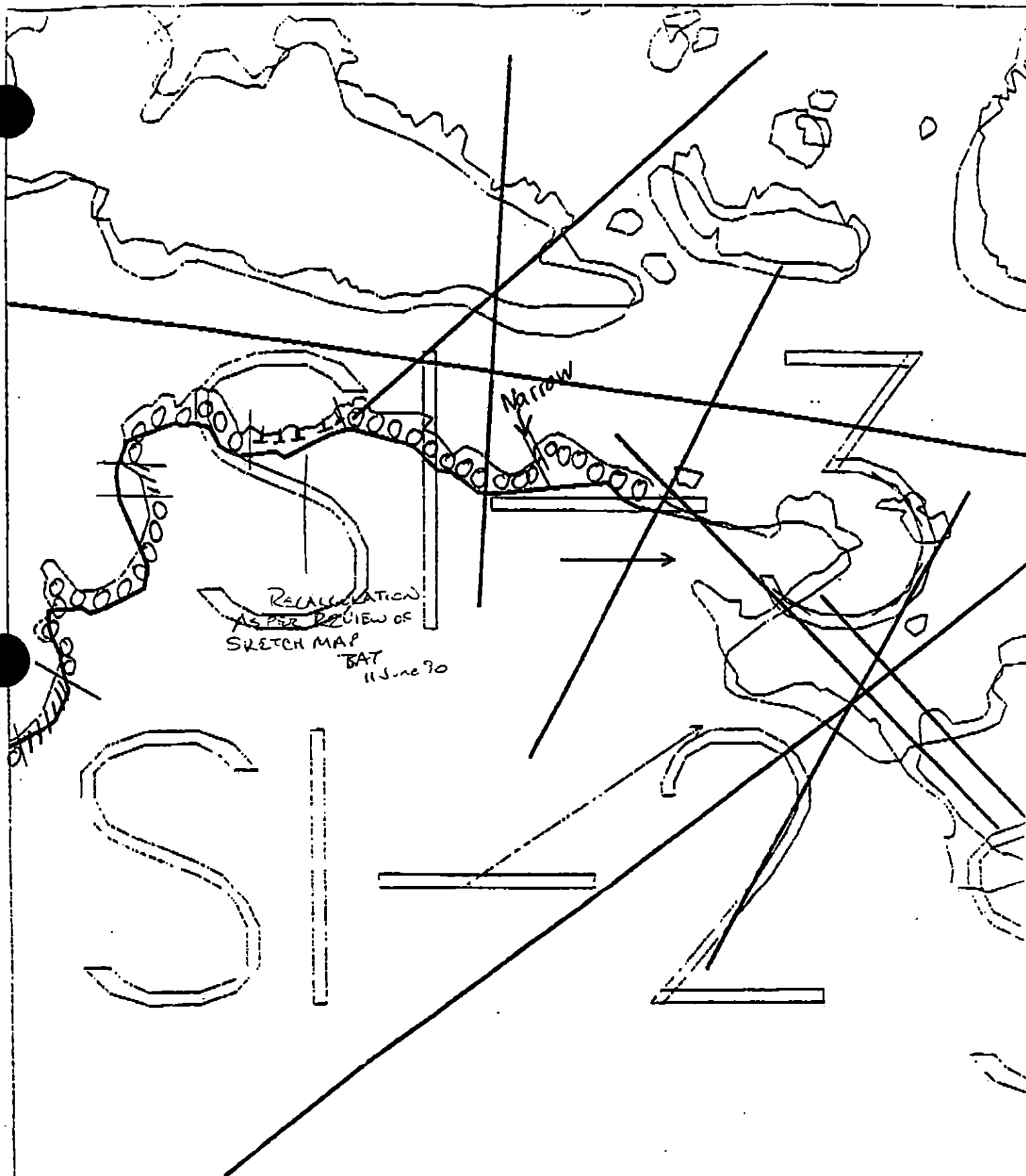
SI-100

Approx. Segment Length: 2816m

Map Key: K00-SI-10

Name: _____

Date: _____



XXXX Wide

//// Medium

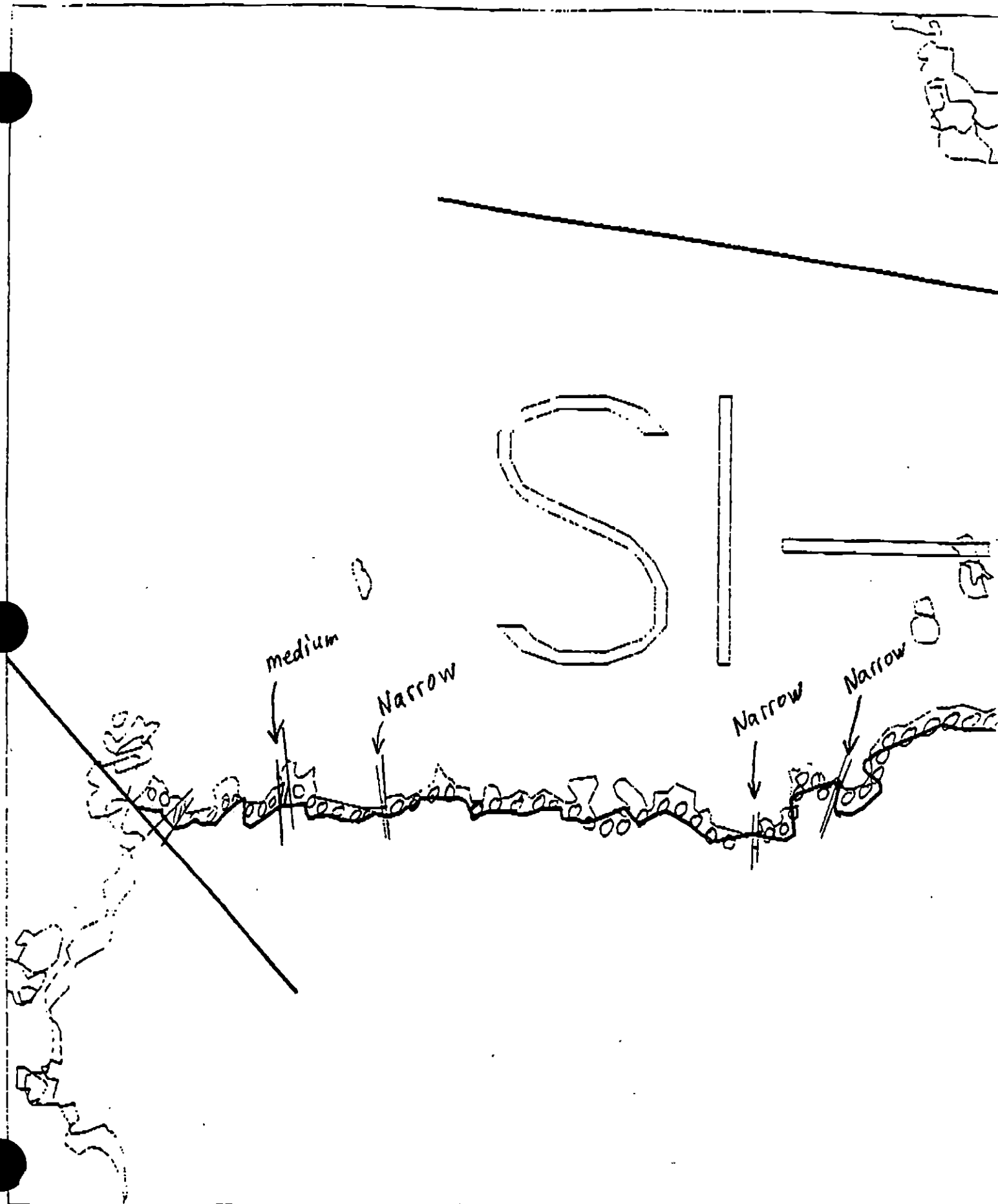
---- Narrow

kø11ø-SI-100

Approx. Segment Length: 2816m

Map Key: K00-SI-

Name: *James Spring*



XXXX Wide

//// Medium

K0110-SI-100

OLD K0111-XX500

Appendix 1: 1012 1013 1014 1015

Map Key: K00-SI-1

James Springs

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-10-SI-100 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	CLOSED

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B	Salmon Stream	Unmapped anadromous stream. No constraint to manual pickup.
5R	Seabird Colony	Closed to manual pickup less than 800m from colony. No constraint to manual pickup more than 800m from colony.
5T	Bald Eagle Nest	USFWS 4/9/90 map indicates an active nest in Subdivision A. Closed to manual pickup within 400m of active nest. No constraint to manual pickup more than 400m from active nest.

OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest and seabird colony constraints are removed, other ecological considerations will apply.

FOSC

A. Zamolferi

Date

2/2/90

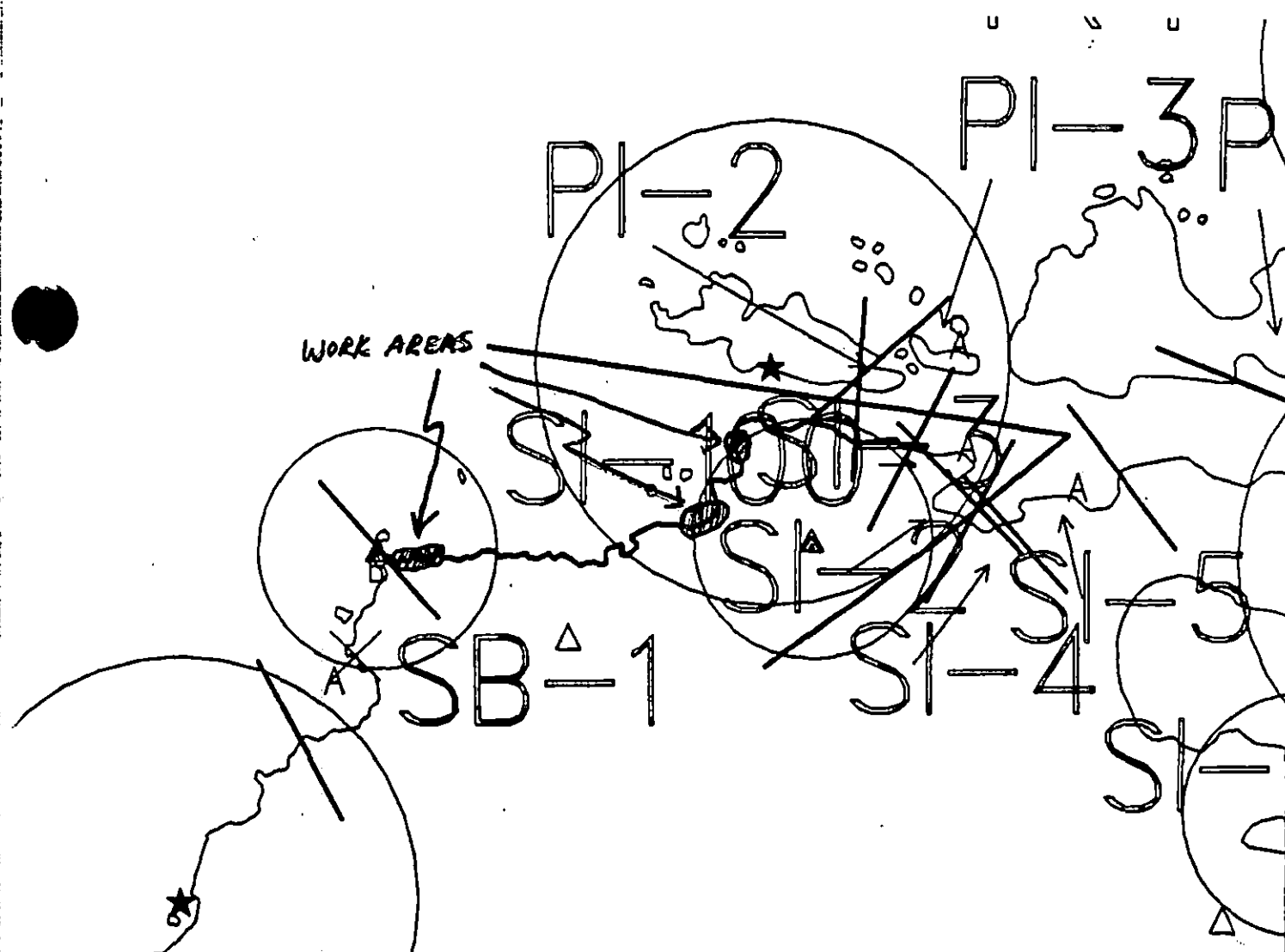
Prepared by

W. McCoy

Date

7/5/90

No anadromous stream
Shown on ADF+G maps



Exxon Company, USA
Map Key: KOD-SI-100
June 10, 1990

ECOLOGY MAP
SEGMENT KI-10 SI-100
SUBDIVISION A (1 of 1)



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

1 inch = 1858 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-10-SI-100 SUBDIVISION A (1 OF 1) DATE 5/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All Bald Eagle nests (3/1 to 6/1) in Subdivision A
Active Bald Eagle nests (3/1 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)
Not on ADF&G map - but on NOAA list (?)
4GG State Marine Park Alaska State Parks
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: 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.)).

SHPO SIGNATURE: Charles E. Holmes

DATE: June 29, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 175 m: Narrow 50 m: V.Light 111 m: No Oil 2164 m
Subsurface Oil Observed: Yes X No Maximum Depth 20+cm

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: Recommended treatment is manual removal of mousse and oiled debris as shown on attached sketch map.

SEE CONSTRAINT ADDENDUM
DATED 7-5-90. REX C.

TAG COMMENTS: _____

TAG APPROVAL DATE: 6/16/90.

ADEC Roy Munn

EXXON AMY TEAL

NOAA Joseph Talbott

USCG G.A. REITER

FOSC: D. Janowski

DATE: 6/30/90

REGION: KODIAK

SEGMENT: ⁵⁷KO1-11-PI-001

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K011-PI-001 SUBDIVISION A (1 OF 1) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

3N Harbor seal pupping (5/10) to 6/30)

30 Harbor seal molting (8/15 to 9/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to unoiled substrate and biota.

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 0 m: No Oil 657 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 oiled plastic in upland grass.
Work should be conducted between 7/2 to 8/14 based on above con-
straints.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

P1 - ~~000~~ 001-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 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 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 / KOIII / PI001 SUBDIVISION: A DATE 3-31-90

NOAA
596

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil observed. In addition to the segment beach we also surveyed two small beaches immediately adjacent to PI-1. This was done because the maps were not consistent. No oil observed on these beaches either.

ADEC
NAME

SCOTT Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil observed ~ WALKED 767 METERS. High merge beach N/West exposure. KOIII PEREVALNIE I. PI-1 HAS TWO OTHER BEACHES THAT HAVE A PEREVALNIE PASSAGE EXPOSURE. NO OIL WAS OBSERVED ON THE SMALL PEREVALNIE PASSAGE SIDE BEACH. WINTER STORMS HAVE CHANGED THE BEACHS HEAVY CONCENTRATION OF NEW BEACH DRIFT HAS BEEN DEPOSITED IN ALL BEACH LOCATIONS IN PI-01.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Light oiled plastic debris windblown into upland grasses (few pcs. fou. No oil on 767 m of beach observed.
No oil observed on Perevalnie Passage beaches.

SHORELINE OILING SUMMARY

REVISION NO. 63-22-90

OG Panland USCG Naughton SEGMENT ST/ K011/P1001
 BIO Seight LAND REP Burger ADNR SUBDIVISION A
 EXXON Oyers ADEC Shelton TIME 11:25 10/2/90
 TEAM NO.: 19 TIDE LEVEL: -1 ft to -1 ft DATE 3/31/90
 EST. SUBDIVISION LENGTH: 767 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 10 % C 50 % P 40 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 90 % Hang 10 % Vert 10 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 767 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	20	25	50	100	150	200	250	300	350	400	SU	UR	M	U
ASPHALT																
PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT: H F S NA sq. m by NA cmPATTIES / TARBALLS NA 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. NAFrames NA

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	VO	50	100	150	200	250	300	350	400	SU	UR	M	U		
1	30					X	-												X				cobble
2	30					X	-													X			cobble
3	30					X	-														X		cobble
4	30					X	-												X				cobble
5	30					X	-													X			cobble
6	30					X	-														X		cobble

COMMENTS

- no oil observed
- debris line was inspected
- cobbles were randomly overturned throughout the area, no oil observed
- several shallow pits were dug by hand, inspected and no oil was found.

18 Peeland

SKETCH MAP

EGMENT ST/ K0111/PJ001

UBDIVISION A

ATE 3 / 31 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Sub/Sup Bnery
- ☒ O: Dist.
- ☒ Wlen
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LWL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ P: Location(s)
- ☒ Profile Location(s)

LEGEND

1 Δ
No Subsurface Oil

2 Δ
Subsurface Oil

CT/C
Continuous Distribution

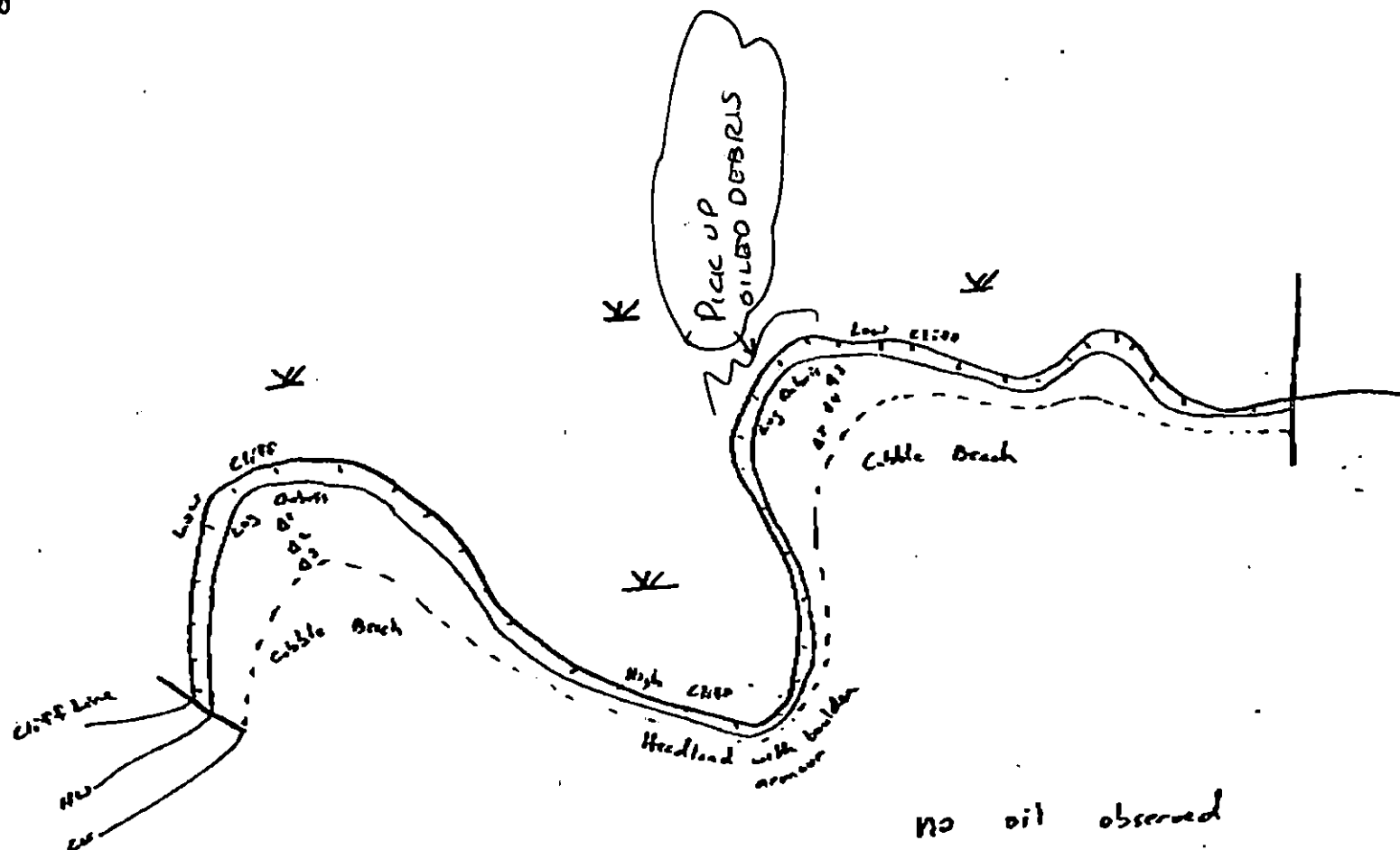
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

Med Vegetation

1 →
note location, direction,
no number



Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 767

REVISION 03/2000

Segment ST / PI1 Subdivision _____ Date (mo / day / yr) 3/31/90
Time (24 hr) 1130 Biologist SPIGHT

(A) Substrate type and % of segments:

(1) Bedrock 0 (2) Boulder 10 (3) Cobble 50 (4) Pebble 40 (5) Sand 0 (6) Silt 0

(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	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

STROPODS

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

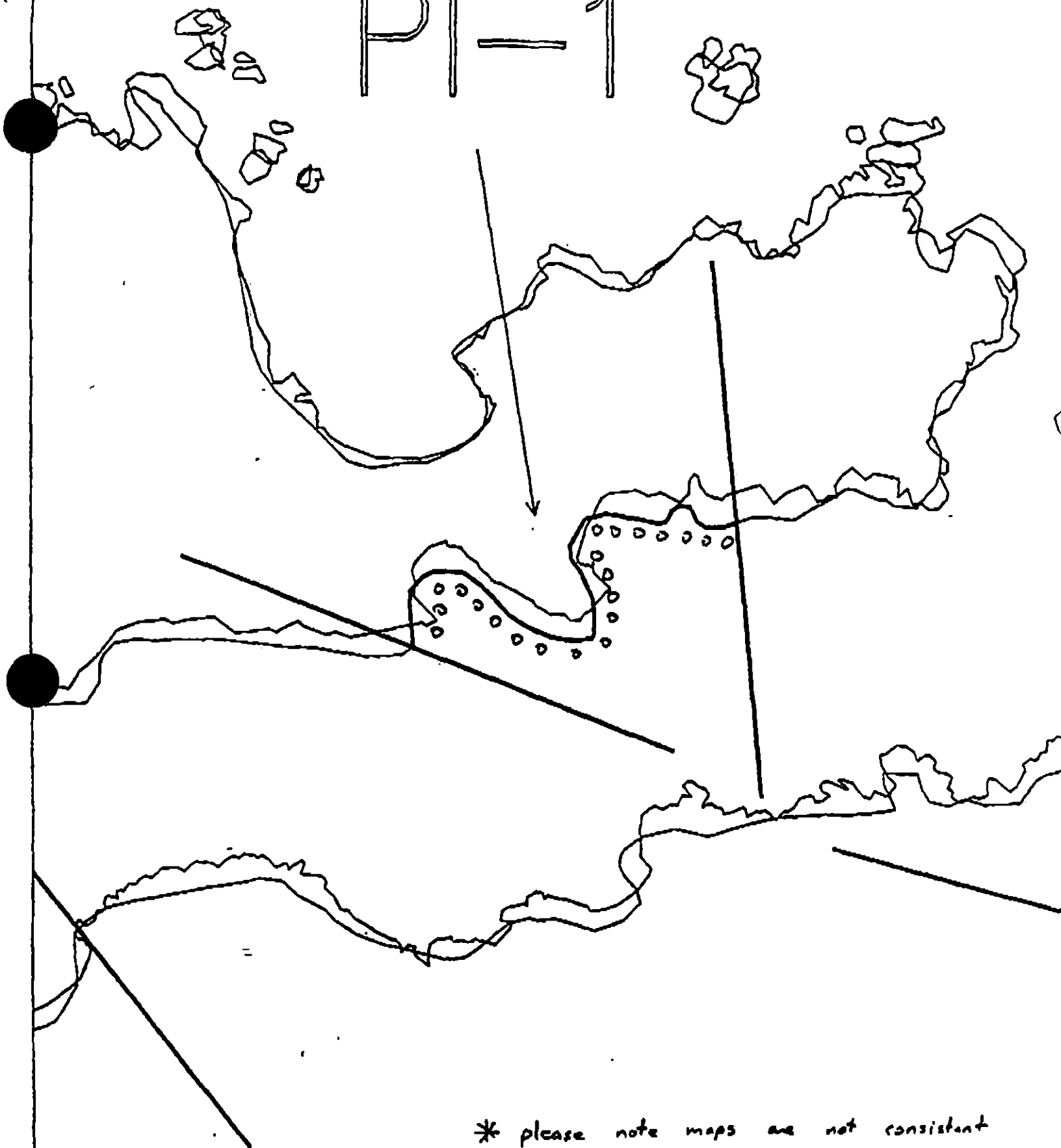
Wildlife Observations/ General Comments:

Ecological Considerations:

Headlands with dense algae, some barnacles, Fucus

3N, 30

PI-1



* please note maps are not consistent

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

PI-1

ADEC Segment Length: 766m



Map Key: GOA-16

Name: Penland

Date: 3-31-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K01-11-PI-003 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5S Shorebird/Waterfowl concentration (4/1 to 5/15)

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 Z. Hume

DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 45 m: Narrow 12 m: V.Light 0 m: No Oil 550 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>X</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 pooled oil using trowels, followed by bioremediation of pooled oil and cover areas as indicated on attached sketch map. Treatment activities should be conducted after 5/15 based on above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.

ADEC JOHN BAUER

EXXON ANDY TATZ

NOAA Bud Waroff

USCG 2. A. D. - 2 A. 1

FOSC: My L

DATE: 5-1-90

OG Pen

SEGMENT ST/ K011/P1003

SUBDIVISION

DATE 3 / 31 90

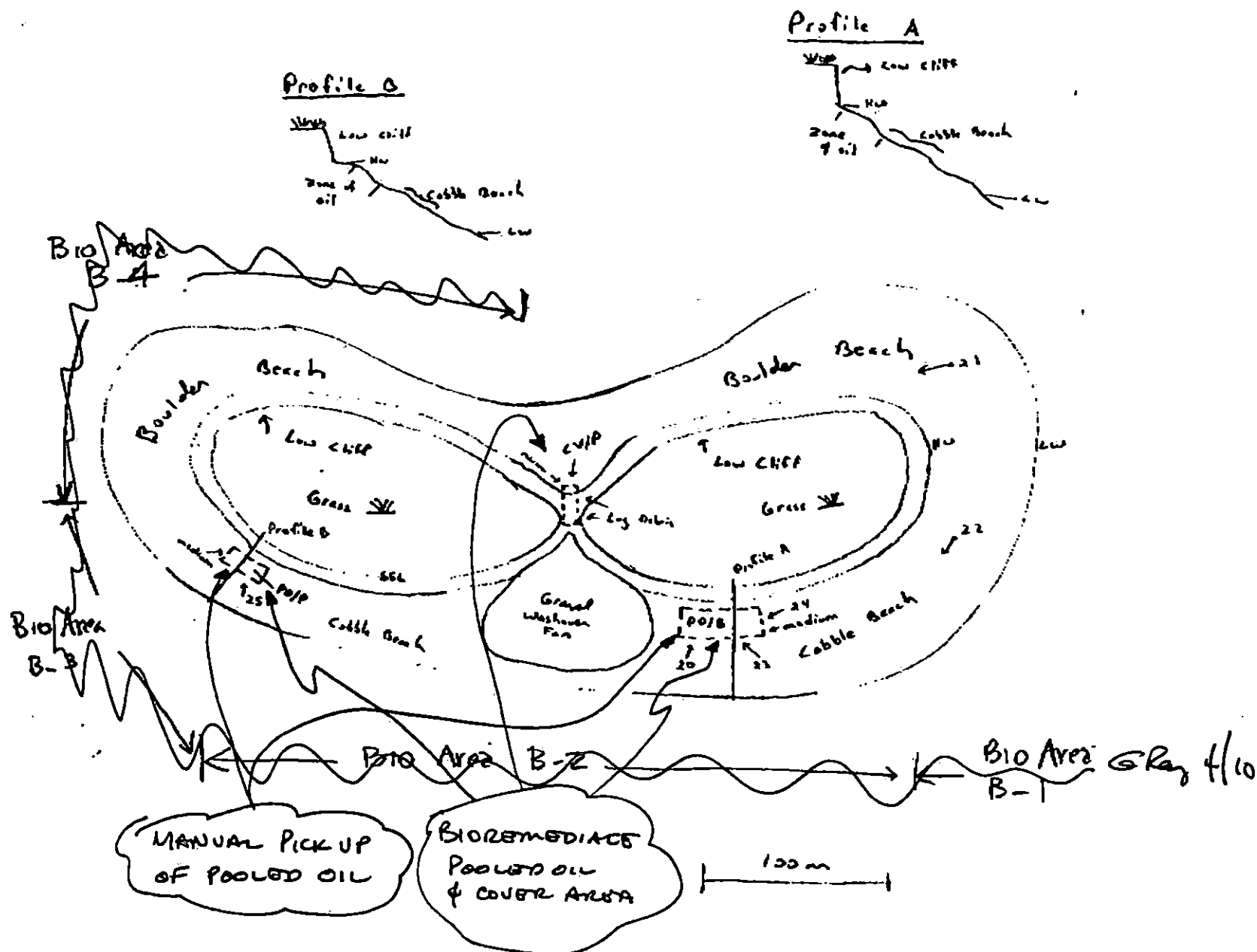
CHECKLIST

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

LEGEND

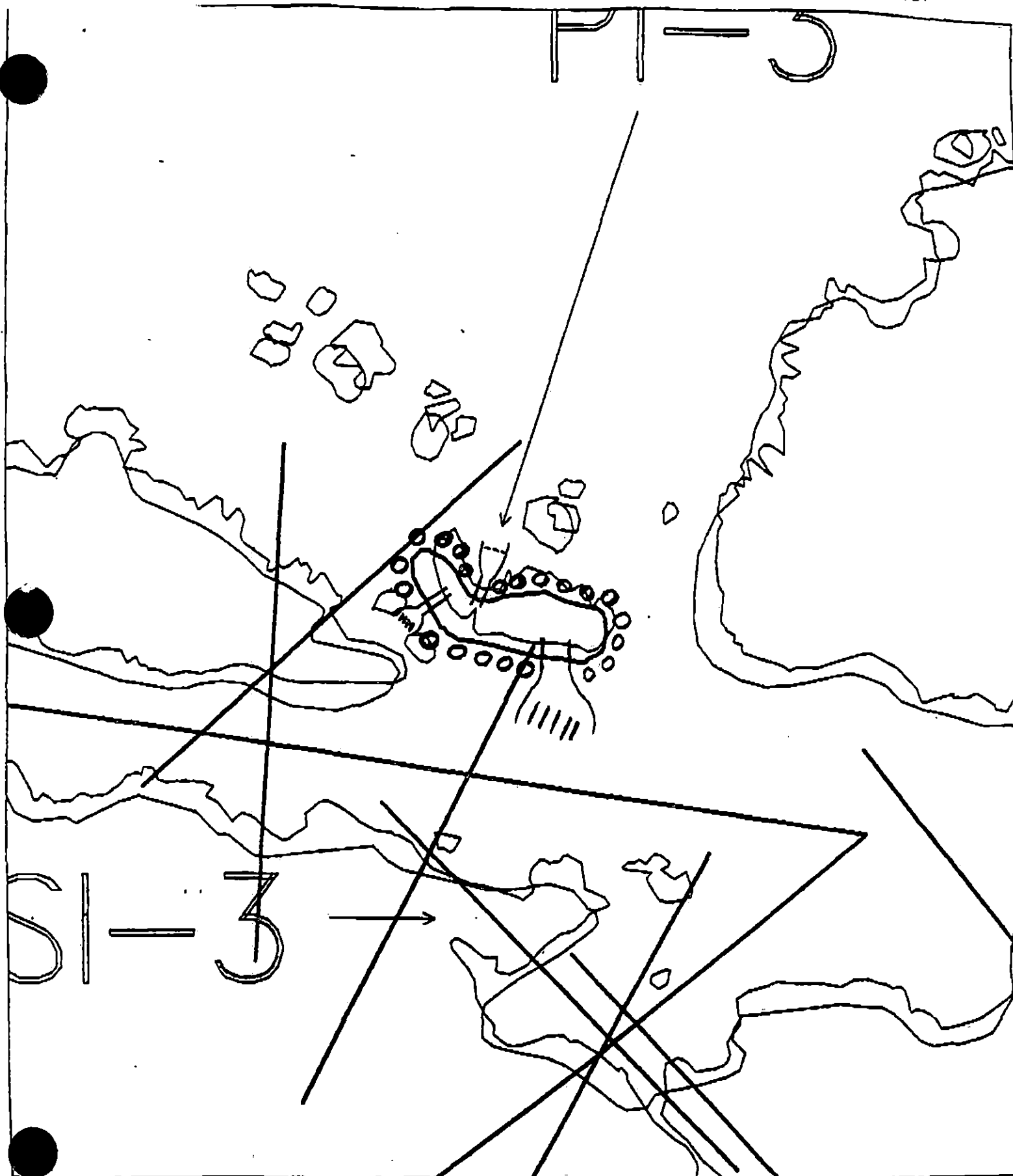
- 1 Δ
- P/L - No Subsurface Oil
- 2 Δ
- P/L - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Splashed Distribution
- Oil on Vegetation
- 1 →
- Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 58 CV 10 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 635

REVISION 230899



XXXX Wide
 /// Medium
 --- Narrow

PI-3

ADEC Segment Length: 693m

Map Key: GOA-18

Name: PENLAND

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-11-PI-003 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

5S	Shorebird/Waterfowl Concentration	No constraint to manual pickup and bioremediation.
5R	Seabird Colony	No constraint to manual pickup and bioremediation, but follow established USFWS transit route through seabird colony buffer zone as described on attached map.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict all activity to essential minimum, especially air traffic. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

FOSC

[Signature]

Date

6/16/90

Prepared by

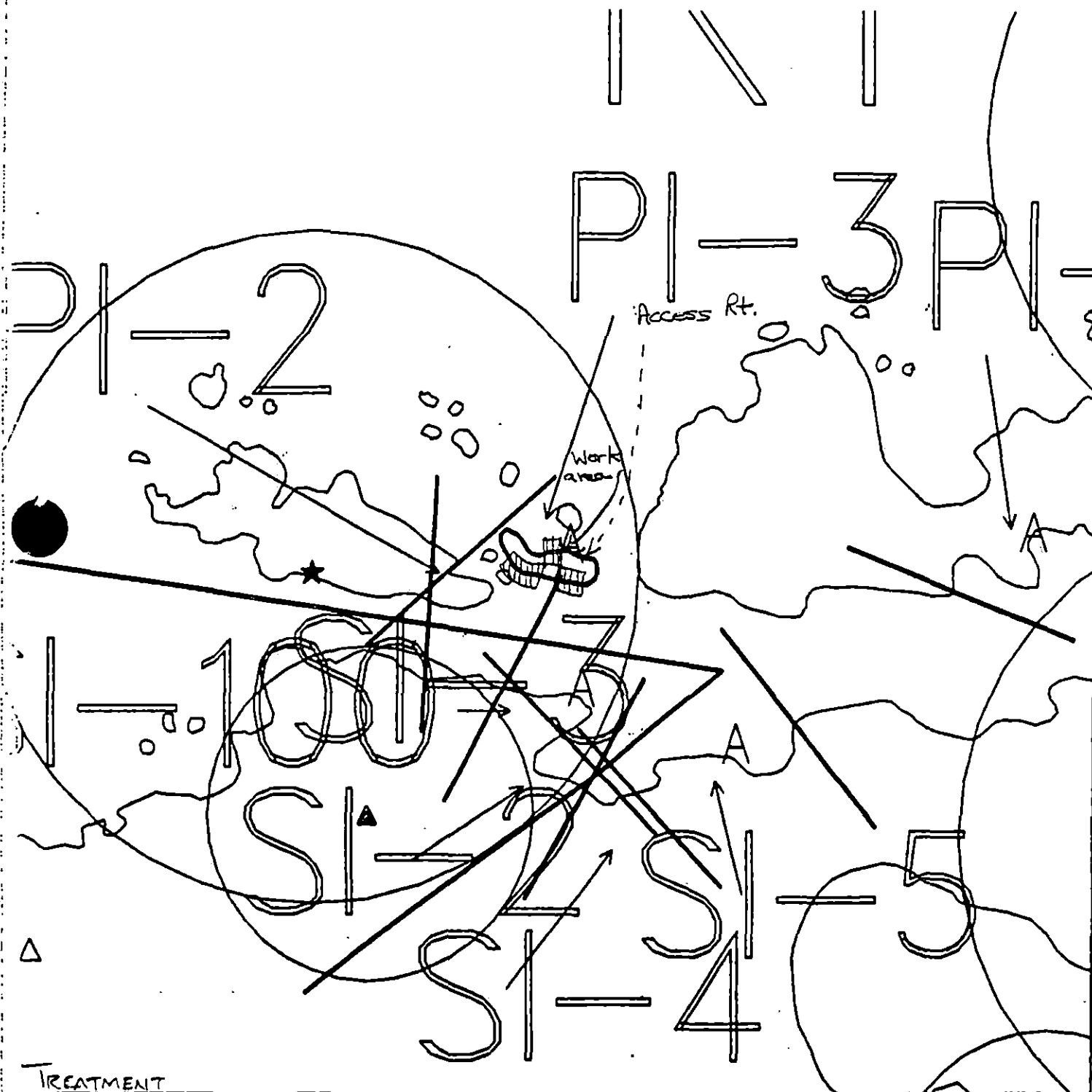
Ray P. Coulter

Date

06-14-90

1. Access route provided for a work crew of 20 members.
2. A Fish + Wildlife Monitor should be present during work period.
(1 day notice for the monitor)

Mike Luke 6/13/90



Exxon Company, USA
Map Key: KOD-PI-3
June 10, 1990

ECOLOGY MAP
SEGMENT K1-11 PI-3
SUBDIVISION A (1 of 1)
METERS
0 340 682

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

1 inch = 1134 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-11-PI-003 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5S Shorebird/Waterfowl concentration (4/1 to 5/15)

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 Z. Hume

DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 45 m: Narrow 12 m: V. Light 0 m: No Oil 550 m
Subsurface Oil Observed: Yes No X Maximum Depth

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: Recommend manual pick up of pooled oil using trowels, followed by bioremediation of pooled oil and cover areas as indicated on attached sketch map. Treatment activities should be conducted after 5/15 based on above constraints.

SEE CONSTRAINT ADDENDUM DATED 6/14/90

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC JOHN BAUER

EXXON ANDY GALT

NOAA Bud Wacott

FOSC: My L

DATE: 5-1-90

REGION: KODIAK

SEGMENT: K01-11-PI-03

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K01-11-PI-003 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5S Shorebird/Waterfowl concentration (4/1 to 5/15)

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 45 m: Narrow 12 m: V.Light 0 m: No Oil 550 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 pooled oil using trowels, followed by bioremediation of pooled oil and cover areas as indicated on attached sketch map. Treatment activities should be conducted after 5/15 based on above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0111 / P1003 SUBDIVISION: A DATE 3-30-90

NOAA

USCG

NAME John Naughton SIGNATURE John J. Naughton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Suggest picking up of oil at two pooled oil sites in this segment. Cobble should be moved in these areas to determine extent of pooled oil and this oil then removed.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

K0111/P1003 Still has a CLEANABLE band on the S/E side of the island/shelving can be observed in this area. CLEANABLE pools of weathered oil / broken distribution observed in the upper tidal zone north of the washover fan. S/W side of K0111/P1003 has a medium band of CLEANABLE oil rather patchy pooled and sporadic. Impact in Median location is in the upper to mid tidal zones.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

- Two pooled oil areas on south side of island to be cleaned.
- Main breach in upland bedrock, mid-island has patchy pooled oil
- Also a cleft in bedrock on north side (west of above breach) has patchy pooled oil
- Subsurface unassessed due to lack of tools

SHORELINE OILING SUMMARY

REVISION NO. 03-12-90

OG Penland NOAA USCG Naughton SEGMENT ST/ Ko111 / P1003
 BIO Spight LAND REP Bryan SUBDIVISION A
 EXXON Cyess ADEC Shelton ADNR ADNR TIME 12:12 10:11 12:12
 TEAM NO.: 19 TIDE LEVEL: -1.75 M 10 - 1.4 DATE 3 / 31 / 90
 EST. SUBDIVISION LENGTH: 50 m 693 ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 0 % B 0 % C 80 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 80 % Hang 10 % Vert 10 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 58 m N 10 m VL 0 m NO 635 m
625

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	N	1	2	3	4	5	6	7	8	SU	U	M	V
ASPHALT PAVEMENT																
POOLED		X												X		
COVER		✓												✓		
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X		X	X

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE NA#BAGS NA

Photographs:

Roll No. 19-2Frames 20-25

SUBSURFACE OIL

No pits dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-GM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UO	1	2	3	4	5	6	7	8	SU	U	M	V		
0																							

COMMENTS

- The band of medium oil category is 2-7m wide and 50m in length.
- Silver sheen can be seen in the area oiled.
- No subsurface penetrating oil occurs in the pool character type under cobbles as a broken distribution within the surface layer. A random distribution of pits were dug and a number of boulders and cobbles were overturned in order to inspect for oil. None was observed.

REVIEWED BAT DATE 9 Apr 90

OG Area

SEGMENT ST/ K0111 / P1003

↑ N

SURFACE MAP

SUBDIVISION _____

DATE 3 / 31 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)
- ☒ P4 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

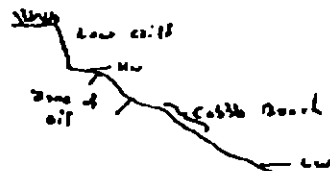
Splashed Distribution

Oiled Vegetation

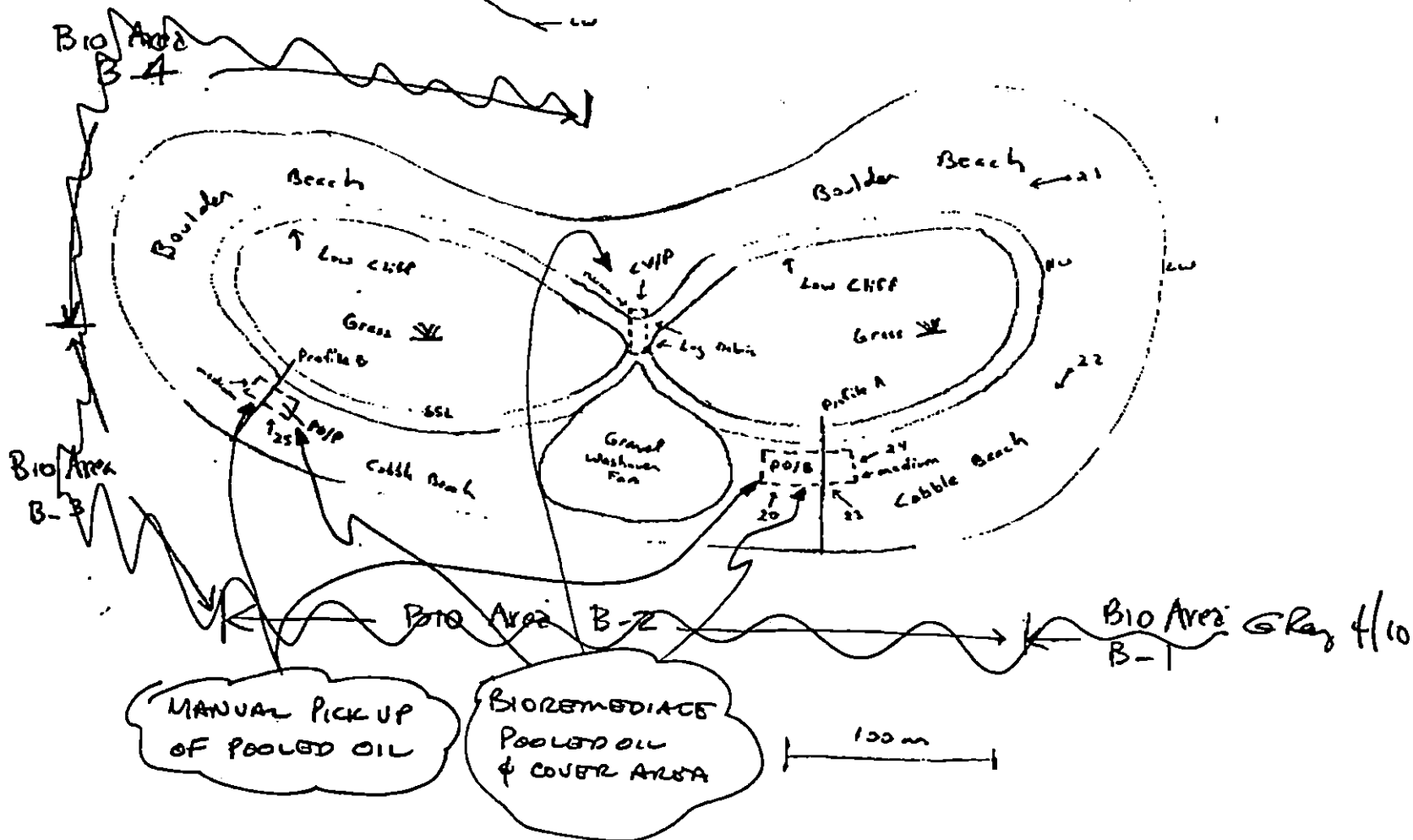
1 →

Photo location, direction, and number

Profile B



Profile A



Oil Character Length (m): AP 0 PO 58 CV 10 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 635

REVISION: 03/04/90

SHORELINE ECOLOGICAL SUMMARY

Segment ST/ PI-3 Subdivision Bio Area B-1 Date (mo / day / yr) 3/31/90
 Time (24 hr) 10²⁰ Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 55 (2) Boulder 15 (3) Cobble 30 (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 10 Moderate 20 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.

Frames

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
X 2	X 2	2	2	2	X 2	2	2	2	2	2	2
3	3	3	3	X 3	X 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	X 2	X 2	2
3	3	3	3	3	3	3	3	3	3	X 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	X 2	2	X 2	2	X 2	2	2	2	2	2	2
3	3	3	3	3	X 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	X 2	2	2	2	2	2	2	X 2	X 2	2	2
3	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

Wildlife Observations/ General Comments:

Ecological Considerations:

low level algal cover, some barnacles; some of algae is Fucus

SHORELINE ECOLOGICAL SUMMARY

Segment ST / PI-3 Subdivision BioArea B-2 Date (mo / day / yr) 3/31/90(24 hr) 10:40 Biologist SPIGHT(A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder (3) Cobble 70 (4) Pebble 20 (5) Sand (6) Silt (B) Overall % cover of biota (% of segment): Dense Moderate 60 Low 40

(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
X 2	2	2	2	2	2	2	2	2	2	2	2
X 3	X 3	X 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	X 2	2	2	2	2	2
3	3	3	3	3	3	X 3	X 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
X 2	2	2	2	2	2	2	2	2	2	2	2
X 3	X 3	X 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	X 2	2	2	2	2	2
3	3	3	3	3	3	X 3	X 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

Wildlife Observations/ General Comments:

Ecological Considerations:

Small cobble with dense *Balanus glandula* thruout Tidal zone
 Cobbles have some *Fucus*, limpets, often dense *Littorina*
B. canosus comes in on larger cobbles. This is a backwater/lagoon
 type of fauna.

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/28/90

Segment ST/ PI-3 Subdivision Bio Area B-3 Date (mo / day / yr) 3 / 31 / 90Time (24 hr) _____ 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 40 Moderate 20 Low 40
- (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:

Larger cobble with *B. cariosus* in this area

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/23/90

Segment ST/ PI-3 Subdivision Bio Area B.4 Date (mo / day / yr) 3/31/90Time (24 hr) 11:00 Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 30 (2) Boulder 30 (3) Cobble 30 (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 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 (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	X	2	2	2	2	2	2
3	3	3	3	3	X	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	X
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

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	X	2	2	2	2	2	2	2	2	2
3	3	X	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	X	2	2	2	2	2	2	2	2	2
3	3	X	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:

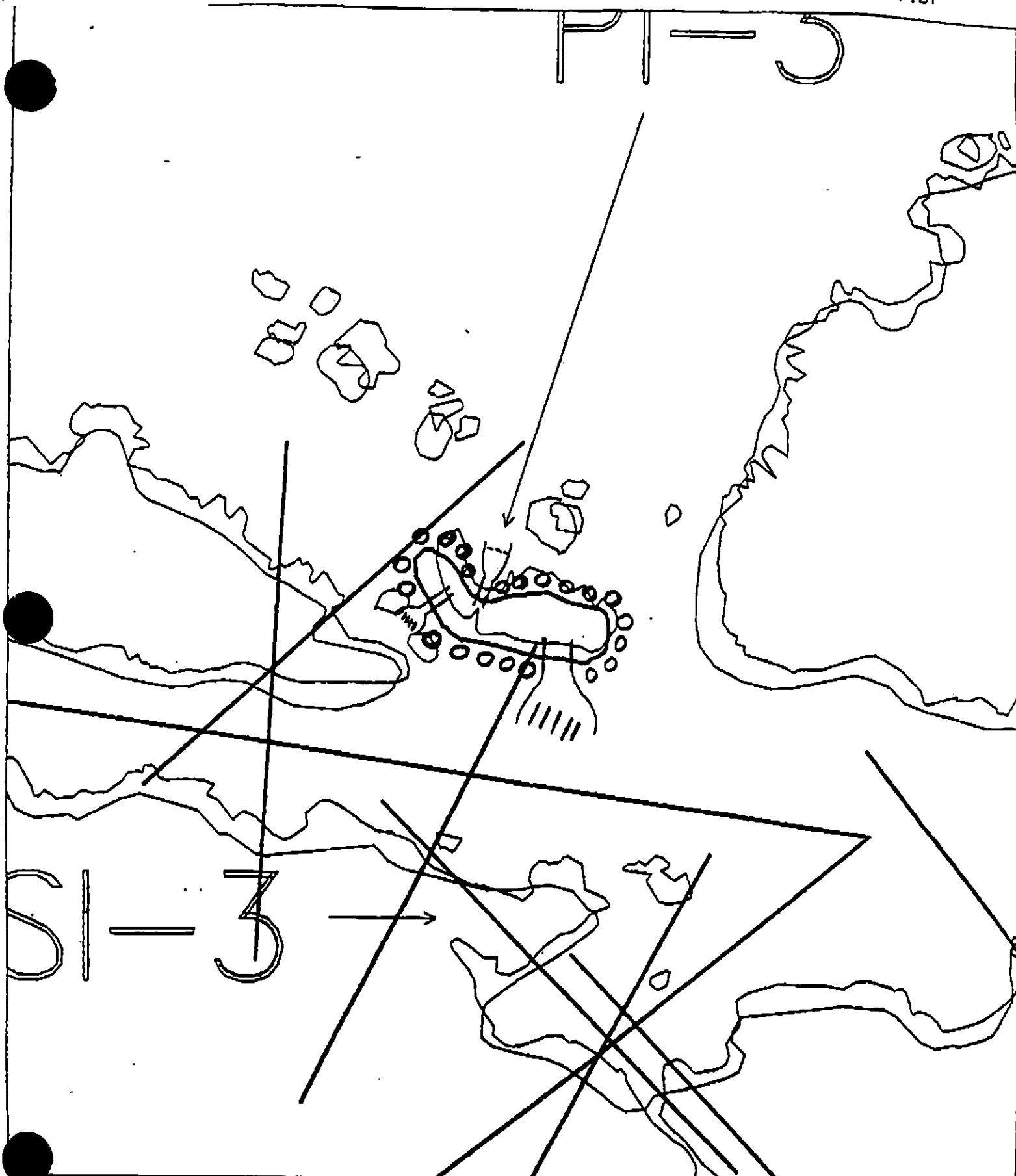
Ecological Considerations:

Dense low level algal population

KODIAK ECOLOGICAL CONSTRAINTS

P1-003-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 unloiled 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.



1991 MAYSAP EVALUATION

SEGMENT: K01118I004 SUB: M REGION: KOD SURVEY DATE: 5/11/91

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.

TEAM NO. G-Helo

SEGMENT

K-1-11
SI-4

SUBDIVISION

AMDATE 11 May 1991

ADEC

NAME J. BARNHART

SIGNATURE

Jeff Barnhart

- ☒ NTR Low energy beach. Two oiled areas (1) Trace amount TB 30m x 2m near bank of small stream. Removed by veco crew. (2) 20m x 2m Trace TB, CT. O.I broken up. Small quantity removed.

EXXON

NAME R. Coulter

SIGNATURE

Ren R. Coulter

- ☒ NTR

ALL AREAS OF SOR WERE REMOVED AND/OR BROKEN UP WITH A SHOVEL. NO OTHER ASSESSMENT NEEDED AT THIS SITE.

LANDMANAGER

NAME K. MURPHYOF ADNR

SIGNATURE

Kerri Murphy

- ☒ NTR This area, managed by ADNR, lies just outside Shuyak Island State Park and may be added to State Park lands in the future. The area is scenic, recreational and wildlife values. Light oiling was observed in stream leading into a tidal lagoon. Some splatter and coat observed on tidal rocks. Veco crews initiated and broke up several small patches.

USCG/NOAA

NAME Chief JENSEN / G. SHIGENAKA

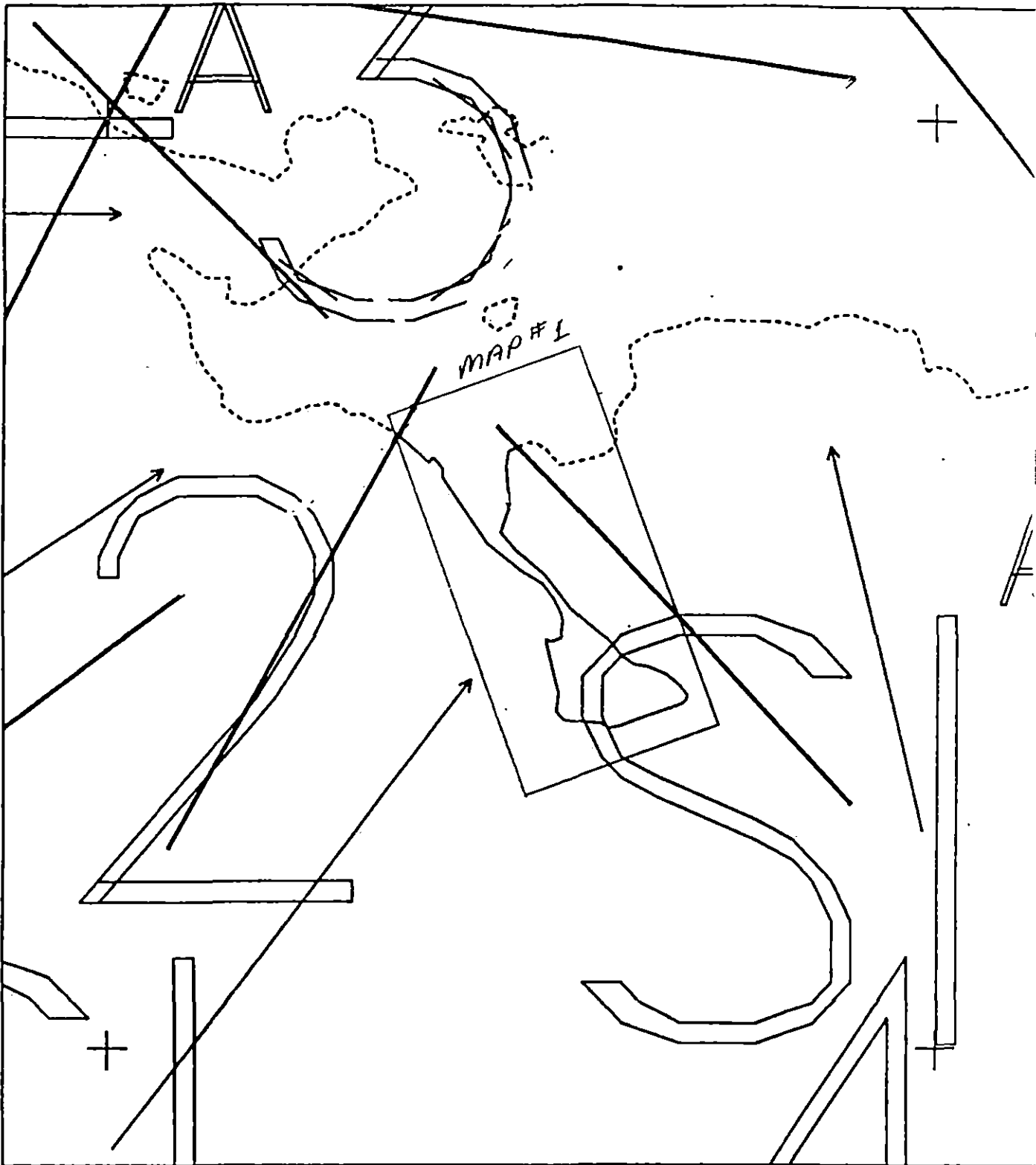
SIGNATURE

Chief Jensen / G. Shigenaka

- ☒ NTR 1/4 sack of mousse removed from this segment. Further removal operations would cause more environmental harm than the oil to be removed.

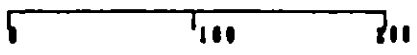
SEGMENT INCLUDED A TIDALLY-INFLUENCED LAKE AND STREAM AND WAS GENERALLY CHARACTERIZED BY ROCKY SUBSTRATE, BOULDER AND BEDROCK. GOOD FULWAS COVER OVER MUCH OF THE MID- TO LOWER INTERTIDAL. WEATHERED MOUSSE WAS OBSERVED IN A FEW LOCATIONS ALONG THE SEGMENT, AND WAS RECOVERED OR BROKEN UP AS PRACTICABLE. LITTLE, IF ANY, RECOVERABLE OIL RESIDUES REMAIN IN THIS SEGMENT.

reviewed 5.15.91 7-1



K0111 S1004 A M

METERS



AS State Plane Zone 4,
Datum 1983

Subdivision Field Map

Map Key: 00A0011000A

Name: D. Fitzgerald

Date: 11 May 1991

-  Evergreens
-  Grassy Area
-  Low bedrock cliff/slope
-  Photo sites

Sketch MAP (OG)
 SI^{K-1-11}-4-A M
 D. Fitzgerald
 11 MAY 1991
 16:40 - 1700

* ALL SOR/TB WAS
 Picked up or broken
 up as necessary by
 VECO workers:
 1/4 BAG

B. SOR/TB
 CT/ST
 2 by 20m, < 190
 oil on and between
 clast, stains on
 Bed rock

SI-5

muddy
 tidal
 flat

BR-BC

LAGOON
 (DRY AT LOW-TIDE)

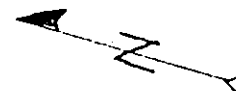
Tidal Flat
 Region

OPEN
 WATER

Pebble-Cobble
 Boundary

A. SOR/TB
 2 by 30m, < 190
 at MITZ

0 25
 METERS



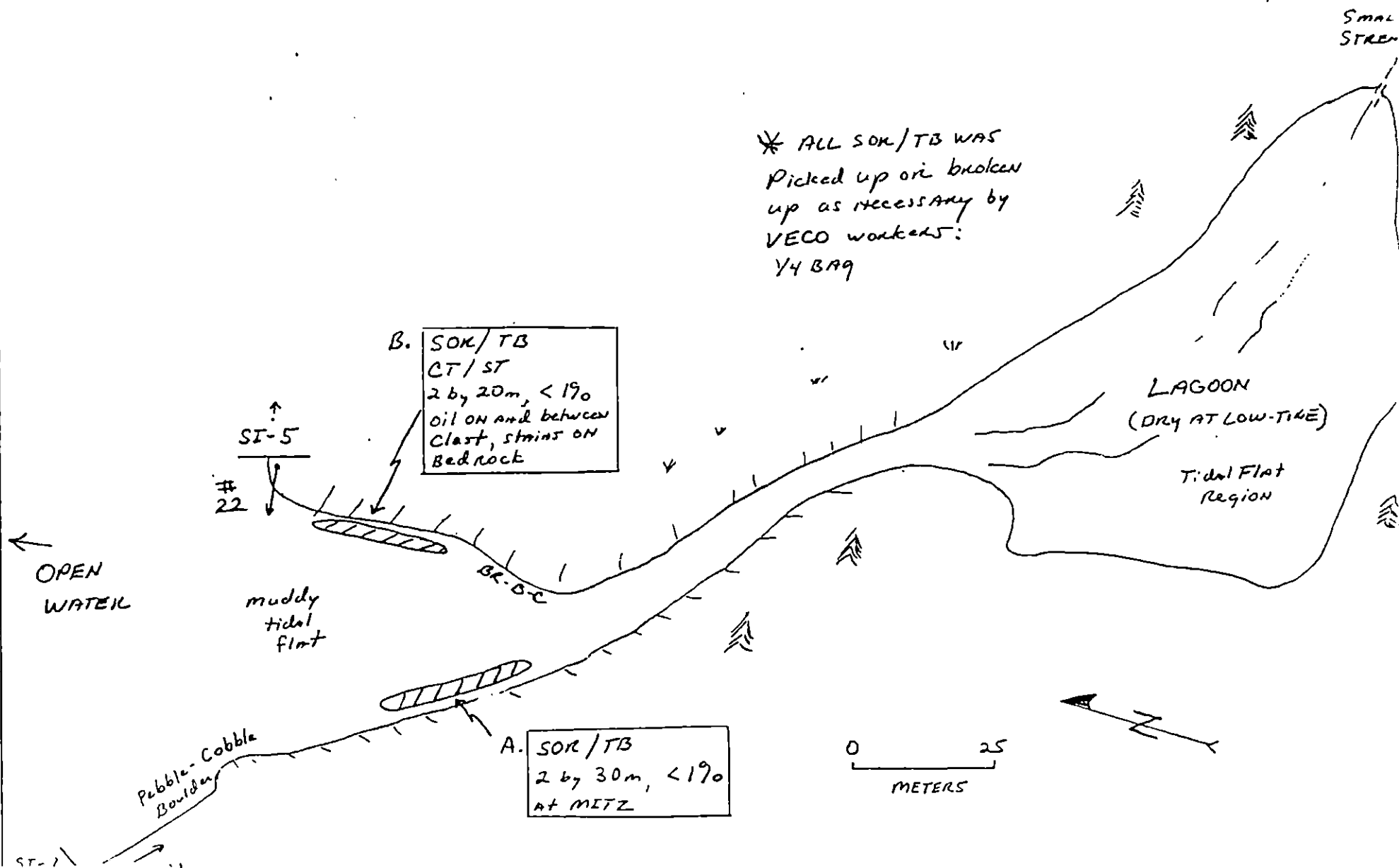
revised 5.15.914

- Evergreens
- Grassy Area
- Low bedrock cliff/slope
- Photo sites

PHOTO SITES, SI-4A
ROLL 6-11, FRAMES 21 & 22

Sketch MAP (OG)
SI-4-AM
D. Fitzgerald
11 MAY 1991
16:40 - 1700

* ALL SOR/TB WAS
Picked up or broken
up as necessary by
VECO workers:
Y4 BA9



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 11 1991

SEGMENT # SI-04 K-1-11

TIDAL HEIGHT (Range) 5ft - 4ft (16:40-17:00)

SUBDIVISION A M

BIOLOGIST H. Davis

SEA STATE 1-2 ft

WIND SPEED/DIRECTION 5 mph SE

PHOTOGRAPHS: ROLL # G-11

FRAME #

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

The lagoon area is ringed by a sparse area of barnacles, littorina and limpets. Algal drift is scattered throughout the area. In the middle of the lagoon is a peaty area with enteromorpha and detrital mats.

A+B Sites A+B are outside the lagoon on a bedrock/cobble/boulder area of low energy. In the MITZ there is a dense band of Fucus below the start of the SOR/TB. Patchy Fucus, barnacles and littorina are almost 100% of the biota in this area. In crevices there are a few mytilus + limpets. The CT/ST at Site B is in the MITZ. Barnacles and littorina were the most common organisms here. In some places the CT/ST was up near the verrucaria band. One area of verrucaria had an oil "shadow" where the oil had worn away leaving a negative spot colonized by filamentous greens.

Clean up in this area would be more disruptive than productive.

There is a scallop colony on a island to the NW of this site.

Maggies

Mallards (4) Pintails (5) Harlequin (2) Unknown duck (2) Kittiwakes (>10) Redbreasted Phalarope

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	4	13	
Gulls/Kittiwakes	1	>10	
Shorebirds	1	8	
Corvids	0		
Other Birds magpies	1	2	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Deer + Deer tracks	1
Pinnipeds (specify)	0		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

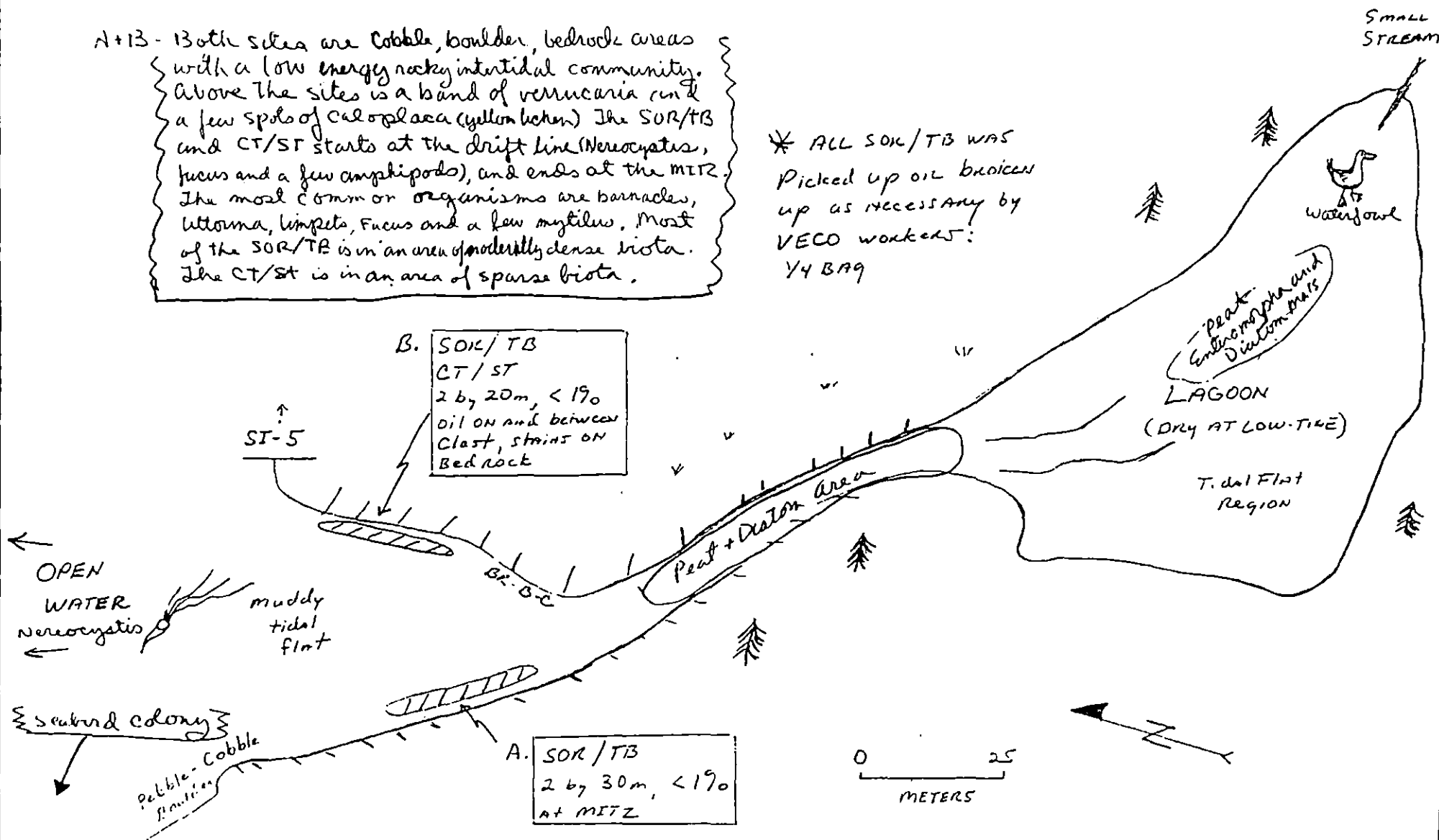
- ▲ EVERGREENS
- W Grassy Area
- /// Low bedrock diff/slope
- ↗ Photo sites

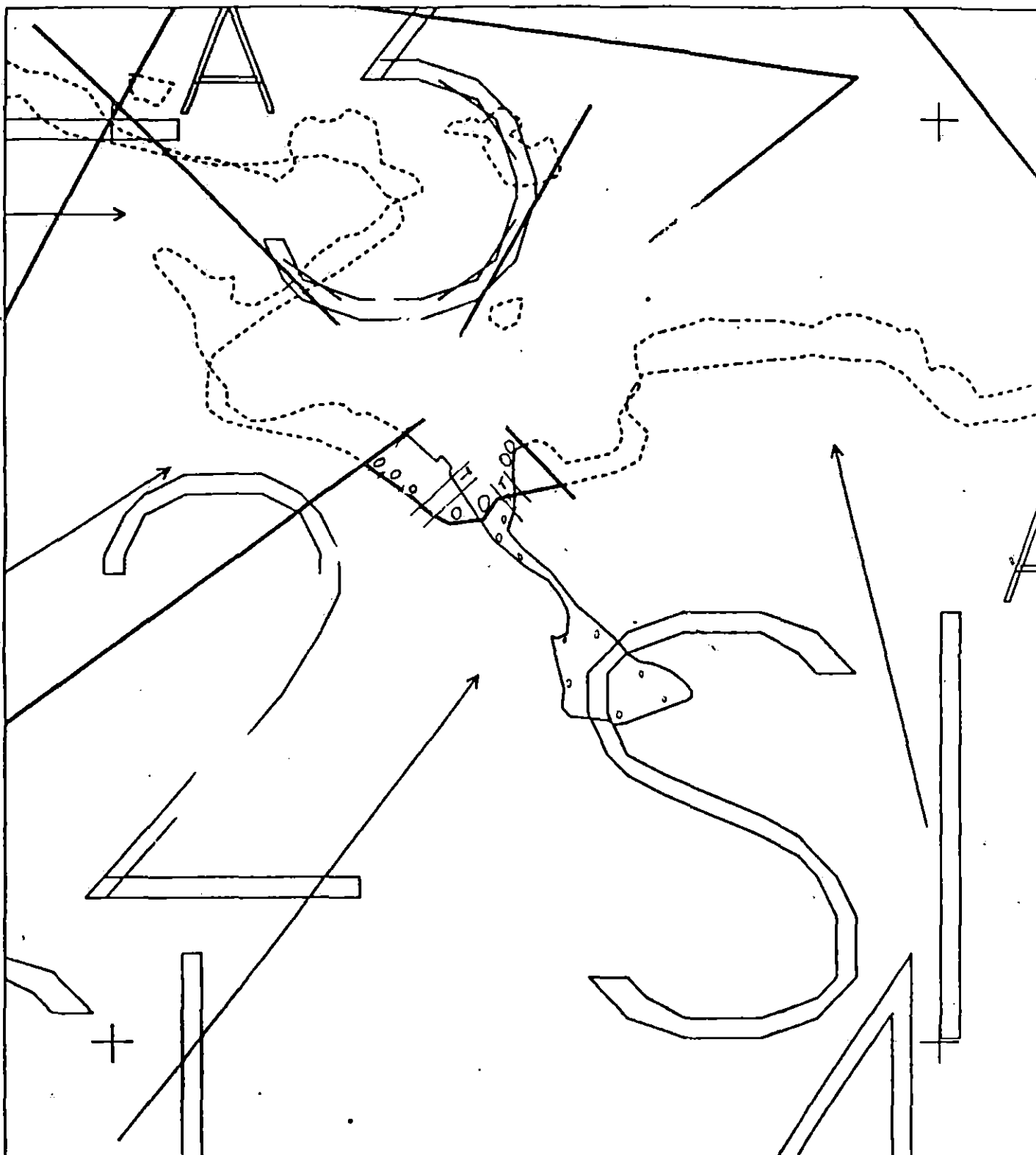
Bio map
H. Davis

Sketch Map
K-1-11
SI-4-AM
~~A-F-1-6-1-1~~
11 MAY 1991
16:40 - 1700

A+B - Both sites are Cobble, boulder, bedrock areas with a low energy rocky intertidal community. Above the sites is a band of verrucaria and a few spols of Caloplaca (yellow brown). The SOR/TB and CT/ST starts at the drift line (Nereocystes, fucus and a few amphipods), and ends at the MTR. The most common organisms are barnacles, Littorina, limpets, Fucus and a few mytilus. Most of the SOR/TB is in an area of moderately dense biota. The CT/ST is in an area of sparse biota.

* ALL SOR/TB WAS
Picked up oil broken
up as necessary by
VECO workers:
Y4 BA9





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

K0111 S1004 A M
 ADEC Subsegment Length: 184m
 METERS

0 100 200
 AK State Plane Zone 4
 9011110040-1



Subdivision Field Map

Map Key: 60AK0111S1004A

Name: D. F. Fitzgerald

Date: 11 May 1991

Date Entered:

reviewed 5-15-91 JY
 ET raised 5/15

1991 MAYSAP EVALUATION

SEGMENT: K0111SI004 SUB: M REGION: KOD SURVEY DATE: 5/11/91

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: Rachel Jean Davis

Date: 5/24/91

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: MAY 24 1991

FOSC APPROVAL DATE: 5/29/91

ADEC

FOSC

EXXON

E. E. PAGE, CDR, 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.

MATSAF FIELD SHORELINE COMMENT SHEET

TEAM NO. G-Helo SEGMENT K-1-11 SI-4 SUBDIVISION AM DATE 11 May 191

ADEC

NAME J. BARNHART SIGNATURE Jeff Barnhart

- ☒ NTR Low energy beach. Two oiled areas (1) Trace amount TB 30m x 2m near bank of small stream. Removed by veco crew. (2) 20m x 2m Trace TB, CT. 0.1 broken up. Small quantity removed.

EXXON

NAME R. Coulter SIGNATURE Rev R. Coulter

☒ NTR

ALL AREAS OF SOR WERE REMOVED AND/OR BROKEN UP WITH A SHOVEL. NO OTHER ASSESSMENT NEEDED AT THIS SITE.

LANDMANAGER

NAME K. Murphy OF ADNR SIGNATURE Karin Murphy

- ☒ NTR This area, managed by ADNR, lies just outside Shuyak Island State Park and may be added to State Park lands in the future. The area has high scenic, recreational and wildlife values. Light oiling was observed in stream leading into a tidal lagoon. Some splatter and coat observed on upper tidal rocks. Veco crews removed and broke up several small portions.

USCG/NOAA

NAME Chief Jensen / G. SHIGENAKA SIGNATURE Chief Jensen / G. Shigenaka

- ☒ NTR 1/4 sack of mousse removed from this segment. Further removal operations would cause more environmental harm than the oil to be removed.

SEGMENT INCLUDED A TIDALLY-INFLUENCED LAKE AND STREAM AND WAS GENERALLY CHARACTERIZED BY ROCKY SUBSTRATE, BOULDER AND BEDROCK. GOOD FULUS COVER OVER MUCH OF THE MID- TO LOWER INTERTIDAL. WEATHERED MOUSSE WAS OBSERVED IN A FEW LOCATIONS ALONG THE SEGMENT, AND WAS RECOVERED OR BROKEN UP AS PRACTICABLE. LITTLE, IF ANY, RECOVERABLE OIL RESIDUES REMAIN IN THIS SEGMENT.

PAGE 1 OF 1

SEGMENT K-1-11
SI-4

SUBDIVISION AM

DATE 11 May 1991

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 50 m NO 114 m US — m

DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

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

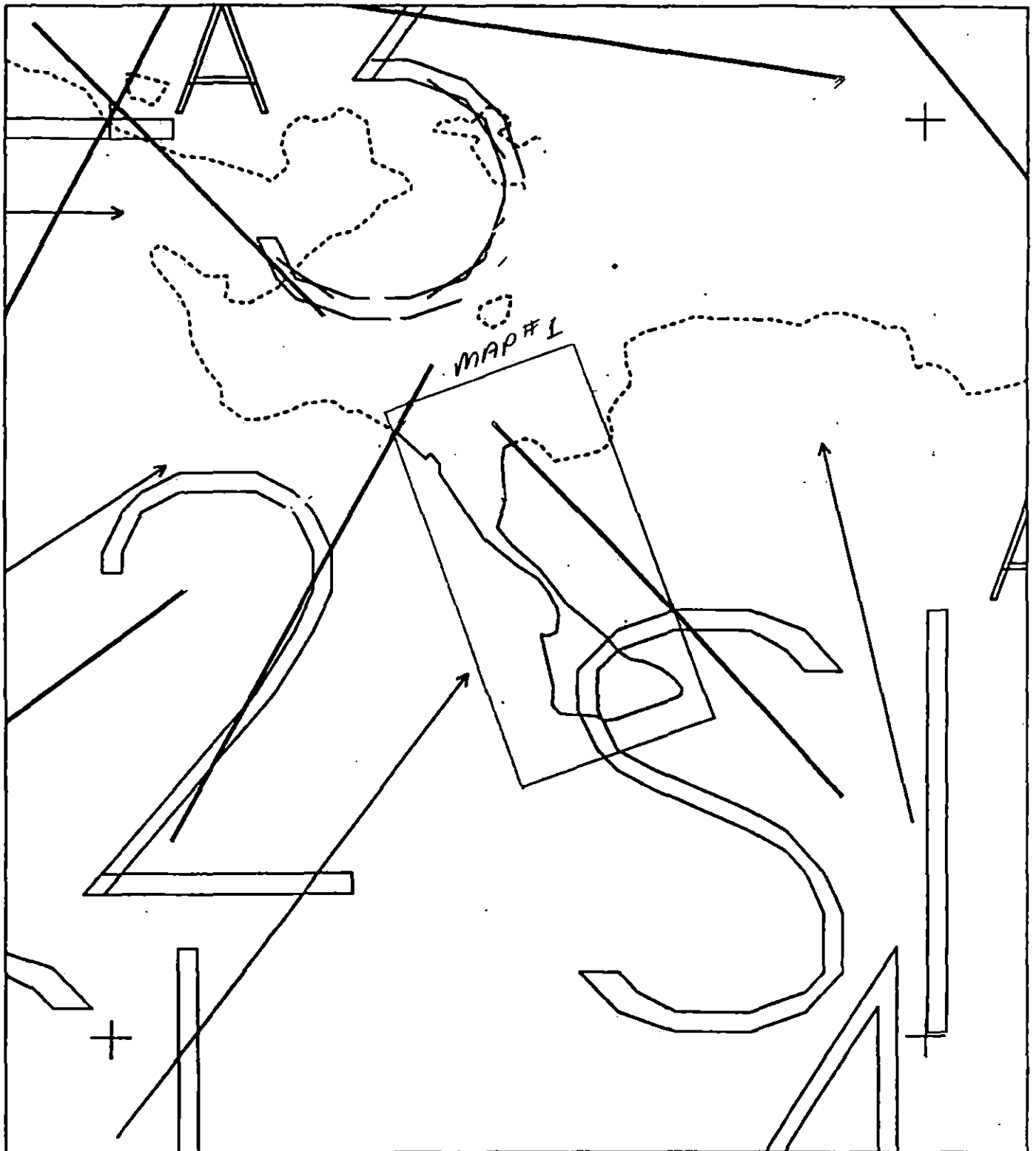
PHOTO ROLL # MAYSAP-

FRAMES

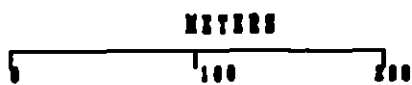
SHEEN COLOR: B = BROWN: R = RAINBOW: S = SILVER: N = NONE

OG COMMENTS: This was a tidal flat/LAGOON with a small stream bordered by c-3-a slopes. The oiling of this site was very minor consisting of SOR/TB at two areas occurring on and between clasts. Veco workers removed all loose oiled sediments and when this was impractical the oiled sediment was broken up.

reviewed 5.15.91 gy
 re reviewed 5/15



K0111 S1004 A M



AK State Plane Zone 4,
9011110040

Subdivision Field Map

Map Key: 00AK0111S1004A

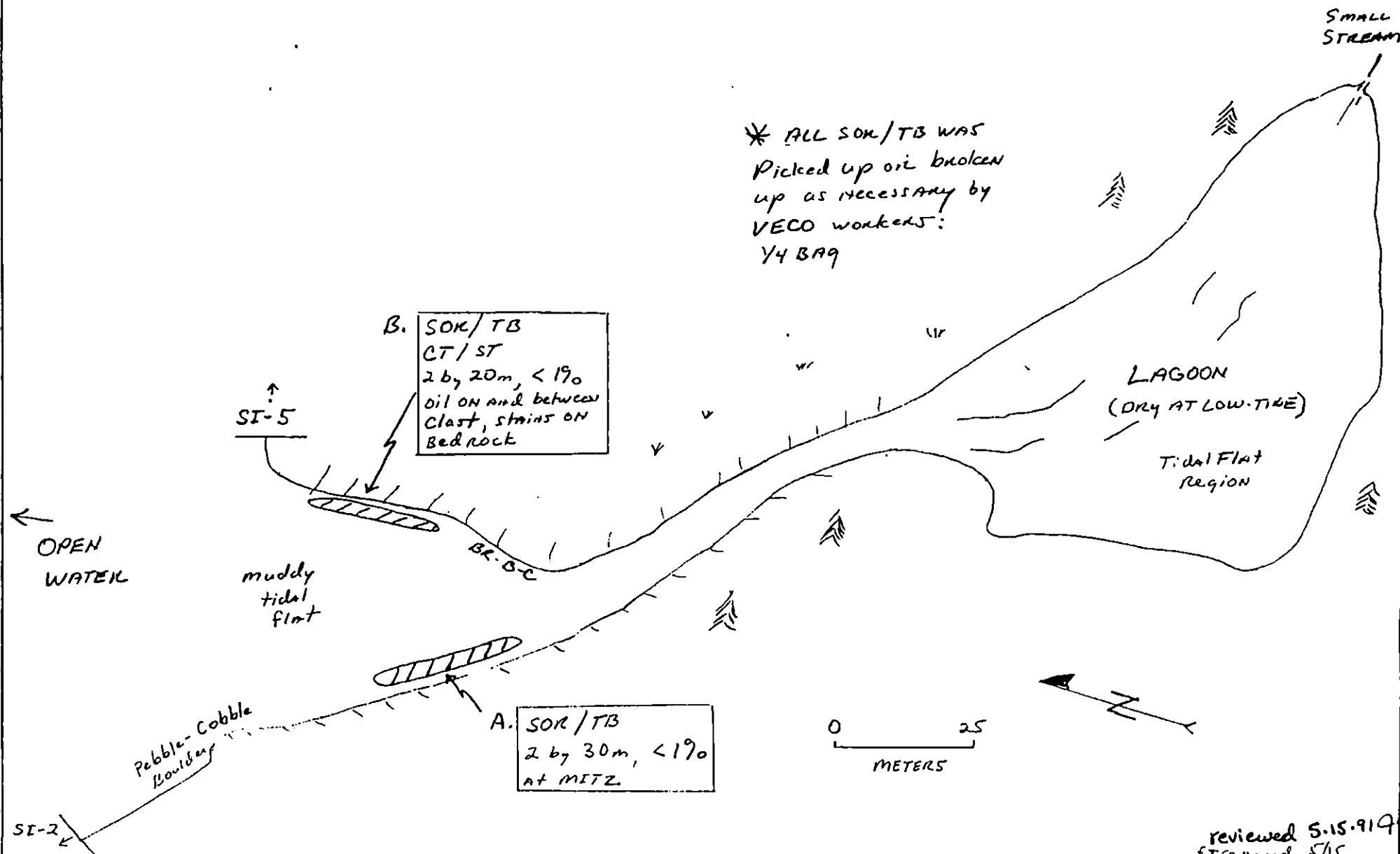
Name: D. Fitzgerald

Date: 11 May 1991

-  VEGGREENS
-  Grassy Area
-  Low bedrock cliff/slope
-  Photo sites

Sketch MAP (OG)
 K-1-11
 SI-4-A M
 D. Fitzgerald
 11 MAY 1991
 16:40 - 1700

* ALL SOR/TB WAS
 Picked up or broken
 up as necessary by
 VECO workers:
 Y4 BA9

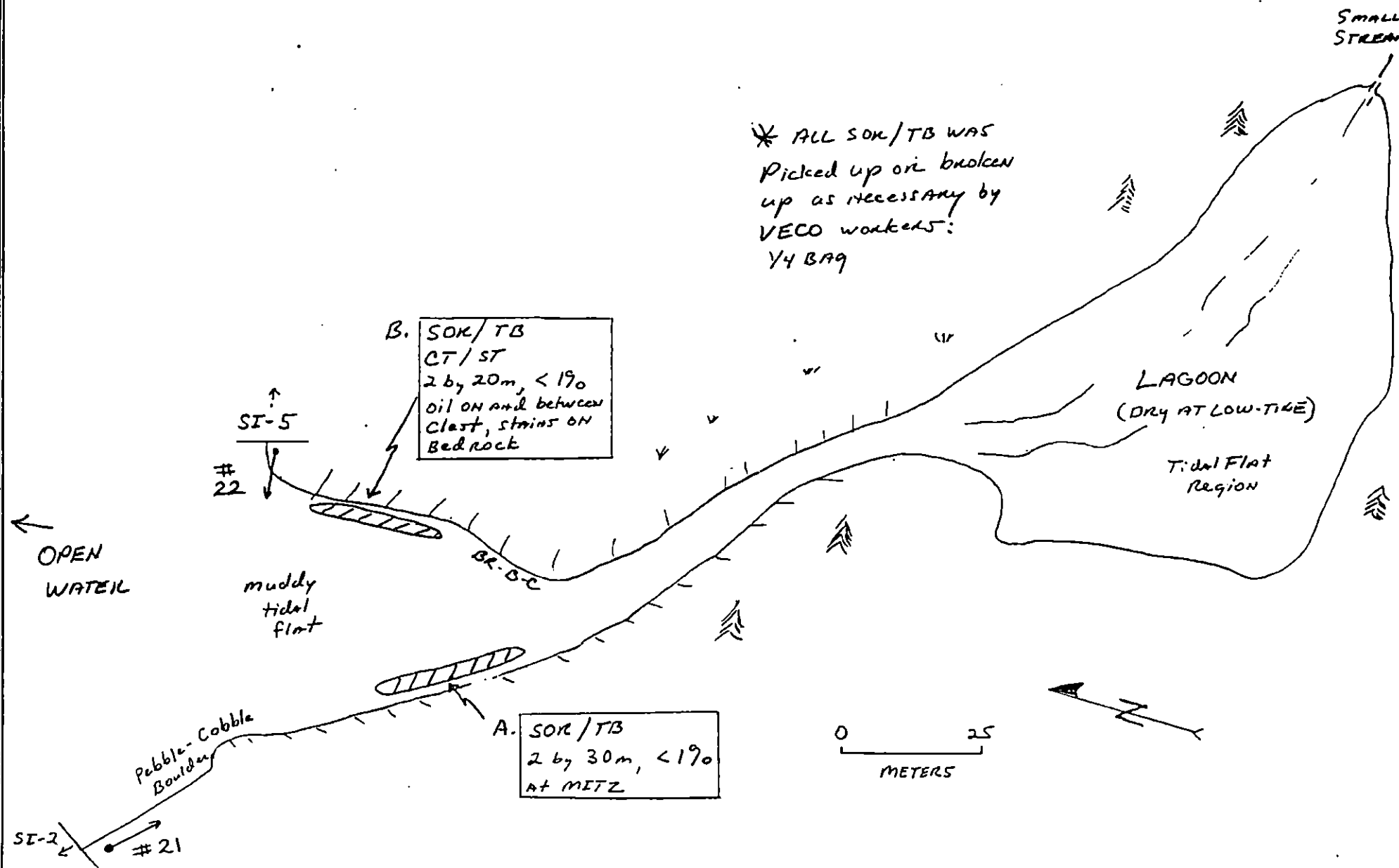


- Evergreens
- Grassy Area
- Low bedrock cliff/slope
- Photo sites

PHOTO SITES, SI-4A
ROLL 6-11, FRAMES 21 & 22

Sketch MAP (OG)
SI-4-AM
D. Fitzgerald
11 May 1991
16:40 - 1700

* ALL SOR/TB WAS
Picked up or broken
up as necessary by
VECO workers:
1/4 BAG



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 11 1991

SEGMENT # SI-04 K-1-11

TIDAL HEIGHT (Range) 5ft - 4ft (16:40-17:00)

SUBDIVISION A M

BIOLOGIST H. Davis

SEA STATE 1-2 ft

WIND SPEED/DIRECTION $\approx$ 5 mph SE

PHOTOGRAPHS: ROLL # G-11

FRAME #

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

The lagoon area is ringed by a sparse area of barnacles, littorina and limpets. Algal drift is scattered throughout the area. In the middle of the lagoon is a peaty area with enteromorpha and detrital mats.

A+B Sites A+B are outside the lagoon on a bedrock/cobble/boulder area of low energy. In the MITZ there is a dense band of Fucus below the start of the SOR/TB. Patchy Fucus, barnacles and littorina are almost 100% of the biotic in this area. In crevices there are a few mytilus + limpets. The CT/ST at Site B is in the MITZ. Barnacles and littorina were the most common organisms here. In some places the CT/ST was up near the verrucaria band. One area of verrucaria had an oil "shadow" where the oil had worn away leaving a negative spot colonized by filamentous greens.

Clean up in this area would be more disruptive than productive.

There is a seabird colony on a island to the NW of this site.

Magpies

Mallards (4) Pintails (5) Harlequin (2) Unknown duck (2) Kittiwakes (>10) Rednecked Phalarope

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	4	13	
Gulls/kittiwakes	1	>10	
Shorebirds	1	8	
Corvids	0		
Other Birds magpies	1	2	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Deer + Deer tracks	1
Pinnipeds (specify)	0		
Elles (specify)	0		

Shoreline subdivision map showing important biological features attached.



KELP FOREST



Grassy Area

Low bedrock
cliff/slope

Photo Sites

Bio map
H. Davis

Sketch K-1-11

SI-4-AM

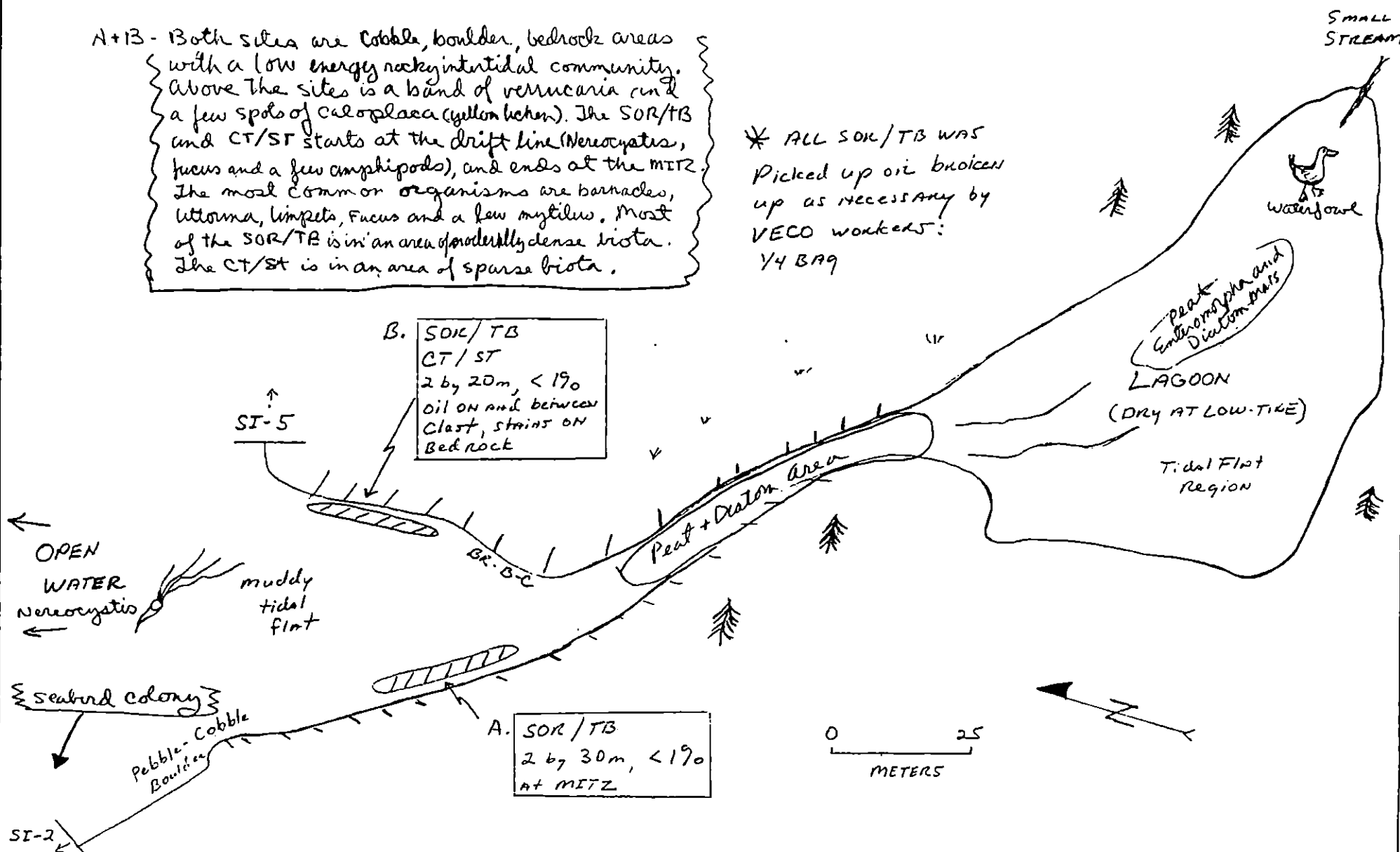
~~A. F. G. S. H. D.~~

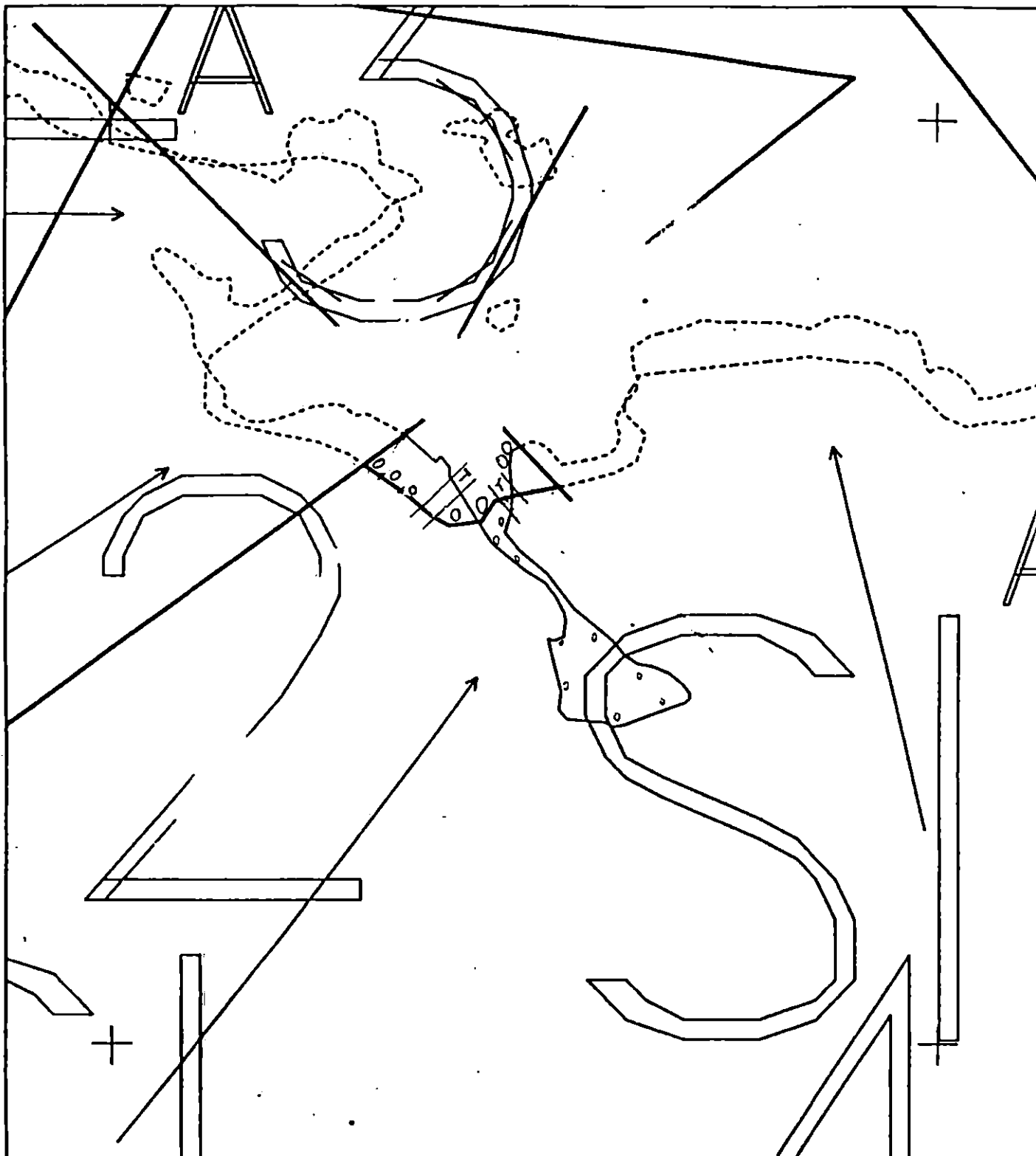
11 MAY 1991

16:40 - 1700

A+B - Both sites are cobble, boulder, bedrock areas with a low energy rocky intertidal community. Above the sites is a band of verrucaria and a few spots of caloplaca (yellow lichen). The SOR/TB and CT/ST starts at the drift line (Nereocystis, fucus and a few amphipods), and ends at the MITZ. The most common organisms are barnacles, Littorina, limpets, Fucus and a few mytilus. Most of the SOR/TB is in an area of moderately dense biota. The CT/ST is in an area of sparse biota.

* ALL SOR/TB WAS
Picked up or broken
up as necessary by
VECO workers:
1/4 BAG





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

K0111 S1004 ~~A~~ M
 ADEC Subsegment Length: 184m
 METERS

AK State Plane Zone 4
 9011110040- . . .



Subdivision Field Map
 Map Key: 60AK0111S1004A
 Name: D. Fitzgerald
 Date: 11 May 1991
 Date Entered:

reviewed 5.15.91 94
 ET revised 5/15

1991 MAYSAP EVALUATION

SEGMENT: K0111SI004 SUB: M REGION: KOD SURVEY DATE: 5/11/91

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: Rachel Jan Dan

Date: 5/24/91

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: MAY 24 1991

FOSC APPROVAL DATE: 5/29/91

ADEC

FOSC

EXXON

E. E. PAGE, CDR, 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.

TEAM NO. G-Helo SEGMENT SI-4 SUBDIVISION AM DATE 11 May 1991

ADEC

NAME J. BARNHARTSIGNATURE Jeff Barnhart

- ☒ NTR Low energy beach. Two oiled areas (1) Trace amount TB 30m x 2m near bank of small stream. Removed by veco crew. (2) 20m x 2m Trace TB, CT. Oil broken up. Small quantity removed.

EXXON

NAME R. CoulterSIGNATURE Ren D. Coulter

- ☒ NTR

ALL AREAS OF SOR WERE REMOVED AND/OR BROKEN UP WITH A SHOVEL. NO OTHER ASSESSMENT NEEDED AT THIS SITE.

LANDMANAGER

NAME K. MURPHYOF ADNRSIGNATURE Karin Murphy

- ☒ NTR This area, managed by ADNR, lies just outside Shuyak Island State Park and may be added to State Park lands in the future. The area has high scenic, recreational and wildlife values. Light oiling was observed in stream leading into a tidal lagoon. Some splatter and coat observed on upper tidal rocks. Veco crews removed and broke up several small portions.

USCG/NOAA

NAME Chief JENSEN / G. SHIGENAKASIGNATURE Chief Jensen / Gary Shigenaka

- ☒ NTR 1/4 sack of mousse removed from this segment. Further removal operations would cause more environmental harm than the oil to be removed.

SEGMENT INCLUDED A TIDALLY-INFLUENCED LAKE AND STREAM AND WAS GENERALLY CHARACTERIZED BY ROCKY SUBSTRATE, BOULDER AND BEDROCK. GOOD FULUS COVER OVER MUCH OF THE MID- TO LOWER INTERTIDAL. WEATHERED MOUSSE WAS OBSERVED IN A FEW LOCATIONS ALONG THE SEGMENT, AND WAS RECOVERED OR BROKEN UP AS PRACTICABLE. LITTLE, IF ANY, RECOVERABLE OIL RESIDUES REMAIN IN THIS SEGMENT.

PAGE 1 OF 1

SEGMENT K-1-11
SI-4

SUBDIVISION AM

DATE 11 May 1961

ENERGY LEVEL: ☐ H ☐ M ☒ L

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

[illegible]

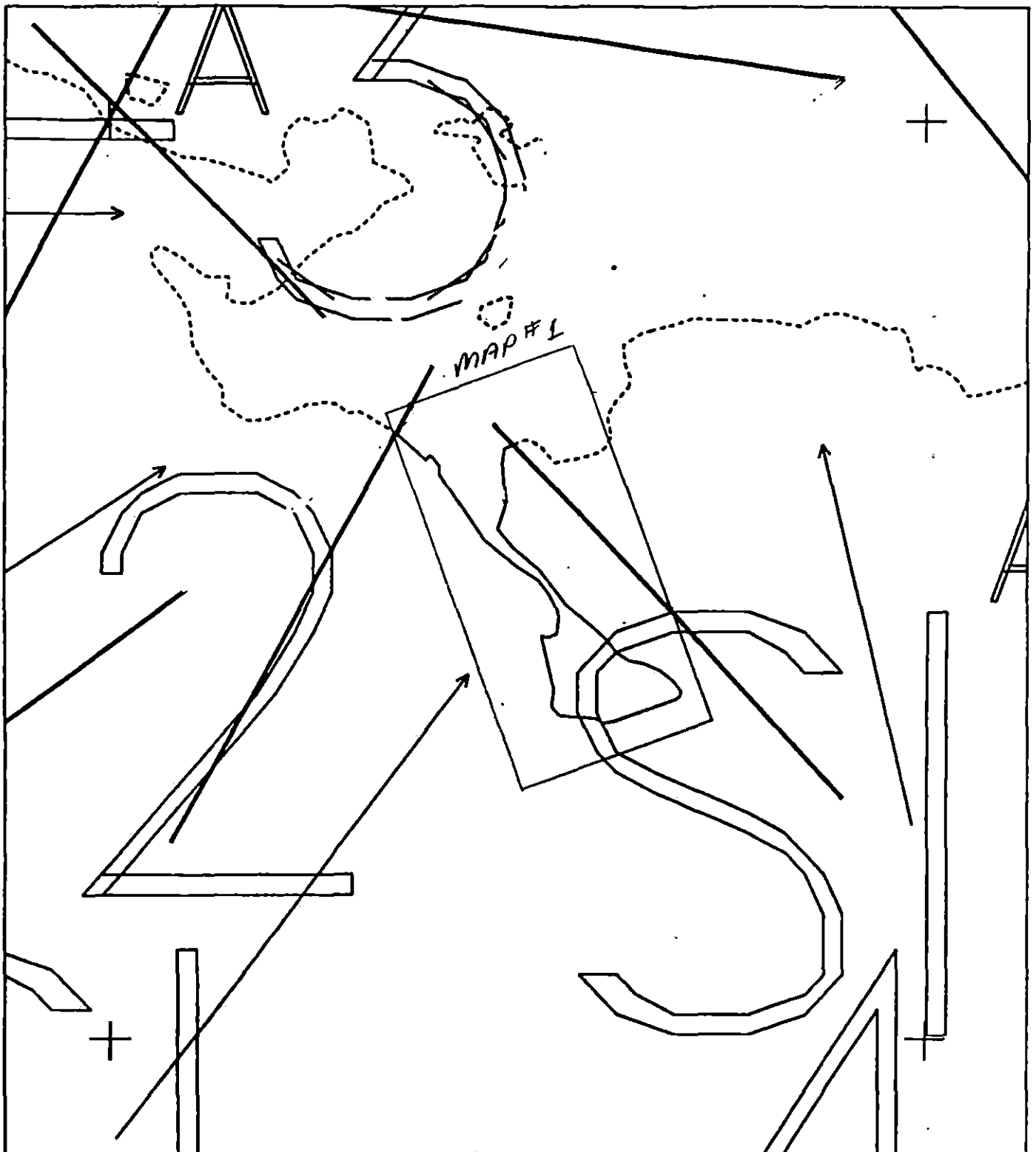
6 - 11 FRAMES ^{21 + 22}

[illegible]

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

OG COMMENTS: This was a tidal flat/LAGOON with a small stream bordered by c-b-or slopes. The oiling of this site was very minor consisting of SOR/TB at two areas occurring on and between clasts. Veco Workers removed all loose oiled sediments and when this was impractical the oiled sediment was broken up.

reviewed 5.15-91 *fy*
 26 reviewed 5/15



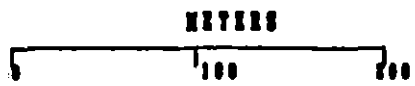
K0111 SI004 A M

Subdivision Field Map

Map Key: 00X0111SI004

Name: D. Fitzgerald

Date: 11 May 1991

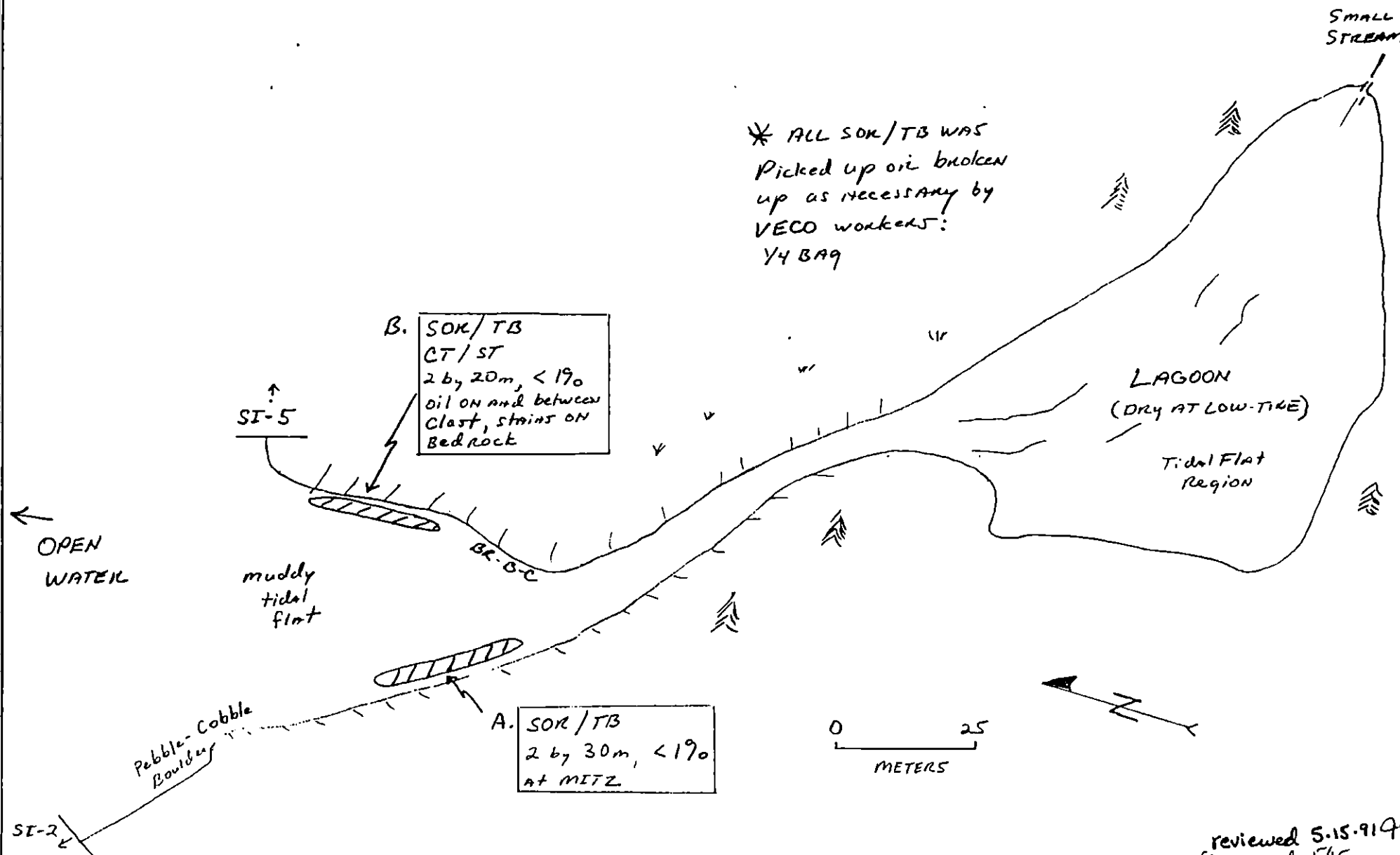


AK State Plane Zone 4
00111SI004

-  Evergreens
-  Grassy Area
-  Low bedrock cliff/slope
-  Photo sites

Sketch MAP (OG)
 K-1-11
 SI-4-A M
 D. Fitzgerald
 11 MAY 1991
 16:40 - 1700

* ALL SOR/TB WAS
 Picked up or broken
 up as necessary by
 VECO workers:
 Y4 BA9



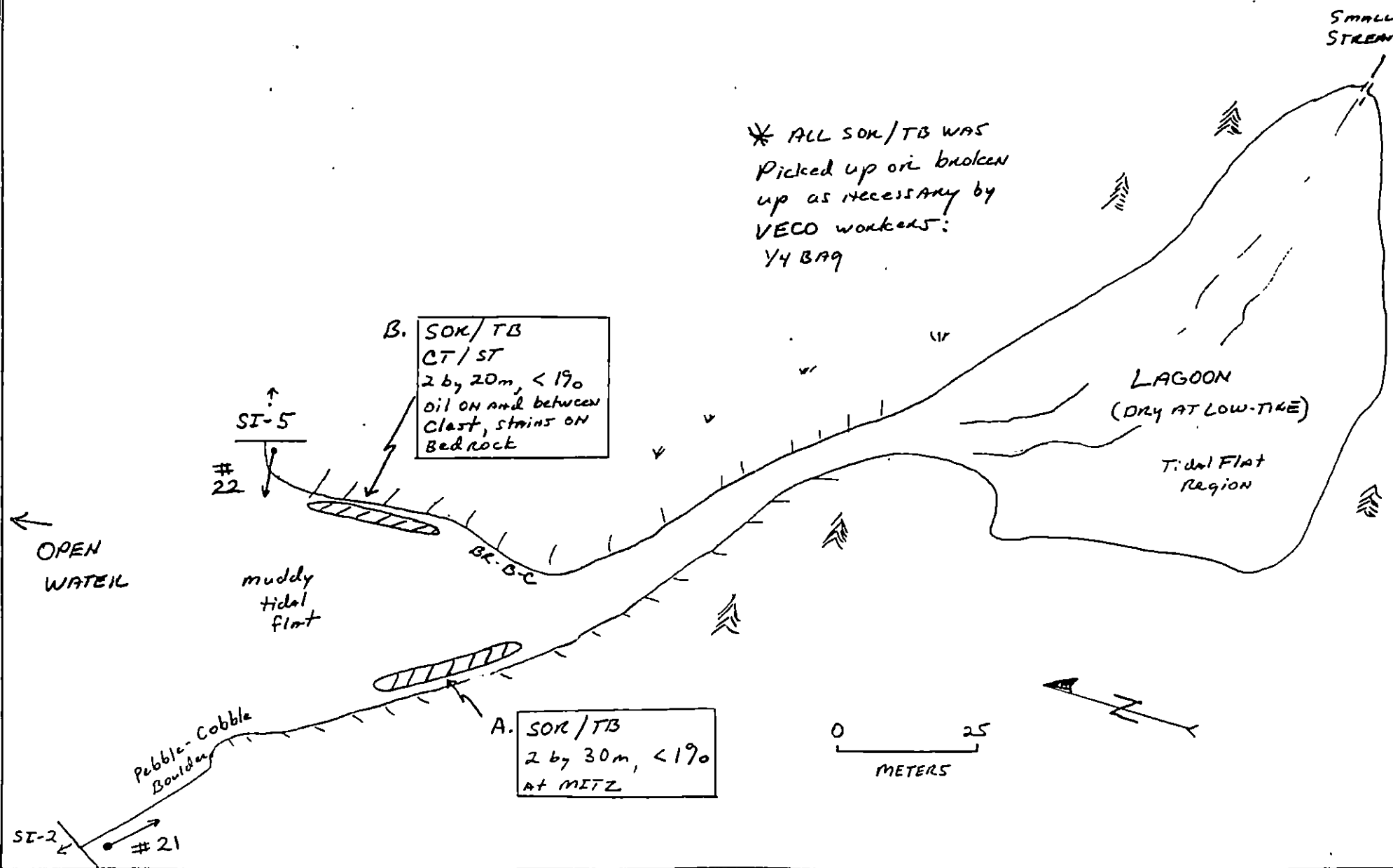
reviewed 5.15.91
 F.T. reviewed 5/15

- EVERGREENS
- III Grassy Area
 - II Low bedrock cliff/slope
 - ↗ Photo Sites

PHOTO SITES, SI-4A
ROLL 6-11, FRAMES 21 & 22

Sketch MAP (OG)
SI-4-A M
D. Fitzgerald
11 May 1991
16:40 - 1700

* ALL SOR/TB WAS
Picked up or broken
up as necessary by
VECO workers:
Y4 BA9



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 11 1991

SEGMENT # SI-04 K-1-11

TIDAL HEIGHT (Range) 5ft - 4ft (16:40-17:00)

SUBDIVISION A M

BIOLOGIST H. Davis

SEA STATE 1-2 ft

WIND SPEED/DIRECTION $\approx$ 5 mph SE

PHOTOGRAPHS: ROLL # 6-11

FRAME #

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

The lagoon area is ringed by a sparse area of barnacles, littorina and limpets. Algal drift is scattered throughout the area. In the middle of the lagoon is a peaty area with enteromorpha and detrital mats.

A+B Sites A+B are outside the lagoon on a bedrock/cobble/boulder area of low energy. In the MITZ there is a dense band of Fucus below the start of the SOR/TB. Patchy Fucus, barnacles and littorina are almost 100% of the biota in this area. In crevices there are a few mytilus + limpets. The CT/ST at Site B is in the MITZ. Barnacles and littorina were the most common organisms here. In some places the CT/ST was up near the verrucaria band. One area of verrucaria had an oil "shadow" where the oil had worn away leaving a negative spot colonized by filamentous greens.

Clean up in this area would be more disruptive than productive.

There is a seabird colony on a island to the NW of this site.

Magpies

Mallards (4) Pintails (5) Harlequin (2) Unknown duck (2) Kittiwakes (>10) Rednecked Phalarope

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	0		
Waterfowl	4	13	
Gulls/Kittiwakes	1	>10	
Shorebirds	1	8	
Corvids	0		
Other Birds magpies	1	2	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Deer + Deer tracks	1
Pinnipeds (specify)	0		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.



K. GREENS



Grassy Area

Low bedrock
cliff/slope

Photo sites

Bio Map
H. Davis

Sketch K-1-11

SI-4-AM

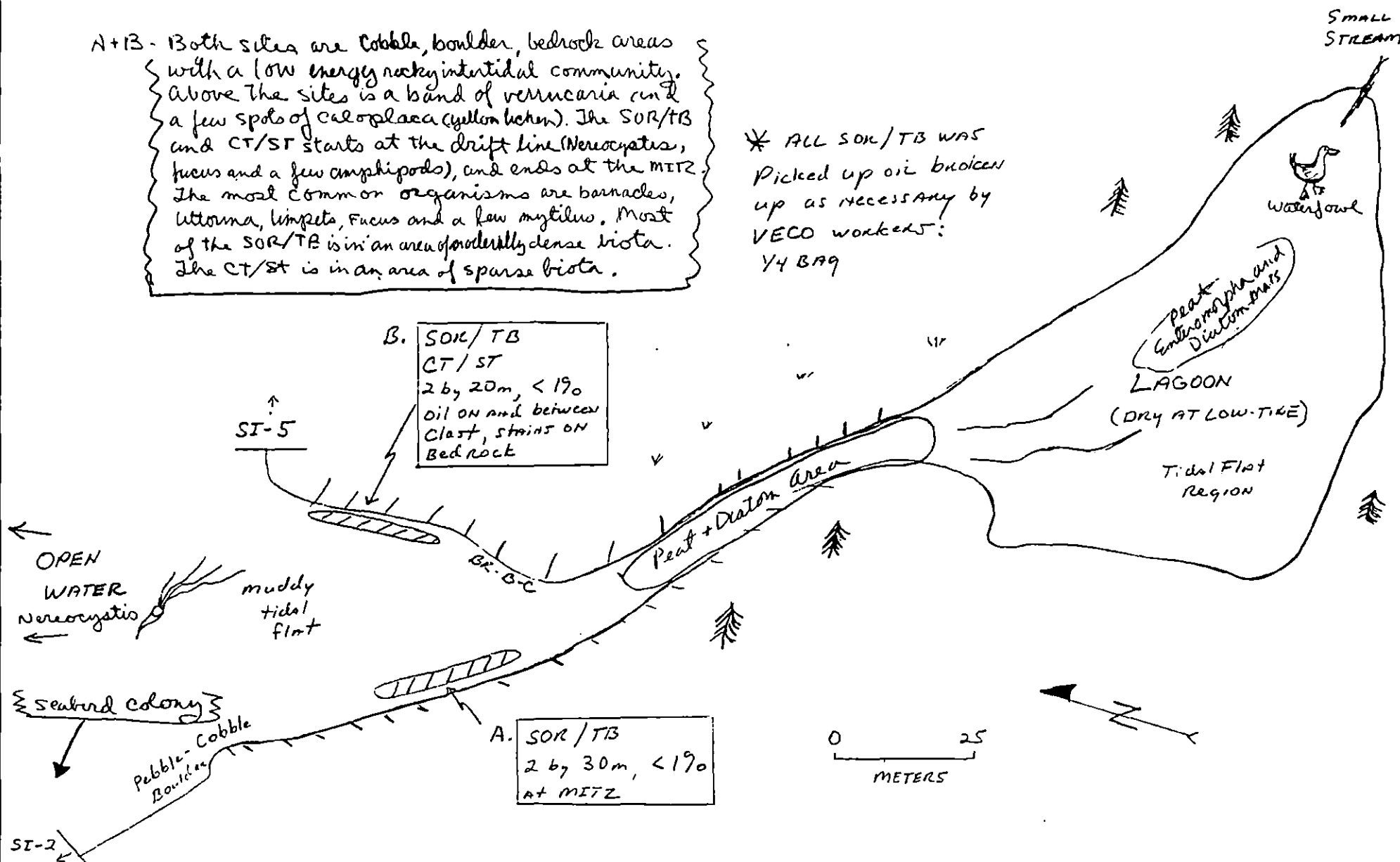
~~SI-4-AM~~

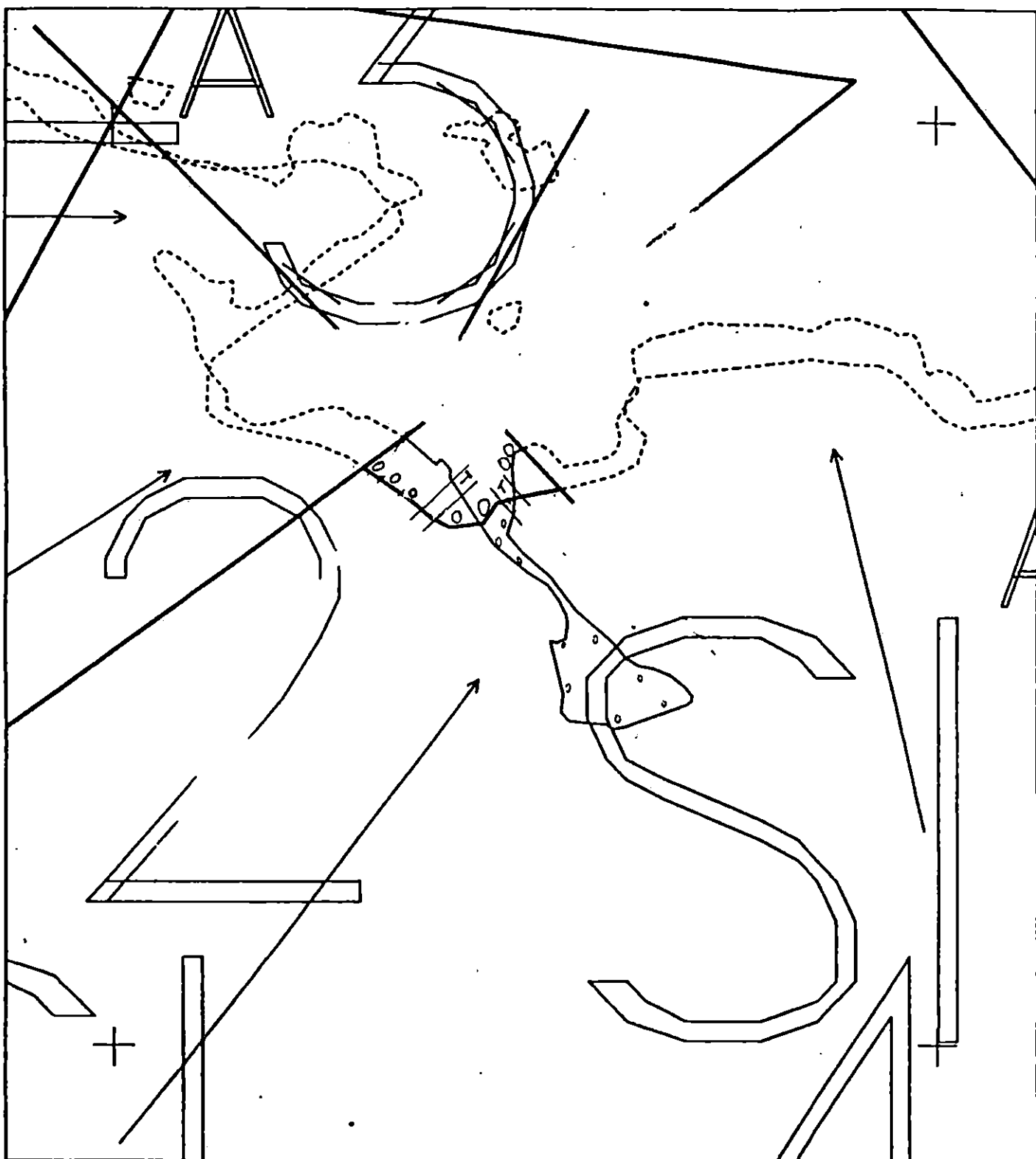
11 May 1991

16:40 - 1700

A+B. Both sites are Cobble, boulder, bedrock areas with a low energy rocky intertidal community. Above the sites is a band of verrucaria and a few spols of Caloplaca (yellow lichen). The SOR/TB and CT/ST starts at the drift line (Nereocystes, fucus and a few amphipods), and ends at the MITZ. The most common organisms are barnacles, Littorina, limpets, Fucus and a few mytilus. Most of the SOR/TB is in an area of densely dense biota. The CT/ST is in an area of sparse biota.

* ALL SOR/TB WAS
Picked up oil broken
up as necessary by
VECO workers:
Y4 BA9





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

K0111 S1004 ~~A~~ M
 ADEC Subsegment Length: 184m
 METERS

5 100 200
 AK State Plane Zone 4
 8011110040- . . .



Subdivision Field Map
 Map Key: 60AK0111S1004A
 Name: D. Fitzgerald
 Date: 11 May 1991
 Date Entered:

reviewed 5.15.91 94
 ET raised 5/15

1991 MAYSAP EVALUATION

SEGMENT: K01118I005 SUB: A REGION: KOD SURVEY DATE: 5/12/91

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: Rachel Dan Dor Date: 5/24/91

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: MAY 24 1991 FOSC APPROVAL DATE: 5/29/91

ADEC [Signature] FOSC [Signature]

EXXON [Signature] E. E. PAGE, CDR, USCG
CHIEF OF STAFF, FOSC

USCG [Signature]

NOAA [Signature]

**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 K-01-11 SI-5 SUBDIVISION A DATE 12/1 May/91

ADEC

NAME J. BARNHART

SIGNATURE Jeff Barnhart

☒ NTR K01-11 S1005A Area at east end of segment, 30m x 2m 290 oil coverage SOR-MS around/ between boulders/cobble. MS is brown in color, wet and emits strong odor of crude oil when disturbed. Oil thickness up to 1cm. A few pounds of oil/oil sediment was removed by VECO crew. Most was broken up and remains on the beach. A 30cm pit dug on the gravel beach adjacent to this S.T.O. showed no sign of oil. A 200m long area approx in the middle of the segment contains SOR-MS, trace up to 2.5cm thick in cracks and crevices of boulders, bedrock and under cobbles. However, most of the SOR-MS was a thin layer of 1cm or less. Extremely difficult to recover by manual methods.

EXXON

NAME Rex Coulter

SIGNATURE Rex R. Coulter

☒ NTR EVERYTHING FOUND WAS BROKEN UP AND/OR REMOVED, WHETHER ACCESSIBLE. ACTUALLY, THERE WAS VERY LITTLE THERE TO SEE OR REMOVE.

LANDMANAGER

NAME K. MURPHY

OF ADNR

SIGNATURE Kenn Murphy

☒ NTR This area, located in NUNR, lies just outside SNOYAK Island state park and may be added to state park lands in the future. The area has scenic, recreational, and wildlife values. Some small and very wet mouse was observed trapped in rocks in upper tidal zone. VECO crew worked to break-up and/or remove remaining oil. One 30cm pit was dug in granule beach. The pit revealed only an organic sheening.

USCG/NOAA

NAME Chief JENSEN / G. SHIGENAKA

SIGNATURE Robert G. Jensen Gary Shigenaka

☒ NTR 1/4 bag mouse picked up. There is no longer any detectable oil present on the water, adjoining shorelines, or places where it is likely to reach the water again.

SEGMENT WAS AN IRREGULAR SHORELINE CONSISTING OF A RANGE OF SUBSTRATES FROM PEBBLE-GRANULE BEACHES TO COBBLE-BOULDER TO BEDROCK OUTCROPS. ONLY THAT PORTION OF THE SEGMENT WHERE OIL HAD BEEN PREVIOUSLY REPORTED WAS SURVEYED. WEATHERED MOUSSE WAS FOUND IN COBBLE SUBSTRATE OR EMBEDDED IN BEDROCK MATRIX. WHERE IT WAS LOCATED, OIL WAS EITHER REMOVED OR BROKEN UP BY VECO CREW. ONE PIT WAS DUG IN A PEBBLE-GRANULE BEACH NEAR THE EASTERN END OF THE SEGMENT AND ADJACENT TO A ROCKY AREA WHERE WEATHERED MOUSSE WAS ENCOUNTERED RELATIVELY MORE COMMONLY. THE PIT, ABOUT 20 CM IN DEPTH, SHOWED NO SIGN OF OIL BUT DID YIELD AN ORGANIC SHEEN. A PEBBLE BEACH TOWARD THE WESTERN END OF THE SEGMENT, WHERE STATE/LOCAL REPS RECALLED OIL BEING PRESENT IN 1990, SHOWED NO SIGN OF OIL.

TEAM NO. 6-He/o

PAGE 1 OF 1

K-01-11

OG D. Fitzgerald

BIO H. Davis

SEGMENT *SI-5*

ADEC J. BARNHART

LANDMANAGER K. MURPHY for ADNR

SUBDIVISION A

XXON R. Coulter

USCG/NOAA Chief JENSEN / G. SHIGENAKA

DATE 12 May 191

TIME 11 : 10 to 11 : 55

TIDE LEVEL 3.2 ft. to 6.0 ft.

ENERGY LEVEL: ☐ H ☒ M ☐ L

SURVEYED FROM: ☒ FOOT ☐ BOAT ☐ HELO

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

TOTAL LENGTH SHORELINE SURVEYED: _____ m 419

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

EST. OIL CATEGORY LENGTH: W m M m N m VL 130 m NO 289 m US 160 m

[illegible]

DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

DISTRIBUTION: C = 0% 100%; D = 0% 100%; F = 0% 100%; G = 0% 100%; H = 0% 100%

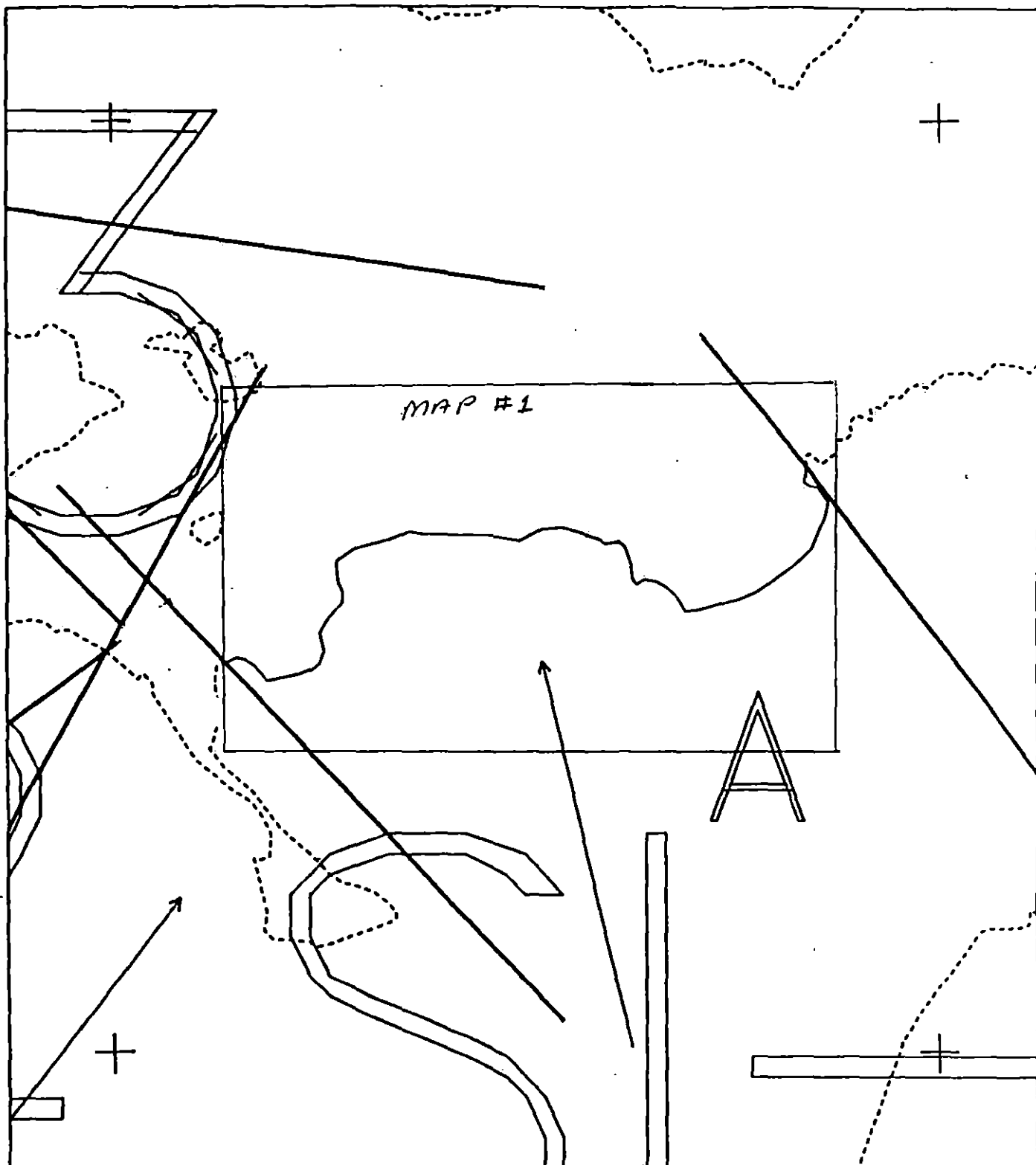
SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAYSAP- 6 - 12 FRAMES 15-19

[illegible]

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

OG COMMENTS: This segment consists of an irregular shoreline having a bedrock-boulder slope with small pebble-cobble, pocket beaches (10-100m). The ASIP survey of this area showed that the most concentrated oil occurs at the eastern end of the segment consisting of SOR/MS up to 2 cm deep in cracks in splashy to patchy amounts (0-49%) while the oiling is still present, it has degraded considerably and thicknesses in cracks were less than 1 cm. The extent of the oil is in trace amounts over a 2 by 30 m Area. Several areas outside of site A had SOR/MS in trace amounts along the UETZ in cracks and between clasts.

revised 5/15/91 KG
ET renewed 5/15



K0111 S1005 A

Subdivision Field Map

Map Key: 002001101000

Name: D. Fitzgerald

Date: 12 MAY 1991

METERS

0 100 200

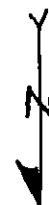
AS State Plane Zone 4.

EXON

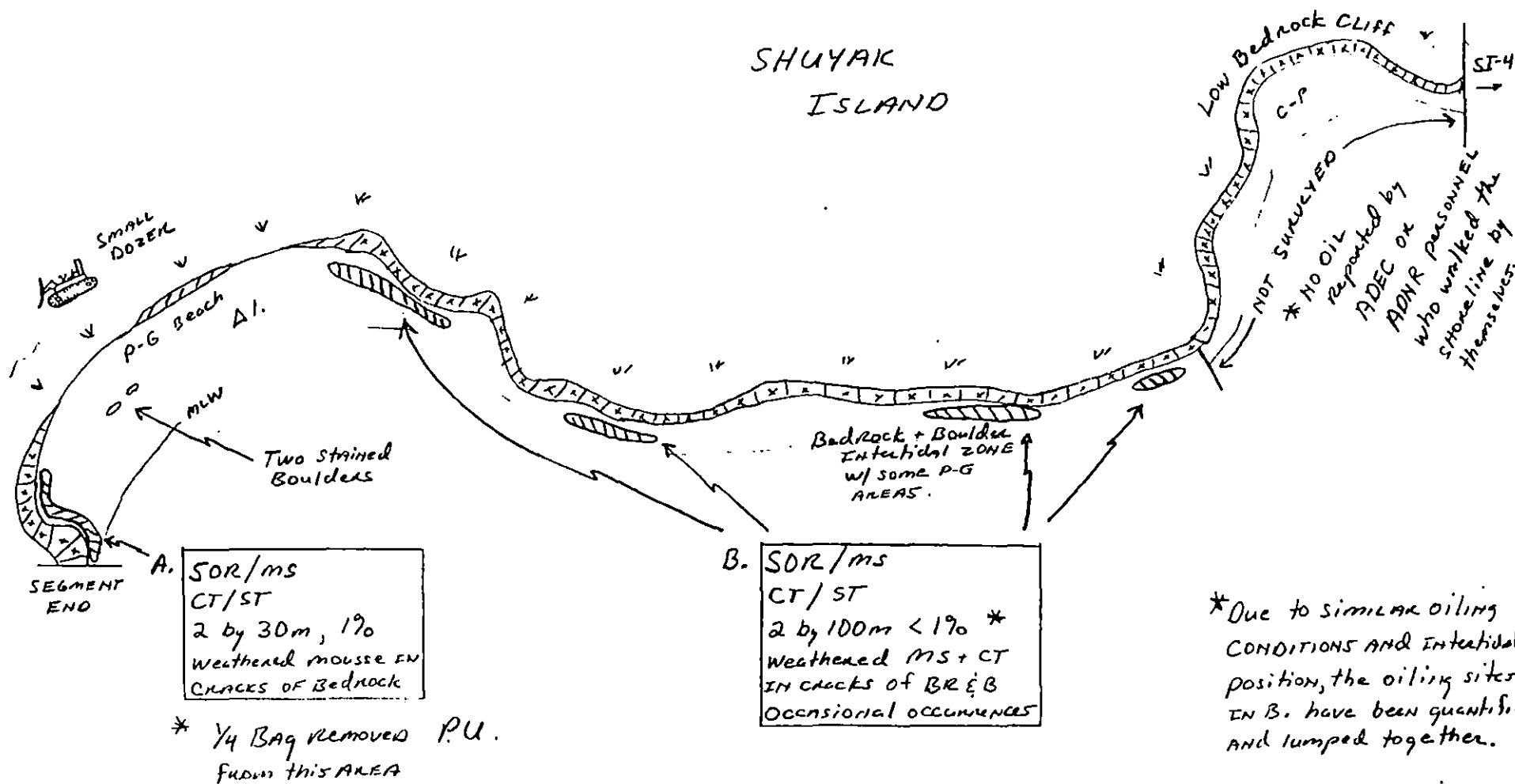
 Low bedrock cliff
 grassy upland
 PHOTO SITES

SKETCH MAP (OG)
 K-01-11
 SI-5-A
 O. FITZGERALD
 12 MAY 1991
 11:10 - 11:55

0 50
METERS



SHUYAK
ISLAND



5/15/91 K/G reviewed
 Strickland S/S

* Due to similar oiling conditions and intertidal position, the oiling sites in B. have been quantified and lumped together.

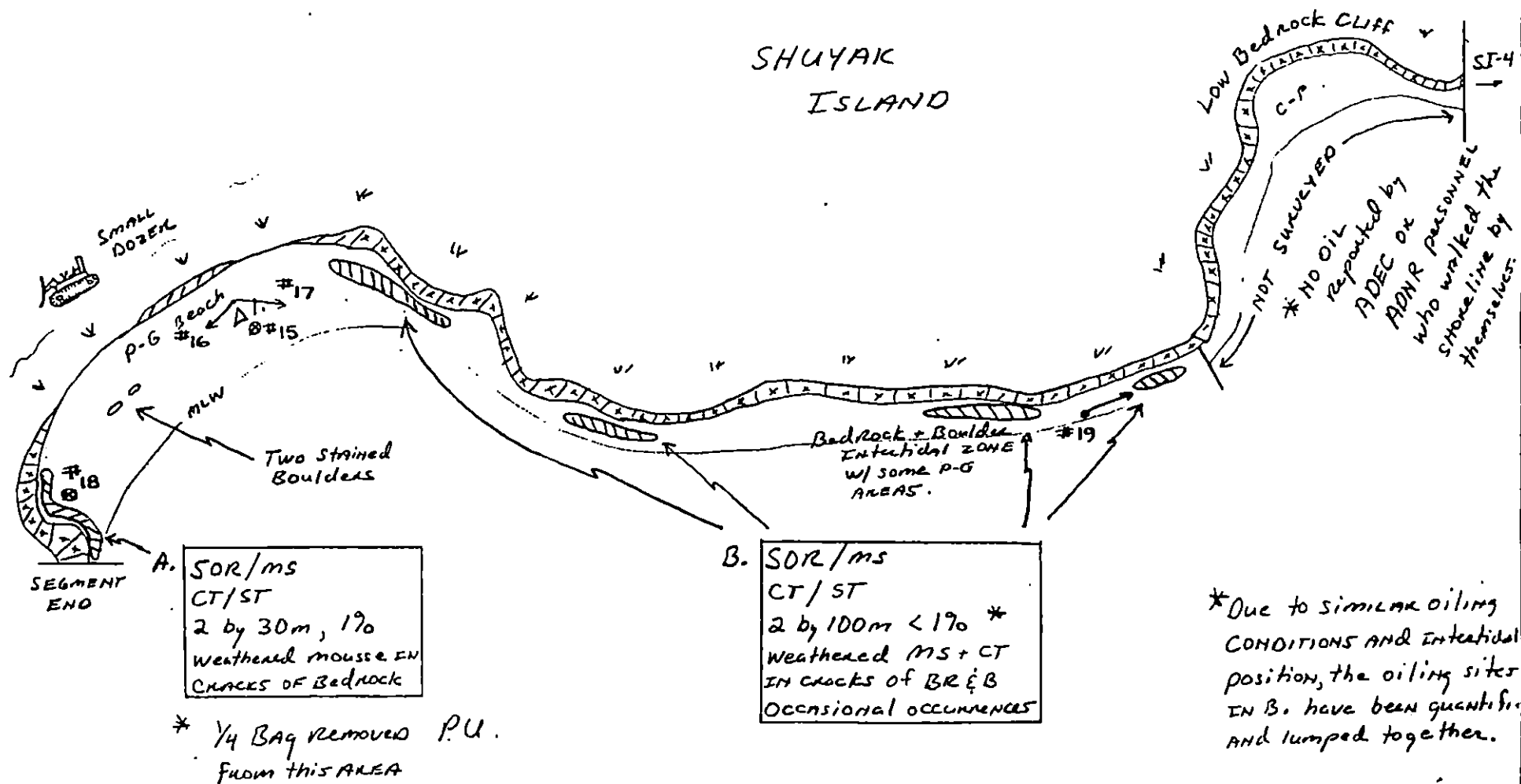
- Low bedrock cliff
 grassy upland
 PHOTO SITES

PHOTO SITES, SI-5A
 ROLL 6-12, FRAMES 15-19

SK MAP (OG):
 SI-5-A
 O. Fitzgerald
 12 MAY 1991
 11:10 - 11:55

0 50
 METERS

SHUYAK
 ISLAND



* Due to similar oiling conditions and intertidal position, the oiling sites in B. have been quantified and lumped together.

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 12 1991

SEGMENT # SI-05

TIDAL HEIGHT (Range) 6ft - 7ft (11.10 - 11.55)

SUBDIVISION A

BIOLOGIST H Davis

SEA STATE 2-3 ft

WIND SPEED/DIRECTION 5-10 mph S

PHOTOGRAPHS: ROLL # 6-12

FRAME # 15-19

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

A. Verrucaria, Littorina and drift kelp were at the upper end of the area with SOR/MS and CT/ST. There were "shadows" left in the verrucaria where the oil has worn away. Drift includes Nereocystis, Fucus and some amphipods. Moving down the slope to the water line Barnacles, limpets and Fucus increased in numbers. Littorina are most numerous in the top of the WITZ. Just below Site A, adonathalia, Ulva, and a few mytilus are in patches with in a dense cover of Fucus.

B. The SOR/MS and CT/ST start at the Verrucaria level and extends down past porphyria increasing #'s of Barnacles, limpets and Fucus. Littorina are most numerous at the SOR/MS level. Below site B a discontinuous but dense band of Fucus is mixed in with small pools of adonathalia, scytosiphon, and "Ulva" (green algal blades). Under boulders were sipunculids, anelasma and pagurus.

There is a seabird colony on a island to the north west of this site

Cleanup in this area would be more disruptive then productive.

Kittiwakes (>10) Red neck Phalarops (25) oystercatchers (4) Scoter (sp) (3) eagle (1)

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1 adult	0
Seabirds	0	-	
Waterfowl	1	3	
Gulls/Kittiwakes	1	>10	
Shorebirds	2	29	
Corvids	0	-	
Other Birds	0	-	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Deer, Deer tracks	2
Pinnipeds (specify)	0		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

Bio Map
H. Davis

Sketch Map
SI-5-A
~~0-1000~~
12 MAY 1991
11:10 - 11:55

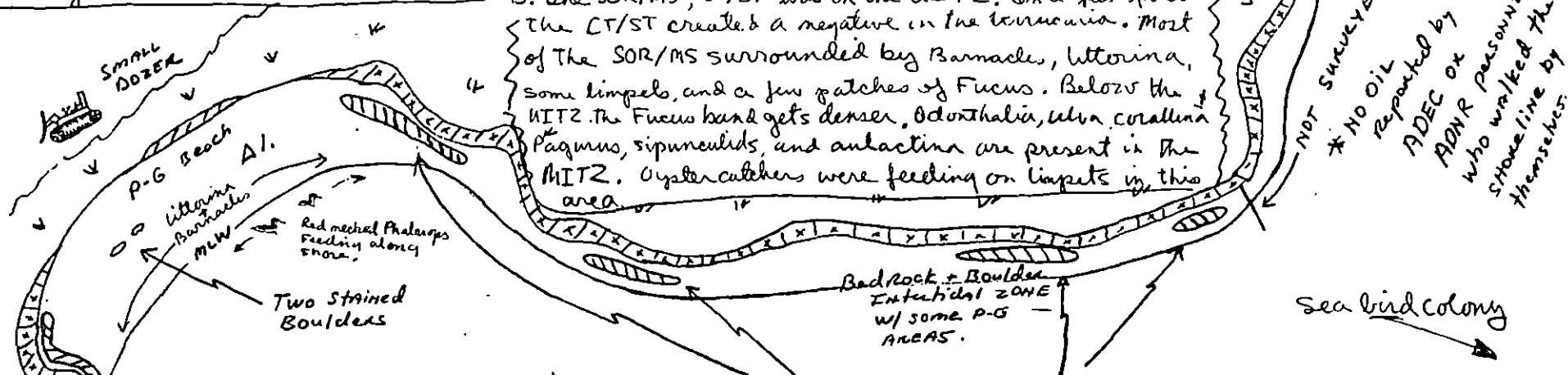
Low bedrock cliff
v w GRASSY upland
→ PHOTO SITES

A. This area was to the north-east of a gravel beach with very little biota. Barnacles and littorina were sparse on the beach but almost 90% of the biota there. The SOR/MS extends from the verrucaria, porphyra band down into the barnacle littorina-limpet zone. On the verrucaria the CT/ST has left shadows where it has worn off. These shadows are filling in with filamentous greens. There are a few small mytila, in crevices.

0 50
METERS

SHUYAK ISLAND

B. The SOR/MS, CT/ST was in the UITZ. In a few spots the CT/ST created a negative in the verrucaria. Most of the SOR/MS surrounded by Barnacles, littorina, some limpets, and a few patches of Fucus. Below the UITZ the Fucus band gets denser. Odonthalia, ulva, corallina, pagurus, sipunculids, and anelasma are present in the MITZ. Oyster catchers were feeding on limpets in this area.

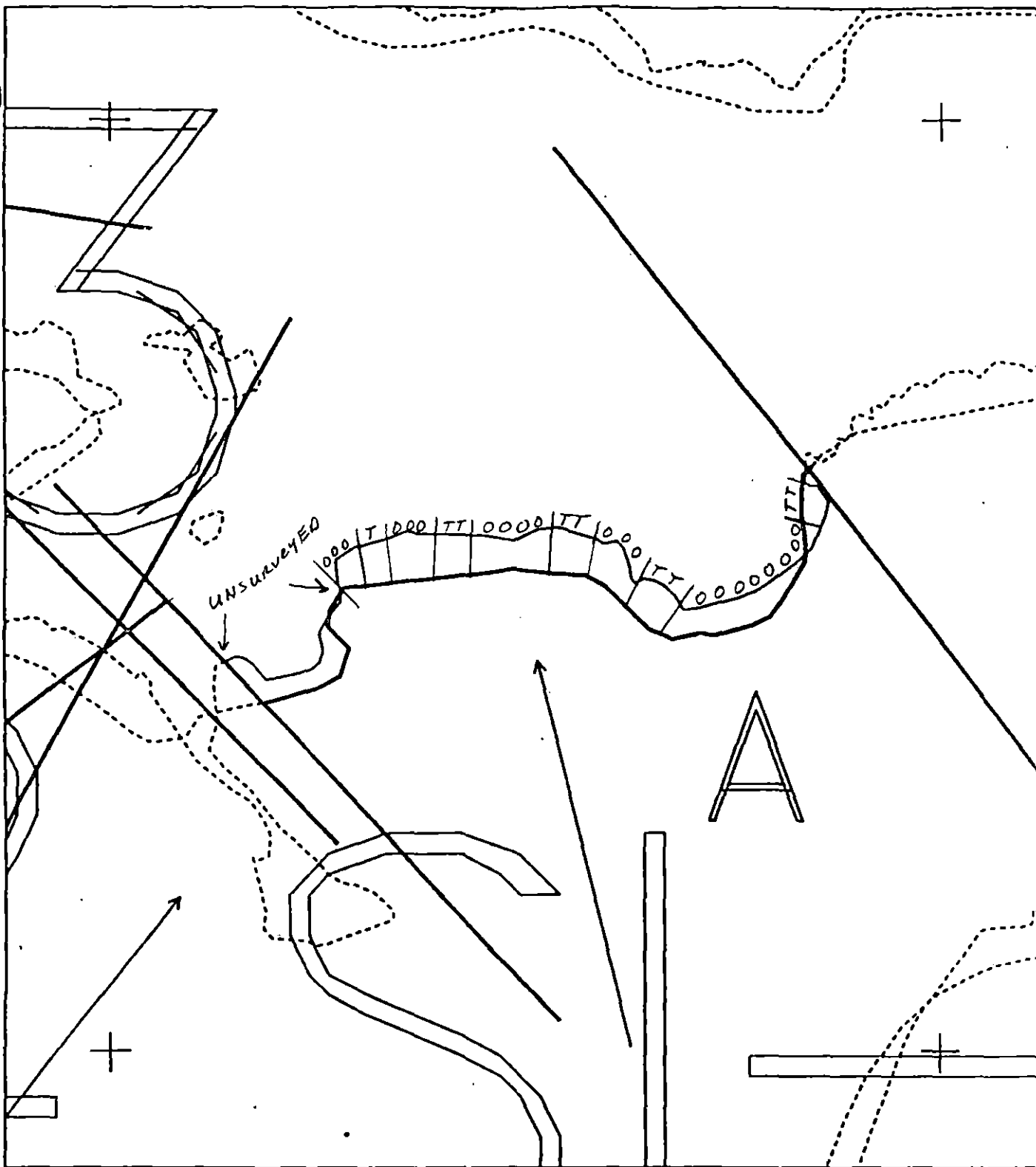


A. SOR/MS
CT/ST
2 by 30m, 190
weathered mousse in
CRACKS OF BEDROCK

* 1/4 Bag removed P.U.
FROM THIS AREA

B. SOR/MS
CT/ST
2 by 100m < 190 *
weathered MS + CT
IN CRACKS OF BR & B
OCCASIONAL OCCURRENCES

* Due to similar oiling
CONDITIONS AND intertidal
position, the oiling sites
IN B. have been quantified
AND lumped together.



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

K0111 S1005 A
 ADEC Subsegment Length: 579m
 METERS

0 100 200
 AK State Plane Zone 4
 90111:10050-



Subdivision Field Map
 Map Key: 60AK0111S1005A
 Memo: D. Fitzgerald
 Date: 12 May 1991
 Date Entered:

reviewed 5/15/91 KG
 E reviewed 5/15

1991 MAYSAP EVALUATION

SEGMENT: K01118I005 SUB: A REGION: KOD SURVEY DATE: 5/12/91

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: _____

<u>RECOMMENDATIONS:</u>	<u>INITIAL</u>	<u>TAG</u>	<u>FOSC</u>
TREATMENT REQUIRED (Y or N)	<u>N</u>	_____	_____
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.

TEAM NO. 6-Helo SEGMENT SI-5 SUBDIVISION A DATE 12 May 91

ADEC

NAME J. BARNHART

SIGNATURE

Jeff Barnhart

- ☒ NTR K01-11 S1005A Area at east end of segment, 30m x 2m 290 oil coverage SOR-MS around/ between boulders/cobble. MS is brown in color, wet and emits strong odor of crude oil when disturbed. Oil thickness up to 1cm. A few pounds of oil/oil sediment was removed by VECO crew. Most was broken up and remains on the bison. A 30cm pit dug on the gravel beach adjacent to this S.T.O. showed no sign of oil. A 200m long area approx in the middle of the segment contains SOR-MS, thin up to 2.5cm thick in cracks and crevices of boulders, bedrock and under cobbles. However, most of the SOR-MS was a thin layer of 1cm or less. Extremely difficult to recover by manual methods.

EXXON

NAME Rex Coulter

SIGNATURE

Rex R. Coulter

- ☒ NTR EVERYTHING FOUND WAS BROKEN UP AND/OR REMOVED, WHERE ACCESSIBLE. ACTUALLY, THERE WAS VERY LITTLE THERE TO SEE OR REMOVE.

LANDMANAGER

NAME K. MURPHY

OF D-DNR

SIGNATURE

Kenn Murphy

- ☒ NTR THIS area, located in NUNR, is outside Shuyak Island State Park and may be added to state Park lands in the future. The area has scenic, recreational, and wildlife values. Some small and very wet mouse was observed trapped in rocks in upper tidal zone. VECO crew worked to break up and/or remove remaining oil. One 30cm pit was dug in granule beach to p - revealed only an organic sheering.

USCG/NOAA

NAME Chief JENSEN / G. SHIGENAKA

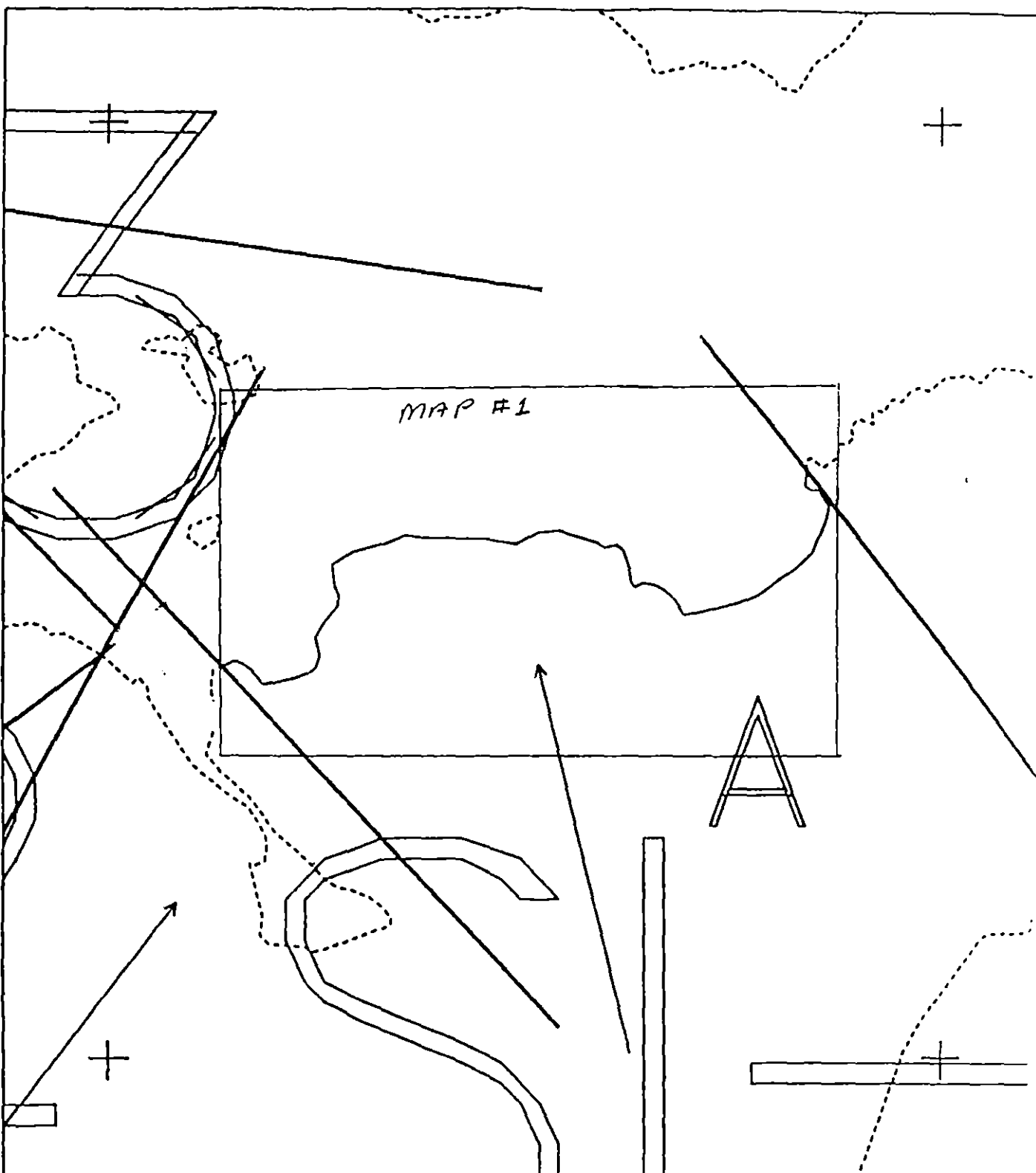
SIGNATURE

Robert Jensen Guy Shigenaka

- ☒ NTR 1/4 bag mouse picked up. There is no longer any detectable oil present on the water, adjoining shorelines, or places where it is likely to reach the water again.

SEGMENT WAS AN IRREGULAR SHORELINE CONSISTING OF A RANGE OF SUBSTRATES FROM PEBBLE-GRANULE BEACHES TO COBBLE-BOULDER TO BEDROCK OUTCROPS. ONLY THAT PORTION OF THE SEGMENT WHERE OIL HAD BEEN PREVIOUSLY REPORTED WAS SURVEYED. WEATHERED MOUSSE WAS FOUND IN COBBLE SUBSTRATE OR EMBEDDED IN BEDROCK MATRIX. WHERE IT WAS LOCATED, OIL WAS EITHER REMOVED OR BROKEN UP BY VECO CREW. ONE PIT WAS DUG IN A PEBBLE-GRANULE BEACH NEAR THE EASTERN END OF THE SEGMENT AND ADJACENT TO A ROCKY AREA WHERE WEATHERED MOUSSE WAS ENCOUNTERED RELATIVELY MORE COMMONLY. THE PIT, APPROX 30 CM IN DEPTH, SHOWED NO SIGN OF OIL BUT DID YIELD AN ORGANIC SHEEN. A PEBBLE BEACH TOWARD THE WESTERN END OF THE SEGMENT, WHERE STATE/LOCAL REYS RECALLED OIL BEING PRESENT IN 1990, SHOWED NO SIGN OF OIL.

OG COMMENTS: This segment consists of an irregular shoreline having a bedrock-banded slope with small pebble-cobble, pocket beaches (10-100m). The ASIP survey of this area showed that the most concentrated oil occurs at the eastern end of the segment consisting of SOR/MS up to 2 cm deep in cracks in splashy to patchy amounts. While the oiling is still present, it has degraded considerably and thicknesses in cracks were less than 1 cm. The extent of the oil is in trace amounts over a 2 b-30 m area. Several areas outside of site A had SOR/MS in trace amounts along the UETZ in cracks and between clasts.



MAP #1

K0111 S1005 A

Subdivision Field Map

Map Key: C01X011101011

Name: D. FitzGerald

Date: 12 May 1961

METERS



AN State Plane Zone 4
90111010050-1000



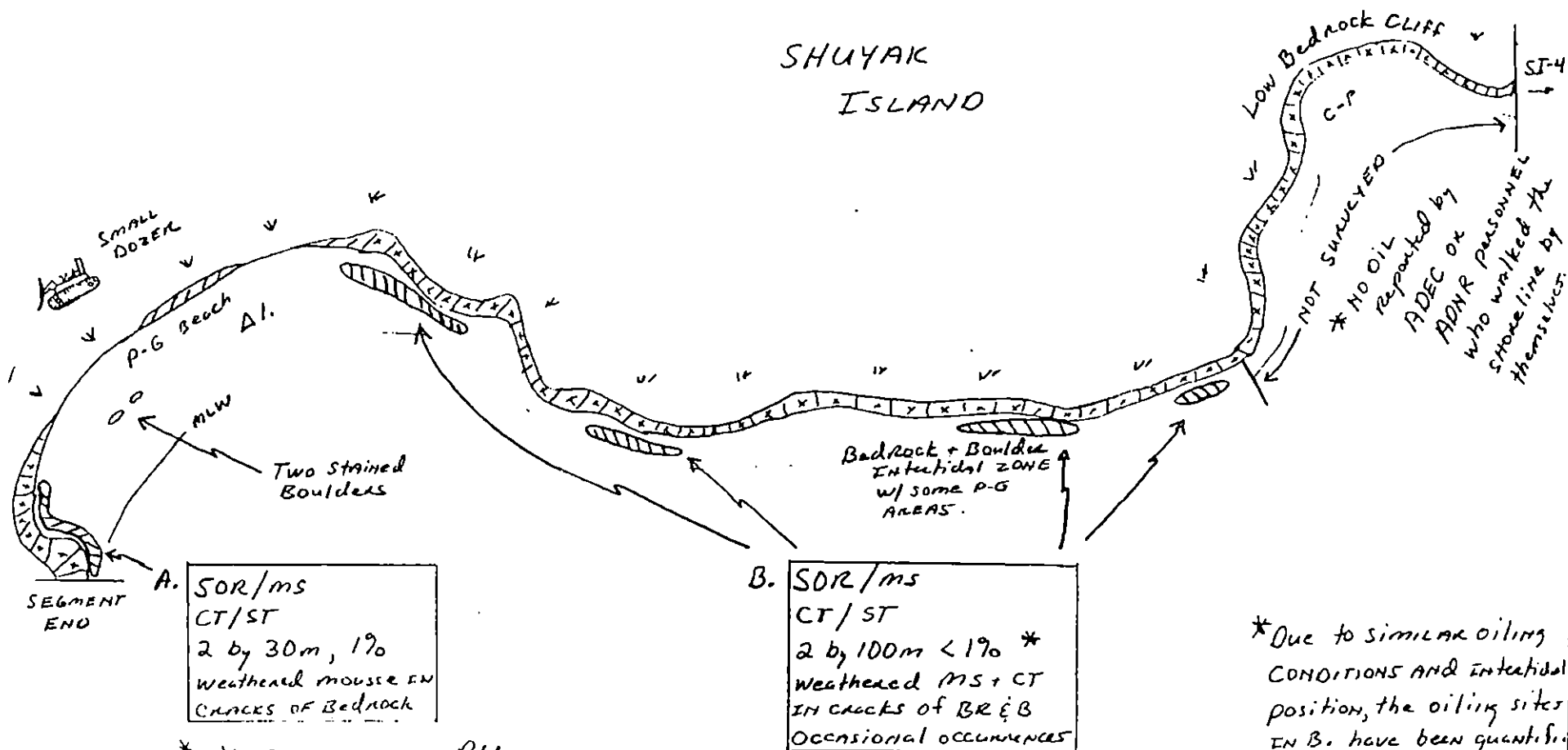
-  Low bedrock cliff
 v w grassy upland
 PHOTO SITES

SKETCH MAP (OG)
 K-01-11
 SI-5-A
 O. FITZGERALD
 12 MAY 1991
 11:10 - 11:55

0 50
METERS



SHUYAK ISLAND



* 1/4 Bag removed P.U.

* Due to similar oiling
 conditions and intertidal
 position, the oiling sites
 in B. have been quantified
 and lumped together.

X A Low bedrock cliff
 v w grassy upland
 ↗ PHOTO SITES

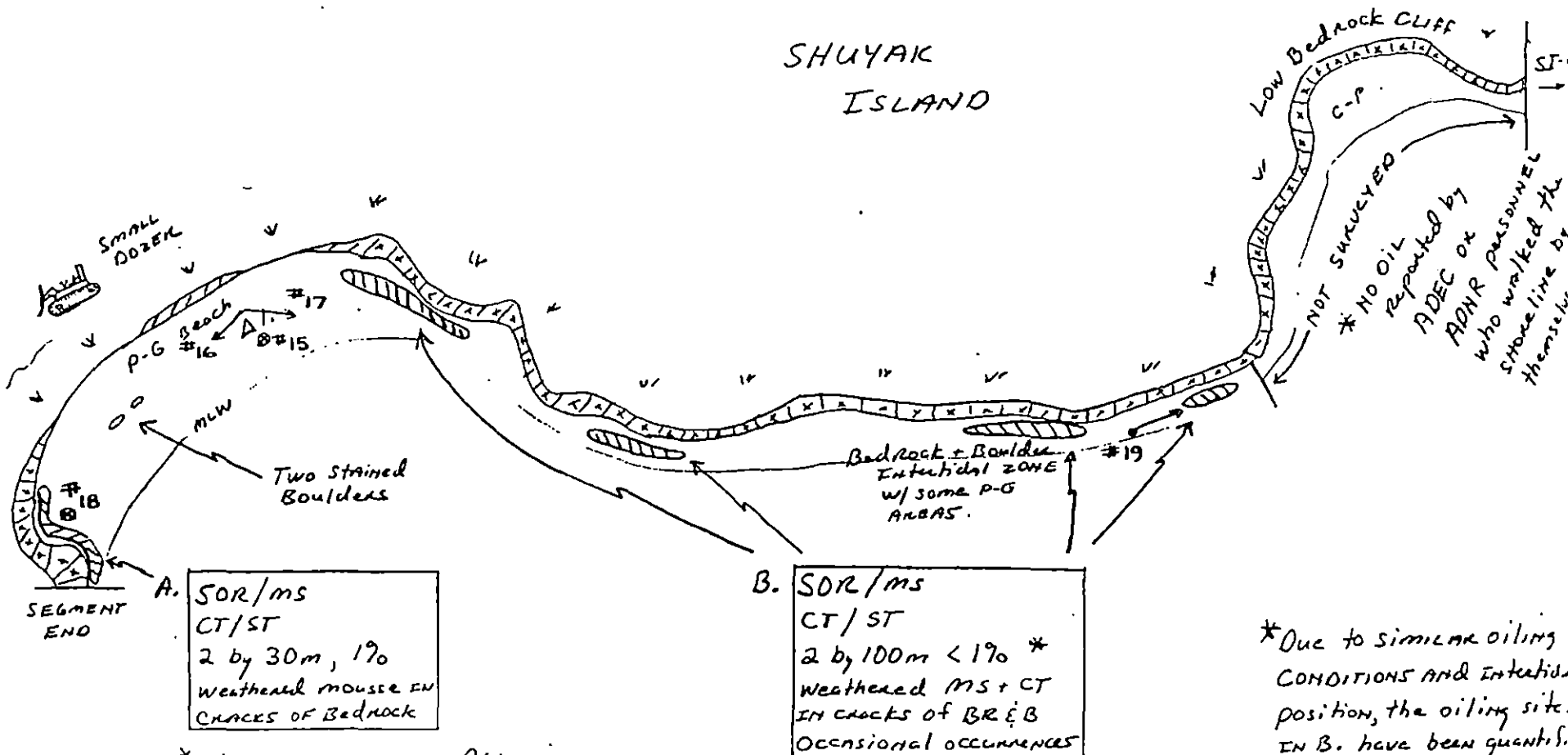
PHOTO SITES, 51-5A
 ROLL 6-12, FRAMES 15-19

SKETCH MAP (OG)
 K-01-11
 SI-5-A
 O. FITZGERALD
 12 MAY 1991
 11:10 - 11:55



0 50
 METERS

SHUYAK
 ISLAND



* 1/4 Bag removed P.U.

* Due to similar oiling conditions and intertidal position, the oiling site in B. have been quantified and lumped together.

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 12 1991

SEGMENT # SI-05

TIDAL HEIGHT(Range) 6ft - 7ft (11 10 - 11 55)

SUBDIVISION A

BIOLOGIST H Davis

SEA STATE 2-3 ft

WIND SPEED/DIRECTION 5-10 mph S

PHOTOGRAPHS: ROLL # 6-12

FRAME # 15-19

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

A. *Verrucaria*, *Littorina* and drift kelp were at the upper end of the area with *SOR/MS* and *CT/ST*. There were "shadows" left in the *Verrucaria* where the oil has worn away. Drift includes *Nereocystis*, *Fucus* and some amphipods. Mussels on the slope to the water level. Barnacles, limpets and *Fucus* increased in numbers. *Littorina* are most numerous in the top of the *WETZ*. Just below Site A, *adonthalia*, *Ulva* and a few mussels are in patches within a dense cover of *Fucus*.

B. The *SOR/MS* and *CT/ST* start at the *Verrucaria* level and extends down past propagula increasing #s of barnacles, limpets and *Fucus*. *Littorina* are most numerous at the *SOR/MS* level. Below site B, a discontinuous but dense band of *Fucus* is mixed in with small pools of *adonthalia*, *scytosiphon*, *Ulva* (green algal blades) under boulders were *Sipunculus*, *anactinia* and *pagurus*.

There is a sea bird colony on a island to the north-west of this site

Cleanup in this area would be more disruptive than productive.

Kittiwakes (710) Red-necked Phalaropes (25) oystercatchers (4) Scoter sp (3) Puffin (1)

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1 adult	0
Seabirds	0	-	
Waterfowl	1	3	
Gulls/Kittiwakes	1	> 10	
Shorebirds	2	29	
Corvids	0	-	
Other Birds	0	-	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Deer, Deer Tracks	2
Pinnipeds (specify)	0		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

-  Low bedrock cliff
 grassy upland
 PHOTO SITES

Bio Map
H. Davis

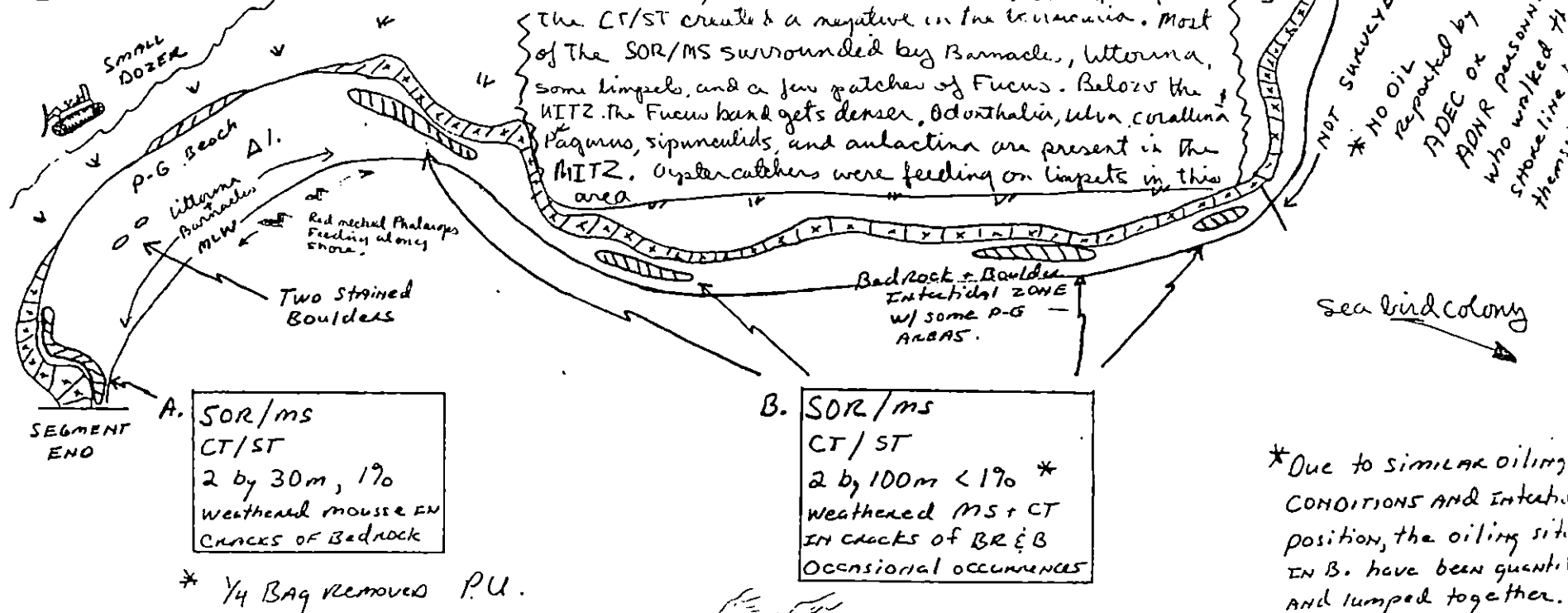
Sketch MAP ~~for~~
 SI-5-A
~~2-February~~
 12 MAY 1991
 11:10 - 11:55

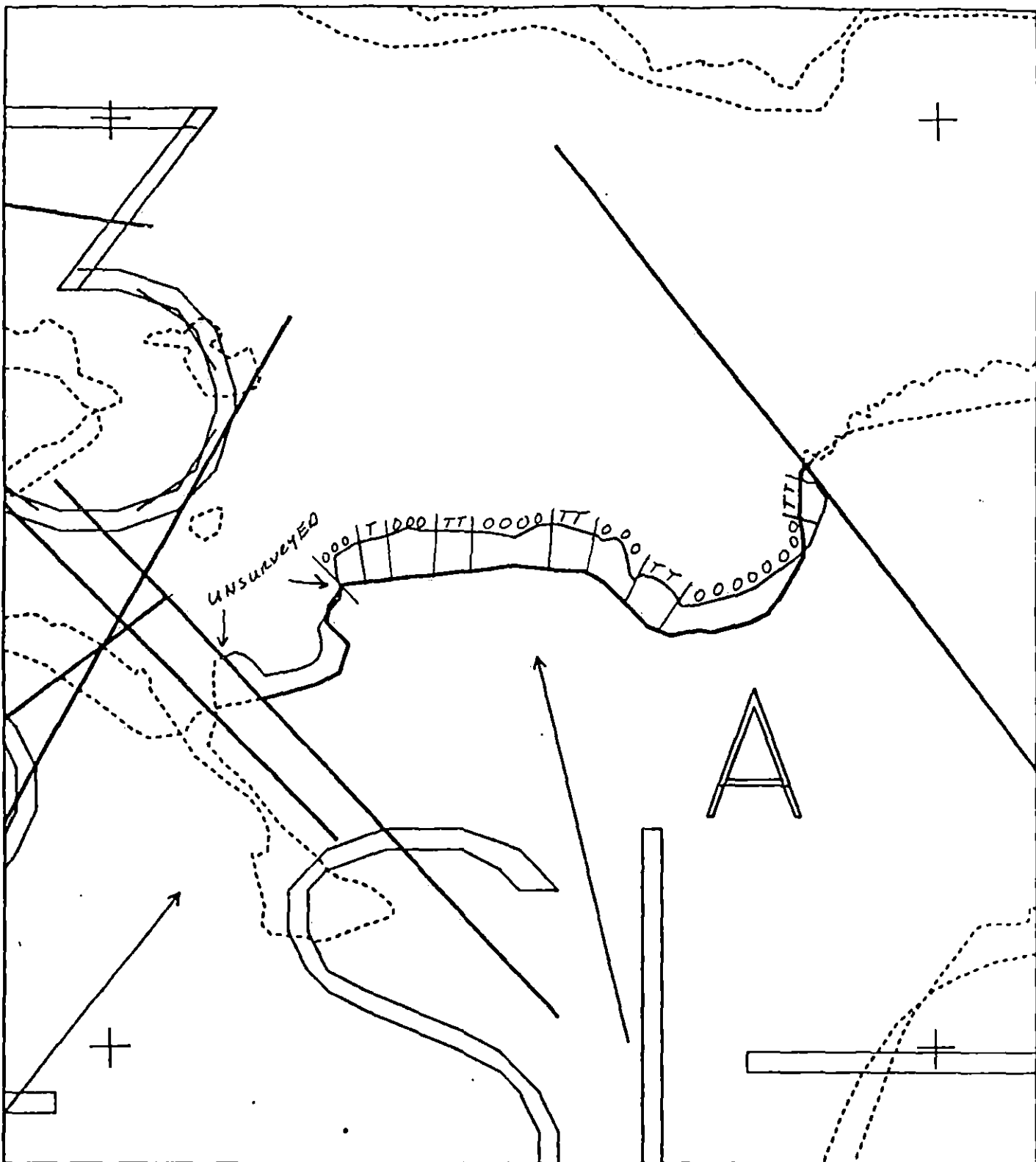
A. This area was to the north-east of a gravel beach with very little biota. Barnacles and littorina were sparse on the beach but almost 90% of the biota there. The SOR/MS extends from the verucaria, porphyra band down into the barnacle littorina-impet-zone. On the verucaria the CT/ST has left shadows where it has worn off. These shadows are filling in with filamentous greens. There are a few small mytilus in crevices.

0 50
METERS

SHUYAK ISLAND

B. The SOR/MS, CT/ST was in the UITZ. In a few spots the CT/ST created a negative in the verucaria. Most of the SOR/MS surrounded by Barnacle, littorina, some limpets, and a few patches of Fucus. Below the UITZ the Fucus band gets denser, Odonthalia, ulva, corallina, Pagurus, sipunculids, and anactinia are present in the MITZ. Oystercatchers were feeding on limpets in this area.





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

K0111 S1005 A
 ADEC Subsegment Length: 570m
 METERS

0 100 200
 AK State Plane Zone 6
 601111005A



Subdivision Field Map
 Map Key: 60AK0111S1005A
 Name: D. Fitzgerald
 Date: 12 May 1991
 Date Entered:

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-12-SS-009 STREAM NO: 251-50-10045 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Note seabird colony and eagle nests.

ARCHAEOLOGICAL CONSTRAINTS:

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 (564-3276 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Rechel Dan Orin DATE: 5/22/90

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: Recommend manual removal of tarballs and patties in UITZ as indicated on attached sketch map. Contact ADF&G (regarding stream) and USFWS (regarding eagle nests) for work dates.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90

ADEC	ART WEINER	Art Weiner
EXXON	ANDY TEAL	Andy Teal

NOAA Gary Petrocos Amy Polgar
USCG C.A. REITER C.A. H.

FOSC: *[Signature]* DATE: *[Signature]*

USCG G.A. KEITER G.A. Keiter

MAY 27 1990
MAY 2nd 1990

DO WILLIAM REID

SEGMENT BY 55009

STREAM 51-10-10045

DATE 1/1/90

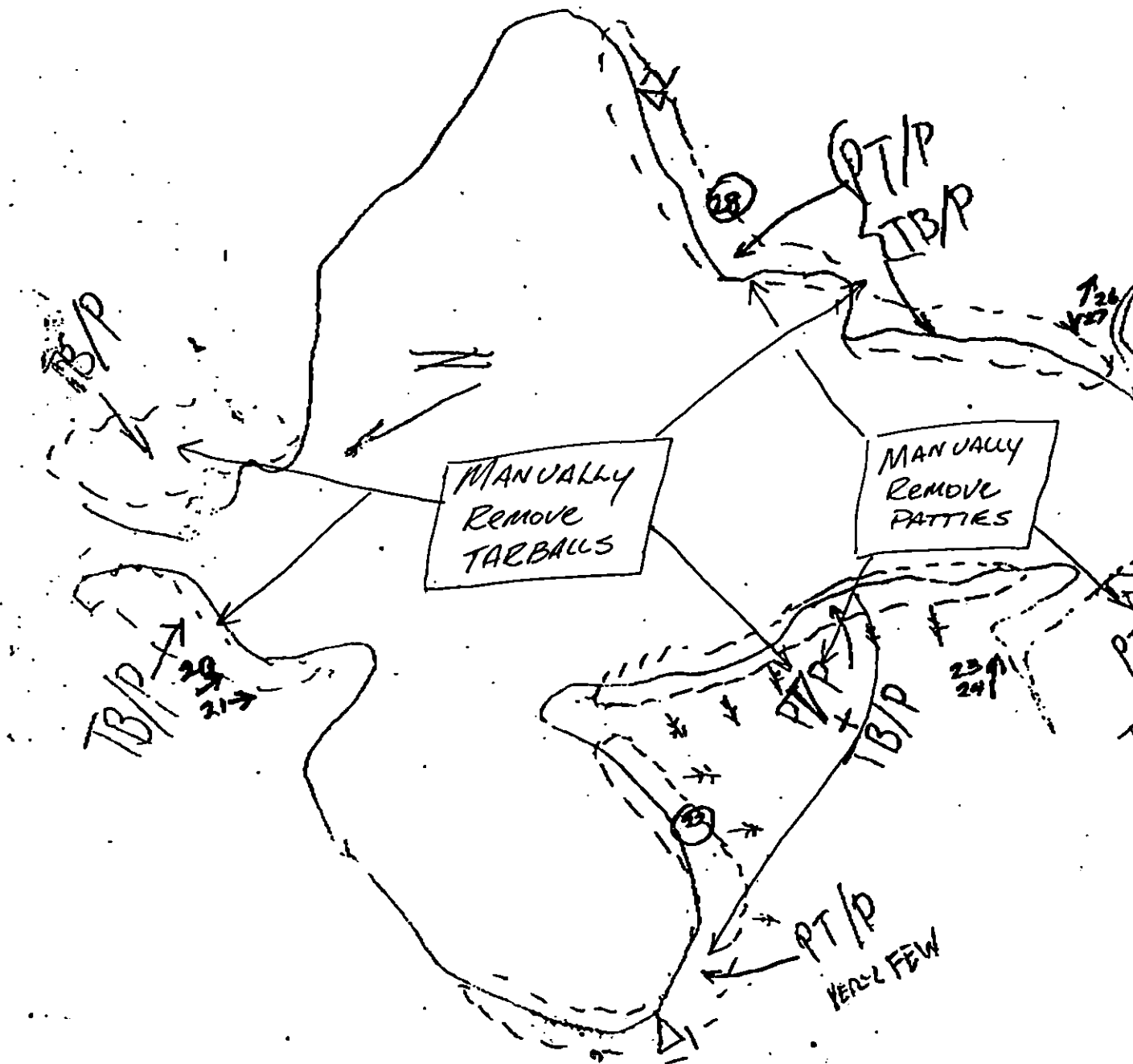
CHECKLIST

- ☐ M Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HW/LWR
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH 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
- eee Oiled Vegetation
- 1 ↔ Photo location, direction, and number

SKETCH MAP



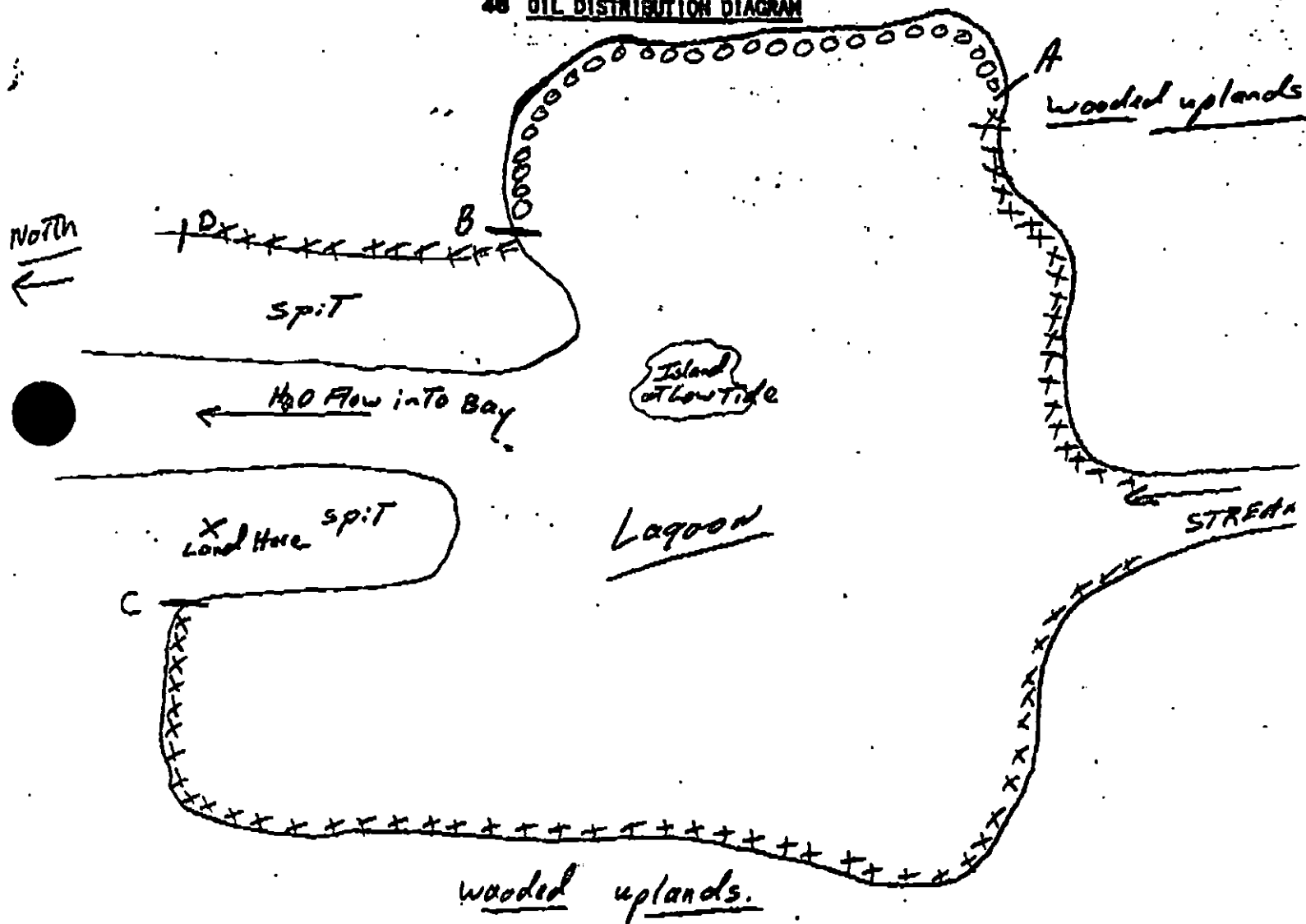
Oil Character Length (m): AP CV CT ST MS PT TB FL NO

48. PHOTOLOG

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



- (ooo) A TO B - no oil observed,
 (xxxx) C TO A - Patchy mussels/tarpatties / Tar balls mostly located in meter band ranging from 1-3 meters from high Tide mark in Lagoon.
 (xxxx) B TO D - Patchy Tar balls / Tar patties at high Tide mark on

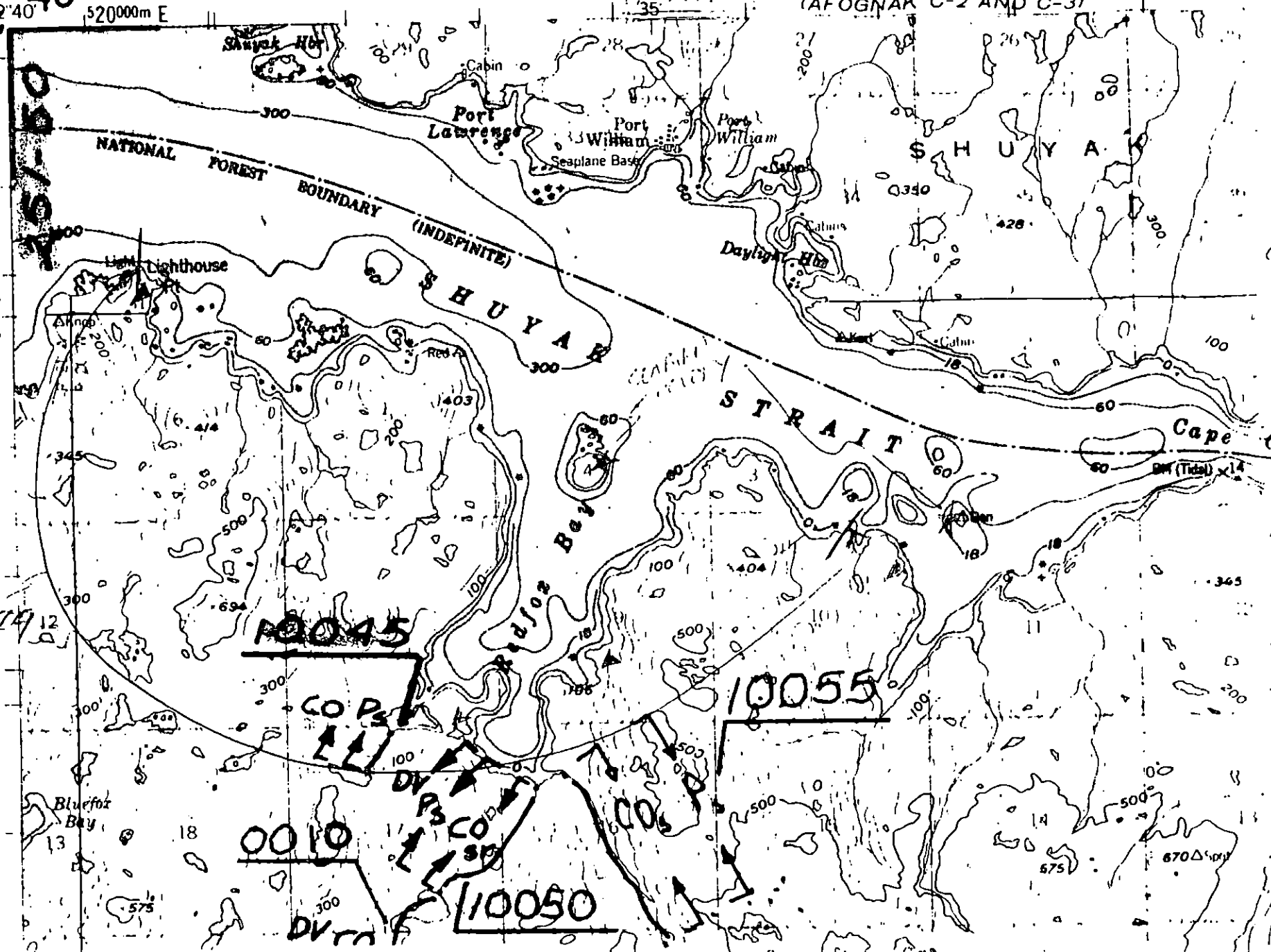
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

152°40'
58°30'
6484000m N

520000m E

FOGNAK C-2 AND C-3

1A, 1B
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100



1 - Bald
LARGE
NEST

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 251-50-10045

SEGMENT K01-12-SS-009 SUBDIVISION A

WORK WINDOW

Manual Pickup

CLOSED*

*Seabird Colony Buffer Zone Blocks Access to Work Area.

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (251-50-10045) is in Subdivision A. No constraint to manual pickup.

5R Seabird Colony

CONSTRAINT. Work site is more than 800m from seabird colony, but access is blocked.

5T Bald Eagle Nest

USFWS 4/9/90 map indicates an active nest in Subdivision A. Closed manual pickup to within 400m of active nest. No constraint to manual pickup more than 400m from active nest.

OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to unrolled biota and substrate. If eagle constraint is removed, other constraints will apply.

SEE SUBDIVISION CONSTRAINT ADDENDUM K01-12-SS-009
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

B. J. J. J.

Date

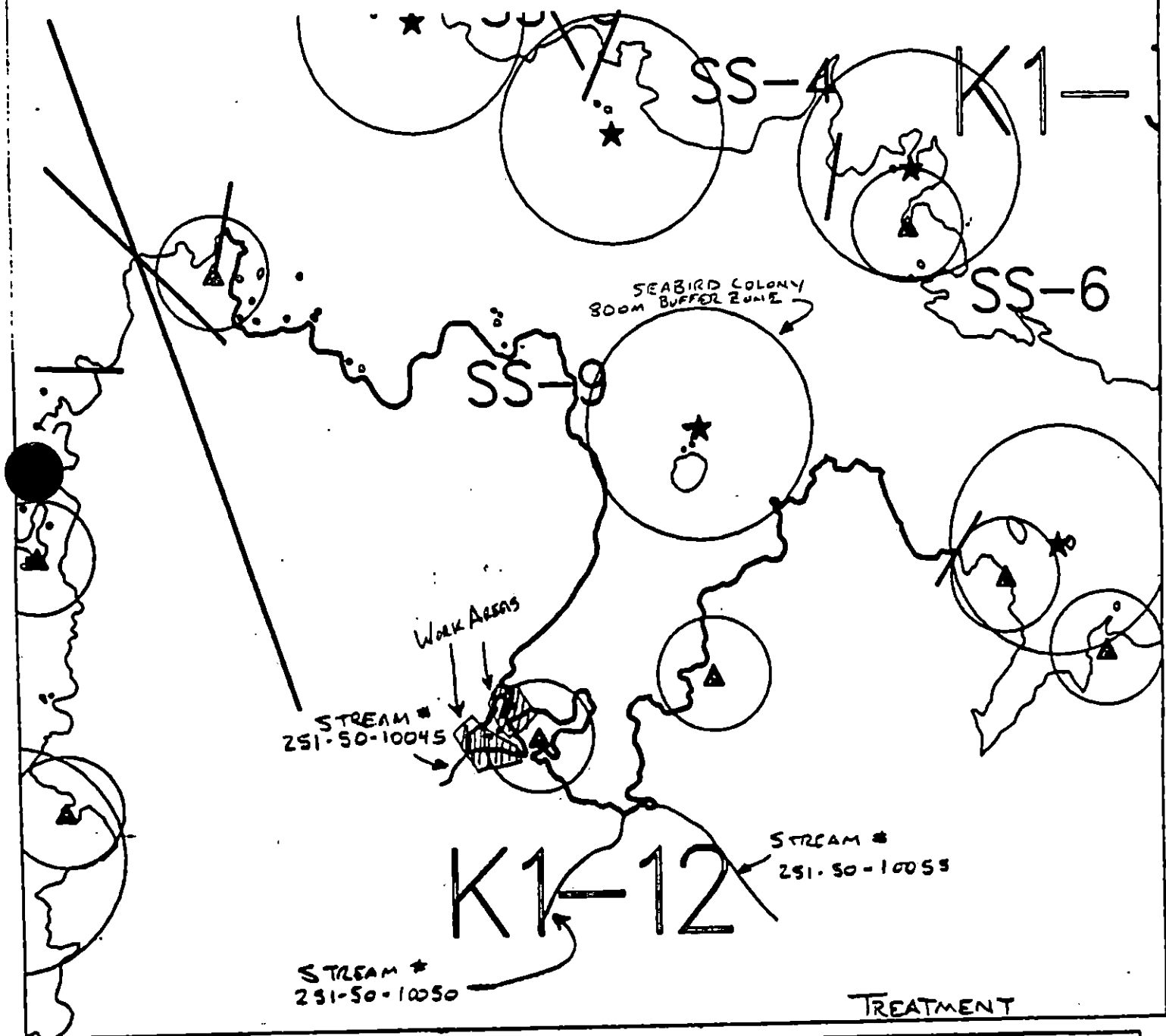
6/14/90

Prepared by

D. L. Coulter

Date

06/13/90



Exxon Company, USA
 Map Key: K00-SS-9
 June 08, 1990



ECOLOGY MAP
 SEGMENT K1-12 SS-9
 SUBDIVISION A (1 of 1)
 METERS
 0 1000 2121

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

1 inch = 3479 feet

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-12-SS-009 STREAM NO: 251-50-10045 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Note seabird colony and eagle nests.

ARCHAEOLOGICAL CONSTRAINTS:

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 (564-3276 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Rebel Dan Owen DATE: 5/22/90

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 tarballs and patties in UITZ as indicated on attached sketch map. Contact ADF&G (regarding stream) and USFWS (regarding eagle nests) for work dates.

SEE CONSTRAINT ADDENDUM
DATED 06/13/90 Rev C.

TAG COMMENTS:

TAG APPROVAL DATE: 5/18/90

ADEC Art Weiner
EXXON Andy Gar
NOAA Gary Peterson
USCG G.A. Reiter

FOSO: [Signature] DATE:

MAY 17 1990

"REVISED" ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 251-50-10045

SEGMENT K01-12-SS-009 SUBDIVISION A

WORK WINDOW

Manual Pickup More Than 400m From Active Nest	OPEN
Manual Pickup Less Than 400m From Active Nest	OPEN (USFWS MONITOR REQ.)

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B	Salmon Stream	ADF&G catalogued anadromous stream (251-50-10045) is in Subdivision A. No constraint to manual pickup.
5R	Seabird Colony	NO CONSTRAINT. Work site is more than 800m from seabird colony. Transit through Seabird Colony approved by USFWS.
5T	Bald Eagle Nest	USFWS 4/9/90 map indicates an active nest in Subdivision A. No constraint to manual pickup more than 400m from active nest. Constraint to manual pickup less than 400m from active nest if USFWS Monitor is present.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to unopened biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM K01-12-SS-009A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

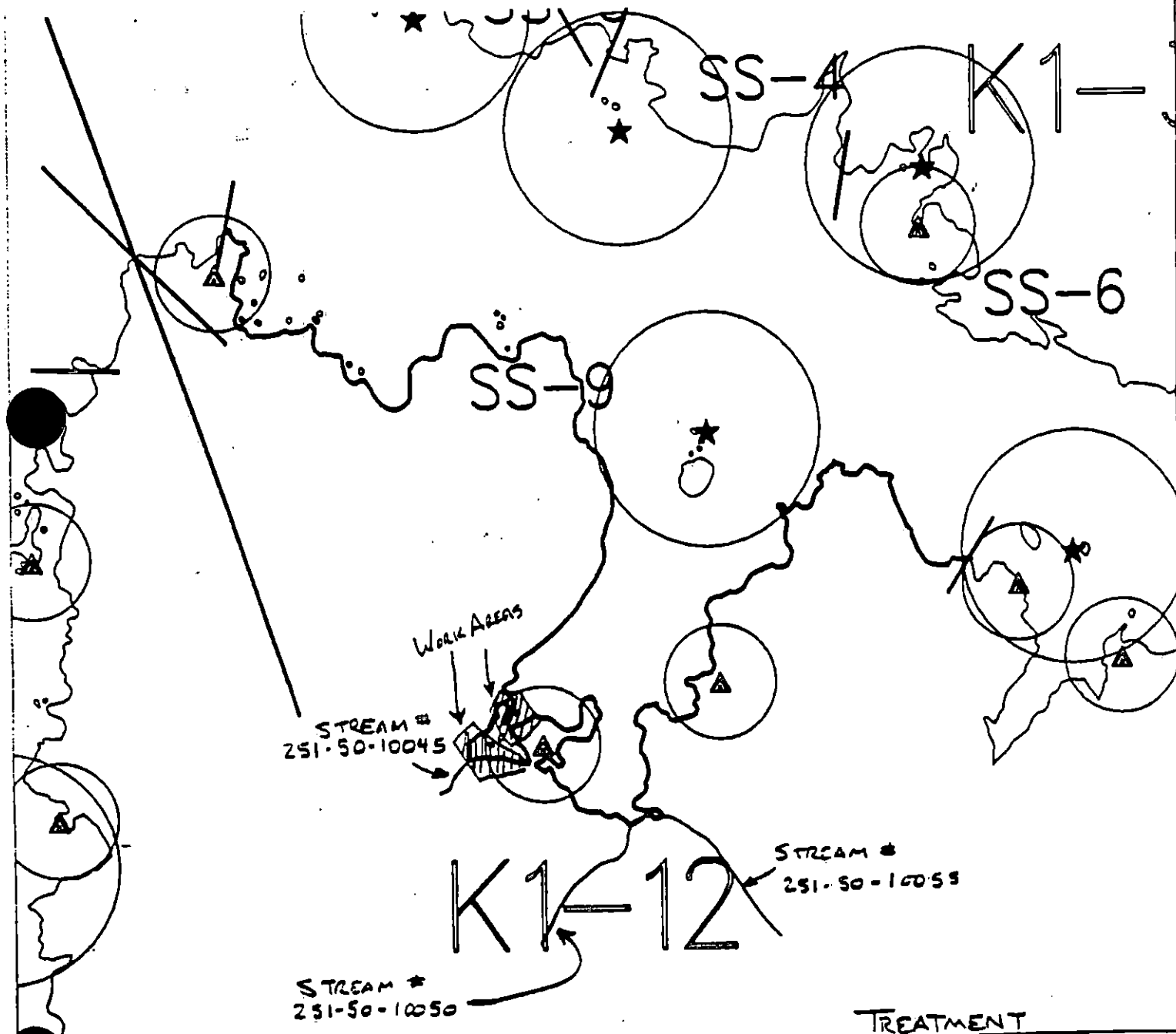
Date

Prepared by

Date

Cleanup may proceed on
 site SS-9 around eagle nest
 and on anadromous stream
 with US Fish and Wildlife Service
 monitor on site Access through
 seabird buffer area OK.

Mike Luke 6/14/90



Exxon Company, USA
 Map Key: KCD-SS-9

ECOLOGY MAP
 SEGMENT K1-12 SS-9
 SUBDIVISION --- (--- of ---)
 METERS

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

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-12-SS-009 STREAM NO: 251-50-10045 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Note seabird colony and eagle nests.

ARCHAEOLOGICAL CONSTRAINTS:

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 (564-3276 (Anchorage) or 229-1508 (24 hrs.)).

HPO SIGNATURE: Richard J. Doe DATE: 5/30/90

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 tarballs and patties in UITZ as indicated on attached sketch map. Contact ADF&G (regarding stream) and USFWS (regarding eagle nests) for work dates.

REVISION 1

SEE CONSTRAINTS ADDENDUM DATED 6/20/90

SEE CONSTRAINT ADDENDUM
DATED 06/13/90 Rev C.

TAG COMMENTS:

TAG APPROVAL DATE: 5/18/90

ADEC Art Weimore
EXXON Amy Galt
NOAA Gary Petro
USCG G.A. Heiter

FOSO: [Signature] DATE:

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K01-12-SS-009

SUBDIVISION: A

STREAM NO: 251-50-10045

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-12-SS-009 STREAM NO: 251-50-10045 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Note seabird colony and eagle nests.

ARCHAEOLOGICAL CONSTRAINTS:

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 (564-3276 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: _____ DATE: _____

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 tarballs and patties in UITZ as indicated on attached sketch map. Contact ADF&G (regarding stream) and USFWS (regarding eagle nests) for work dates.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

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. Contact ADF&G Habitat Division prior to treatment for permits.

1C Salmon fry nursery area (4/31 to 7/31)

1D Kotot 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 (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 (8/1 to 9/30)

7HH Finfish harvesting

7I 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.

8888



3/18

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 15007 SUBDIVISION: _____ DATE 5/1/70USCGNAME CWO McMath SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PUTTIES
(PER MAP)

ADFGADFCNAME JEFFREY BARNHART SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Type A manual cleanup of puttios / Tar balls

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY (ANAD) 13/18

OG WILLIAM LEID USCG McMAHON SEGMENT STI SS009
 BIO MICHAEL FAWCETT LAND REP STREAM 25-16-1000
 EXXON GUS GARCIA ADFG ADFG 1000 DATE 10:30 12:10
 TEAM NO. 15 TIDE LEVEL +1.8 to +3.7 ft DATE 1 MAY 90
 EST. SUBDIVISION LENGTH: 750 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 10 % B 30 % C 60 % S 0 % M 0 % V
 SLOPE: Long 75 % Hang 25 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 700 m M 0 m N 0 m VL 0 m NO 50

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 0 B

NEAR SHORE SHEEN? NO BR RW SL

OILED DEBRIS	AMOUNT			Did You Col DEBRIS ☐ YES ☒ NO
	SM	MD	LG	
Logs				
Vegetation				
Trash				
Debris				

Photographs:

Roll No. AS-15-7

Frames 20-28

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	SURF SUBSURF SEDIM!
		OP	OR	OL	OF	NO		UD	DC	1	2	3	4	5	SU	U	M	V			
1	40					X									X					N	S/P
2	30					X									X					N	S/P

COMMENTS

REVIEWED 7W

DATE 9/3/90

SKETCH MAP

00 WILLIAM REID

SEGMENT BY SS009

STREAM 51-10-10045

DATE 1 / 1 / 90

CHECKLIST

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

LEGEND

1 Δ
PT - No Subsurface Oil

2 Δ
PT - Subsurface Oil

CT/C
Continuous Distribution

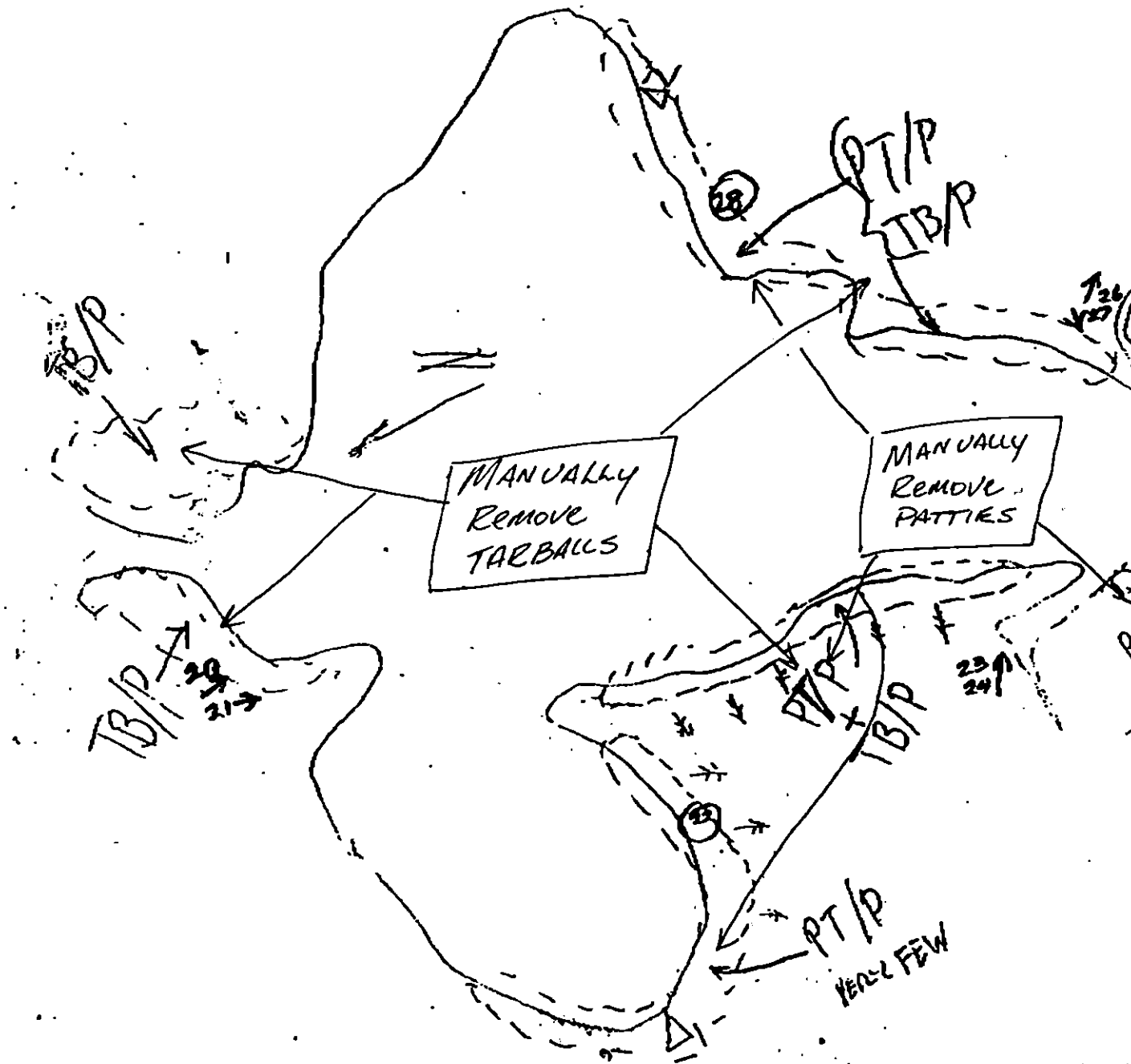
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

eee
Oiled Vegetation

Photo location, direction, and number



Oil Ch Length (mi): AP PO CV CT ST MS PT TB FL NO

REVISIONS

12/10

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SB DS TS AYS SCHA MMS PTA2 REGION: PWS KP, CI KAPMETHOD: Aerial Ground Boat3 DATE: 5/1/9015 HIGH TIDE TIME: 074021 TEAM RECORDED: JEFFREY BARNHART4 START TIME: 105016 HIGH TIDE HTS: 11.122 OBSERVERS: Gus Garcia, William Reid, Mike Focitt, John R. R. R.5 STOP TIME: 121517 LOW TIDE TIME: 143423 AGENCY: ADWG, Exxon, WWC, WWC, USCG6 SEGMENT #: SS00918 LOW TIDE HTS: 0.724 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K-1

20 USCG QUAD: _____

25 VIDEO TAKEN: Y N TAPE: _____9 STAT AREA: 251-50

21 USCG QUAD: _____

Start: _____ End: _____

10 LAT: 58° 14' 48" N22 LONG: 152° 19' 30" W26 SAMPLES TAKEN Y N Number12 SOURCE: Map Loren

Oil _____

13 LOCATION: S.W. Corner Red Fox Bay, Afognak Island

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H	V	L	M	H	V
27 SURFACE COVERAGE	660	2	1320	15	0			
28 SURFACE THICKNESS	1.0m				0			
29 PENETRATION	0	0	0	0	0			

30 OVERALL OIL IMPACT: N VI L N H36 CATALOGED ANAD. FISH STREAM? Y N31 OIL TYPE: Pooled Heuse Tar Asphalt Sticky Stain37 CATALOG # 251-50-1004532 OILED DEBRIS Y N38 STREAM NAME: SW, Red Fox Creek33 SHORELINE TYPE: Headland Lagoon Low-lying Reefs Beach Cove39 OIL IN STREAM BED? Y N34 WAVE EXPOSURE: High Moderate Low40 OIL ON STREAM BANKS? Y N35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 3041 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)Gravel 60 Sand 10 Mud/silt _____

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y (

44 ANADROMOUS FISH OBSERVATION		
Species	Aerial	Ground

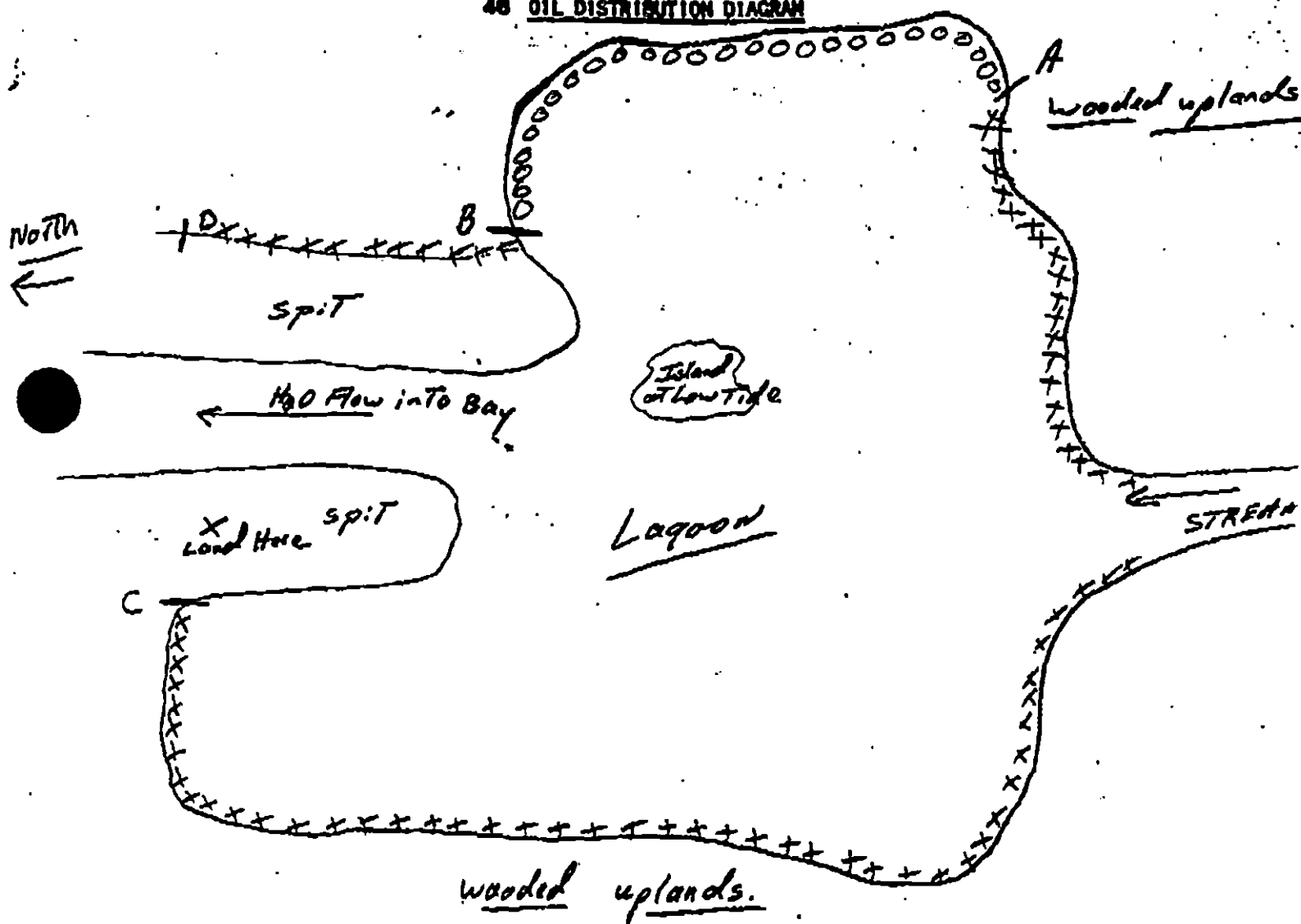
Remarks: Tar patties and Tar Balls (surface) in 1 to 3 meter band located 1-3 meters from high tide mark. Easy Type A cleanup recommended. Low energy, productive lagoon, rearing area for salmon fry, waterfowl area. Jeff Barnhart

48. PHOTOLOG

TIME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



- (ooo) A TO B - no oil observed,
 (xxxx) C TO A - Patchy mussel/tarpatties / Tar balls mostly located in a
 meter band ranging from 1-3 meters from high Tide
 mark in Lagoon.
 (xxxx) B TO D - Patchy Tar balls / Tar patties at high Tide mark on g

15/10

P. 1 of 2

Segment 55009
Stream 251-10-10045
Ecological Summary

1 May 90
Michael Fawcett

At this site three small streams enter the southwest end of a lagoon which drains to the north. The intertidal banks of the lagoon are composed of pebbles, gravel, sand, and mud. The lagoon bottom is mostly soft mud with infaunal clams, echinoids, worms, etc. Around most of the lagoon banks are scattered Fucus, barnacles, and Littorines in the MTZ, with higher densities near the stream mouths and where coarser sediments (pebbles & cobbles) prevail. Dense barnacle spat occupy nearly all available hard substrates in the MTZ, and in some areas in the VTZ. On the northeast side of the lagoon mouth is a very dense, mature mussel bed, with dense barnacles and Fucus on all spaces not occupied by mussels, and nearly 100% cover of new barnacle spat on mussel shells, larger barnacles, rocks, etc. This mussel bed is exposed to strong currents as the tide rises and falls, providing an abundant supply of food.

P. 2 of 2

Segment 5509

251-10-10045

1 May 90

Michael Fawcett

Ecological Summary

all around the lagoon. Manual removal is recommended. Little or no oil occurs in the areas of high mussel density, so no ecological constraints apply re: intertidal biota.

Michael H. Fawcett

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

152°40'
58°30'

520000m E

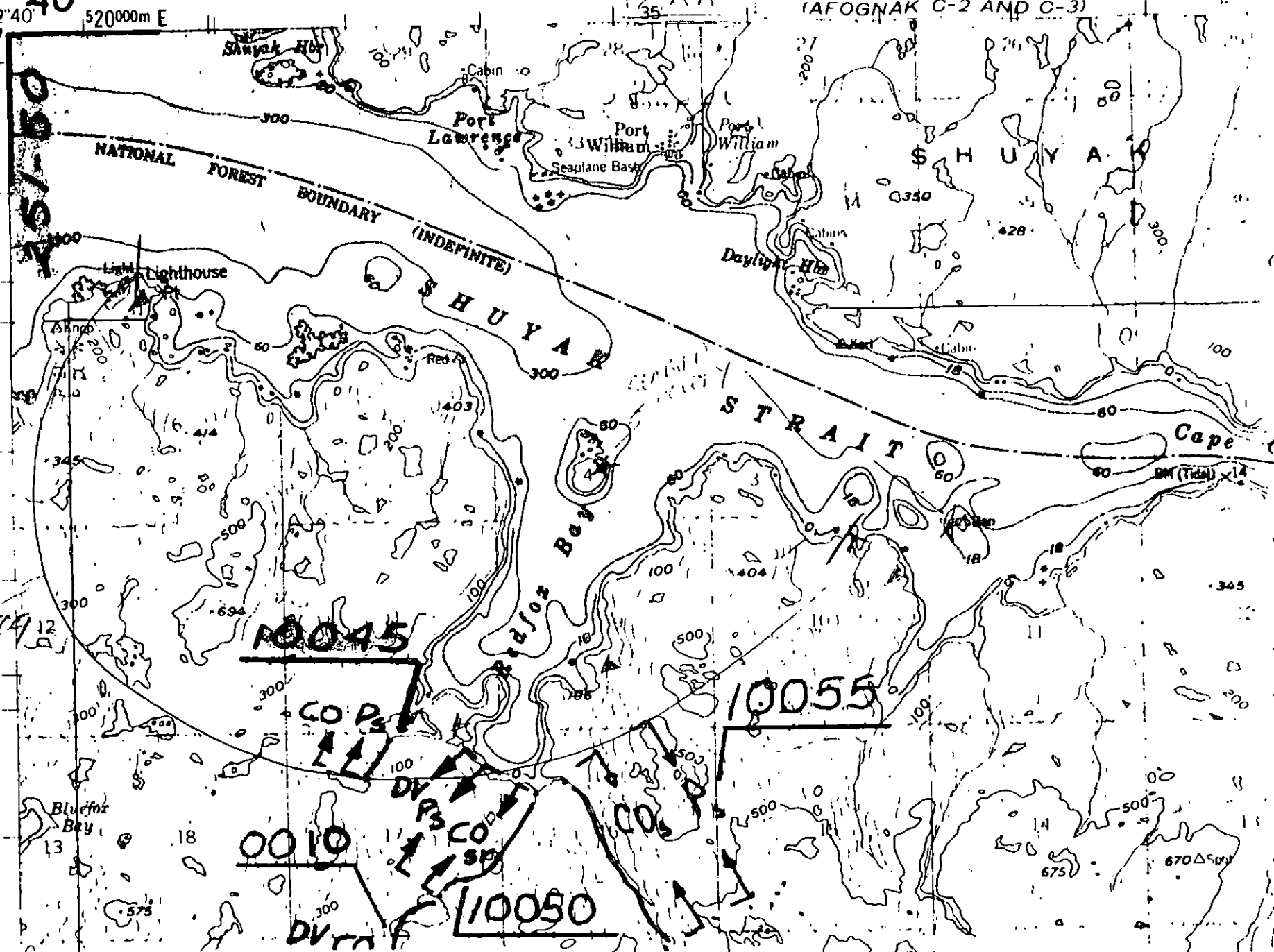
6484000m N

NATIONAL FOREST BOUNDARY (INDEFINITE)

ECOLOGICAL DATA

1A, 1B
C-2
C-3

(AFOGNAK C-2 AND C-3)



SHORELINE EVALUATION

SEGMENT ST/ K1-19-SE-02 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30; Herring spawning (2M) - 4/1 to 6/15; Sea lion pupping (3P) - 5/15 to 7/1; Sea lion molting (3Q) - 8/15 to 9/15.

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 Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles Z. Hoffman DATE: April 4, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 368 m: No Oil 1512 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 removal of mousse patties recommended with small team (2-4 people) between July 1 and July 20, for the least intensive method.

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90

ADEC John Bauer

EXXON Amey Tera

NOAA Burl Wescott

USCG G.A. REITER

FOSC: My L

DATE: 4-19-90

OG A

SEGMENT ST/ K1-19-SE-2

SUBDIVISION SE-2A

DATE 3 / 31 / 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

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Oiled Vegetation

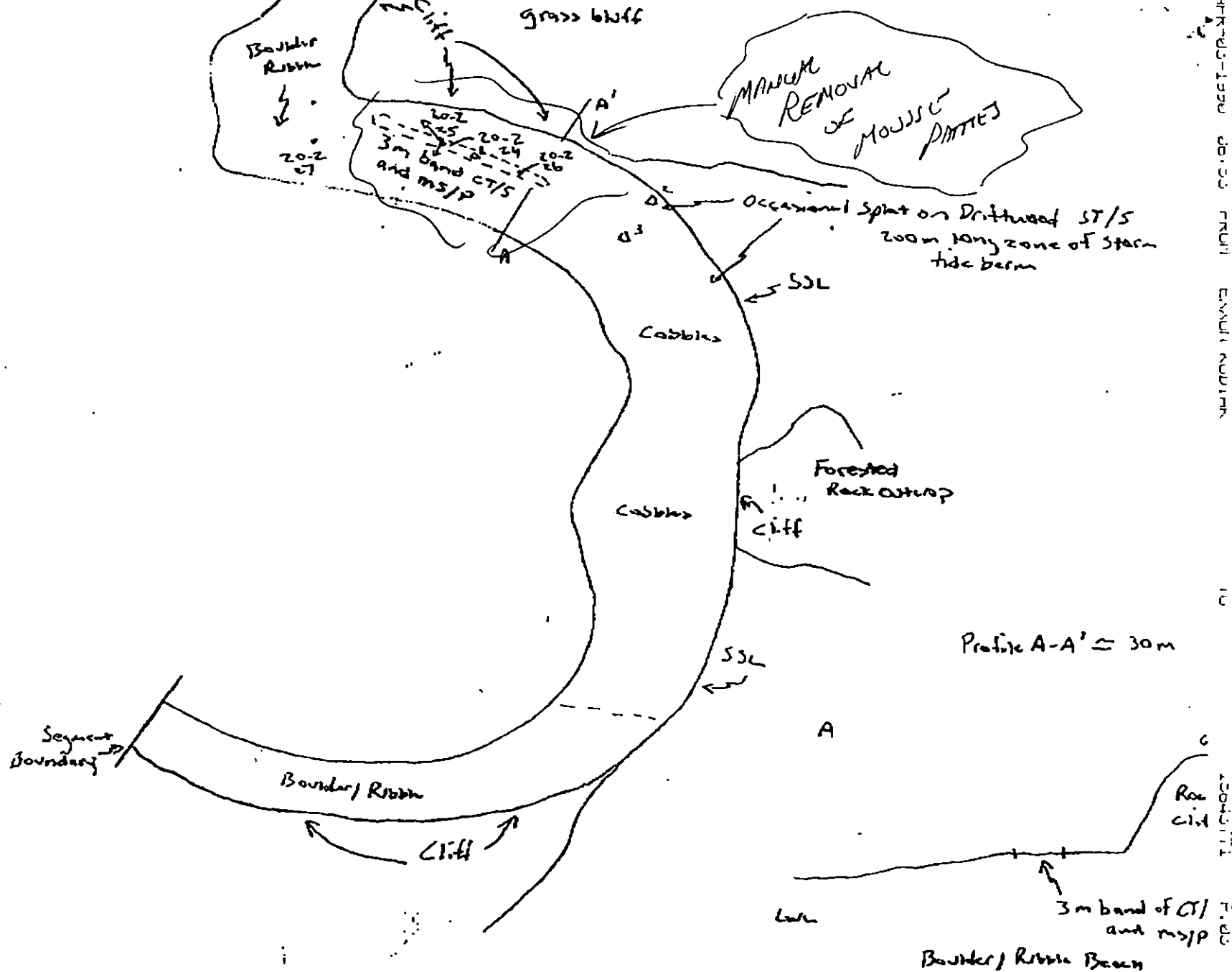
1 $\rightarrow$

Photo location, direction, and number

3m band CT/S and msp/p

ETCH MAP

North
Scale Approx.
1cm $\approx$ 70'



Oil Character Length (m): AP C PO C CV C CT 225 ST C MS 225 PT C TB C FL C NO 1400

13916

REVISION: 03/24/90

K1-19-SE-2A

SE

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

SE-2

ADEC Segment Length: 1846m

0 100 200 300
METERS

Map Key: GOA-38

Name: Acton

Date: 3-31-90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K1-19-SE-02 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	WORK 7/1 - 8/15

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1J	Purse Seine Area	No constraint to manual pickup.
2M	Herring Spawning	No constraint to manual pickup.
3N,O,P,Q	Harbor Seal & Sea Lion Pupping and Molting	No constraint to manual pickup 7/1 to 8/15
5R	Seabird Colony	No constraint to manual pickup, but follow established USFWS route through seabird colony buffer zone as described on attached map.

OTHER ECOLOGICAL CONSIDERATIONS

Do not chase or harass seals or sea lions, and do not approach pups under any circumstances. When working on or near haulouts, complete the job as quickly as possible with minimum personnel, equipment, noise and disturbance. Keep boats and personnel as far from actual haulouts as is practical to do the work specified. Minimize air traffic near haulouts, maintain elevation as is practical, and avoid repeated overflights of the same haulout areas. Restrict boat traffic to essential minimum. Avoid any unnecessary disturbance or damage to unloiled substrate and biota especially intertidal and subtidal algae and seagrass.

FOSC

R. Zampelli

Date

6/14/90

Prepared by

Rex R. Cantre

Date

06-14-90

1. Work plan described as manual pickups,
2. Crew size up to 20 members.

Mike Luke 6/13/90



TREATMENT



Exxon Company, USA
Map Key: KOD-SE-2
June 10, 1990



ECOLOGY MAP
SEGMENT K1-19 SE-2
SUBDIVISION A (1 of 1)

METERS



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

1 inch = 1314 feet

SHORELINE EVALUATION

SEGMENT ST/ K1-19-SE-02 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30; Herring spawning (2M) - 4/1 to 6/15; Sea lion pupping (3P) - 5/15 to 7/1; Sea lion molting (3Q) - 8/15 to 9/15.

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 Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Hodner DATE: April 4, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 368 m: No Oil 1512 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 removal of mousse patties recommended with small team (2-4 people) between July 1 and July 20, for the least intensive method.

SEE CONSTRAINT ADDENDUM
DATED 06-14-90 Dep C.

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90

ADEC John Bauer

EXXON Andy Tex

NOAA Burl Alcott

USCG G.A. REITER

FOSC: WJL

DATE: 4-19-90

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K02-01-SI-013

SUBDIVISION: A

STREAM NO: 251-81-812

ANADROMOUS FISH STREAM EVALUATION

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 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)
- 5T All Bald Eagle nests (3/1 to 6/1)
- Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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: _____

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 unrolled 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

10/25

ASC# (ANDREAN BAY CREEK)

SEGMENT ST / SI-013 SUBDIVISION: 251-81-812 DATE 01 MAY 98

USCG

NAME Kerwin L. Dreher SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

ADFG
ADEC

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

NO TREATMENT RECOMMENDED DUE TO SPORADIC NATURE OF IMPACT AND WEATHERED CONDITION OF OIL AND LOCATION HIGH ON BANKS. DON'T BELIEVE THIS IMPACT TO BE HAZARDOUS TO FISHERIES.

LAND MANAGER ~~ADNR~~ ADNR

NAME Mike Goodwin SIGNATURE Mike Goodwin

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

NO TREATMENT RECOMMENDED DUE TO MINIMAL OIL PRESENT AND IMPACT TO LAND AND RECREATIONAL VALUES.

SHORELINE OILING SUMMARY (ANAO)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT STI SI 013
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-81-812 (OF)
 EXXON DARLHL YVES ADFG ED WEISS TIME 12:32:00 / 25
 TEAM NO. 14 TIDE LEVEL -0- FT. DATE 5/1/90
 EST. SUBDIVISION LENGTH: 50 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 20 % C 20 % P 20 % G 20 % S 20 % M % V %
 SLOPE: Long % Hang % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 175 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	FC	FB	FP	FR	SP	BP	BP	BP	BP	BP	BP	BP	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE				✓										✓		
PATTIES				X										X		
TARBALLS				✓										✓		
FILM																
NO OIL													✓		✓	✓

PAVEMENT H F S sq. m by crPATTIES / TARBALLS 3 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

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		US	UC	SP	BP	BP	BP	BP	BP	BP	BP	SU	U	M	U				

COMMENTS NO PITS DUG TO LACK OF OIL PENETRATION.REVIEWED 7 W DATE 5/3/90

15/85

SEGMENT STI. SFO13

STREAM 251-81-812

DATE 5/1/90

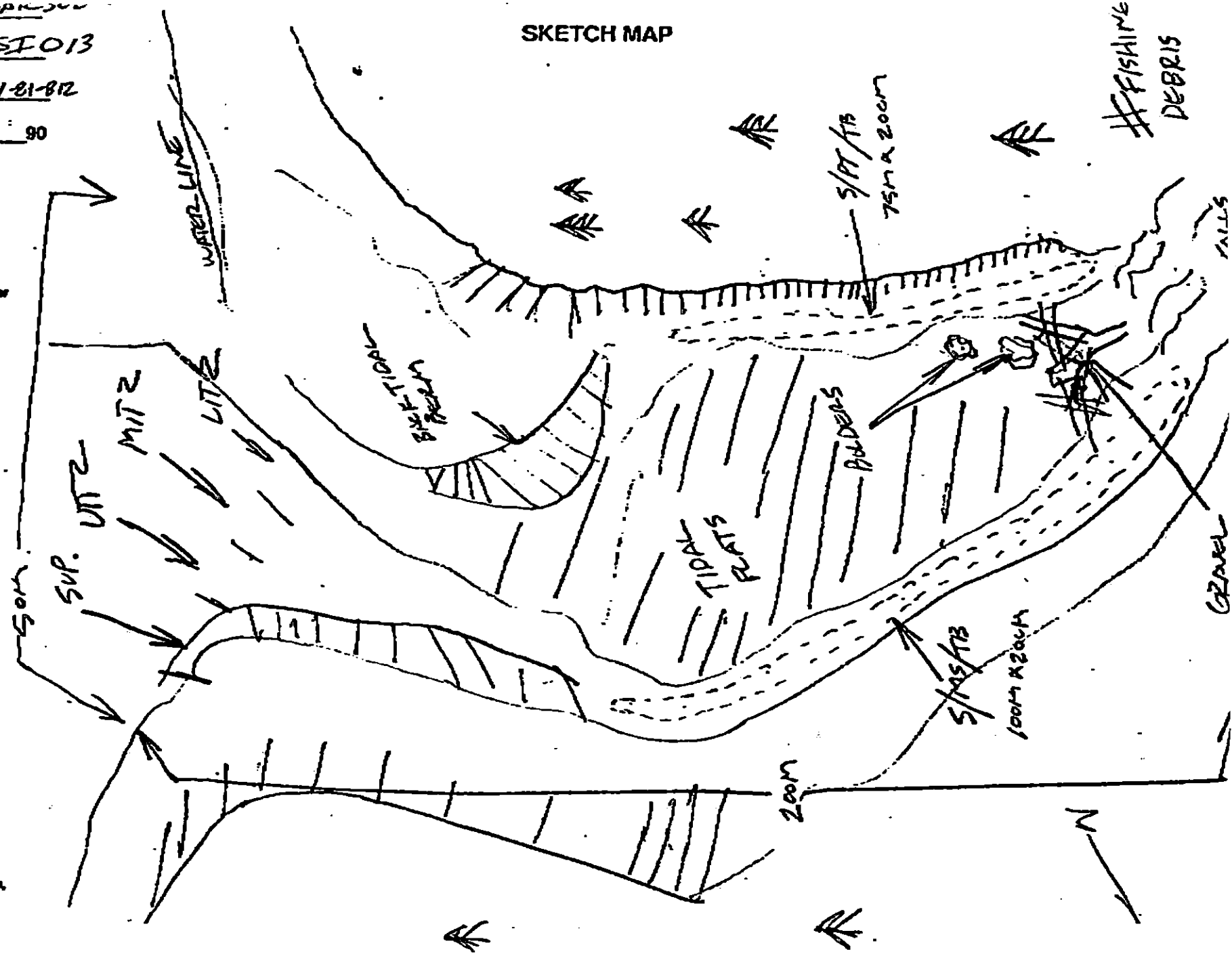
SKETCH MAP

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LVL
- ☐ 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
- Spaced Distribution
- eee
- Oiled Vegetation
- Photo location, direction, and number



16/25

Seg ID: SI-013 Subdiv: 251-81-812
Survey Date: 5/1/90 interim stream no.
Comments by: Ken Critchlow

A very light, scattered band of tarballs was observed in the upper ULTZ along both sides of the stream.

The intertidal biota was very healthy and productive. There were no ecological constraints, and no clear need for oil cleanup for ecological/fisheries reasons.

KRCritchlow

17/25
ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCMA MMS PTA

2 REGION: PWS

NP, CI

QAP

METHOD: Aerial Ground Boat

3 DATE: 5/1/90

16 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1240

18 HIGH TIDE HTS: 1

22 OBSERVERS: M. GOODMAN, K. LAZSO

5 STOP TIME: 1325

17 LOW TIDE TIMES: 1504

23 AGENCY: ADFG/ADNR/EXXON/LLC

6 SEGMENT #: SI013

19 LOW TIDE HTS: .5

24 PHOTOS TAKEN: Y X

7 STATION #: _____

10 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

8 K-UNIT: K0101

ebb Slack Flood Slack

25 VIDEO TAKEN: Y X TAPES: _____

9 STAT AREA: _____

20 USCG QUAD: AFOGNAK

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y X Number _____

12 SOURCE: Map Loran

OIL _____

13 LOCATION: ANDREAN BAY, SHUYAIL ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	H	N	L	V	H	N
27 SURFACE COVERAGE								

36 CATALOGED ANAD. FISH BREAST EX

28 SURFACE THICKNESS								
29 PENETRATION								

37 CATALOG #: 251-81-812

38 STREAM NAME: ANDREAN BAY CREEK

30 OVERALL OIL IMPACT: N VL L M H

39 OIL IN STREAM BED? Y X

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

40 OIL ON STREAM BANKS? X N

32 OILED DEBRIS? Y N

41 OIL ON BEACH ADJACENT TO MOUTH? Y X

(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

Where: _____

Lagoon Marsh

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

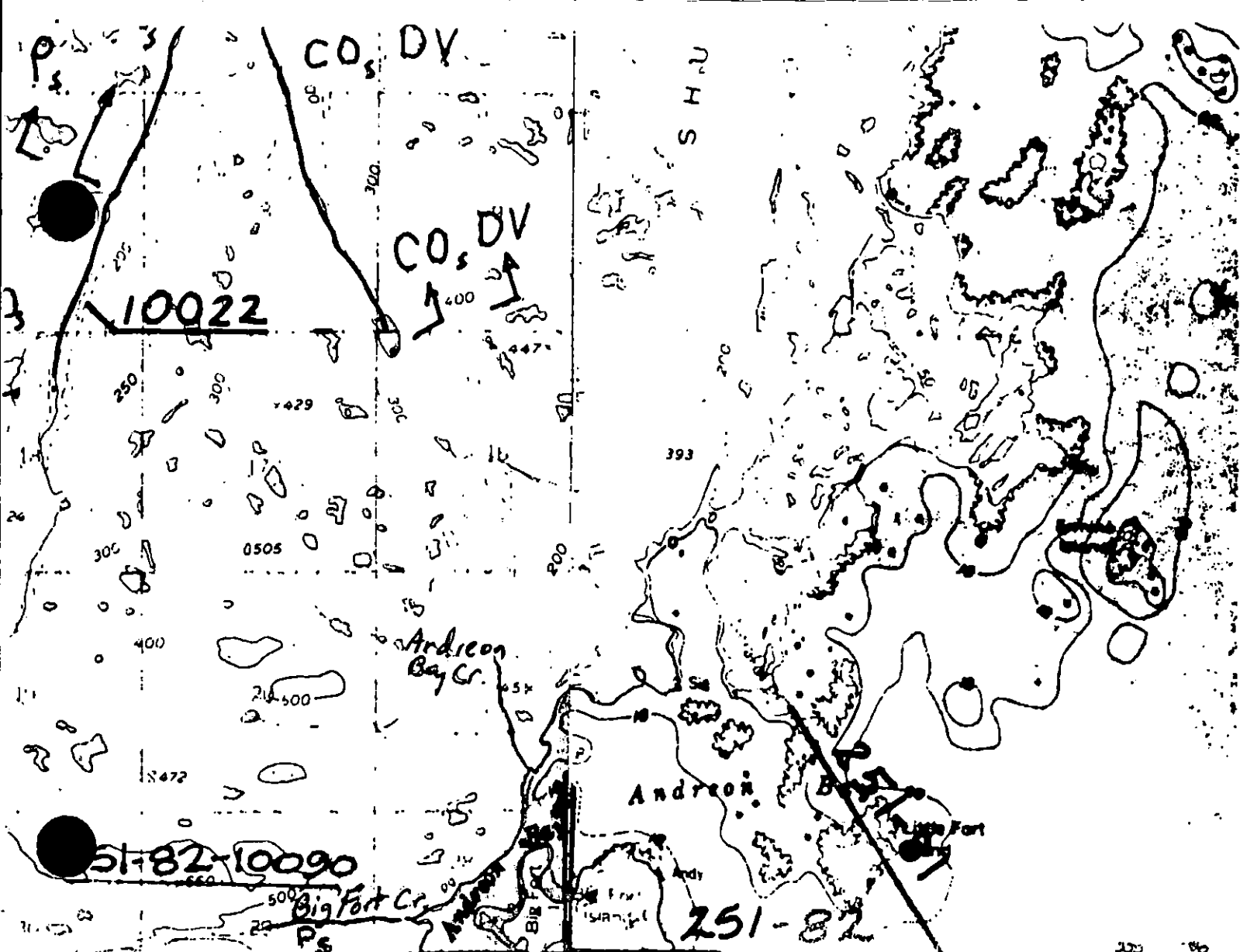
44 ANADROMOUS FISH OBSERVATION

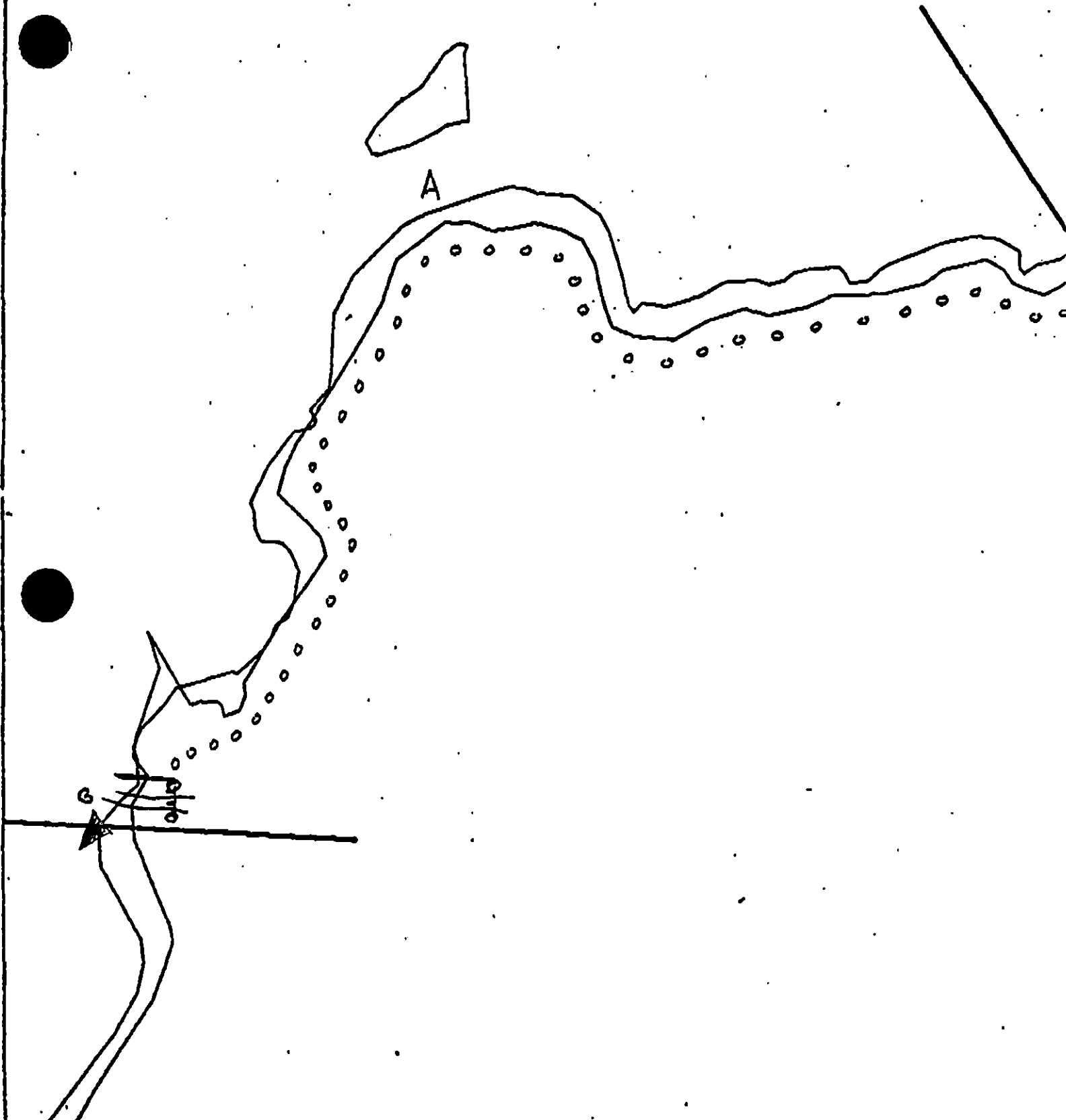
35 SUBSTRATE TYPE: Bedrock Boulder 30 Cobble 50

Species Aerial Ground

Gravel 20 Sand _____ Mud/silt _____

COMMENTS: SPORADIC TAR PATTERNS AROUND COVE MORE ON SOUTH SHORE.





XXX Wide

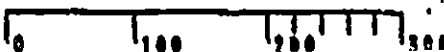
/// Medium

--- Narrow

TTTT Very Light

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-171e

Name: Shoa Penland

Date: 4-4-90

ANADROMOUS FISH STREAM EVALUATION

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 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)
- 5T All Bald Eagle nests (3/1 to 6/1)
- Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel Jean Darr DATE: 5/25/90

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 Weinon
EXXON Andy Tate
NOAA Bill Wescott
USCG W. J. Hall

FOSC: [Signature] DATE: 5/31/90

15/4/95
 SEGMENT STI, STI 013
 STREAM 251-81-812

DATE 5/1/90

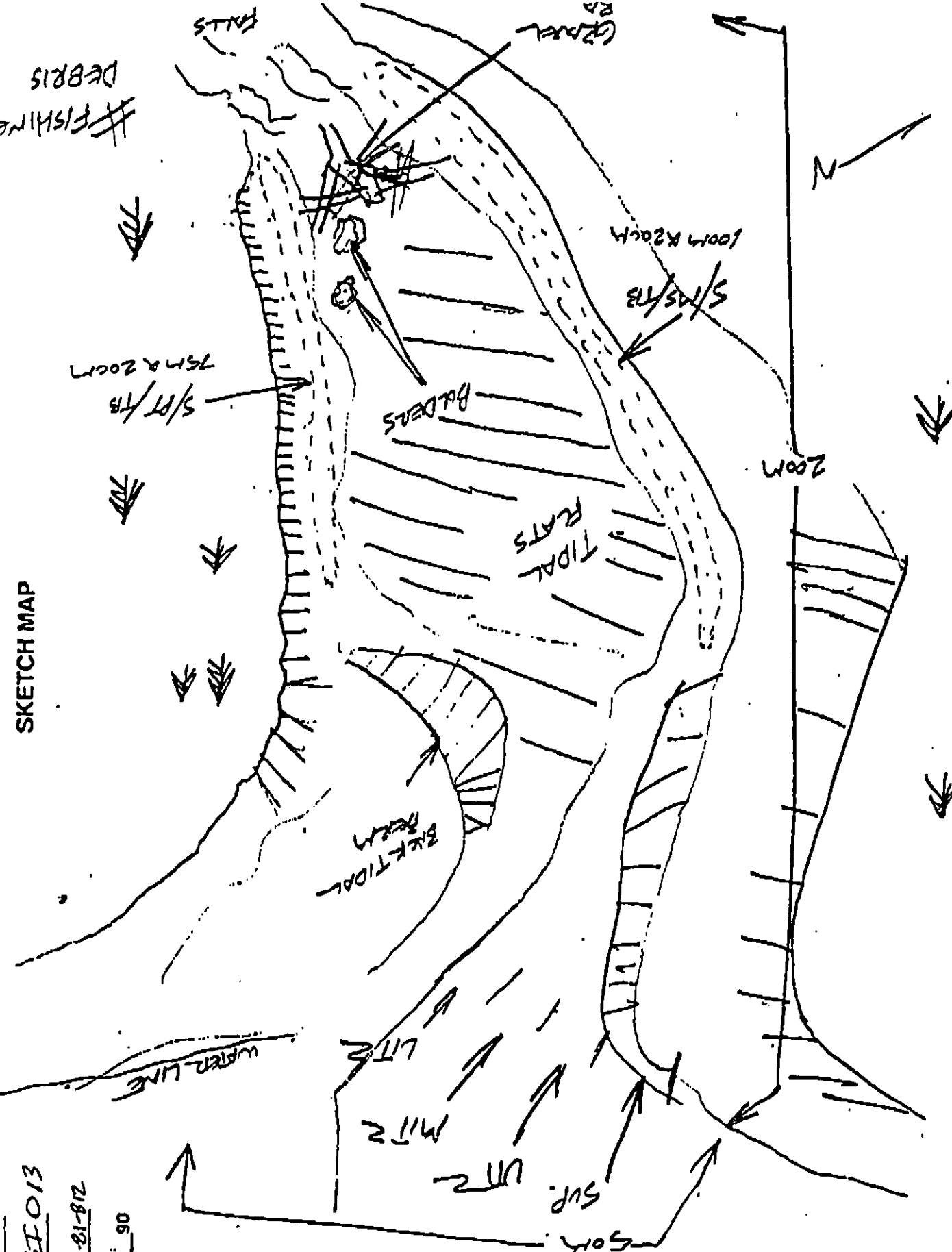
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Sag/Sub Entry
- ☐ Oil Dial
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HGM/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PI Location(s)
- ☐ Photo Location(s)

LEGEND

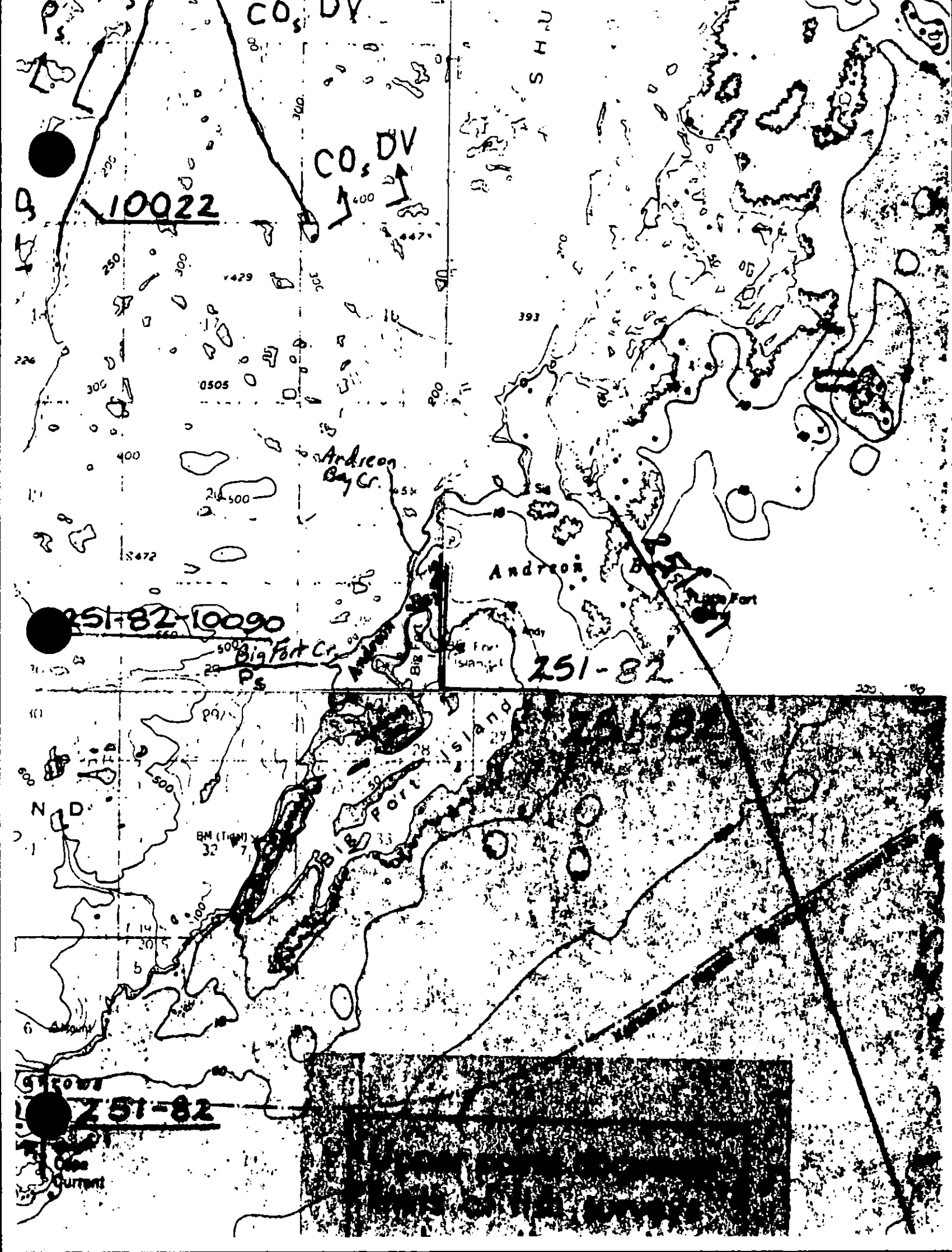
- 1 A
- PI - No Subsurface Oil
- 2 A
- PI - Subsurface Oil
- CT/C Continuous Distribution
- CT/D Broken Distribution
- CT/P Patchy Distribution
- CT/S Splashed Distribution
- ell Eled Vegetation
- Photo location, direction, and number

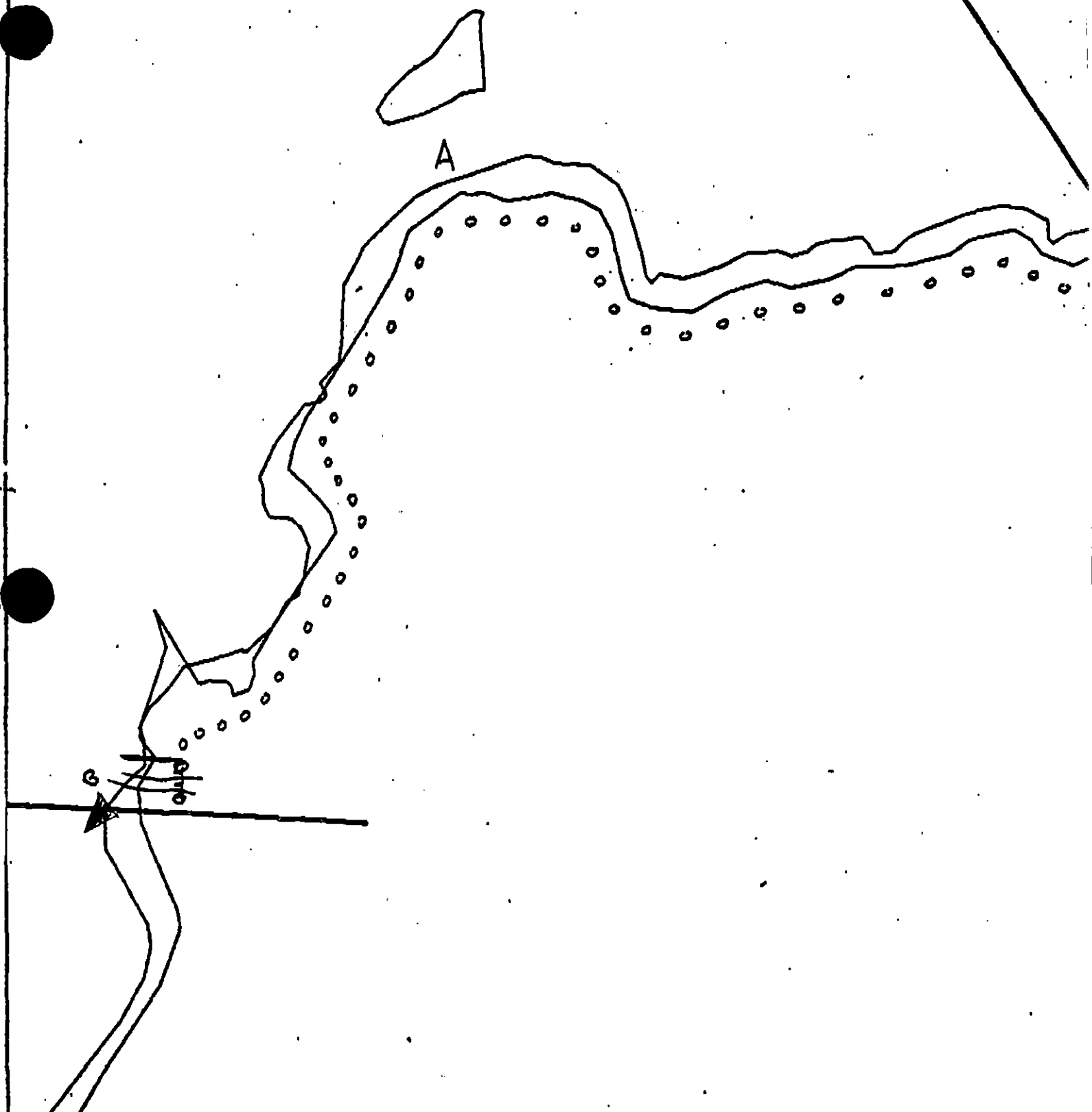
SKETCH MAP



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT 87.5 TB 87.5 FL _____ NO _____

REVISED 2/2/90





XXXX Wide

/// Medium

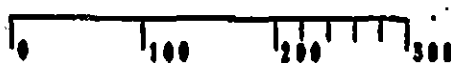
--- Narrow

TTTT Very Light

OOOO No Oil

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-171a

Name: Shes Penland

Date: 4-4-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-003 SUBDIVISION A (1 OF 1) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

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

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

SHPO SIGNATURE: Mark 3 Johnson DATE: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 81 m: No Oil 852 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: 4/11/90
ADEC JOHN BAUER John Bauer
EXXON ANDY TADE Andy Tade FOSC: DATE: 4-26-90
NOAA Burt Wierwille Burt Wierwille
USCG G.A. Reiter G.A. REITER

SEGMENT VI, K0204/FB003

SUBDIVISION 8A

DATE 3/30/90

SKETCH MAP

CHECKLIST

- ☒ N Anow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Off Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est HWA/LWL
- ☒ 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/B

Broken Distribution

CT/P

Patchy Distribution

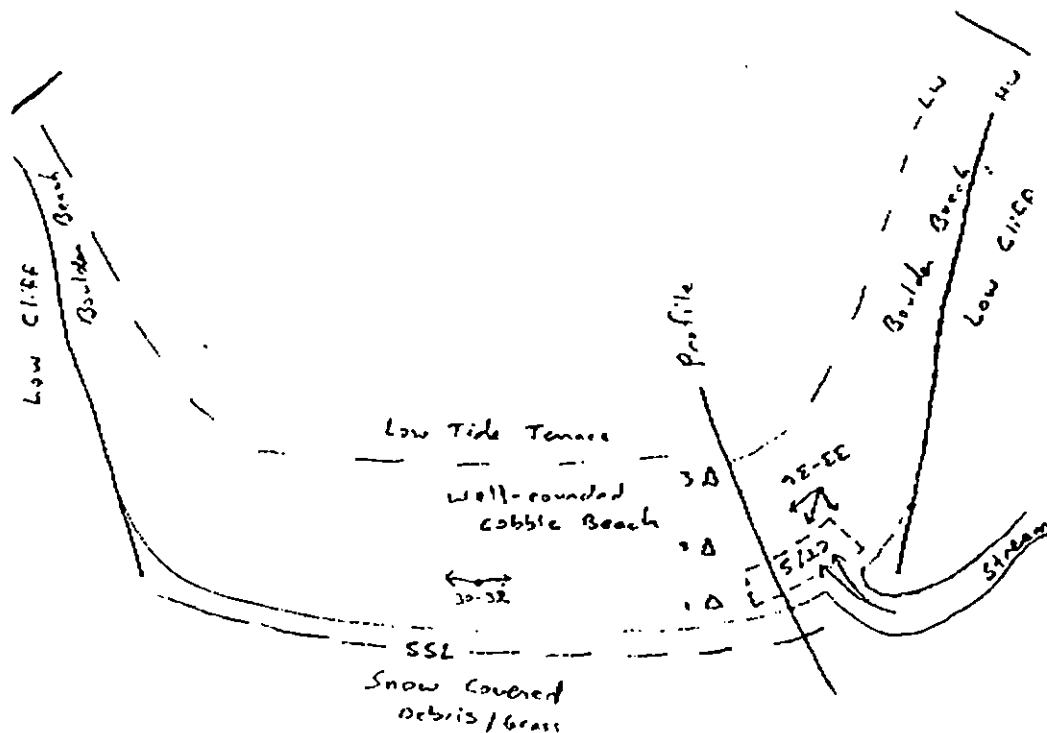
CT/S

Splashed Distribution

Oiled Vegetation

1 →

Photo location, direction, and number



Profile

Debris/Grass

Zone of staining

Cobble/pobble beach face

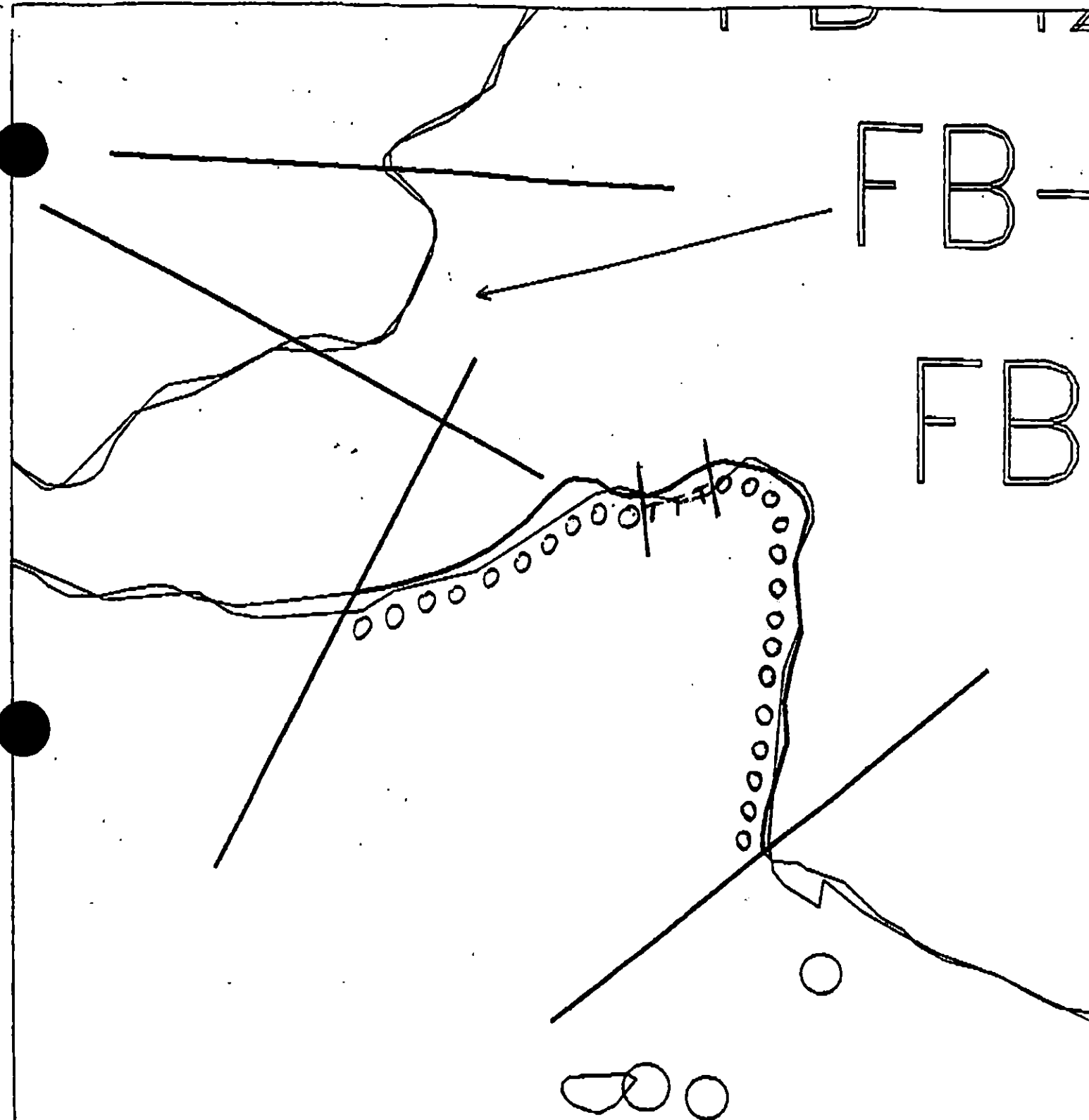
Sandy, Low-tide terrace

Oil Character Length (m): AP 0 PO 0 CV 0 CT 50 ST 0 MS 0 PT 0 TB 0 FL 0 NO 8 IE

REVISION 0324/90

FB-

FB



XXXX Wide

//// Medium

--- Narrow

TTTT V... 1:1:1

FB-3

ADEC Segment Length: 948m



Map Key: COA-98

Name: Penland

Date: 3-30-90

REGION: KODIAK

SEGMENT: ST/ K0204-FB-003

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-003 SUBDIVISION A (1 OF 1) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 81 m: No Oil 852 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K2124 / 50000 DIVISION: MIA DATE 7 20 90

NOAA
USEG

NAME John Thompson SIGNATURE John Thompson

☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Very little oil, only seen near stream mouth. Area should not be further disturbed to remove this oil.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Staining NEAR SMALL STREAM MOUTH less than 1%.
No OILED debris found on storm berm. Cleanable oil could not be found in the sediment NEAR staining locations.

LAND MANAGER

NAME LINDA M. HAGEN SIGNATURE Linda M. Hagen

☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Concur with visual ground observations by team which walked the beach area. Oil area was very small (stain type)

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Perland USCG Naughton SEGMENT ST/ K0204 / E8003
 BIO Spright LAND REP Hagen USFWS SUBDIVISION A
 EXXON Byers ADEC Shelton TIME 11:41 to 12:15
 TEAM NO.: 19 TIDE LEVEL: 0.5 ft to 2.0 ft DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 948 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 0 % G 10 % C 50 % F 30 % 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 50 m NO 898 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	TC	TS	TP	TR	SP	OR	OL	OF	NO	LA	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT					X	X	X	X	X	X				
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

PAVEMENT: H F S N/A sq. m by N/A crPATTIES / TARBALLS N/A 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 N/A

Photographs: _____

Roll No. 19-1Frames 30-36

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		UO	UC	SP	OR	OL	OF	NO	LA	SU	U	M	L		
1	30					X	-														cobble, pebble
2	30					X	-														cobble, pebble
3	30					X	-														cobble, pebble
							-														
							-														
							-														

COMMENTS

- oiling is extremely very light - < 0.001 % of beach cover
- the few stains observed were both dk. brown and dull black
- classifying this a VL is very misleading
- staining is concentrated around the stream mouth, 1-2 stains (3-6 cm in dia) in 10 m

EAT 3 Apr 90

SEGMENT SI/K0204/FB003

SUBDI N 8A

DATE 3/30/90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bdry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/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

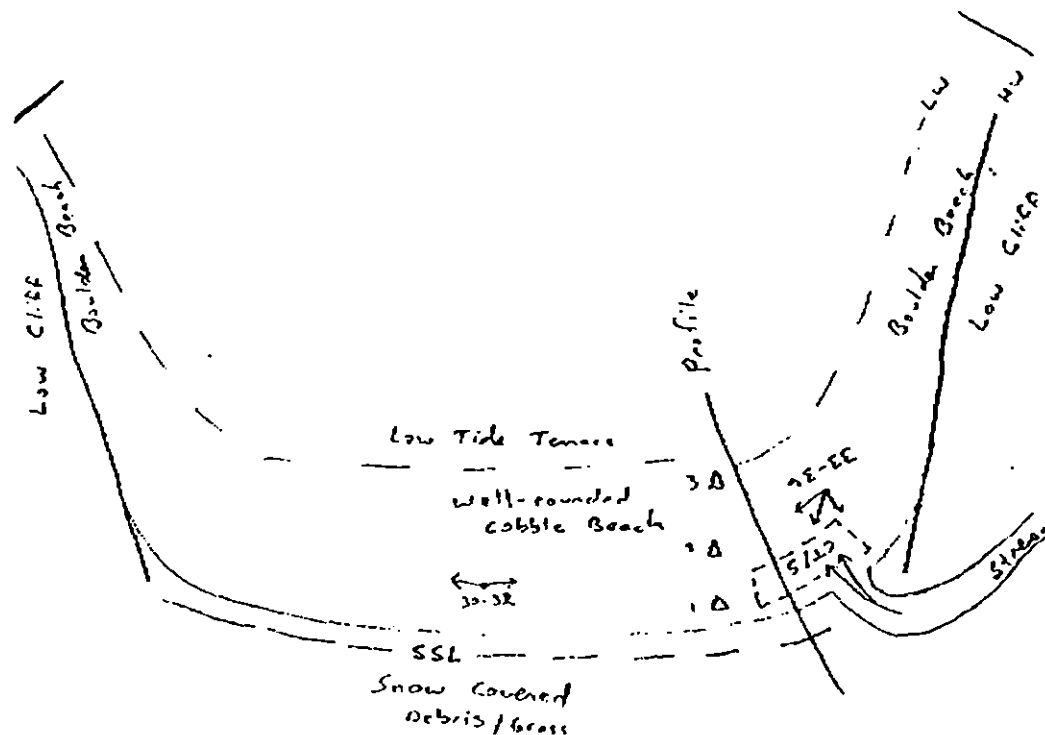
CT/S

Splashed Distribution

Oiled Vegetation

1 ●→

Photo location, direction, and number



1:20 m

Oil Character Length (m): AP 0 PO 0 CV 0 CT 50 ST 0 MS 0 PT 0 TB 0 FL 0 NO 818

SHORELINE ECOLOGICAL SUMMARY

REVISION: 00

 Segment ST / F3-3 Subdivision _____ Date (mo / day / yr) 3/30/90

 Time (24 hr) 1134 Biologist SP16HT

(A) Substrate type and % of segments:

 (1) Bedrock 5 (2) Boulder 5 (3) Cobble 70 (4) Pebbles (5) Sand 20 (6) Gravel

 (B) Overall % cover of biota (% of segment): Dense 10 Moderate 10 Sparse 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. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	X	2	2	2	X	2	2	2	2	2	2
3	X	3	X	3	X	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 PRESE

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	X	2	2	2
3	3	3	3	3	3	3	X	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 PRESE

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	X	2	2	2	X	2	2	2
3	3	3	X	X	3	3	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 PRESE

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	X	X	2	2	2
3	3	3	3	3	3	X	X	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

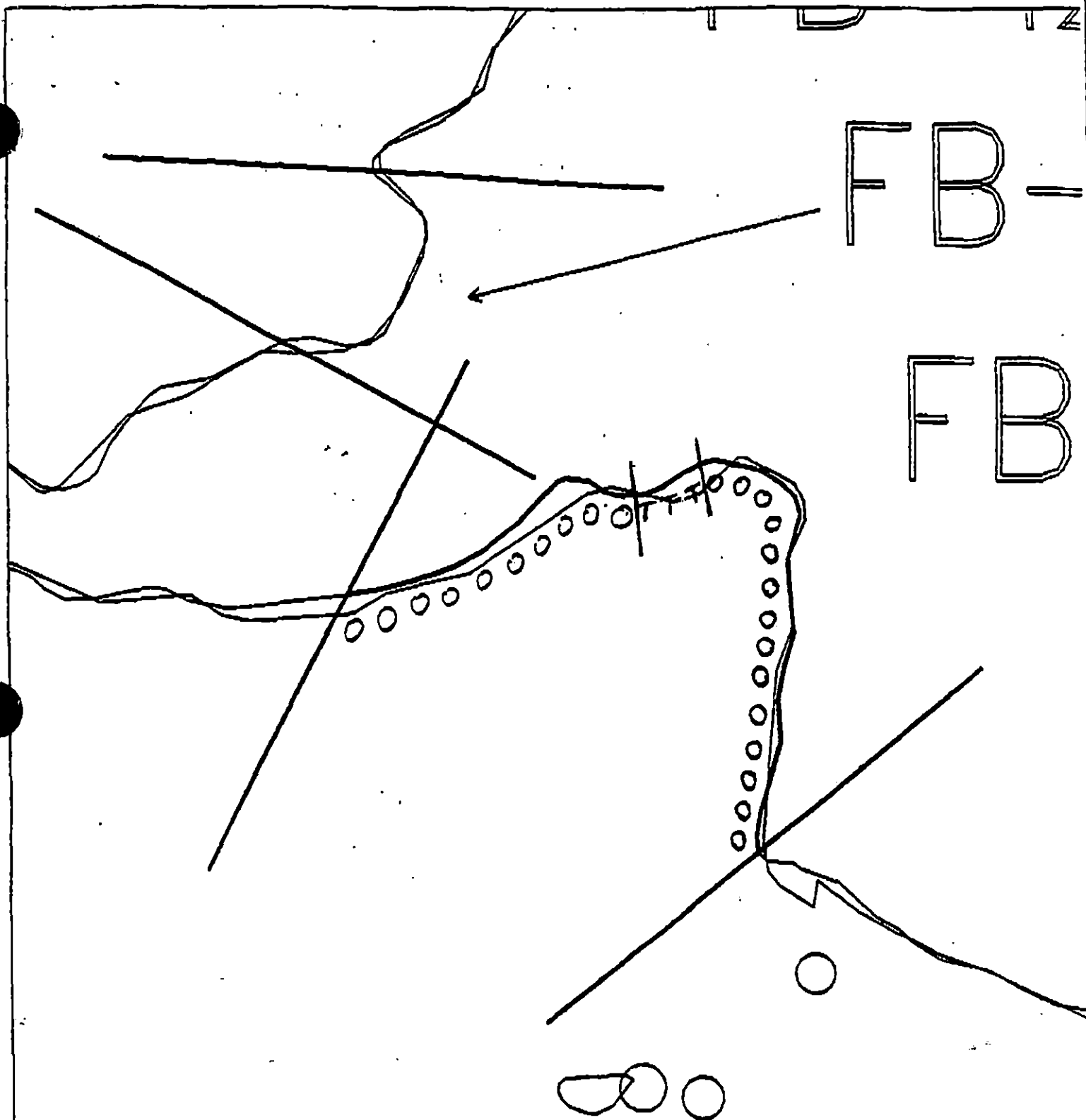
NOT PRESE

Wildlife Observations/ General Comments:

Ecological Considerations:

Fucus, barnacles, etc. abundant in fresh water runoff (oiled area) at upper level

 Access
1J - Purse Seine Area - Restrictions from 20 July to 30 SEPT



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

FB-3

ADEC Segment Length: 948m

Map Key: GOA-98

Name: PenlandDate: 3-30-90

SHORELINE EVALUATION

SEGMENT ST/ K02-04-FB-010 SUBDIVISION A (1 OF 1) DATE 5/16/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

4QQ State Marine Park National Wildlife Refuge
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1) (Possible)
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) (Possible)
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 Dore DATE: 5/25/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1389 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 Removal	☐ Beach Cleaner
	☐ Other (see comments)

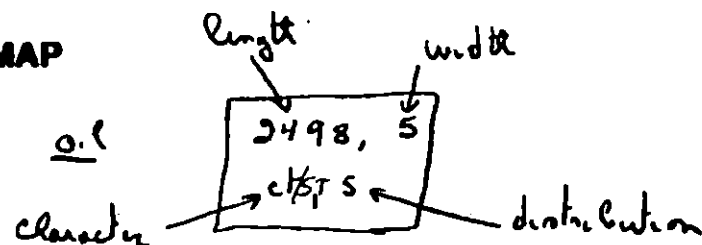
COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90
ADEC Aer Wornen Det Wornen
EXXON Andy TGA Det
NOAA Burt Wasscott Burt Wasscott
USCG W. J. Hall, RUP

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

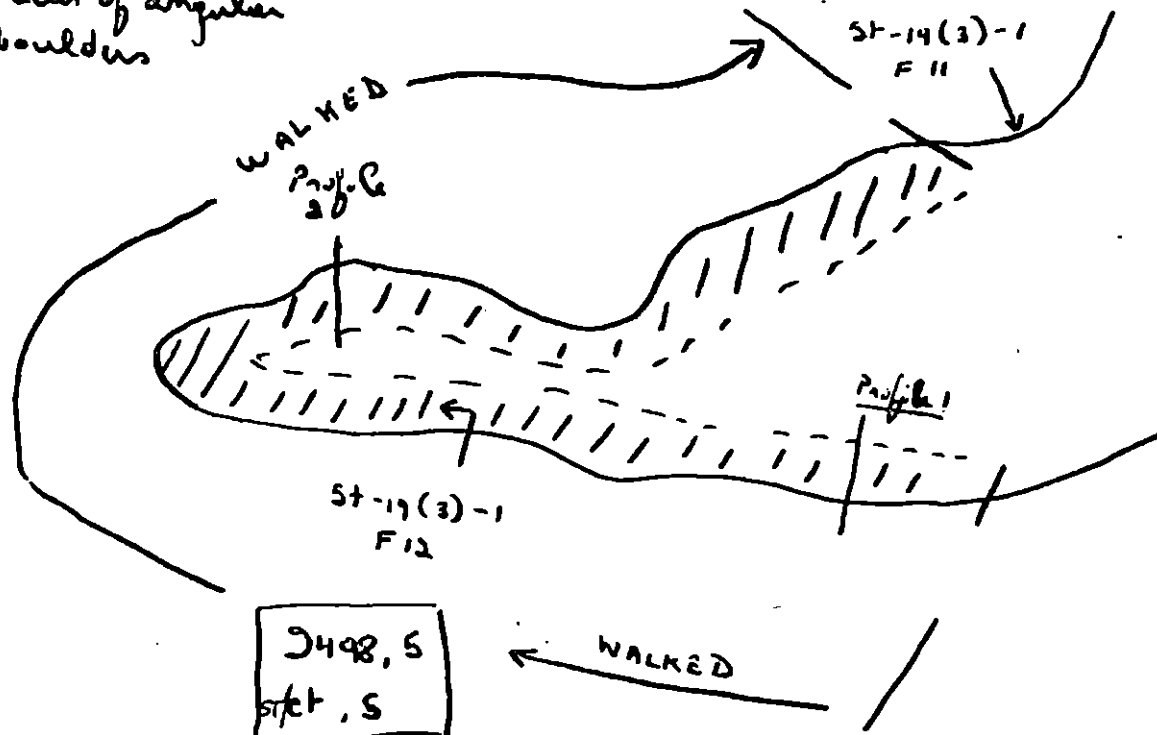
SKETCH MAP



Legend



Bedrock cliffs /
Talus of angular
boulders



Note: Very few coats of
splatter throughout segment



Item Name Sample

3MENT ST/ F

3DIVISION A

TE May 12-90

CHECKLIST

N Area
Approx. Scale
Geologic Entry
Cl Dist
Width
Length
% Cover
Substrate Character
Est. HML/LVL
SSL
Profile Location(s)
Profile(s)
Pl Location(s)
Photo Location(s)

LEGEND

1 Δ

No Subsurface Cl

2 Δ

Subsurface Cl

CT/C

Cl Distribution

CT/B

Cl Distribution

CT/P

Cl Distribution

CT/S

Cl Distribution

see

d Vegetation

→

to location, direction,
number

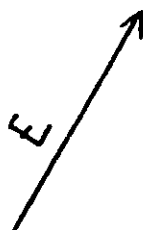
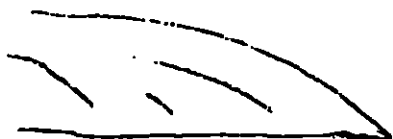
Character Length (m): AP ☐ PO ☐ CV ☐ CT ☒ 2498 ST 2498 MS ☐ PT ☐ TB ☐ FL ☐ NO ☐

REVISIONS

Segment FB-10, May 10, 1990

Jean-Marie Sempels

Profile 1



Talus

Angular boulders

Abundant tree cover

Very few platters in LITZ

Profile 2

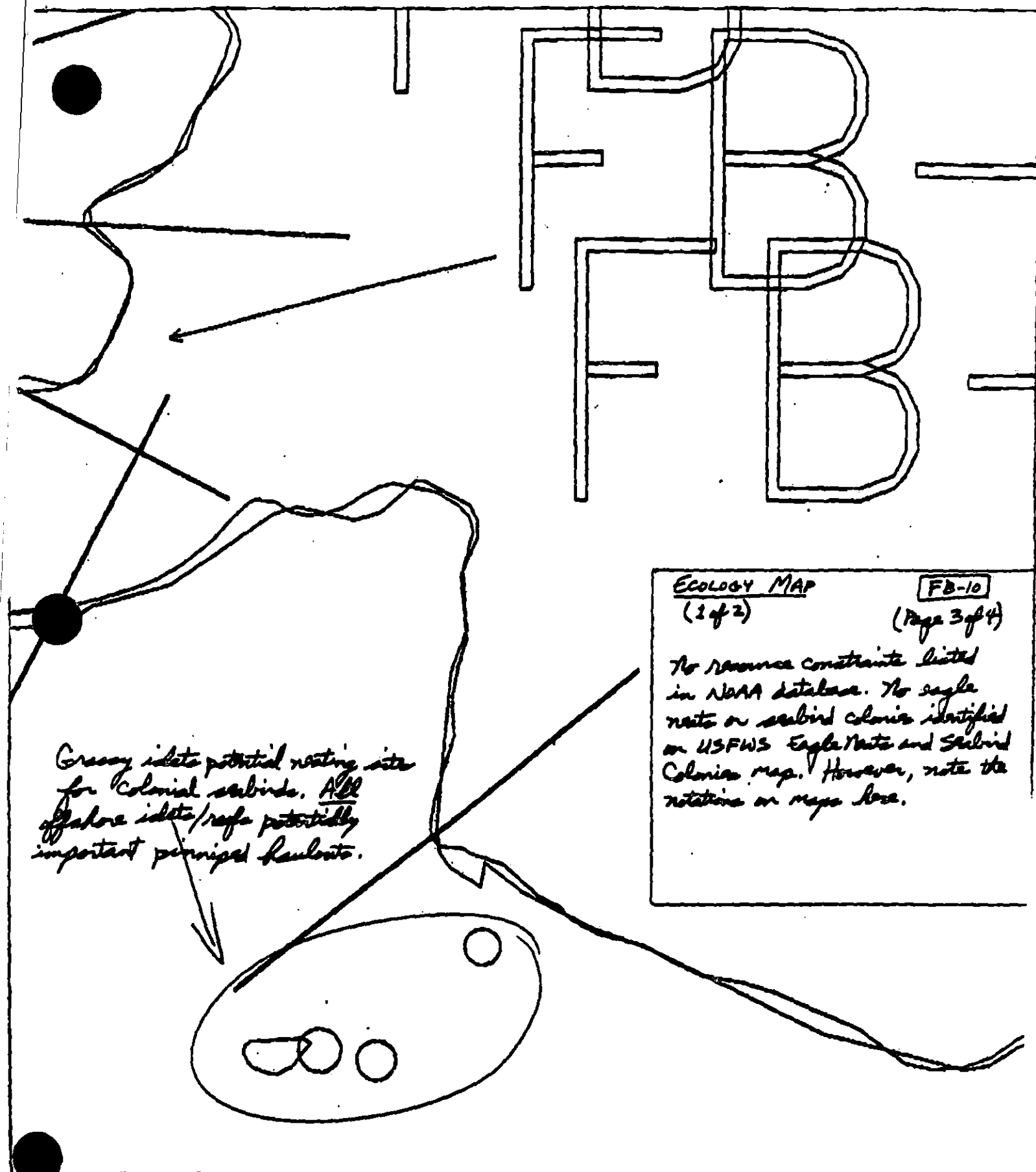
grassy backshore
Abundant tree cover

Few platters in LITZ

Bedrock bluffs

talus LITZ





Grassy islets potential nesting sites for Colonial seabirds. All offshore islets/reefs potentially important principal haulouts.

ECOLOGY MAP
(1 of 2)

FB-10
(Page 3 of 4)

No resource constraints listed in NOAA database. No single nests or seabird colonies identified on USFWS Eagle Nests and Seabird Colonies map. However, note the notations on maps here.

XXXX Wide
//// Medium
--- Narrow

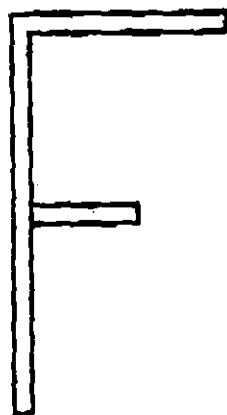
FB-10

ADEC Segment Length: 1389m

Map Key: KOD-FB-10b

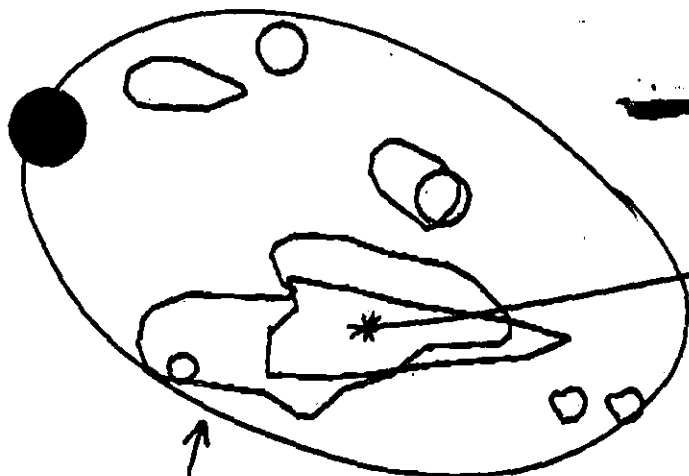
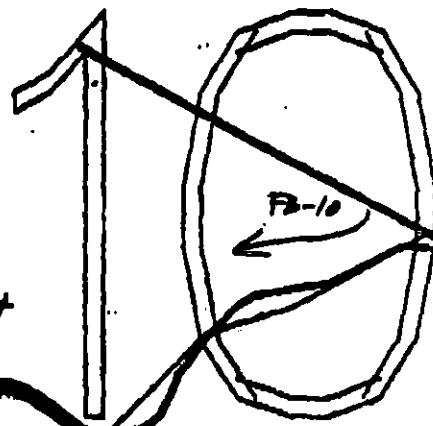
Name: _____

Date: _____

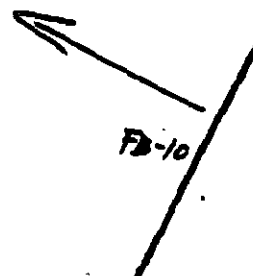


Fred

Possible active eagle nest - did not observe (and not on USFWS map), but 2 adults have high fidelity to site.



Oystercatchers and glaucous-winged gulls presently nesting on large island!



Grassy islets potential nesting sites for Colonial seabirds. All offshore islets/reefs potentially important principal haulouts.

ECOLOGY MAP

(2 of 2)

Please see Map 1.

FB-10

(Page 3 of 4)

XXXX Wide

/// Medium

--- Narrow

FB-10

ADEC Segment Length: 1389m

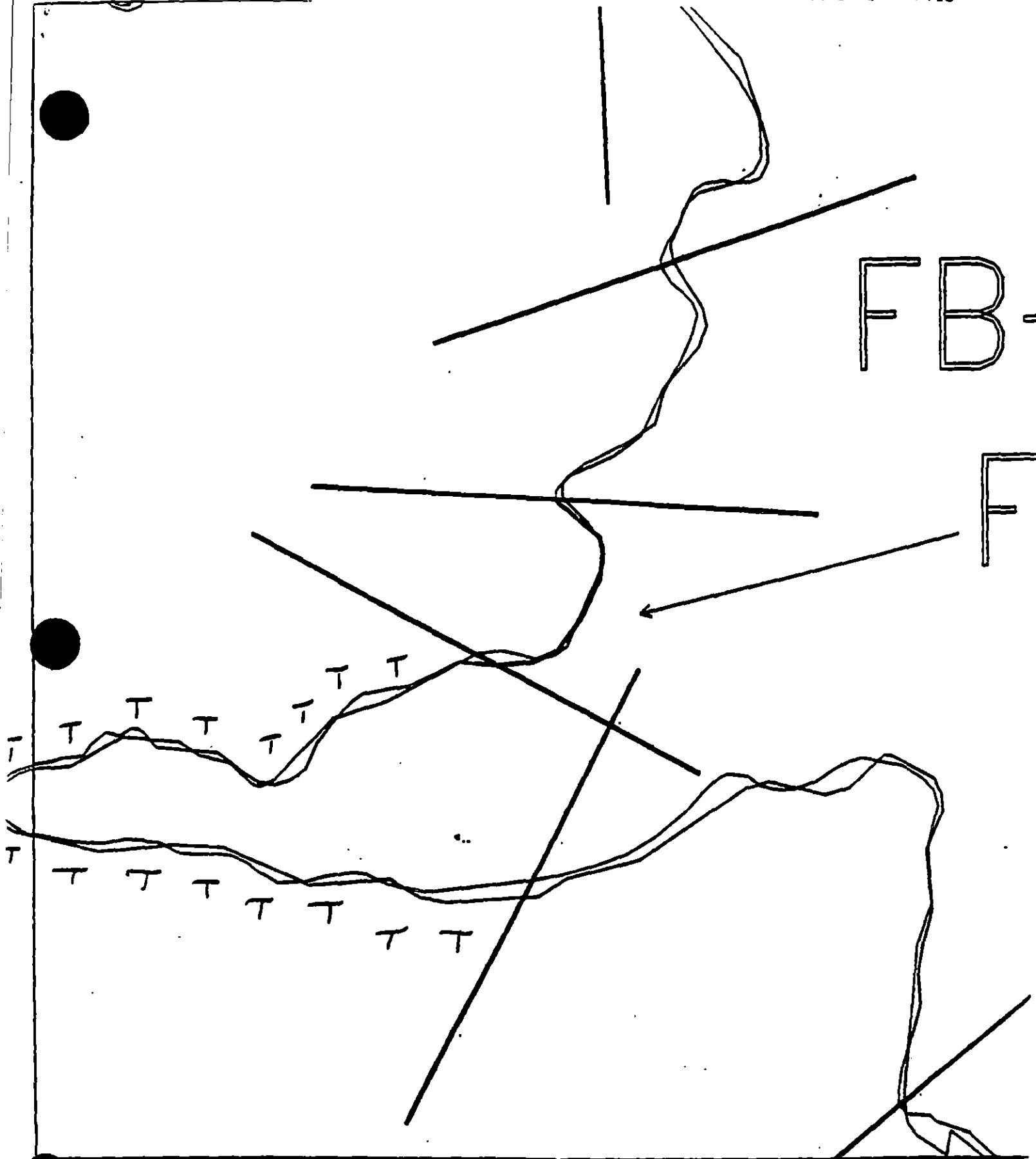
Map Key: K00-FB-10a

Name: _____

Date: _____

FB-

F



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

K0204 - FB-10

ADEC Segment Length: ~~510m~~

0 100 200 300

Map Key: GOA-93

Name: San Juan Islands

Date: May 12/90

Data Entered:

REGION: KODIAK

SEGMENT: ST/K02-04-FB-010

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K02-04-FB-010 SUBDIVISION A (1 OF 1) DATE 5/16/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unopened 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 1389 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 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 (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
- 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 (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)
 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 / FG-10 SUBDIVISION: A DATE May 12, 1990

NOAA

~~1990~~NAME STEPHEN LENMANN SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

oil is extremely light, but present if one looks carefully. No treatment is recommended.

ADEC

NAME Terry Ellsworth SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

This segment contains very occasional splashes of coat and stain along its entire length. No recoverable mousse was observed. No Treatment is recommended.

LAND MANAGER

NAME OTTO FLORSCHUTZ SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Concur agreement with above findings and recommendations.
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 Jim. Mary. Sample USCG Stephen Lehmann SEGMENT ST/ F3-10
 RIO James Shannon LAND REP Officer Edwards SUBDIVISION A (1 OF 1)
 TEAM NO. 19 ADEC Terry Edwards TIME 13:00 to 15:00
 TIDE LEVEL 0.0' +6.0' DATE 10/5/90
 EST. SUBDIVISION LENGTH: 249.8 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S.W. to N.E.
 SURFACE SEDIMENTS: R 20 % B 55 % C 20 % P 5 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 0 % Hang 100 % Vert 40 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 249.8 m NO 0 m

SURFACE OIL

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

PAVEMENT H F S 11.5 sq. m by 0 cmPATTIES / TARBALLS 11.0 BAGSNEAR 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>0</u>

Photographs:

Roll No. ST-19(II)-1Frames 10-11

SUBSURFACE OIL

No - Boulder beach on bedrock, only surface stains and coats
of boulders (very few)

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

COMMENTS

See attached comments.

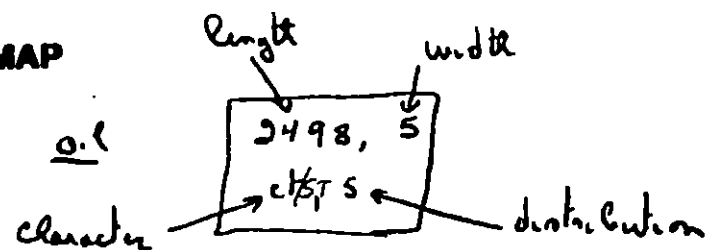
REVIEWED BAT DATE 16 MAY 90

FB-10, Foul Bay, May 12, 1990

FB-10 is a 2.5 km segment located in Foul Bay on the western coast of Afognak Island. The segment forms a prominent headland south of Black Cape. Its convex shape makes it exposed to waves travelling from both the north and the south in Shelikof Strait. It was observed on May 12, 1990, between 1300h and 1502h and corresponding 0.0' and 6.0' tidal levels.

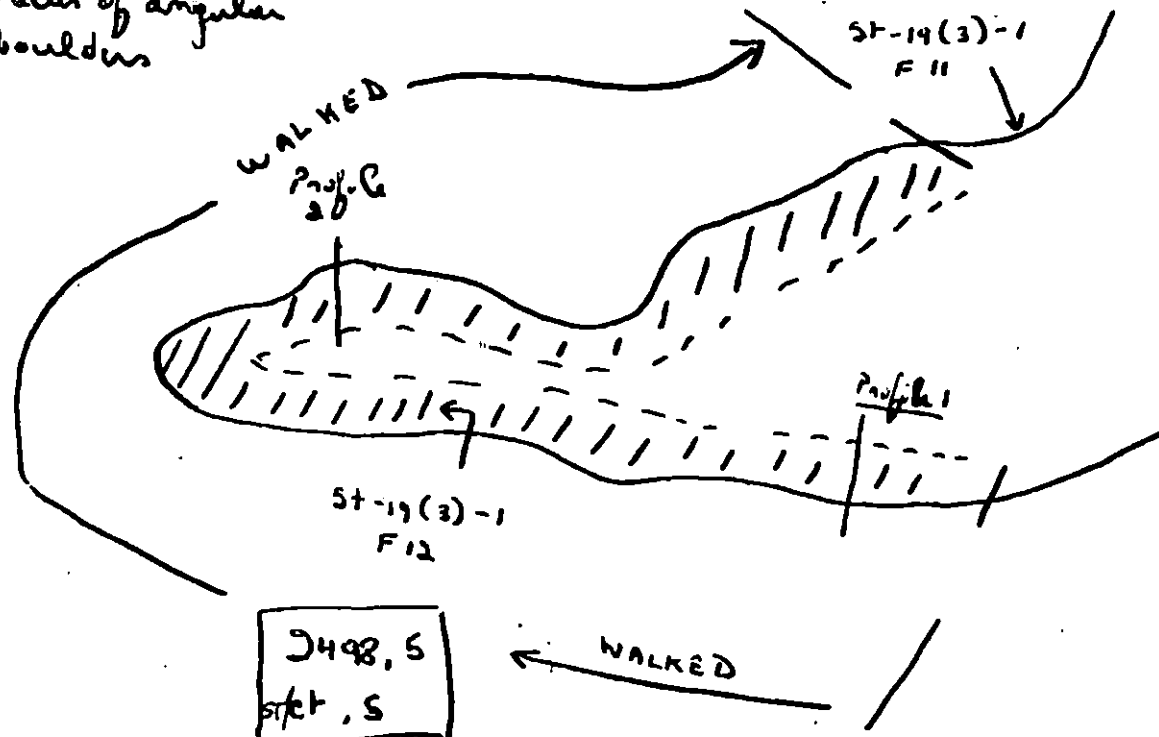
This segment consists of a relatively uniform section of talus of large angular boulders seaward of low bedrock cliffs. On its south side, the boulder talus forms a narrow and steep intertidal zone. On its north side, the bedrock outcrops extend further seaward and separate narrow pockets where angular boulders and cobbles have accumulated. Small patches of pebbles occur occasionally in very small areas of the upper intertidal zone. Oil occurs throughout this segment as very few coats and stains of splatters within a narrow (< 5 m) band of the upper intertidal zone on bedrock or boulder surfaces.

SKE MAP



Legend

Bedrock cliffs /
Talus of angular
boulders



Note: Very few coats of
splatter throughout segment

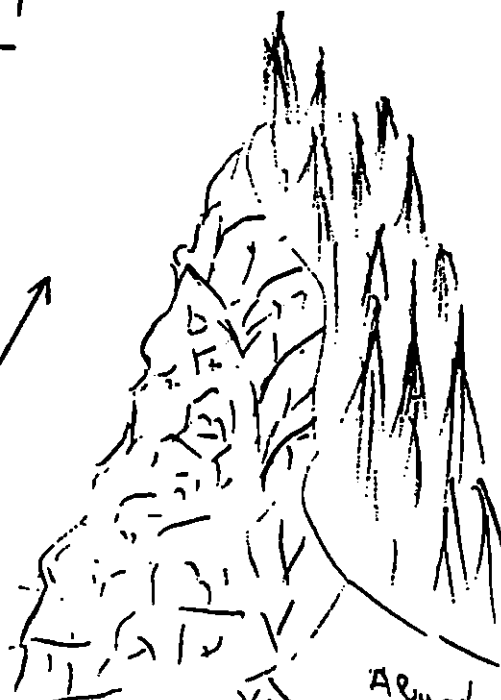
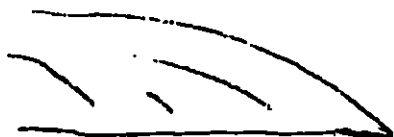


James M. ...
MENT ST/ F 12 13
DIVISION A
TE May 12-90
ECLIST
H Area
Approx. Size
Soil/Bed Body
Cl Out
Width
Length
% Cover
Substrate Character
Est. HILL/VAL
SSE
Profile Location(s)
Profile(s)
Pit Location(s)
Photo Location(s)
EGEND
1 Δ
No Subsurface Cl
2 Δ
Subsurface Cl
CT/C
CT/B
CT/P
CT/S
eee
ed Vegetation
o
no location, direction,
I number

Segment FB-10, May 13, 1940

Jean Marie Sengels

Profile 1



Talus

Angular boulders

Abundant tree cover

Few platters in LITZ

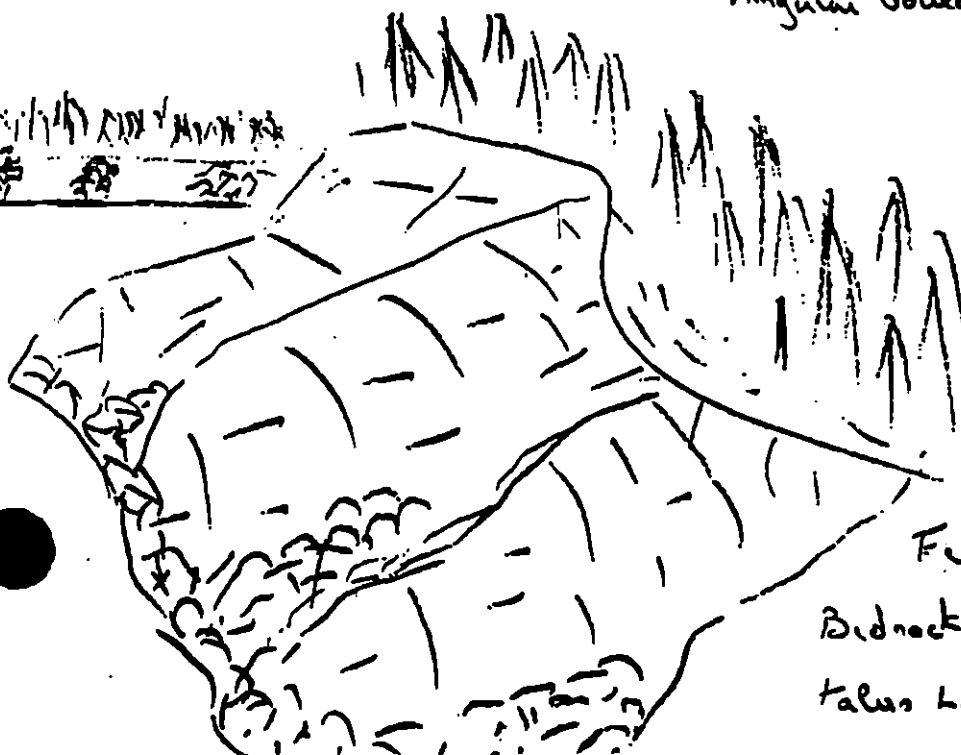
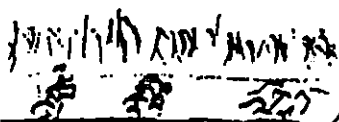
Profile 2

grassy backshore
Abundant tree cover

Few platters in LITZ

Bedrock bluffs

Talus LITZ



SHORELINE ECOLOGICAL SUMMARY (Page 2 of 4)

REVISION: 03/22/90

K2-4
Segment ST / FB-10 Subdivision A Date (mo / day / yr) 5/12/90

Time (24 hr) 1300-1400 Biologist SHARMAN

(A) Substrate type and % of segments: SUBDIV.
(1) Bedrock 20 (2) Boulder 55 (3) Cobble 20 (4) Pebble 5 (5) Sand (6) Silt

(B) Overall % cover of biota (% of segment): Dense 20 Moderate 70 Low 10
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. ST-19(III)-1

Frames 10, 11

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, LIMAEAE)

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 LTs. The offshore grassy islets are potentially important seabird Colony habitats; they and nearshore tidal reefs are potentially important principal haulouts. Observed 3 sea otters (1 with pup). In the upland forest is a great abundance of deer signs (tracks, scat, trails, browsing on Vaccinium), + 1 red squirrel. 2 predicted magpie karrens, scats of foxes and deer. Rare other scats on supratidal (cm)

Ecological Considerations:

Please see Eco. map. As stated above, the offshore islets and rocks to the S. + W. appear to be potentially important habitats for seabird nesting and principal haulouts. In addition, there is a possible osprey eagle nest on the S. side of the point - unobserved, but local activity by a pair of adult eagles.

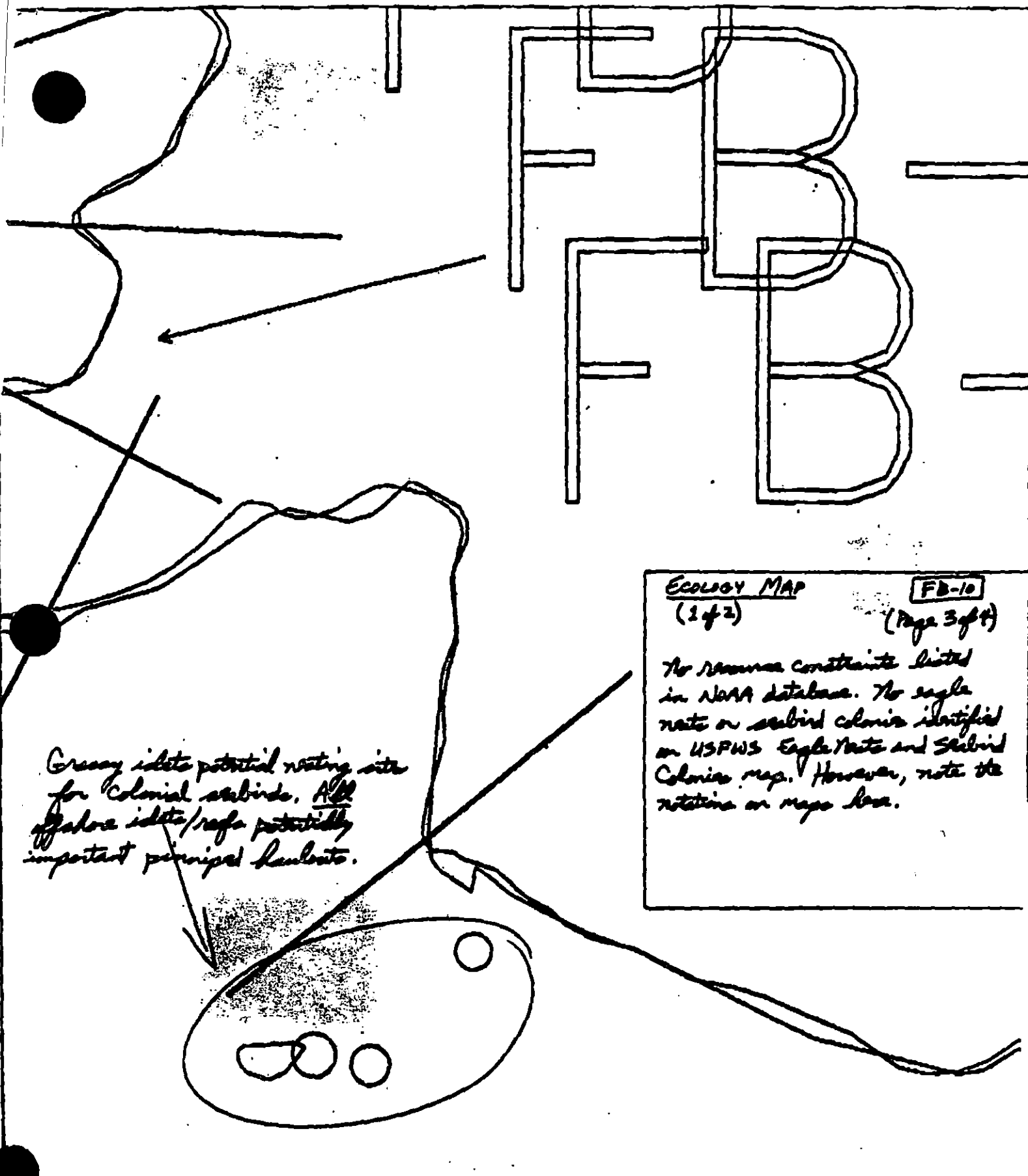
FD-10

Shoals Ecological Summary (cont.)

(Page 2 of 4)

Sherman
5/12/90General Comments (cont.)

fringe and bluffs. One sea otter skull (old - no oil). 2 adult eagles, 6 pigeon guillemots, 1 pair oystercatchers, 3 pairs harlequin ducks, 1 fox sparrow foraging in intertidal, 3 pelagic cormorants, ~10 glaucous-winged gulls. This segment supports a very healthy and productive intertidal community on a steep shore dominated by bedrock cliffs / large boulders. Barnacle spat is extremely abundant in the MTS and LTS. Clearly, this has been an exceedingly successful spring spat set generally throughout at least the N. portion of the Kodiak archipelago. The MTS is dominated by a good stand of barnacles along with continuous but sparse Ulva and patches of Gelidium (mostly upper MTS) and Sargassum (mostly lower MTS). Fucus is surprisingly rare across the segment as a whole. Mussels are discontinuous + patchy, but both Fucus and mussels are reproducing where they are established. There is a healthy Littorina population, and Dracopis is not uncommon (a few concentrations of Dracopis egg capsules). Bare rock boulders are Pricklypear, amphipods, Leptasterias, and some Littorina eggs. Both Littorina and Leptasterias appear to be recruiting normally. In the lower MTS is sparse Halosassa, Ulva, green filamentous algae (Acrocydonia?), some Laminaria, and fine red Alga (Polydiplosia / Maragadonia?), as well as a few large Notosquilla scutella. Bedrock tidepools contain the usual Triton, Exocoetidae, 3 spp. of Anthopleura, Katharina, Tadina, Pagurus, Limpet, and sculpin. A generally normal + healthy intertidal, unaffected by the generally very light + discontinuous oiling present in the LTS.



XXXX Wide

//// Medium

--- Narrow

TTT

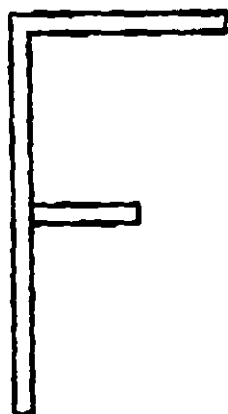
FB-10

ADEC Segment Length: 1389m

Map Key: KOD-FB-10b

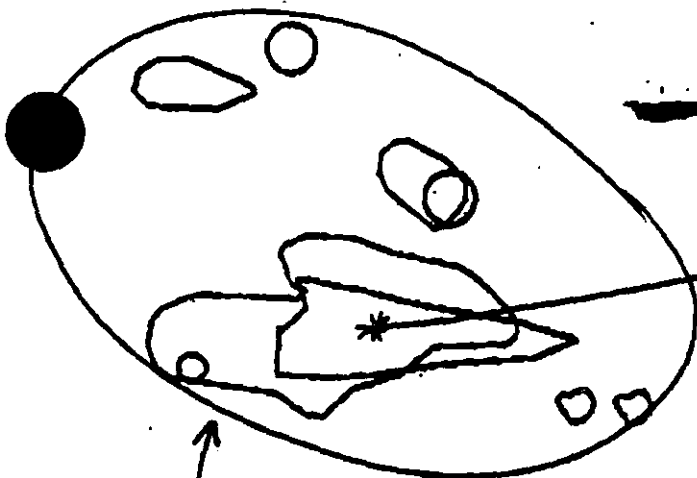
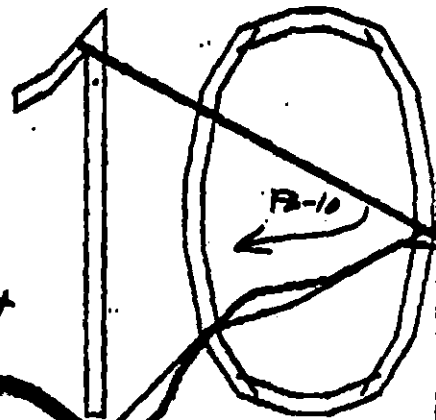
Name: _____

Date: _____

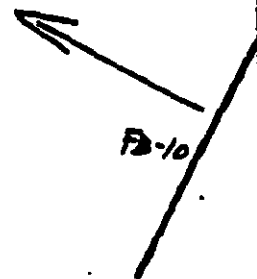


Fred

Possible active eagle nest - did not observe (and not on USFWS maps), but 2 adults have high fidelity to site.



Arctic skuas and glaucous-winged gulls primarily nesting on large island.



Grassy islands potential nesting sites for colonial seabirds. All offshore islands reefs potentially important principal haulouts.

ECOLOGY MAP

(2 of 2)

FB-10

(Page 3 of 4)

Also see Map 1.

XXXX Wide

//// Medium

--- Narrow

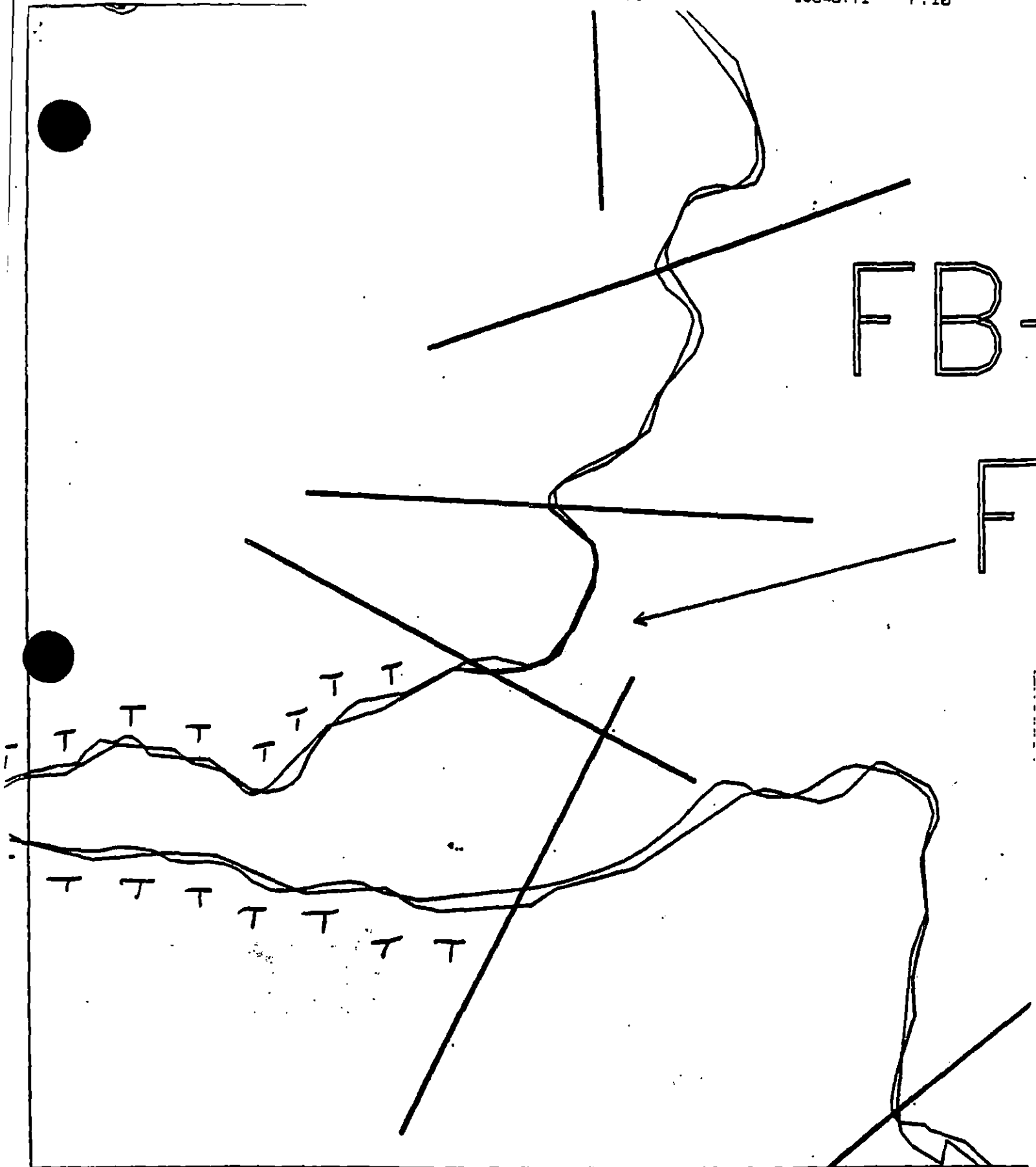
FB-10

ADEC Segment Length: 1389m

Map Key: KOD-FB-10a

Name: _____

Date: _____



XXXX Wide

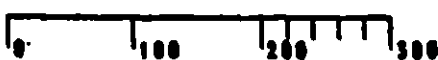
//// Medium

--- Narrow

TTTT Very Light

K0204 - FB-10

ADEC Segment Length: ~~540m~~



Map Key: 60A-93

Name: *San Jose Simples*

Date: *May 12/90*

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-011 SUBDIVISION A (1 OF 1) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30; Possible anadromous stream present (1A & B). Contact ADF&G for verification.

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 Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles Z. Hoffman DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 11 m: No Oil 307 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	☐ Beach Cleaner
☐ <u> </u> Removal	☐ Other (see comments)

COMMENTS: Per the oiling character and distribution, no treatment recommended (consistent with decision tree). Subject to ADF&G stream verification.

TAG COMMENTS: DECISION TREE DOES NOT INDICATE TREATMENT HOWEVER SPECIFIC ONSITE SENSITIVITIES SUGGEST SMALL WORK CREW TO MANUALLY PICK UP ACCESSIBLE OIL

TAG APPROVAL DATE: 4/11/90
ADEC JOHN BAUER
EXXON ANDY TATE FOSC: W. L. DATE: 4-20-90
NOAA Barl Weisert
USCG G.A. REITER

SEGMENT K2-4-FB-11

SUBDIVISION FB-11-A

DATE 3 / 29 / 90

CHECKLIST

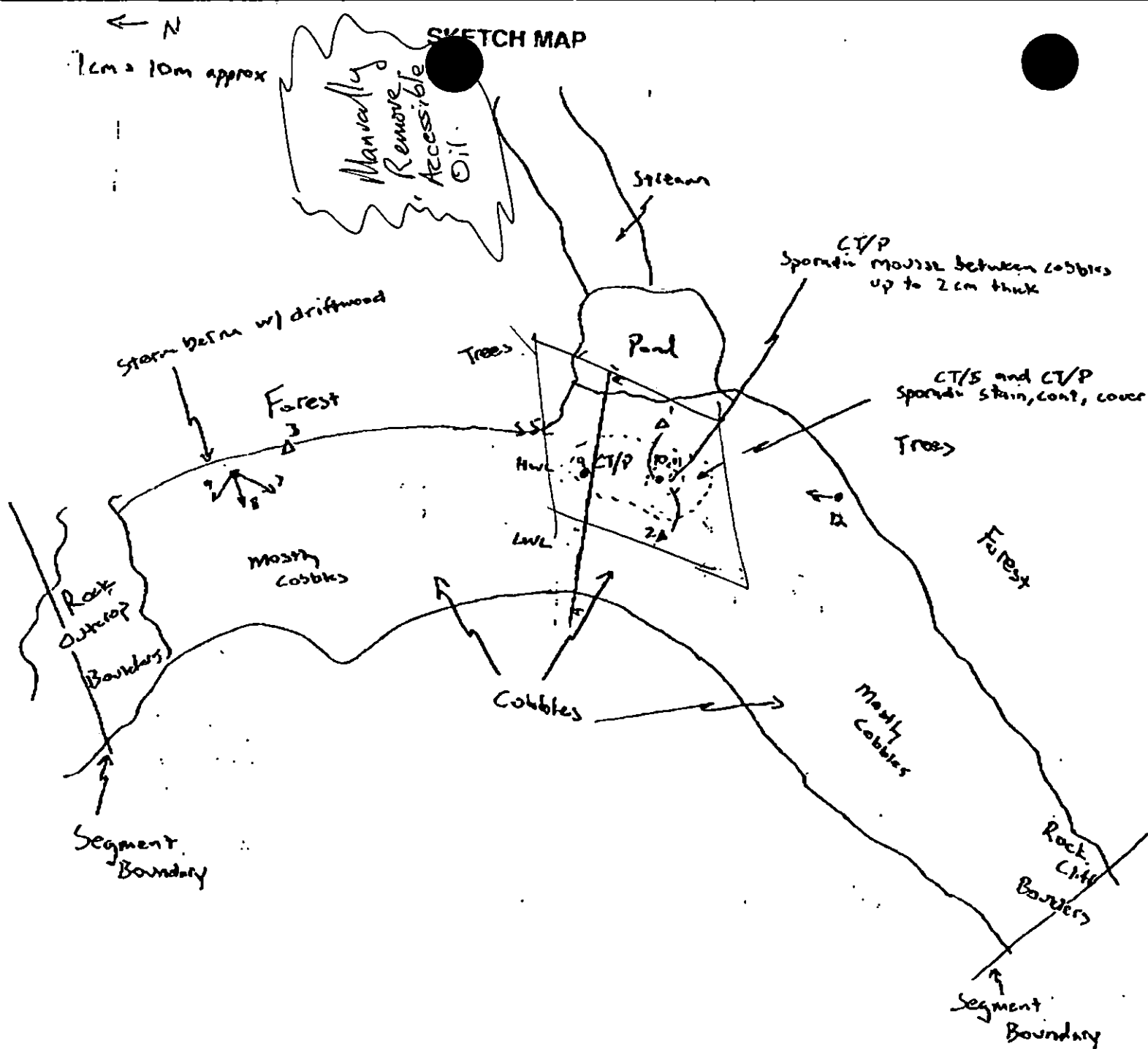
- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Sog/Sub Bdry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HVAL/VL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ Pt. Location(s)
- ☐ Photo Location(s)

LEGEND

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

← N
1 cm = 10 m approx

SKETCH MAP

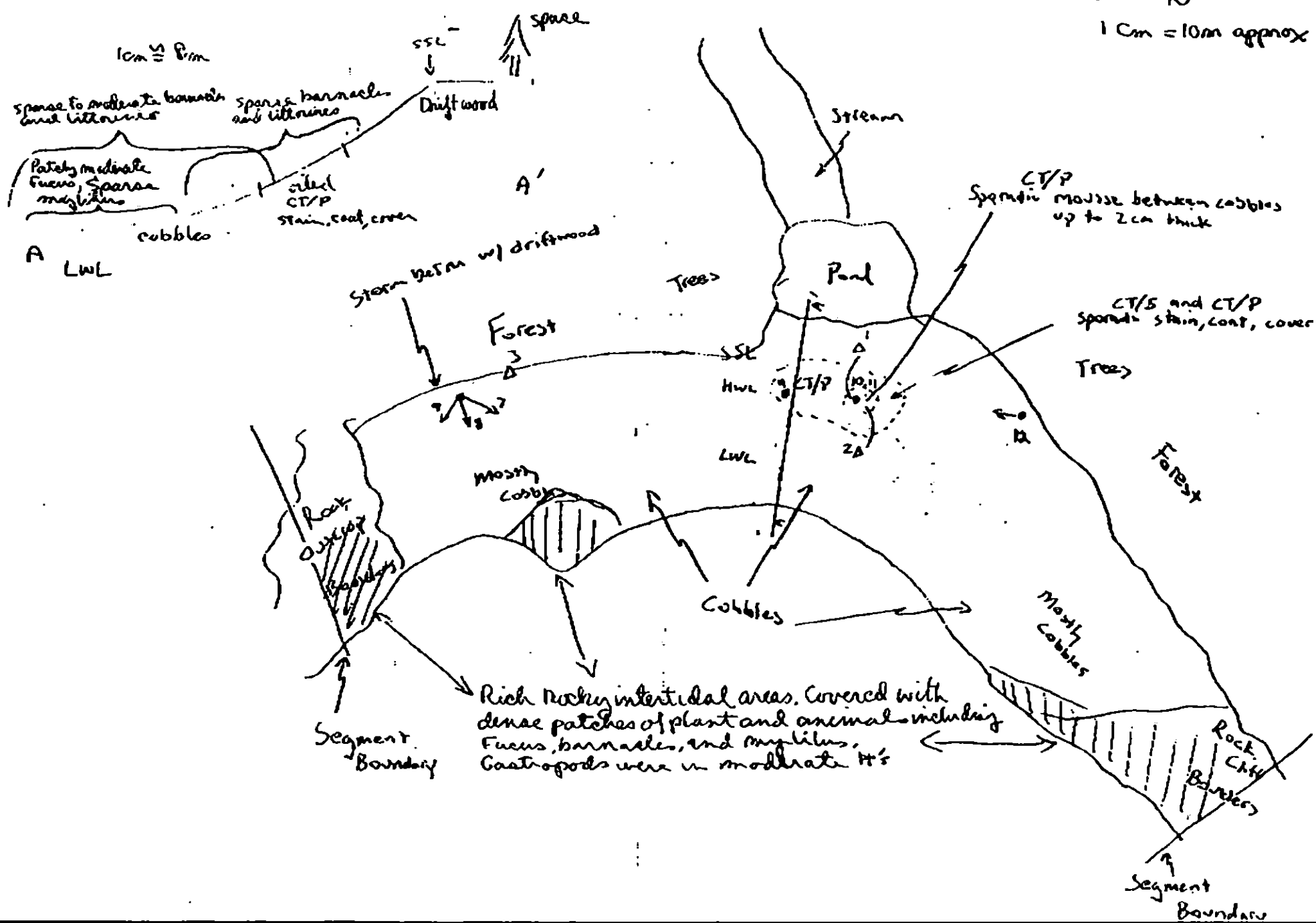


Oil Character Length (m): AP 0 PO 0 CV 20 CT 20 ST 20 MS 7 PT 0 TB 0 FL 0 NO 300 295

REVISION: 03/14/90

Date 3-20-90

← N
1 cm = 10m approx



K2-4-FB-11A

FB

F

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

FB-11

ADEC Segment Length: 318m



Map Key: GOA-93

Name: Acton

Date: 3-29-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/ K0204-FB-011

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-011 SUBDIVISION A (1 OF 1) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30; Possible anadromous stream present (1A & B). Contact ADF&G for verification.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 11 m: No Oil 307 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: Per the oiling character and distribution, no treatment recommended (consistent with decision tree). Subject to ADF&G stream verification.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K2-4-FB-11 SUBDIVISION: FB-11-A DATE 3-21-90

USCG

NAME D.D. Harris Jr., GM3, USCG SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS Very low priority. Minimal work needed.

ADEC

NAME Francine Benoit SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS Mousse mixed w/sediments between and under cobbles, and in rock crevices. Small-scale effort of manual clean-up (≤ 5 people, trowels, scrapers) could readily remove this oil, thus prevent any possibility of oil sheen as the summer progresses. (A small amount of silver sheen on standing water of the M10 ITR had been observed today).

LAND MANAGER

NAME Jay R. Bellinger SIGNATURE [Signature]

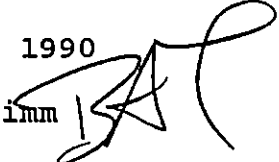
☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS sporadic oil mixed with sediments and between cobbles.

[Signature]
3/29/90

goa0403c.mem bat

MEMORANDUM

DATE: April 3, 1990
FROM: Bryan Trimm 
SUBJECT: Subdivision boundaries for K0204-FB011-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.

SHORELINE OILING SUMMARY

REVISION NO. 03-7218

OG Acton USCG Haven SEGMENT ST/ K2-4-FB-11
 BIO Davis LAND REP. Davis Hardister SUBDIVISION FB-11-A
 EXXON Avery ADEC Bennis TIME 11:40 10:15
 TEAM NO.: 20 TIDE LEVEL: -3.0 10 +7.0 DATE 3 / 29 / 90
 EST. SUBDIVISION LENGTH: 340 315 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 20 % B 30 % C 30 % 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 20 m NO 300 m
295

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR							IMPACTED ZONES			
	C	B	P	S	BR	BL	OW	OR	OL	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 cmPATTIES / TARBALLS C BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

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

Photographs:

Roll No. 30-1Frames 7-12

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	90% BR	DEL BR	FW OR	SL OR	DL OR	TL OR	SU	U	M	L				
1	15					✓	-									✓							S, P
2	15					✓	-									✓							S, P
3	15					✓	-									✓							S, C
							-																
							-																
							-																

COMMENTS

Area of approx 20m x 20m - sporadic stain, coat, cover within this area is a sub area of approx 7m x 7m which is similar except that sporadic mousse varying from 1-4 cm fills the spaces between some of the cobbles

Oil did not penetrate into subsurface sand/sediments/particles in hand/foot pits dug 20m x 20m patch was located in upper middle, upper, and into supra

Oil was observed between cobbles, cobbles were moved at the 2 pit locations, and no oil was observed in the subsurface sediments

Page 1 of 1

Very light silver sheen observed near mousse under a cobble

REVIEWED BATDATE 3/29/90

ORIGINAL FIELD
REPORT

SUPERCEDED

DRAFT

REVISION NO. 03/22/90

SHORELINE OILING SUMMARY

OG Acton USCG Haven SEGMENT ST/ K2-4-23-11
BIO Davis LAND REP USFWS Hardister SUBDIVISION F3-11-A
EXXON Avery ADEC Bennie TIME 12:15:10 1:15
TEAM NO.: 20 TIDE LEVEL: -3.0 10 +7.0 DATE 3 / 29 / 90
EST. SUBDIVISION LENGTH: 20 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 20 % C 70 % 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 X m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	BR	RW	CT	SL	TL	LT	RT	LT	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 4, 10, 11

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OR	OR	OL	OF	NO		UO	UC	BR	RW	CT	SL	TL	LT	RT	LT	SU	UI	M	U		
1	15					✓	0																
2	15					✓	0																
							0																
							0																
							0																
							0																
							0																

COMMENTS

Area of approx 20m x 20m - sporadic stain, coat, cover within this area is a sub area of approx 7m x 7m which is similar except that sporadic noise varying from 1-4 cm fills the spaces between some of the cobbles. Oil did not penetrate into subsurface sand/sediment/particles in hand/foot pits. A 20m x 20m patch was located in upper middle, upper, and into supra.

Oil was observed between cobbles, cobbles were moved at the 2 pit locations, and no oil was observed in the subsurface sediments.

ORIGINAL FIELD
REPORT

DRAFT

SHORELINE OILING SUMMARY

REVISION NO. 032270

OG Acton USCG Haven SEGMENT ST/ K2-4-FB-11
BIO Davis LAND REP USERS Hardware SUBDIVISION FB-11-B
EXXON Avery ADEC Bennis TIME 11:40 10 12:15
TEAM NO.: 20 TIDE LEVEL: -3.0 10 +7.0 DATE 3 / 29 / 90
EST. SUBDIVISION LENGTH: 300 295 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 50 % C 30 % P 20 % 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 0 m NO 400 m
295

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	BR	BL	FW	GY	SL	DR	TL	LR	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 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 7, 8, 9, 12

SUBSURFACE OIL

PIT NO	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-GM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	BL	FW	GY	SL	DR	TL	LR	SU	UI	ME	U		
3	15					✓	-											✓					C S
							-																
							-																
							-																
							-																
							-																

COMMENTS

Section FB11 is subdivided into 2 subdivisions.

FB11A is the central portion of the segment and has oiled areas.

FB11B extends from both sides of FB11A to the segment ends and has no observable oily areas - approx 200 m on either side of FB11A

See sketch which depicts the 2 portions of FB-11-B

A hand-drawn map of a study area, likely a wetland or forest edge. The map includes the following features and labels:

- Stream:** A line at the top center labeled "Stream".
- Pond:** An irregular shape in the upper center labeled "Pond".
- Forest:** Labels "Forest" appear on the left and right sides of the map.
- Trees:** Labels "Trees" are placed near the pond and on the right side.
- Storm berm w/ driftwood:** A line on the left side with an arrow pointing to it.
- Rock Outcrop Boundary:** A line on the far left with an arrow pointing to it.
- Segment Boundary:** Two lines at the bottom with arrows pointing to them.
- Moist Cobble:** Two labels in the central and lower-right areas.
- Cobbles:** A label in the lower center with an arrow pointing to a specific area.
- CT/P:** A label in the center with an arrow pointing to a dashed-line area.
- CT/S and CT/P:** A label on the right with an arrow pointing to a specific area.
- Sporadic moss:** A label on the right with an arrow pointing to a specific area.
- SSC, HWL, LWL:** Labels in the center area.
- 2A:** A label in the center area.
- 10, 11:** A label in the center area.
- 2:** A label in the center area.
- 3:** A label in the center area.
- 12:** A label on the right side.

OG Acron

SEGMENT K2-4-F8-n

SUBDIVISION FB-11-A

DATE 3 / 29 / 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)
- ☐ 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 $\Rightarrow$

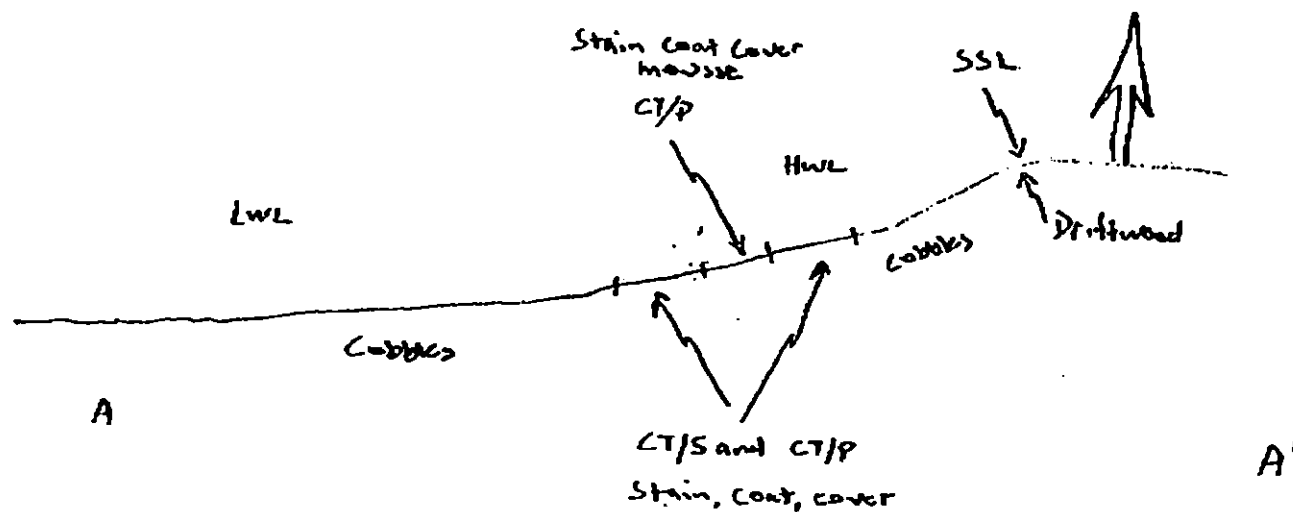
Photo location, direction,
and number

SKETCH MAP

Scale 1cm $\approx$ 4m

Profile A-A', looking from south to north

A-A' $\approx$ 60m



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

REVISION: 01/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 0372

Segment ST/K02-04 Subdivision FB-11A Date (mo/day/yr) 3-29-90Time (24 hr) 11:25 Biologist H. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 20 (2) Boulder 30 (3) Cobble 30 (4) Pebble 10 (5) Sand 10 (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 25% Moderate 30% Low 45% (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 (O)

Photographs:
Roll No. ST 20-1Frames 4-12

BARNACLES

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

NOT PRESENT
4, 5, 6

GASTROPODS

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

NOT PRESENT
5, 6

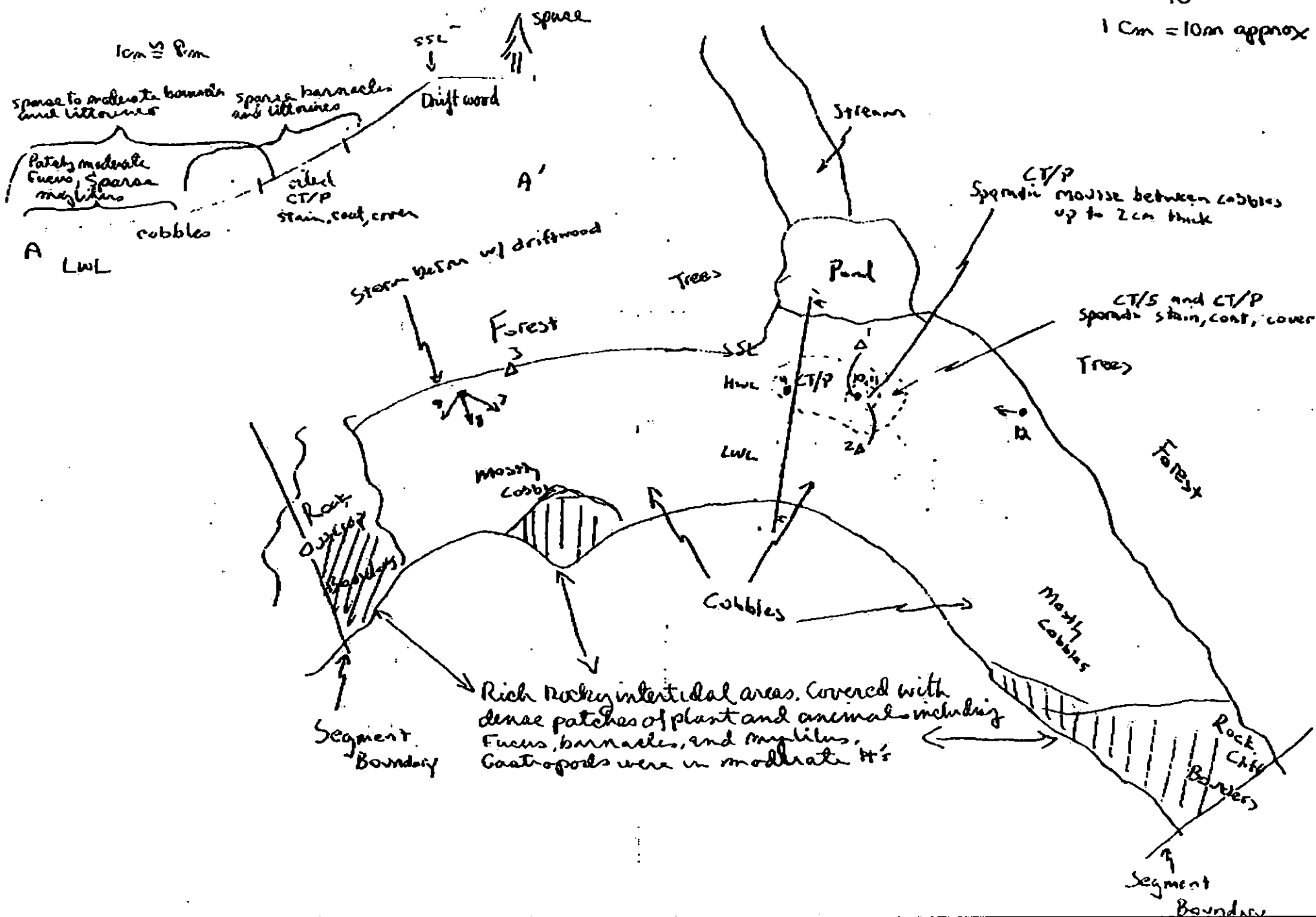
Wildlife Observations/ General Comments: Deer scat seen on the berm near the forest edge.
 Eggs of *Nereis* sp. (Thais) observed on under sides of rocks and in crevices.
 Birds seen: (2) Merganser, Surf Scoter, White wing scoter, Black Scoter, (8) Harlequin
 (8) Oldsquaw.

Ecological Considerations: (1) Stream is anadromous. Rocky outcroppings have a rich, dense community on them.

Bio H 415
 Segment 2-04 FB-11
 Subdivision FB-11A
 Date 3-24-90

Bio SKETCH MAP

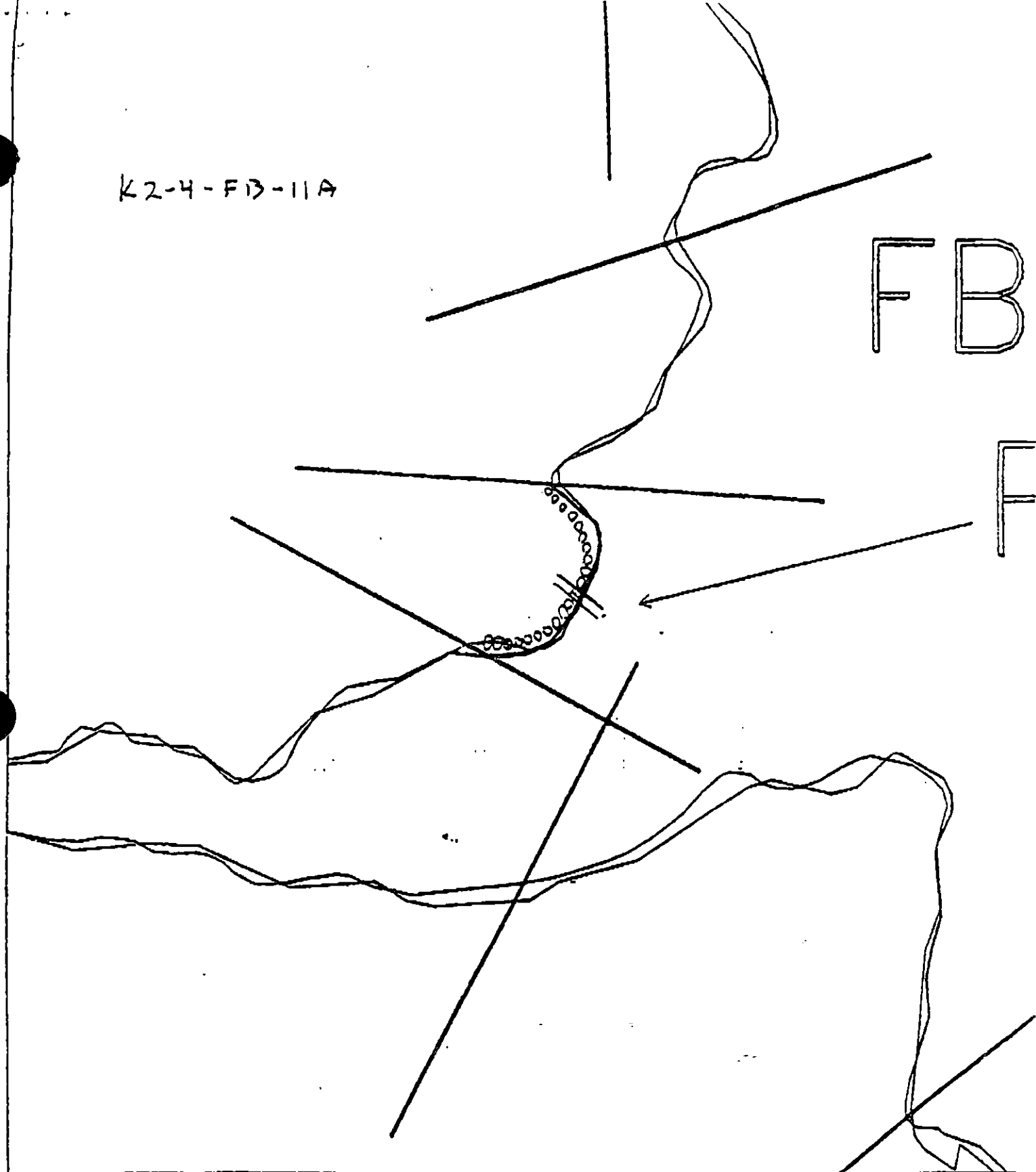
← N
 1 cm = 10m approx



K2-4-FB-11A

FB

F



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

FB-11

ADEC Segment Length: 318m



Map Key: GOA-93

Name: Acton

Date: 3-29-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION A (1 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 83 m: No Oil 0 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: 4/12/90
ADEC JOHN BAUER
EXXON ANDY TEAT
NOAA Burt Wescott
USCG M. J. HALL

FOSC: myl DATE: 4-19-90

FB-

FB-

FI

F

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

FB-12

ADEC Segment Length: 372m

Map Key: GOA-94

Name: Pacific

Date: 3-27-90



SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION B (2 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

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

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

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

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> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/12/90
ADEC JOHN BAUER
EXXON ANDY TEE
NOAA Burt Westcott
USCG M. J. HALL

FOSC: DATE: 4-19-90

FB-

FB-

FE

F

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

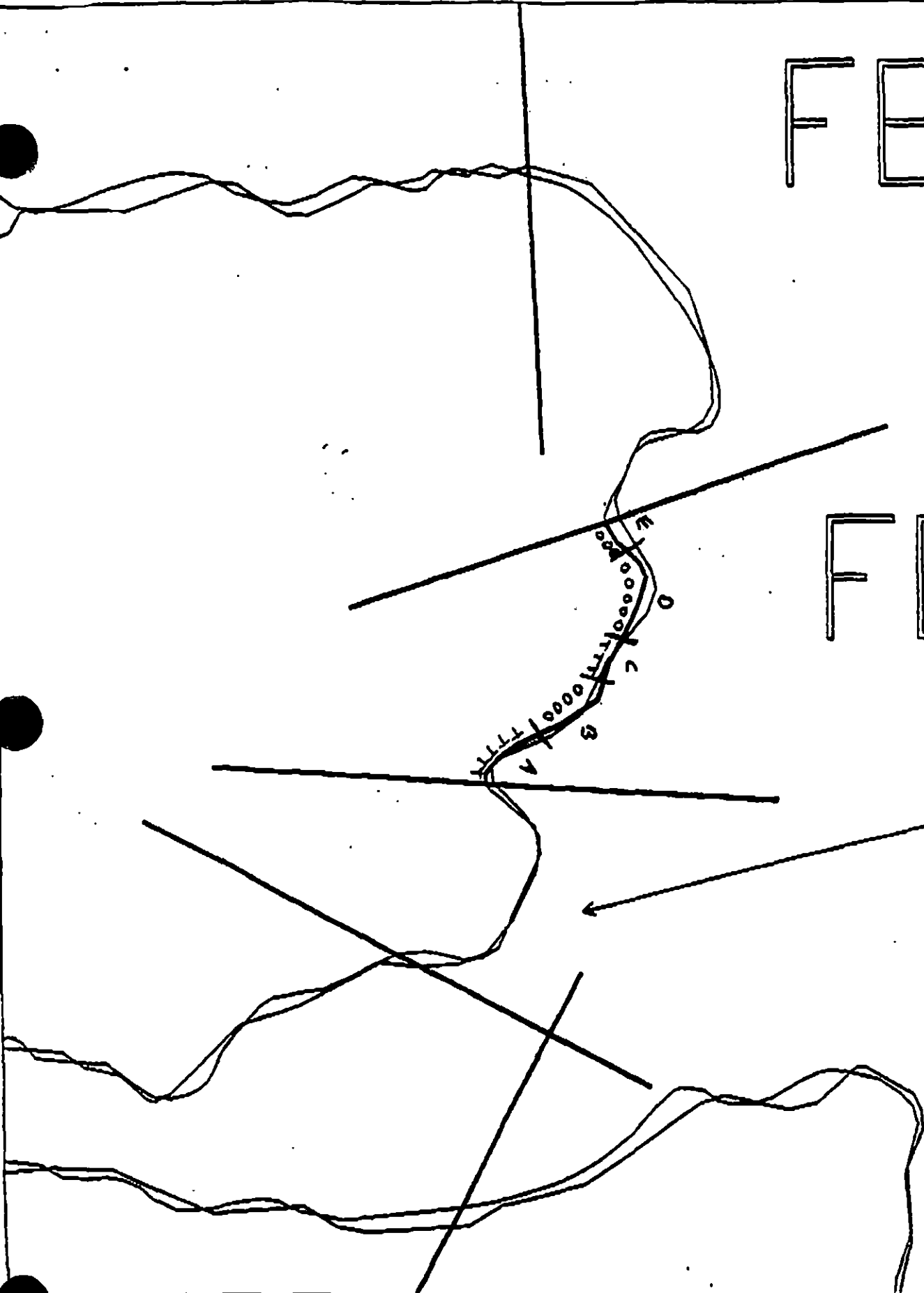
FB-12

ADEC Segment Length: 372m

Map Key: GOA-94

Name: Portland

Date: 3-27-90



SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION C (3 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

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

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

SHPO SIGNATURE: Charles E. H. Jones DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 46 m: No Oil 0 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: 4/12/90.

ADEC JOHN BAKER
EXXON ANDY TATE
NOAA Burl Westcott
USCG M. J. HALL

FOSC:

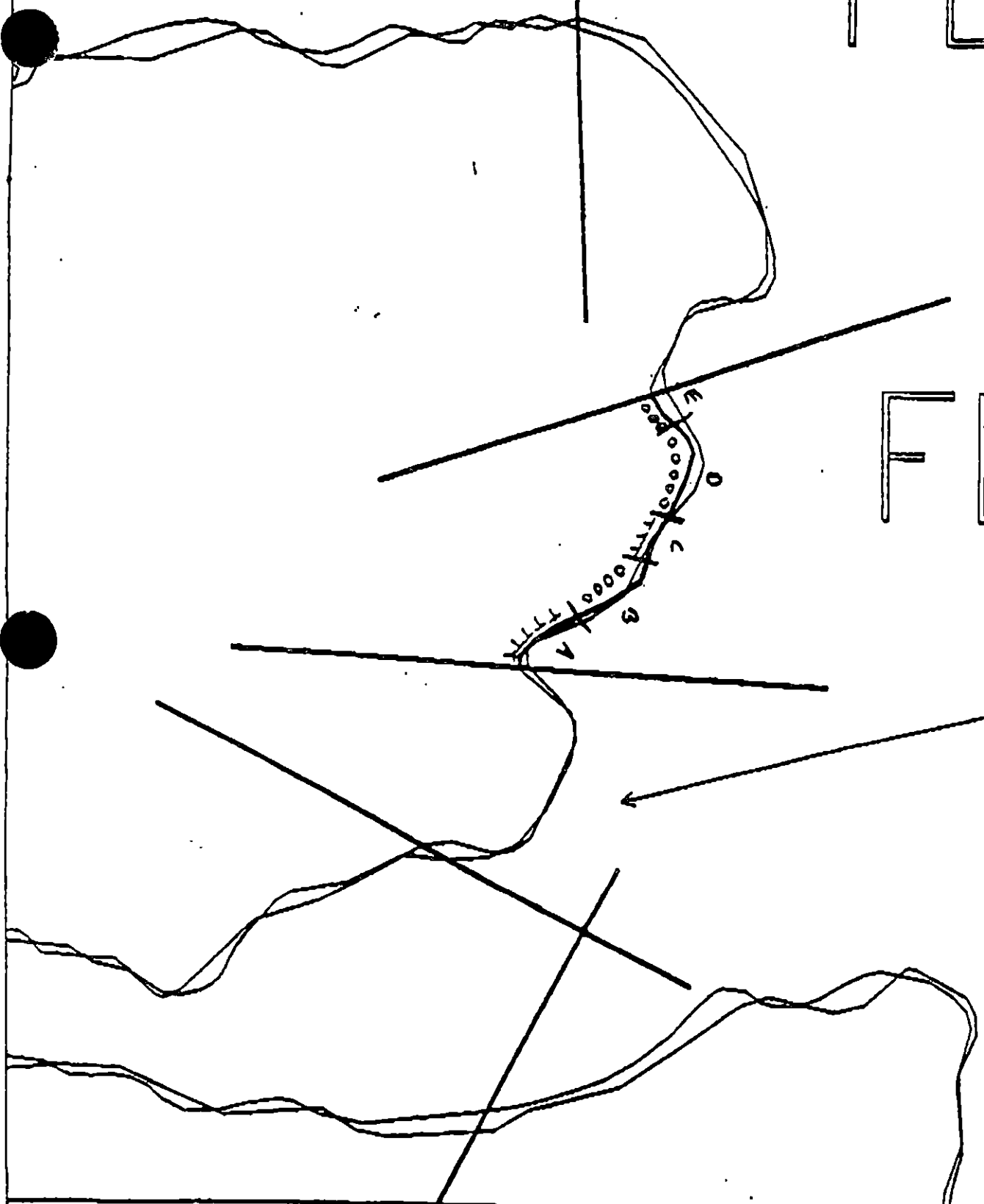
DATE: 4-19-90

FB-

FB-

F{

F



XXXX Wide

//// Medium

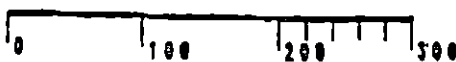
--- Narrow

TTTT Very Light

OOOO

FB-12

ADEC Segment Length: 372m



Map Key: GOA-94

Name: Pacific

Date: 3-27-93



SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION D (4 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

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

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

SHPO SIGNATURE: *Charles E. Brown*

DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 109 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: 4/12/90

ADEC *John Bauer*

EXXON *Andy Tetz*

NOAA *Burl Wescott*

USCG *M. J. Hall*

FOSC: *by L*

DATE: 4-19-90

F B -

FB -

F

F

XXXX Wide

//// Medium

----- Narrow

TTTT V. 2. 1. 1. 1. 1.

FB - 12

ADEC Segment Length: 372m

Map Key: GOA-94

Name: Pearce!

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION E (5 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

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

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

SHPO SIGNATURE: Charles J. Holmes DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 37 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: 4/12/90.

ADEC JOHN BAUER John Bauer

EXXON ANDY GIL Andy Gil

NOAA Bud Wescott Bud Wescott

USCG M. J. HALL M. J. Hall

FOSC: my L DATE: 4-19-90

FB-

FB-

FE

F

XXXX Wide

//// Medium

--- Narrow

TTTT

FB-12.

ADEC Segment Length: 372m

Map Key: GOA-94

Name: Prater

2.2.2.2.2

REGION: KODIAK

SEGMENT: ST/ K0204-FB-012

SUBDIVISIONS: A (1 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION A (1 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 83 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: _____ 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 / K254 / FB 212 SUBDIVISION: A, B, C, D, E DATE 3/30/90

NOAA
USEG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Observations concur with description below. Some oil could be removed particularly in subdivision c. However believe disturbance from treatment crew would be more detrimental to area than removal of the small amount of oil.

ADEC

NAME Scott Shelter SIGNATURE Scott Shelter

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Segments B, D, & E NO OIL OBSERVED.

Segment A has some staining on boulders south west of Segment B. Staining found is sporadic and V Light. NO pooling observed in Sediment. Segment C impact on boulder and between cobble has a greater thickness than Segment A. CLEANABLE OIL LESS THAN one bag. But could be dug out of Boulder with great difficulty and time. Possible clean during FB-11 & 13 time.

LAND MANAGER

NAME LINDA HAGEN SIGNATURE Linda M. Hagen

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Oil stains observed on small areas as described. clean-up would be labor intensive due to handling of individual rocks, although area is not large.

SHORELINE OILING SUMMARY

REVISION NO.

OG Penland USCG Naughton SEGMENT ST/ K0204 / F0012
 BIO Seicht LAND REP Hagen - USCG SUBDIVISION A
 EXXON Oxy ADEC Shelton TIME 10 : 07 TO 11 : 15
 TEAM NO.: 19 TIDE LEVEL: -2.44 to -1.44 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 40 % B 50 % C 10 % P 0 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 0 % Hang 50 % Vert 50 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hk
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 60 m NO 0

SURFACE OIL

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

PAVEMENT: H F S N/A sq. m by N/A

PATTIES / TARBALLS N/A Rey

NEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLE
☐ YES ☒ N

TYPE N/A

#BAGS N/A

Photographs:

Roll No. 19-1

Frames 21-27

SUBSURFACE OIL

NO PITS DUG

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	UO	UC	U	U		
C.																			

COMMENTS

- oil stain scattered (very, very lightly) in boulder beach stretching the small head.
- boulders apparently sheltered this area from waves resulting in the presence of oil this year
- no pits dug do is shallow bedrock/boulder occurrence

IG Penland

SEGMENT 2204/F0012

SUBDIVISION A, B, C, D

DATE 3 / 30 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☒ Substrate Character
- ☒ Est. IAWL/WR
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit 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

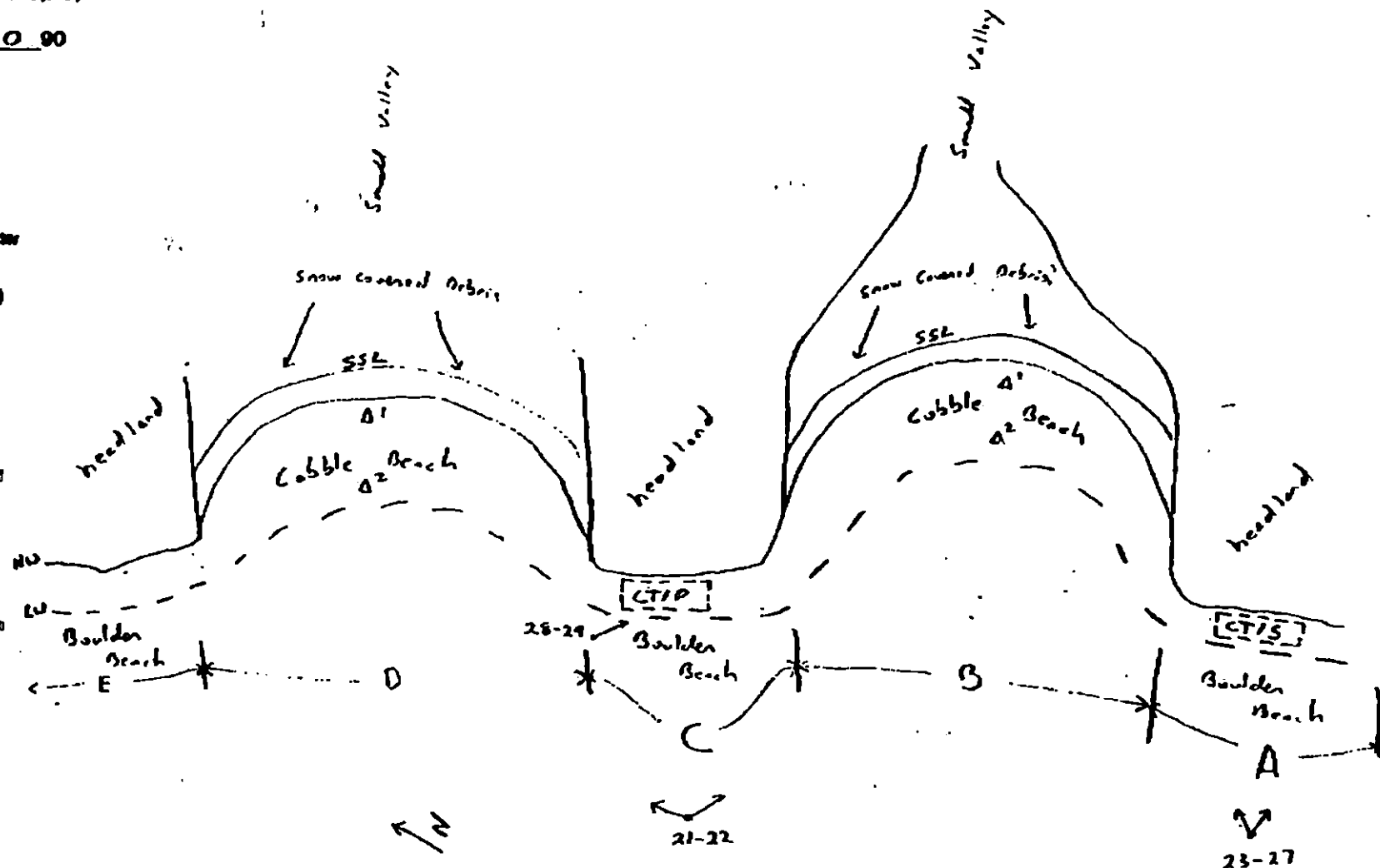
CT/S
Splashed Distribution

CT/S
Splashed Distribution

Med Vegetation

1 →
Photo location, direction,
and number

ETCH MAP



Character Length (m): AP 0 PO 0 CY 0 CT 120 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0

REVISIONS

SHORELINE ECOLOGICAL SUMMARY

REVISION: 0302

Segment ST / FBO12 Subdivision A, B, D, E Date (mo / day / yr) 3 / 30 / 90

Time (24 hr) 10:01 Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 15 (3) Cobble 80 (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40
- (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	X	2	2	2	2	2	2	2	2	2
3	3	X	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	X	2	2	2	2	2	2
3	3	3	3	3	X	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

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:

Rounded, well-worked cobble at upper level, most mid level; no surface fauna
 Typical dense *B. cariosus* community on low-level cobble
 Probable *B. cariosus* spat at low level
 1J - PURSE SEINE AREA - RESTRICTIONS FROM 20 JULY → 30 SEPT

FBI

FB -

F

F

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

FB - 12

ADEC Segment Length: 372m

Map Key: GOA-94

Name: Pavani

REGION: KODIAK

SEGMENT: ST/ K0204-FB-012

SUBDIVISIONS: B (2 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION B (2 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 94 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

SHORELINE OILING SUMMARY

REVISION NO. 03/2

OG Penland USCG Naughton SEGMENT ST/ K0204 / F0012
 BIO Slight LAND REP Hagen SUBDIVISION B
 EXXON Oyers ADEC Sheldon TIME 10:07 to 11:15
 TEAM NO.: 19 TIDE LEVEL: -2 ft. to -1 ft DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 0 % B 10 % C 50 % P 20 % G 20 % 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 100

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IS	IP	IR	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 N/A sq. m by N/APATTIES / TARBALLS N/A BANEAR SHORE SHEEN? ☒ NO BR RW SL T

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECT

☐ YES ☒ NOTYPE N/A#BAGS N/A

Photographs:

Roll No. 19-1Frames 21-22

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	OP	NO		DO	UC	1	2	3	4	5	6	7	8	SU	U	M	U		
1	30																						cobble, pebble
2	30																						cobble, pebble

COMMENTS

• Area exposed to more energy than headlands; cobble apparently removed oil in beach

• no oil found in sub-surface

OG Portland

SEGMENT ST/ K2204/F0012

SUBDIVISION ~~A~~, ~~B~~, ~~C~~, ~~D~~

DATE 3 / 30 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. 11W/LA/WL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
PR - No Subsurface Oil

2 ▲
Pit - Subsurface Oil

[CT/C]
Continuous Distribution

[CT/B]
Broken Distribution

[CT/P]
Patchy Distribution

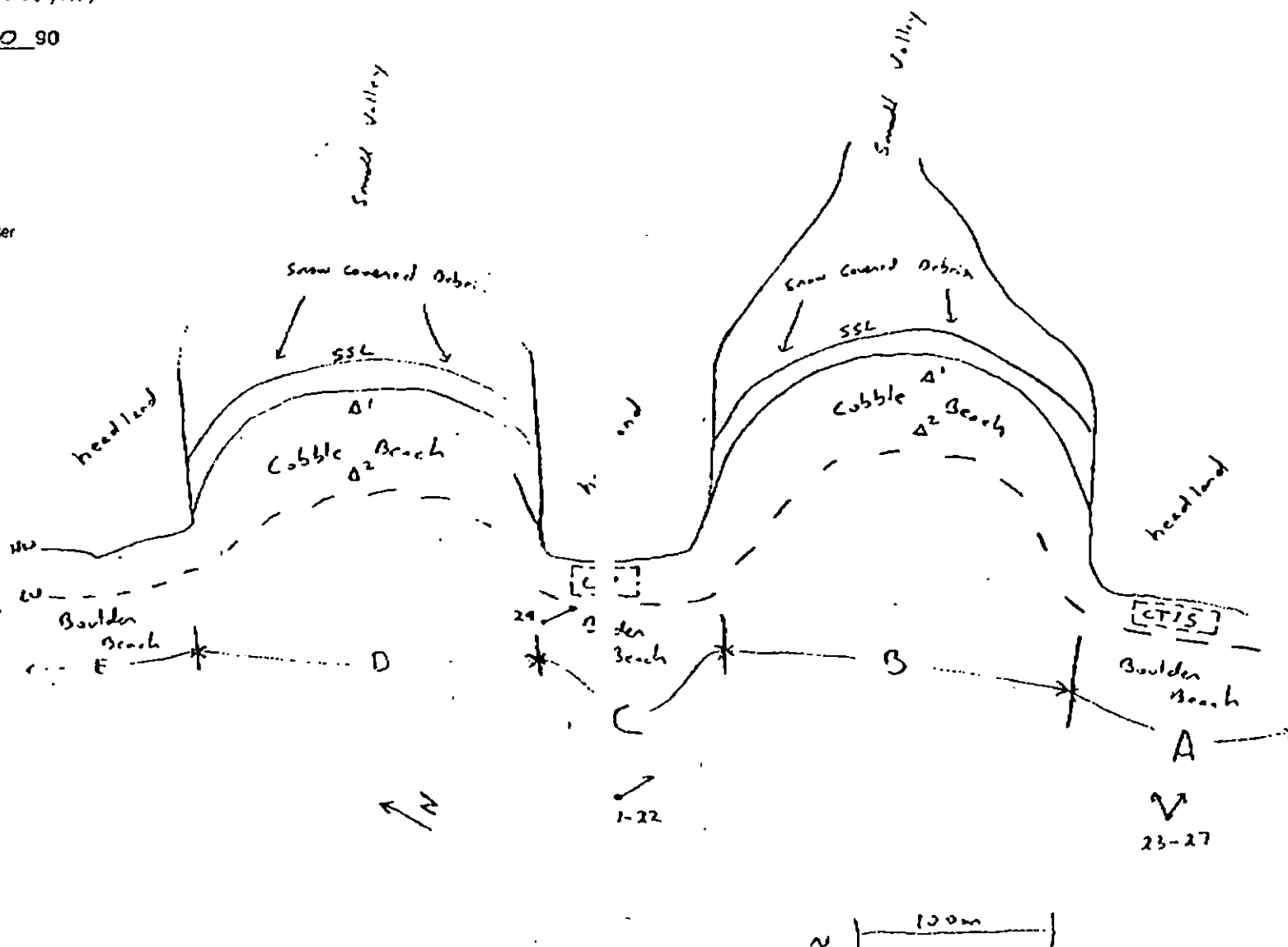
[CT/S]
Splashed Distribution

[CT/S]
Splashed Distribution

Oiled Vegetation

Photo location, direction, and number

CH MAP



Oil Character Length (m) AP C PO C CV C CT S ST C TB C FL C NO C

REVISION 02/25/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 0372

Segment ST / FB012 Subdivision A, B, D, E Date (mo / day / yr) 3 / 30 / 90

Time (24 hr) 10:01 Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 15 (3) Cobble 80 (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40
- (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 PRESEN

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 PRESEN

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

NOT PRESEN

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 PRESEN

Wildlife Observations/ General Comments:

Ecological Considerations:

Rounded, well-worked cobble at upper level; most rock level; no surface fauna
 Typical dense *B. cariosus* community on low-level cobble
 Probable *B. cariosus* spat at low level

1J - SALMON PURSE SEINE AREA. RESTRICTIVE TIME - 20 JULY TO 30 SEPT

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0224 / FB 012 SUBDIVISION: A, D, C, D, E DATE 3/30/90

NOAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Observations concur with description below. Some oil could be removed particularly in subdivision c. However, believe disturbance from treatment crew would be more detrimental to area than removal of the small amount of oil.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Segments B, D, & E NO OIL OBSERVED.

Segment A has some staining on boulders south west of Segment B. Staining found is sporadic and U Light. NO pooling observed in sediment. Segment C impact on boulder and between cobble has a greater thickness than Segment A. CLEANABLE OIL LESS THAN one bag. But could be dug out of Boulder with great difficulty and time. Possible clean during FB-11 & 13 time.

LAND MANAGER

NAME LINDA HAGEN SIGNATURE Linda M. Hagen

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Oil stains observed on small areas as described. clean-up would be labor intensive due to handling of individual rocks, although area is not large.

FB-

FB-

FE

F

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

FB-12

ADEC Segment Length: 372m

Map Key: 60A-94

Name: Posidon!

Date: 3-27-92

REGION: KODIAK

SEGMENT: ST/ K0204-FB-012

SUBDIVISIONS: C (3 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION C (3 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 46 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: _____ 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 / K0257 / F3212 SUBDIVISION: A, D, C, D, E DATE 3/30/90

NOAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Observations concur with description below. Some oil could be removed particularly in subdivision c. However believe disturbance from treatment crew would be more detrimental to area than removal of the small amount of oil.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Segments B, D, & E NO OIL OBSERVED.

Segment A has some staining on boulders south west of Segment B. Staining found is sporadic and V Light. NO pooling observed in sediment. Segment C impact on boulder and between cobble has a greater thickness than Segment A. CLEANABLE OIL LESS THAN one bag. But could be dug out of Boulder with great difficulty and time. Possible clean during FB-11 & 13 time.

LAND MANAGER

NAME LINDA HAGEN SIGNATURE Linda M. Hagen

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Oil stains observed on small areas as described. clean-up would be labor intensive due to handling of individual rocks, although area is not large.

SHORELINE OILING SUMMARY

REVISION NO. 02

OG Penland USCG Naughton SEGMENT ST/ K2224 / FQ 012
 BIO Saicht LAND REP Hagen SUBDIVISION C
 EXXON Ayers ADEC Shelton TIME 10:07 to 11:15
 TEAM NO.: 19 TIDE LEVEL: -2.41 to -1.54 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 40 % B 50 % C 10 % P 0 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 0 % Hang 50 % Vert 50 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hig
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 60 m NO 0

SURFACE OIL

CHARACTER	DISTRIBUTION					OIL / FILM COLOR					IMPACTED ZONES			
	TC	FB	FP	FB	FC	FC	FC	FC	FC	FC	SU	U	M	U
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT			X			X	X	X			X			
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL											X	X	X	X

PAVEMENT: H F S N/A sq. m by +/+PATTIES / TARBALLS +/+ 0 Deft B.NEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

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

Photographs:

Roll No. 19-1Frames 28-29

SUBSURFACE OIL

No. Pits Dug

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		UD	UC	FC	FC	FC	FC	FC	DU	U	M	U		
<u>C.</u>							.													
							.													
							.													
							.													
							.													
							.													

COMMENTS

• the oily patchy areas are slightly thicker and occur in larger patches than in subdivision A.

• oil still contained pine needles etc....

• No pits dug

BAT 3A290

OG Penland

SEARCH MAP

SEGMENT ST/ 254/F0012

SUBDIVISION A, B, C, D

DATE 3 / 30 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ OS 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

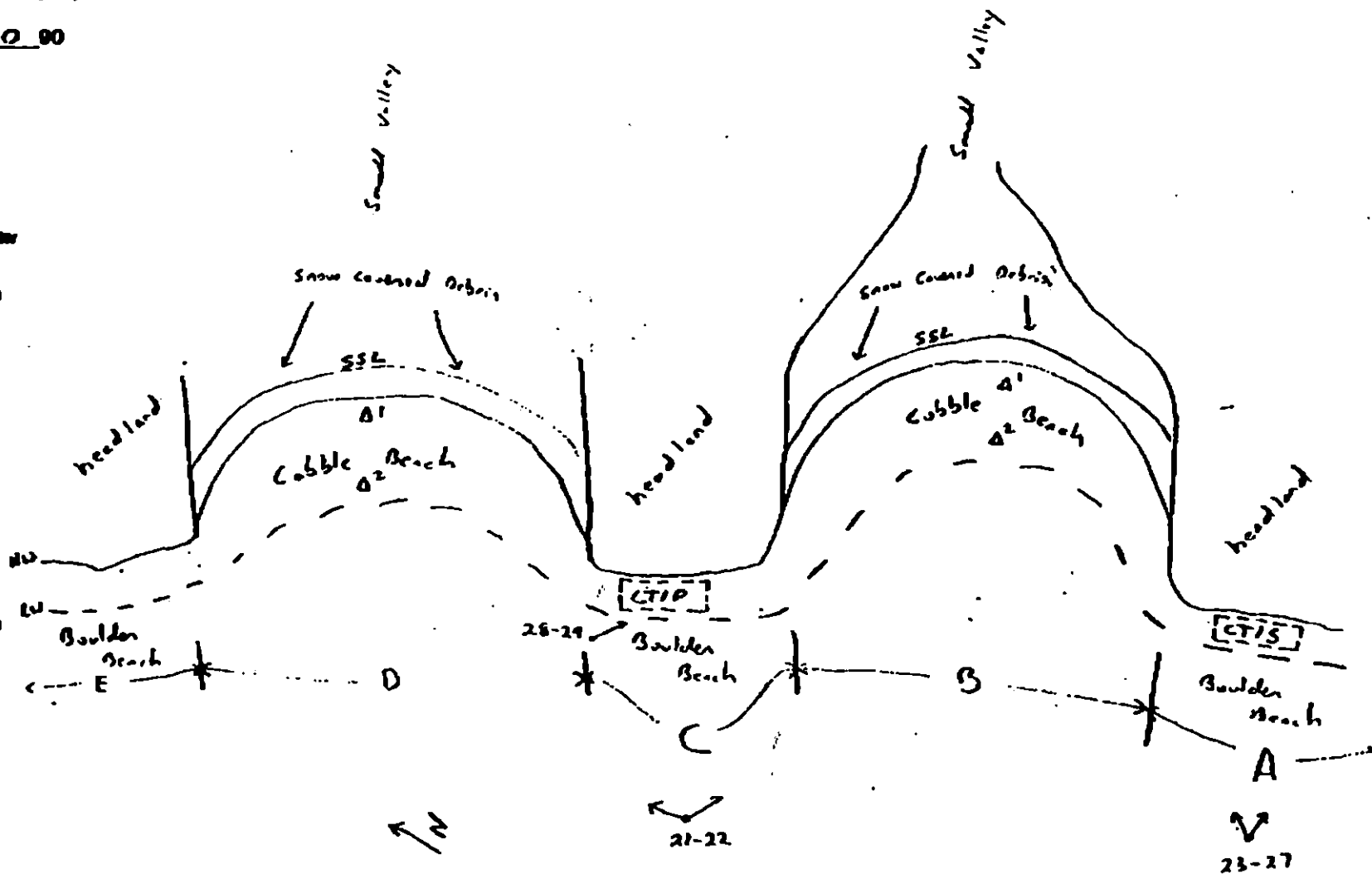
CT/S

Splashed Distribution

Oil on Vegetation

1 →

Photo location, direction, and number



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

REVISIONS

SHORELINE ECOLOGICAL SUMMARY

Segment SI / 1001 Subdivision 1 Date (mo / day / yr) 3/20/70Time (24 hr) 10:44 Biologist SPIGHT(A) Substrate type and % of segments:
(1) Bedrock 40 (2) Boulder 42 (3) Cobble 20 (4) Pebble (5) Sand (6) Silt (B) Overall % cover of biota (% of segment): Dense 60 Moderate 20 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 (O)

Photographs:
Roll No. Frames

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	X	X	X	2	2	2	2	2	2	2	2
3	X	3	X	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	X	X	2	2	2	2	2	2	2
3	3	3	X	X	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	X	X	X	2	X	2	2	2	2
3	3	3	X	X	X	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

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	2	X	2	2	2	2	2	2
3	3	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:
 Oiled area is backwater behind bedrock "mountain". There is little
 algal life in this area but there are lots of Littorines. (2 spp).
 Detrital attached fauna within oil seem normal

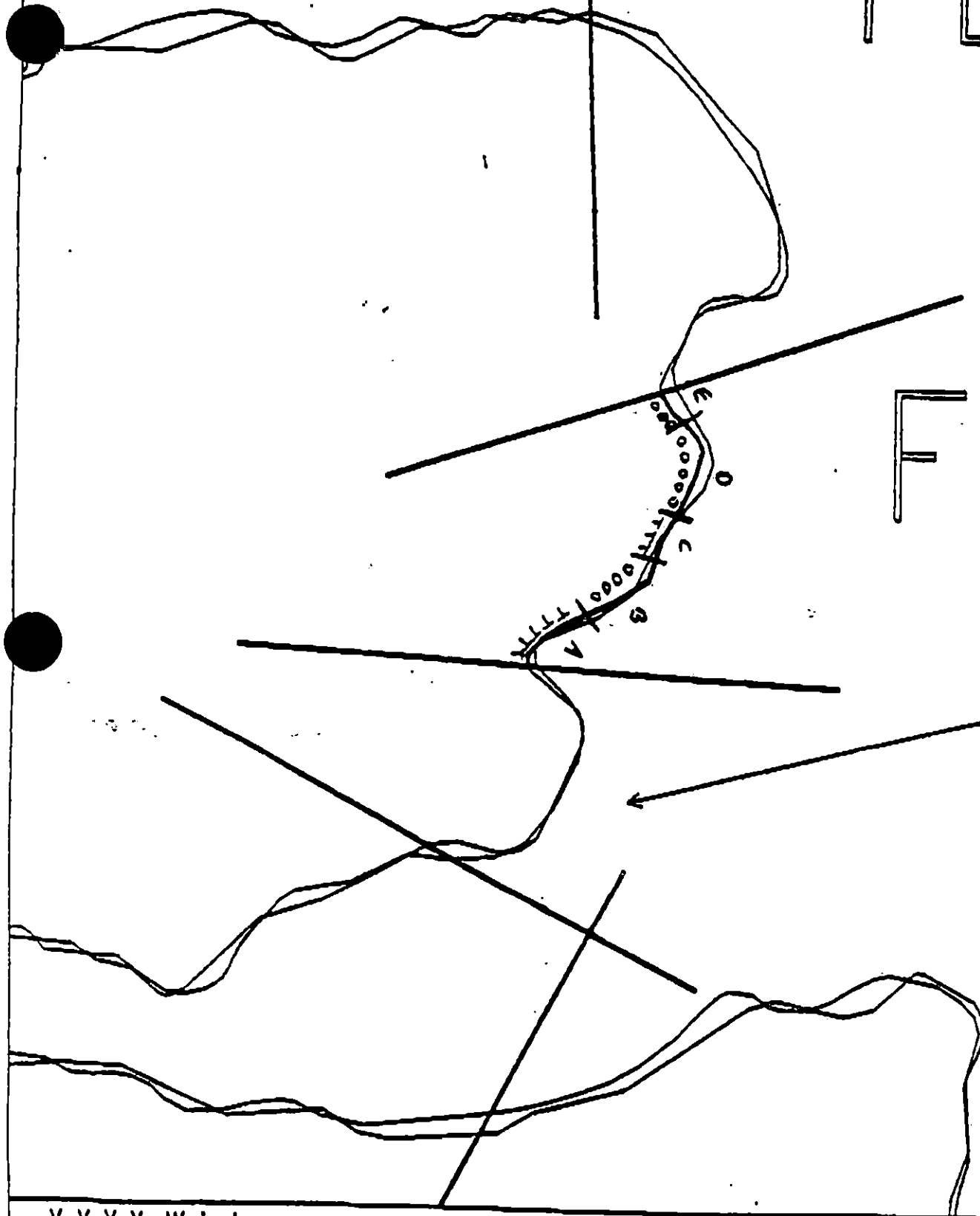
13 - SALMON PURSE SEINE AREA - RESTRICTIONS FROM 20 JULY → 30 SEPT

FB-

FB-

FE

F



XXXX Wide

//// Medium

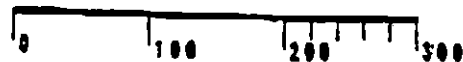
---- Narrow

TTTT Very Light

OOOO No Oil

FB-12

ADEC Segment Length: 372m



Map Key: GOA-94

Name: Pacific

Date: 3-27-94

Data Collected:

REGION: KODIAK

SEGMENT: ST/ K0204-FB-012

SUBDIVISIONS: D (4 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION D (4 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 109 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 / K2154 / F3012 SUBDIVISION: A, D, C, D, E DATE 3/30/90

NOAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Observations concur with description below. Some oil could be removed particularly in subdivision c. However, believe disturbance from treatment crew would be more detrimental to area than removal of the small amount of oil.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Segments B, D, & E NO OIL OBSERVED.

Segment A has some staining on boulders south west of Segment B. Staining found is sporadic and V Lign. NO pooling observed in sediment. Segment C impact on boulder and between cobble has a greater thickness than Segment A. CLEANABLE OIL LESS THAN one bag. But could be dug out of Boulder with great difficulty and time. Possible clean during FB-11 & 13 time.

LAND MANAGER

NAME LINDA HAGEN SIGNATURE Linda M. Hagen

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Oil stains observed on small areas as described. clean-up would be labor intensive due to handling of individual rocks, although area is not large.

SHORELINE OILING SUMMARY

REVISION NO. 001

OG Penland USCG Naughton SEGMENT ST/ K2224 / F0012
 BIO Seight LAND REP Nagen - USCG SUBDIVISION 0
 EXXON Overs ADEC Shelton TIME 10:07 to 11:15
 TEAM NO.: 19 TIDE LEVEL: _____ to _____ DATE 3/30/90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R _____ % B 10 % C 50 % P 20 % G 20 % S _____ % M _____ % V _____
 SLOPE: Lang 100 % Hang _____ % Vert _____ % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 100

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	1C	1B	1P	1S	2G	2Y	3G	3Y	4G	5G	6G	7G	8G
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL													

PAVEMENT: H F 3 N/A sq. m by N/APATTIES / TARBALLS N/A 0 Ref BA

NEAR SHORE SHEEN? NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS 1

Photographs:

Roll No. 19-1Frames 21-22

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		UD	UC	2G	2Y	3G	3Y	4G	5G	6G	7G	8G		
1	30					X	.													sable pebble
2	30					X	.													sable pebble
							.													
							.													
							.													
							.													

COMMENTS

ZAT 5A95C

Penland

MENT ST 204/F0012

DIVISION A, B, C, D

TE 3 / 30 90

HECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Map Sub Entry
- ☒ CO Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. INFLAVL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PR Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
No Subsurface CO

2 Δ
Subsurface CO

CT/C
Gravel Distribution

CT/B
on Distribution

CT/P
by Distribution

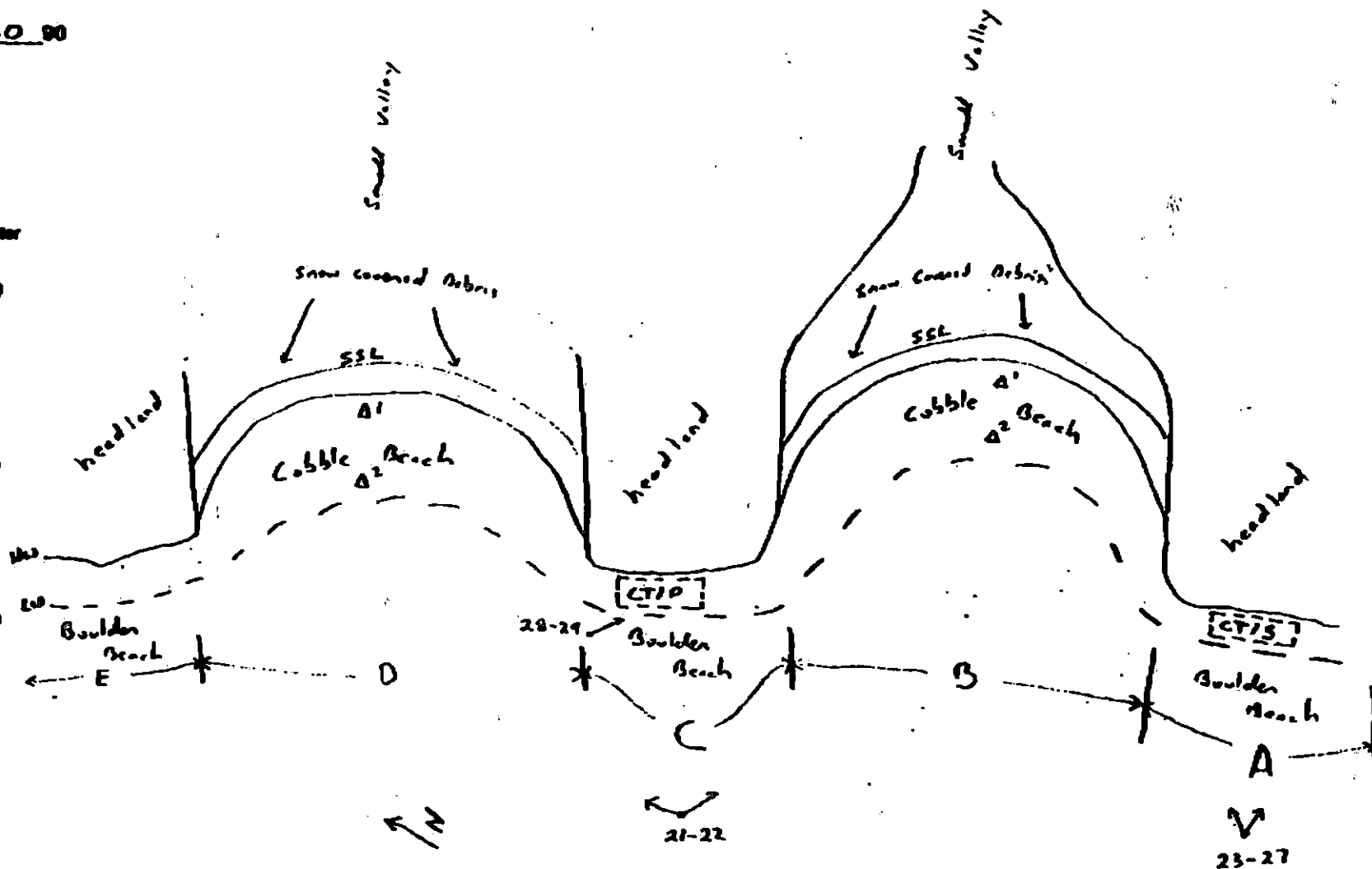
CT/S
shed Distribution

Vegetation

→

location, direction,
number

SKETCH MAP



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

REVISIONS

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03-72

Segment ST/ FB012 Subdivision A, B, D, E Date (mo / day / yr) 3 / 30 / 90

Time (24 hr) 10:01 Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 15 (3) Cobble 80 (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40
- (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	X	2	2	2	2	2	2	2	2	2
3	3	X	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 PRESEN

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 PRESEN

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	X	2	2	2	2	2	2
3	3	3	3	3	X	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

NOT PRESEN

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 PRESEN

Wildlife Observations/ General Comments:

Ecological Considerations:

Round, well-worked cobble at upper level; moss-rod level; no surface fauna
 Typical dense *B. cariosus* community on low-level cobble
 Probable *B. cariosus* spat at low level

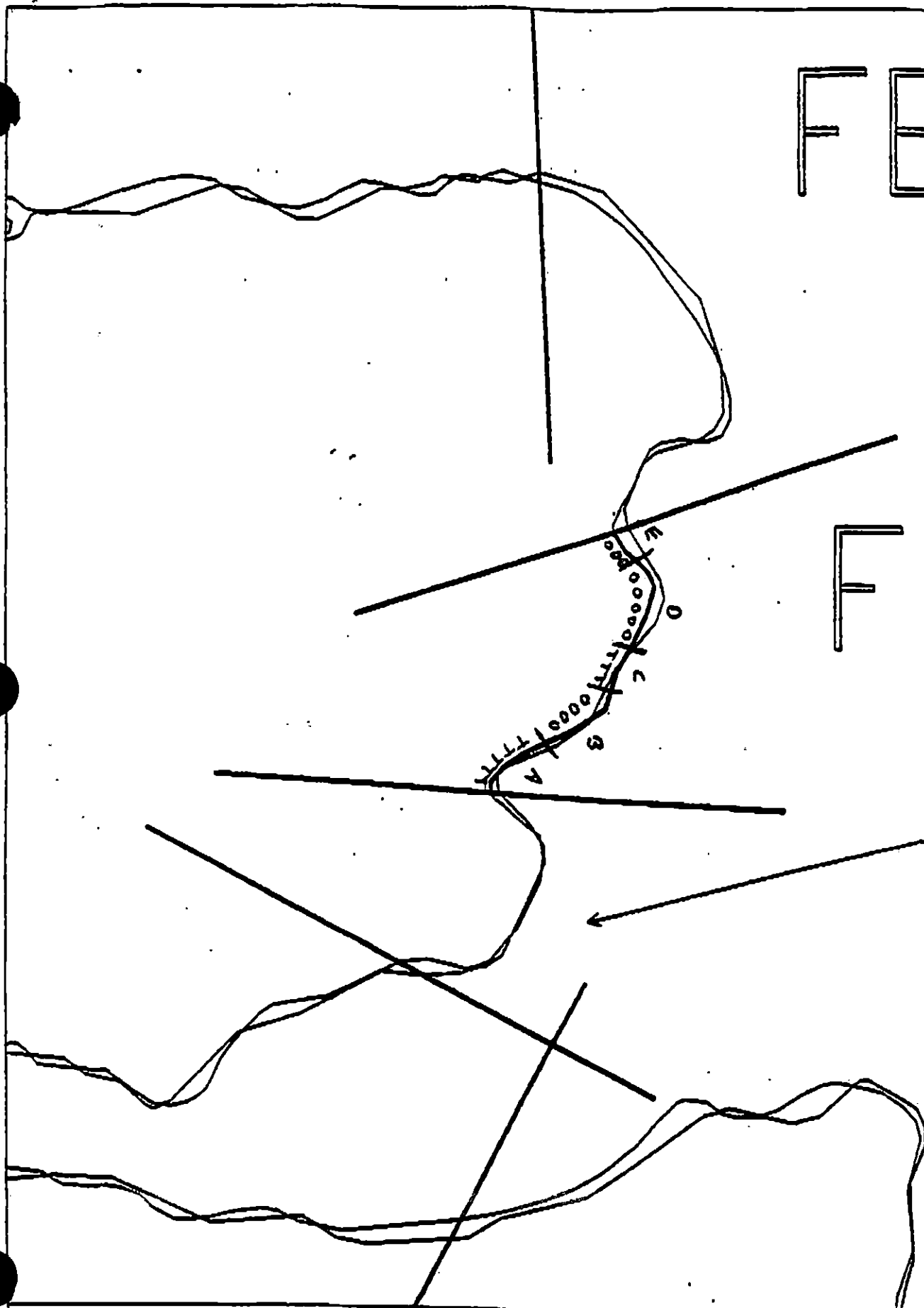
13 - SALMON PURSE SEINE AREA - RESTRICTIVE TIMES 20 JULY - 30 SEPT

FB-

FB-

FE

F



XXXX Wide

//// Medium

---- Narrow

FB-12

AOEC Segment Length: 372m

Map Key: GOA-94

Name: Portland

REGION: KODIAK

SEGMENT: ST/ K0204-FB-012

SUBDIVISIONS: E (5 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-012 SUBDIVISION E (5 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30.

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

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 0 m: No Oil 37 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0254 / F3012 SUBDIVISION: A, D, C, O, E DATE 3/30/90

NOAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Observations concur with description below. Some oil could be removed particularly in subdivision c. However believe disturbance from treatment crew would be more detrimental to area than removal of the small amount of oil.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Segments B, D, & E NO OIL OBSERVED.

Segment A has some staining on boulders south west of Segment B. Staining found is sporadic and light. NO pooling observed in sediment. Segment C impact on boulder and between cobble has a greater thickness than Segment A. CLEANABLE OIL LESS THAN ONE BAG. But could be dug out of Boulder with great difficulty and time. Possible clean during FB-11 & 13 time frame.

LAND MANAGER

NAME LINDA HUGGON SIGNATURE Linda M. Huggon

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Oil stains observed on small areas as described. clean-up would be labor intensive due to handling of individual rocks, although area is not large.

SHORELINE OILING SUMMARY

REVISION NO.

OG Penland USCG Naughton SEGMENT ST/ K0204 / #0012
 BIO Spight LAND REP Wegen SUBDIVISION E
 EXXON Over ADEC Shelton TIME 10 : 07 to 11 : 15
 TEAM NO.: 19 TIDE LEVEL: to DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 52 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 40 % B 50 % C 10 % P 0 % G 0 % S 0 % M 0 % V 0
 SLOPE: Lang 0 % Hang 50 % Vert 50 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hig
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 52

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	IC	IB	IF	IR	1	2	3	4	SU	U	M	U
ASPHALT PAVEMENT												
POOLED												
COVER												
COAT												
STAIN												
MOUSSE												
PATTIES												
TARBALLS												
FILM												
NO OIL									X	X	X	X

PAVEMENT: H F S N/A sq. m by N/APATTIES / TARBALLS 0 N/A RevNEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECT

☐ YES ☒ NOTYPE N/A#BAGS N/A

Photographs:

Roll No. 19-1Frames 21-22SUBSURFACE OIL No Pits Dug

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		UD	UC	1	2	3	4	5	SU	U	M	U		

COMMENTS

No Oil

No Pits Dug due to shallow occurrence of isodra.

JAT 3/30/90

g Penland
 SEGMENT ST/ K2254/F0012

SKE MAP

SUBDIVISION A, B, C, D

DATE 3 / 30 90

CHECKLIST

- ☒ M Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bdry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. IHW/LWL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
 No Subsurface Oil

2 Δ
 Subsurface Oil

CT/C
 Crude Distribution

CT/B
 Bitumen Distribution

CT/P
 Poly Distribution

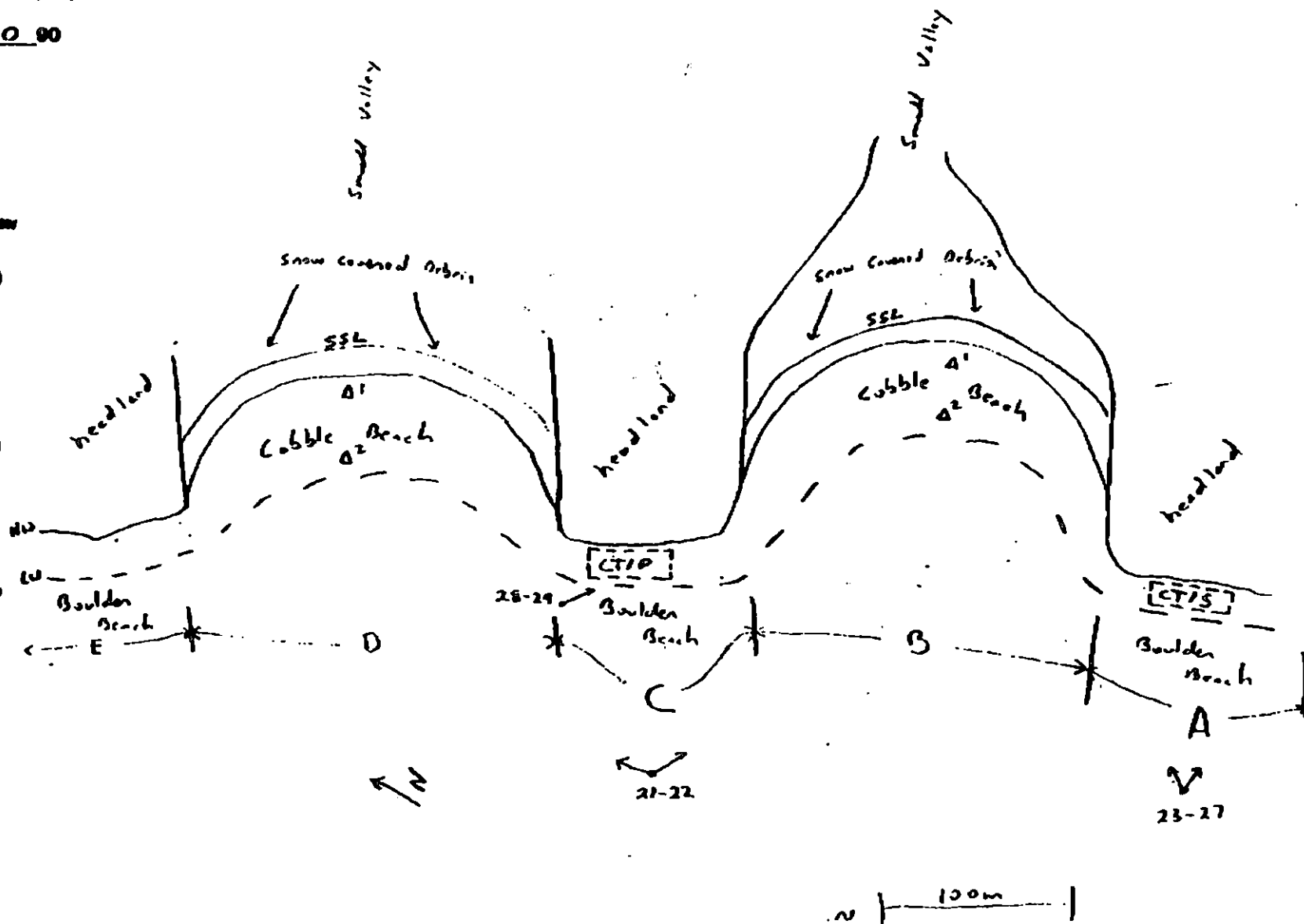
CT/S
 Sealed Distribution

ed Vegetation

to location, direction,
 number

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

REVISIONS



SHORELINE ECOLOGICAL SUMMARY

REVISION: 037

Segment ST/ FB012 Subdivision A, B, D, E Date (mo / day / yr) 3/30/90

Time (24 hr) 10:01 Biologist SPIGHT

(A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 15 (3) Cobble 80 (4) Pebble (5) Sand (6) Silt

(B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40

(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	X	2	2	2	2	2	2	2	2	2
3	3	X	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	X	2	2	2	2	2	2
3	3	3	3	3	X	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

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:

Round, well-worked cobble at upper level; moss-rod level; no surface fauna
 Typical dense *B. cariosus* community on low-level cobble
 Probable *B. cariosus* spat at low level

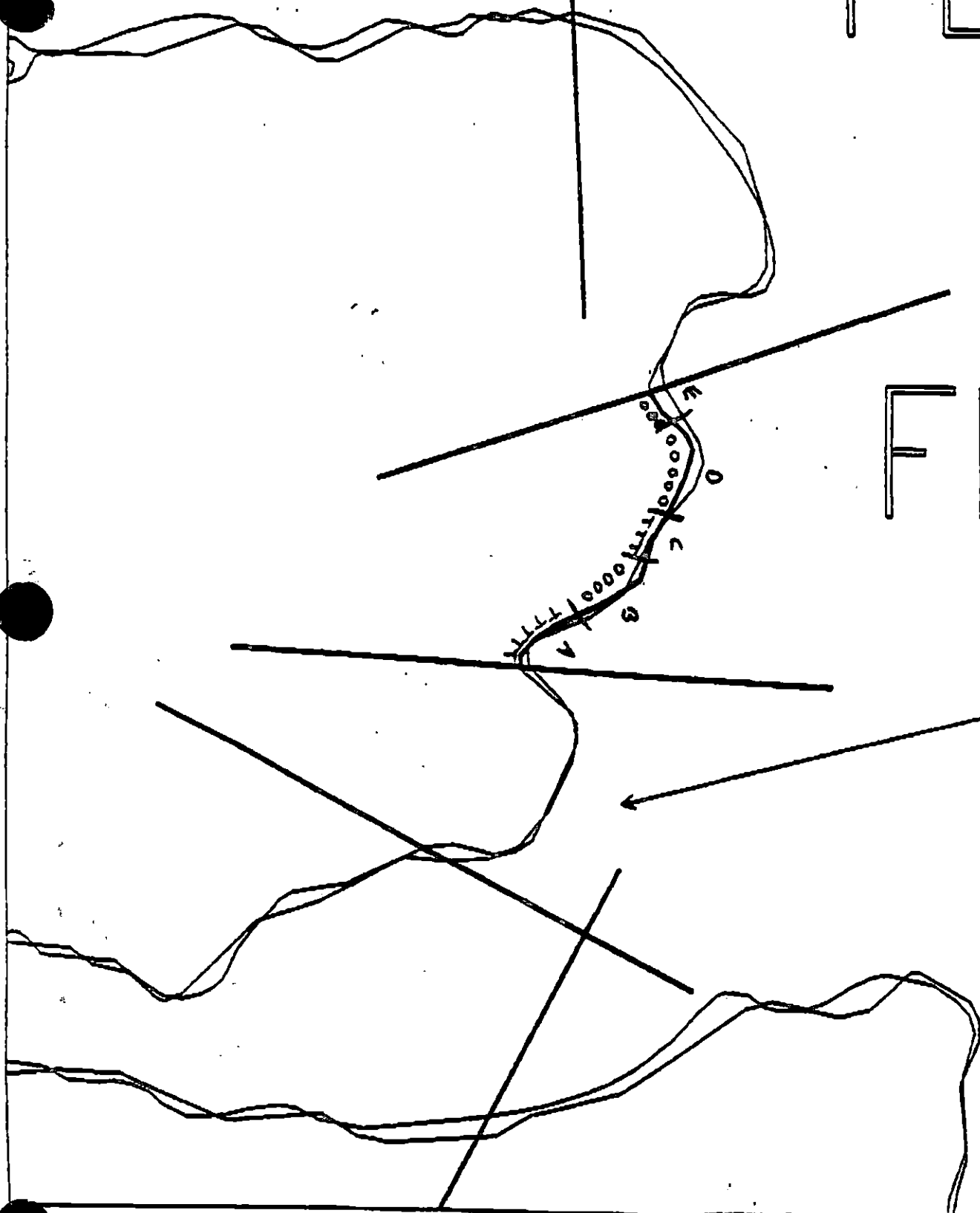
1 J - SALMON PORSE SEINE AREA - 20 JULY - 30 SEPT

FB-

FB-

FE

F



XXXX Wide

//// Medium

---- Narrow

TTTT Very light

FB-12

ADEC Segment Length: 372m

Map Key: GOA-94

Name: Panama

Date: 3-27-73

REGION: KODIAK

SEGMENT: ST/ K0204-FB-013

SUBDIVISIONS: A (1 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-013 SUBDIVISION A (1 OF 3) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 129 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: _____

SHORELINE OILING SUMMARY

REVISION NO. 02/20

OG Penland USCG Naughton SEGMENT ST/ K0204 F0013
 BIO Spisht LAND REP Hagen - USFWS SUBDIVISION A (1 of 3)
 EXXON Ryers ADEC Sheldon TIME 10:10:10
 TEAM NO.: 19 TIDE LEVEL: -1.8 ft to -1.0 ft DATE 3/29/90
 EST. SUBDIVISION LENGTH: 215 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock backed by small pond/stream
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 0 % B 40 % C 40 % P 20 % 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 0 m NO 215 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	TC	TS	TP	TS	SP	BP	CP	DP	EP	FP	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

PAVEMENT: H F S N/A sq. m by N/APATTIES / TARBALLS N/A BAG:NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTE
☐ YES ☒ NOTYPE N/A#BAGS N/APhotographs: overviewRoll No. 19-1Frames 546

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		UD	UC	SP	BP	CP	DP	EP	FP	SU	U	M	L		
1	20					X	-									X					cobble
2	20					X	-										X				cobble
3	20					X	-											X			cobble
							-														
							-														
							-														

COMMENTS

• No oil in AB-13-A

• Area was thoroughly examined

SEGMENT ^{KD104} FB-13

SUBDIVISION A

DATE 3 / 29 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)
- ☒ Pit Location(s) → *inverted bottom of boulders*
- ☒ Photo Location(s)

LEGEND

- 1 Δ
Pit - No Subsurface Oil
- 2 Δ
Pit - Subsurface Oil
- CT/C

Continuous Distribution
- CT/B

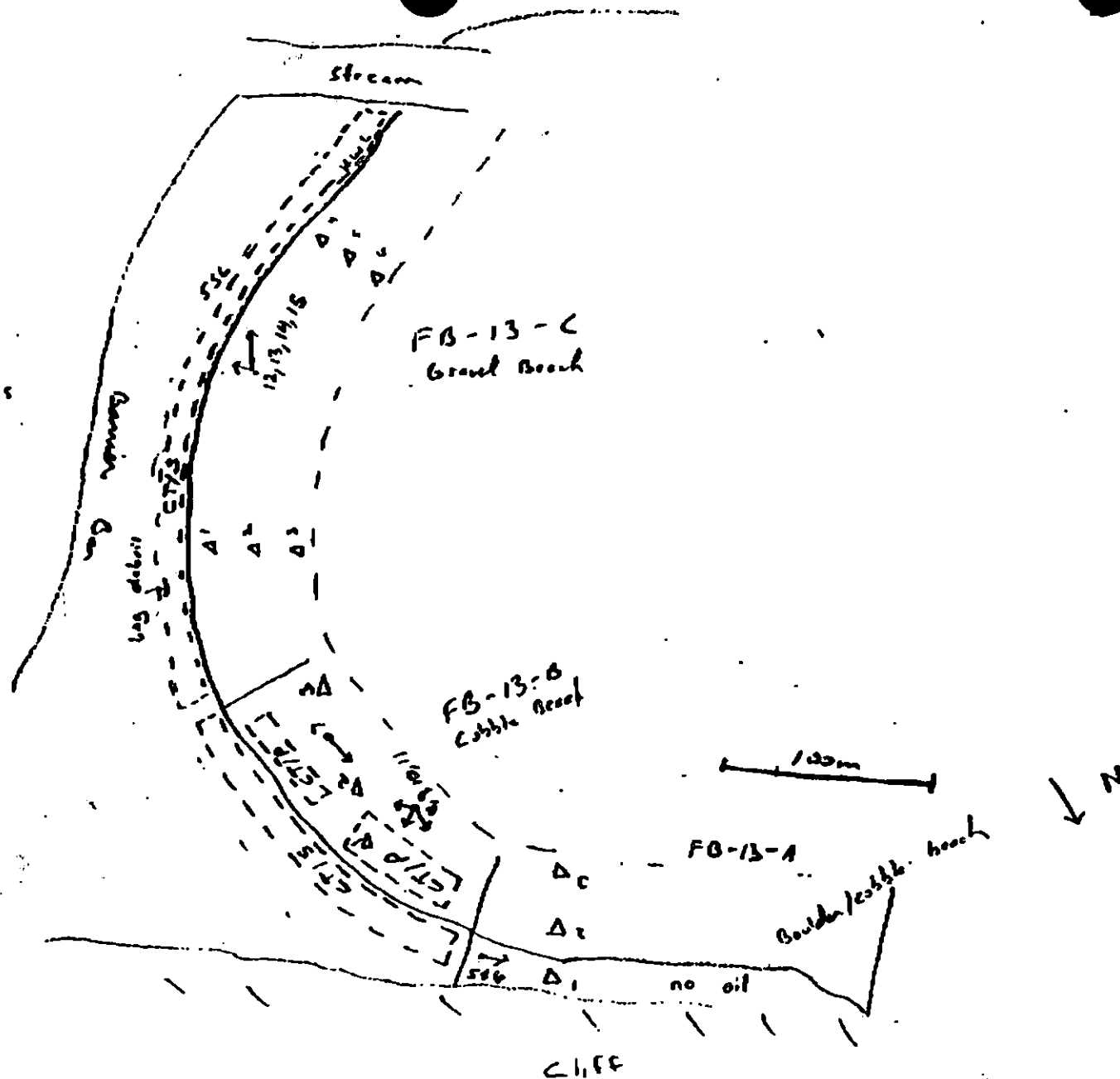
Broken Distribution
- CT/P

Patchy Distribution
- CT/S

Splashed Distribution
- $\bullet \rightarrow$
Oiled Vegetation
- $\bullet \rightarrow$
Photo location, direction, and number

R-11 19-1

SKETCH MAP



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 215

K0204 SHORELINE ECOLOGICAL SUMMARY

REVISION: 06/22/90

Segment ST / FB-13 Subdivision A Date (mo / day / yr) 3/29/90Time (24 hr) 10:15 Biologist T. Spilg

- (A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 25 (3) Cobble 65 (4) Pebble _____ (5) Sand _____ (6) Silt _____
- (B) Overall % cover of biota (% of segment): Dense 25 Moderate 37 Low 37
- (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	X	X	X	2	2	2	2	2	2	2
3	3	X	X	X	3	3	3	3	3	3	3
4	4	X	X	X	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	X	X	2	X	X	2	2	X	X
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

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	X	X	X	2	2	2	2	2
3	3	3	X	X	X	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	X	X	X	X	2	2
3	3	3	3	3	3	X	X	X	X	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:

Some upper areas have *B. glandula* "refuge zone"
 Cover very dense for cobble beach "Ancient" *B. cariosus* community.
Mytilus locally dense. Similar fauna in cobbles, boulders,
 Bedrock.

15 - SALMON - PURSE SEINE AREA RESTRICTIONS FROM 20 JULY - 30 SEPT

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / Ko 251 Es-13 SUBDIVISION: A DATE 3-29-90

NOAA

USGG

NAME John Naughton SIGNATURE John Naughton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Walked entire segment, No oil observed

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

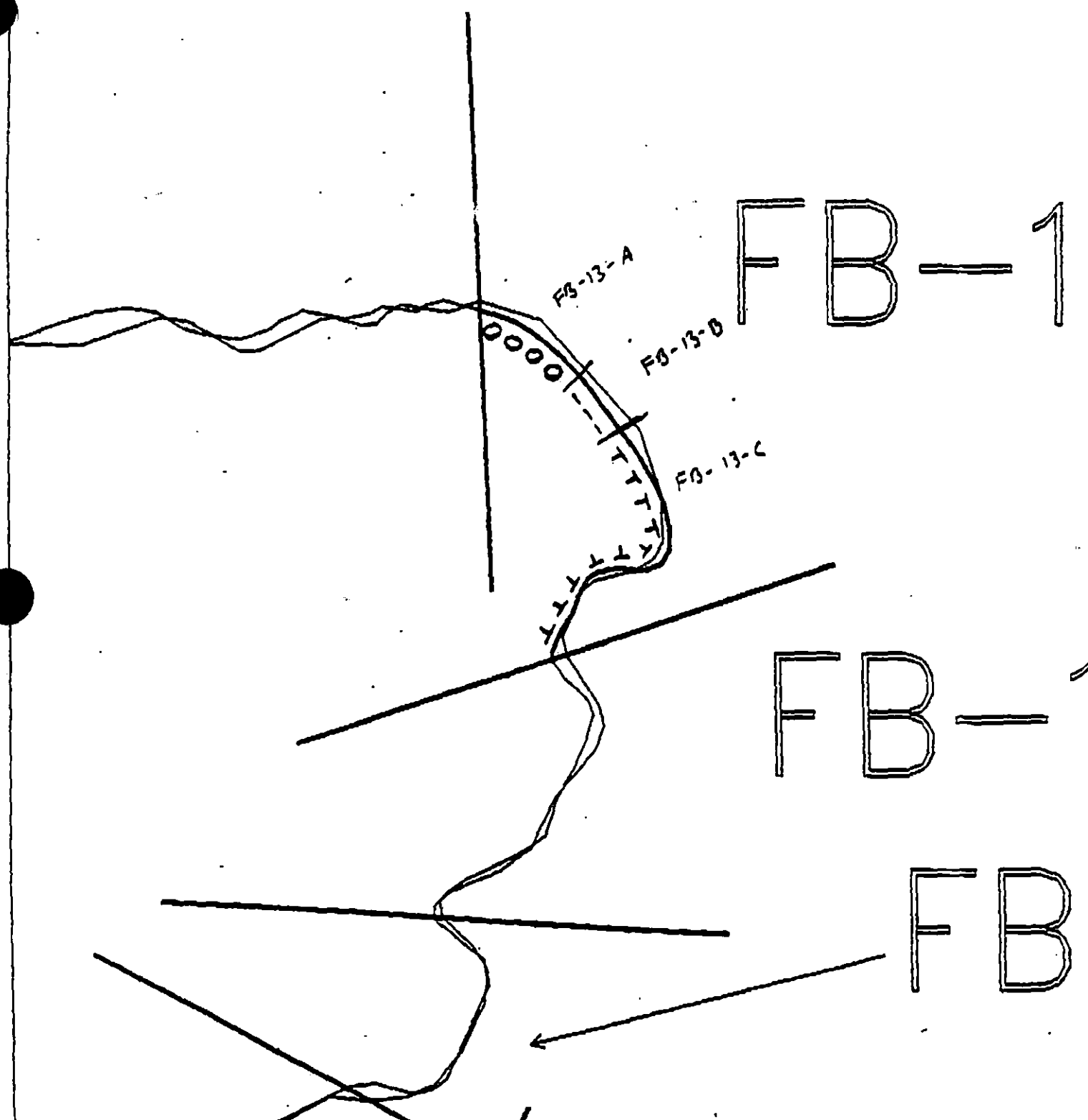
COMMENTS

No oil observed - walked 215 meters

LAND MANAGER

NAME Jay K. Bellingr SIGNATURE Jay K. Bellingr☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS



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

FB-13

ADEC Segment Length: 525m



Map Key: GOA-95
 Name: Shea Pond
 Date: 3-29-90
 Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-013 SUBDIVISION A (1 OF 3) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

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

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

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

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 129 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: 4/11/90

ADEC JOHN BAUER
EXXON ANDY TETZ
NOAA Bryl Wescoff
USCG G.A. KELLER

FOSC:

DATE: 4-20-90

SEGMENT ST/ FB-13

SUBDIVIS A

DATE 3 / 29 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Ed. HML/VL
- ☒ SSL
- ☒ 2 Profile Location(s)
- ☒ 4 Profile(s)
- ☒ Pit Location(s) → irregular bottom of boulders
- ☒ 2 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

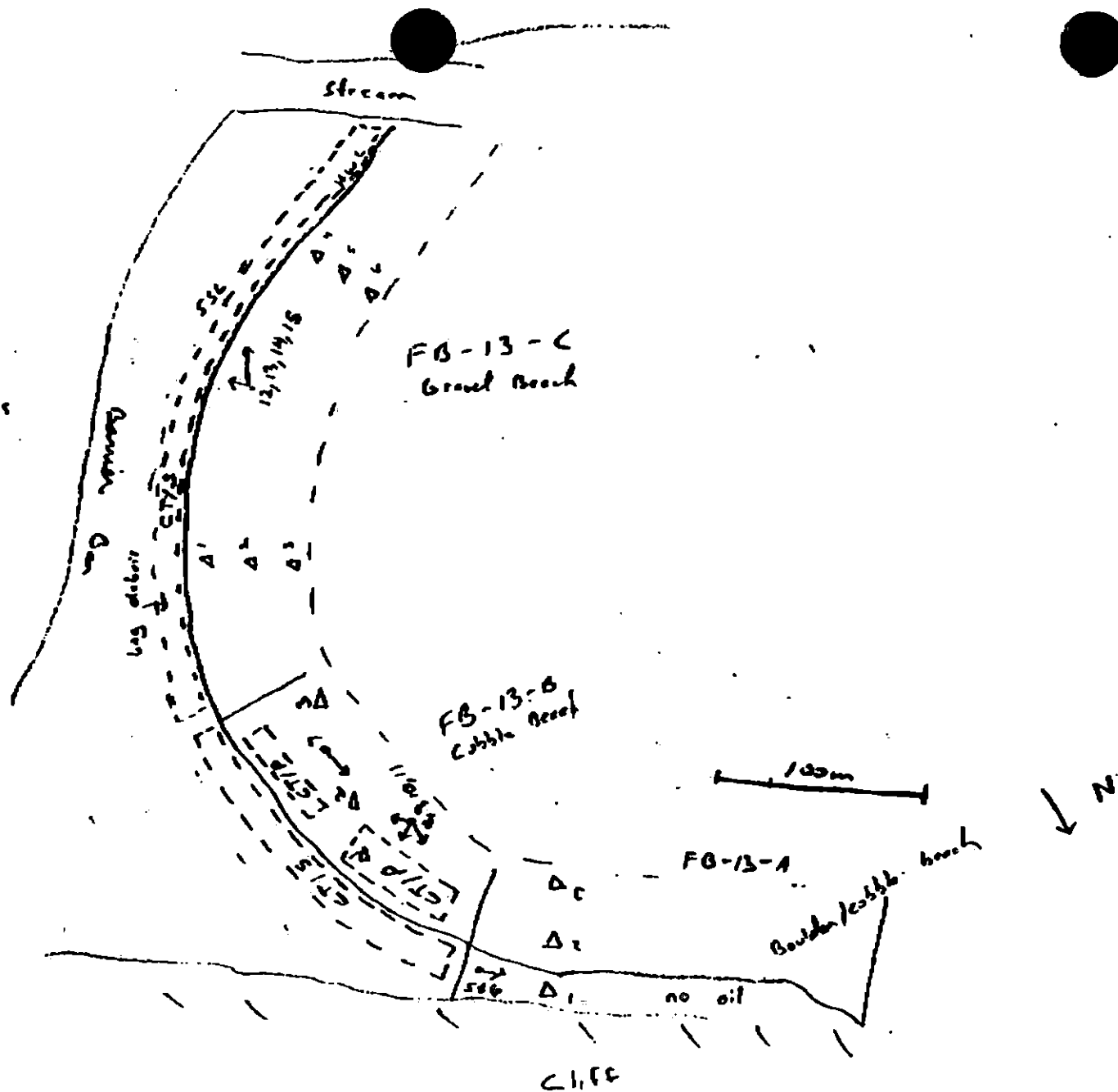
Oiled Vegetation

1 →

Photo location, direction, and number

R-11 19-1

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 215

REVISION: 01/24/90

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0204 Fig. 13 SUBDIVISION: A DATE 3-29-90NOAA
USGGNAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

Walked entire segment, No oil observed

ADEC
NAMENAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

No oil observed - walked 215 meters

LAND MANAGER

NAME Jay K. Bellinger SIGNATURE Jay K. Bellinger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

FB-1

FB-13-A

FB-13-B

FB-13-C

FB-

FB

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

FB-13

ADEC Segment Length: 525m



Map Key: GOA-95

Name: Shea Portland

Date: 3-29-90

Data Entered:

REGION: KODIAK

SEGMENT: ST/ K0204-FB-013

SUBDIVISIONS: B (2 OF 3)

SHORELINE OILING SUMMARY

REVISION NO. 002

OG Pea Island USCG Naughton SEGMENT ST/ FB-13
 BIO Spight LAND REP Hagen SFLWS SUBDIVISION 3
 EXXON Avon ADEC Shelton TIME 11:28 to 12:05
 TEAM NO.: 19 TIDE LEVEL: 0 ft 10 + 3 ft DATE 3 / 27 / 90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to W
 SURFACE SEDIMENTS: R 0 % B 20 % C 50 % P 30 % 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 100 m VL 0 m NO 0

SURFACE OIL

CHARACTER	DISTRIBUTION					OIL / FILM COLOR					IMPACTED ZONES			
	C	S	P	B	W	Y	OR	BR	BL	GR	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER			X								X		X	
COAT														
STAIN				✓		✓					✓			
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL												X	X	

PAVEMENT: H F S N/A sq. m by N/A

PATTIES / TARBALLS N/A BAG

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTE ☐ YES ☒ NO

TYPE N/A

#BAGS N/A

Photographs:

Roll No. 19-5

Frames 7-11

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-OM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UD	W	Y	OR	BR	BL	SU	U	M	L		
1	20					X	-									X				cobbles
2	20					X	-										X			cobbles
3	20					X	-											X		cobbles

COMMENTS - NO subsurface oil

- oil located on upper intertidal zone had a dk. brown mousse appearance, looked mobile
- oil could be found on the bottom of some boulders and cobbles
- stain splashes could be found on the base of the rock cliff and on some of the larger boulders

SEGMENT / F0-13

SUBDIVISION B

DATE 3 / 29 90

CHECKLIST

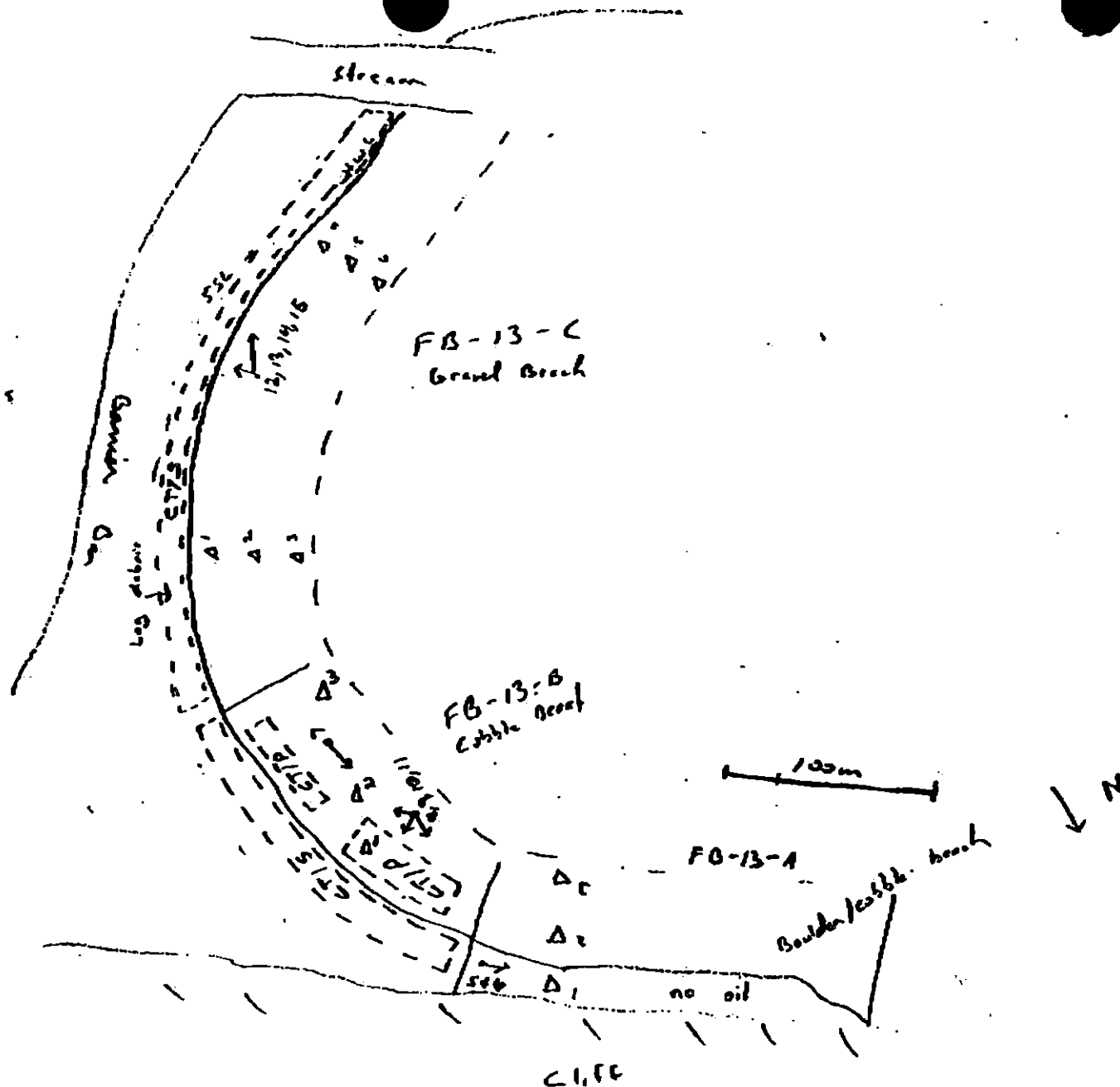
- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Spg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HML/LWL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PH Location(s) → *inspected 1.1 km of boulder*
- ☒ Photo Location(s)

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
- Oiled Vegetation
- 1 →
Photo location, direction, and number

R-11 19-1

SKETCH MAP



Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0

REVISION: 03/24/90

K0204.

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST / FB-13 Subdivision B Date (mo / day / yr) 3/29/90
 Time (24 hr) 10:15 Biologist T SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 0 (2) Boulder 5 (3) Cobble 95 (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 35 Low 35
- (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: 19-1
 Roll No.

Frames 1-4

BARNACLES Possible settlement

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

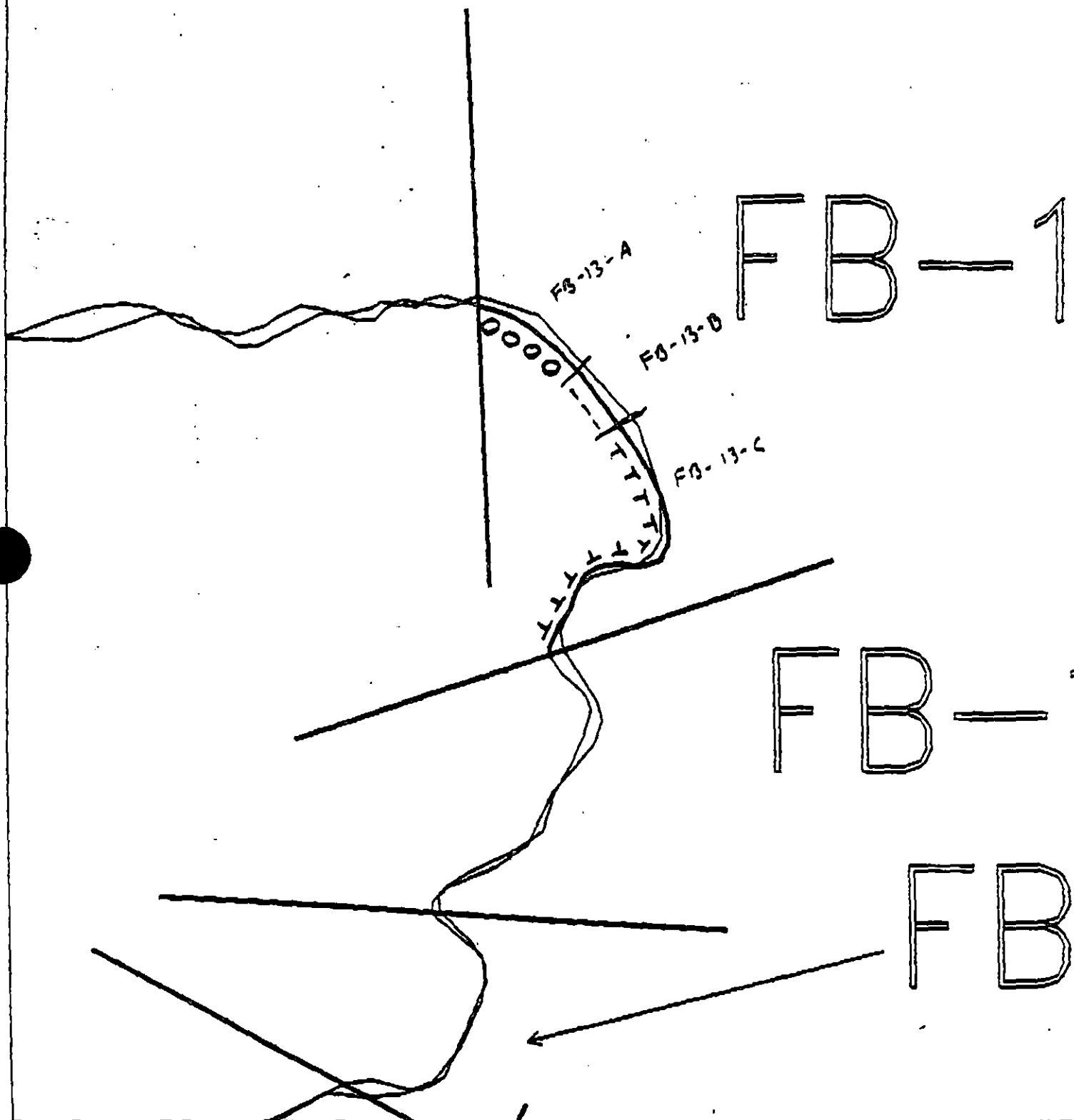
NOT PRESENT

Wildlife Observations/ General Comments:

Abundant wildlife signs above tide level
 Bird's active on water

Ecological Considerations:

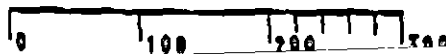
Stable cobble beach. Cobbles covered by ancient *Balanus cariosus*.
 Rich fauna associated. (gastropods, anemones, etc.)



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

FB-13

ADEC Segment Length: 525m



Map Key: GOA-95

Name: Shea Portland

Date: 3-29-90



SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-013 SUBDIVISION B (2 OF 3) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 72 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

5/11/90
☒ 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: AS PER FBSC COMMENTS MANUAL PICKUP OF ROSSIE PATCHES
AS INDICATED ON SKETCH

5/11/90

Real J. [Signature]
D.O. Romo
ALW.

TAG APPROVAL DATE: 4/11/90

ADEC JOAN BAUER [Signature]

EXXON ANDI TOTA [Signature]

NOAA Burt Wescott [Signature]

USCG G.A. HEITER [Signature]

FOSC: [Signature] DATE: 4-20-90

Do not agree with TAG recommendation.
clean as [Signature] requested by Sand Manager.

SEGMENT ST/ F0-13

SUBD N B

DATE 3 / 29 90

CHECKLIST

- ☒ N Area
- ☒ Approx. Scale
- ☒ Spc/Sub Entry
- ☒ Oil Dist.
- Width
- Length
- % Cover
- ☒ Substrate Character
- ☒ Est. HWLA/VL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PH Location(s) → irregular bottom of boulder
- ☒ 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

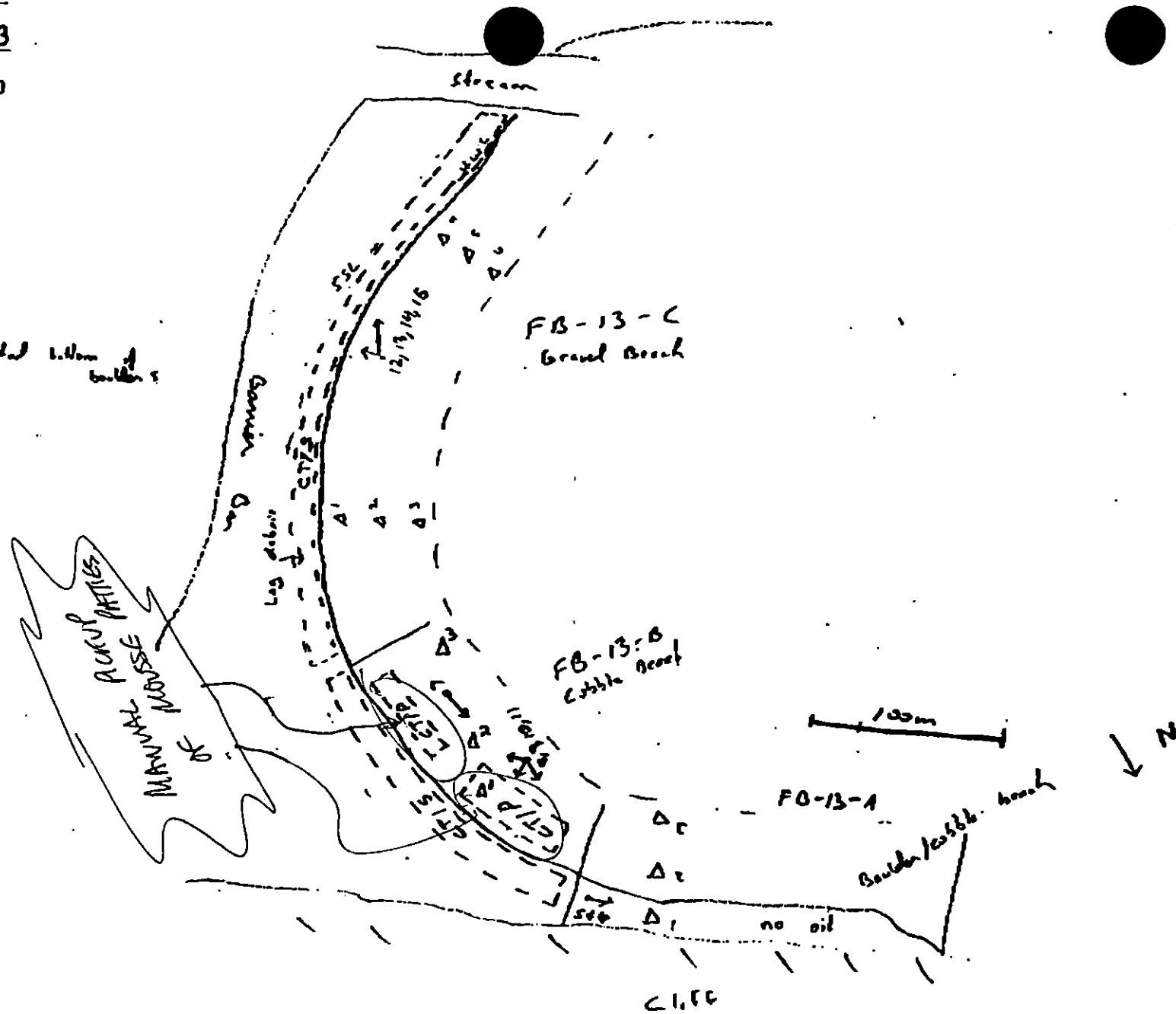
Oiled Vegetation

1 →

Photo location, direction, and number

R-11 19-1

SKETCH MAP



Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0

REVISION 032090

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K0204-FB-013 SUBDIVISION B (2 of 3)

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL INSPECTION/CONSULTATION REQUIRED.

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

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1J	Purse Seine Area	No constraint to manual pickup.
5T	Bald Eagle Nest	NO CONSTRAINT. Authorized per memo dated 6/10/90 from Mary Portner/USFWS to Rex Coulter/Exxon. Follow USFWS transit route through eagle nest buffer zone as described on attached map.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum. Avoid any unnecessary disturbance or damage to unrolled biota and substrate. Follow constraints and recommendations listed on attached map.

FOSC

D. Pauselli

Date

6-18-90

Prepared by

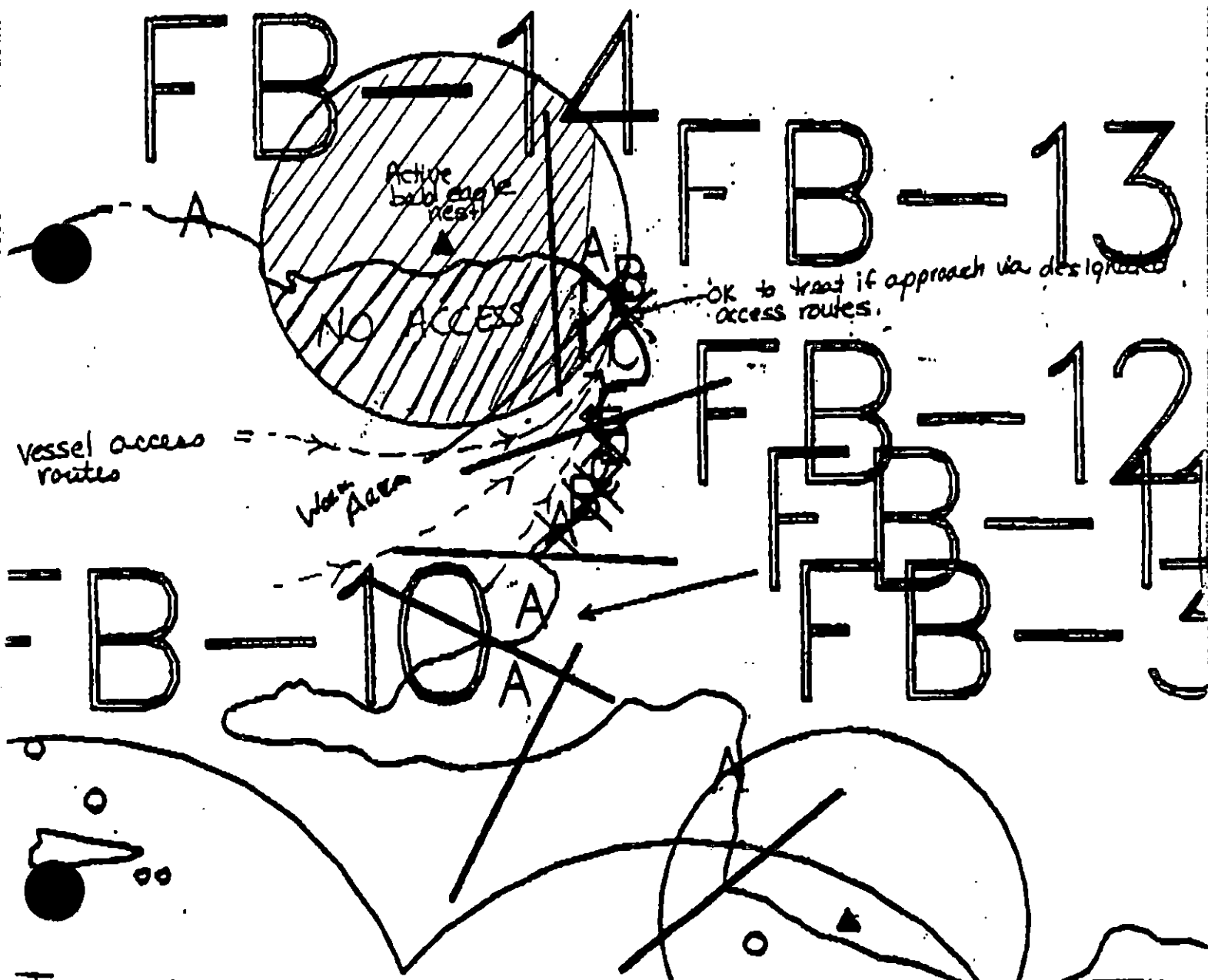
J. Phillips

Date

6/15/90

K204-FB-013B

- 1) Approach FB-13B using designated vessel access routes
- 2) Treat FB-13B with a minimum of noise and time spent on site.
- 3) If adult bald eagles are observed circling and vocalizing leave the area.
- 4) A USFWS monitor must be on site for treatment



TREATMENT
May 30, 1990

1 ECOLOGY MAP

★ treated colony

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-013 SUBDIVISION B (2 OF 3) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 72 m: V. Light 0 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	☐ Beach Cleaner
☐ <u> </u> Removal	☐ Other (see comments)

COMMENTS: SEE CONSTRAINTS ADDENDUM dated 6/15/90 JRP

TAG COMMENTS: AS PER FOSC COMMENTS MANUAL PICKUP OF LIQUID PARTICLES
AS INDICATED ON SKETCH

5/11/90

Paul J. [Signature]
PO [Signature]
AKW.

TAG APPROVAL DATE: 4/11/90

ADEC JOAN BAUER [Signature]
EXXON ANDI TATE [Signature]
NOAA Bert Wescott [Signature]
USCG G.A. MEYER G.A. Meyer

FOSC: [Signature] DATE: 4/10/90

Do not agree with this evaluation.
clean up necessary by [Signature]
1 year [Signature]

REGION: KODIAK

SEGMENT: ST/ K0204-FB-013

SUBDIVISIONS: C (3 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-013 SUBDIVISION C (3 OF 3) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30; Possible anadromous stream
(1A, 1B). Request ADF&G and USFWS to verify.

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

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 336 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 K0204 FB-13 SUBDIVISION: C DATE 3-29-90

USCG

NAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Dug series of pits in cobble beach. No subsurface oil observed. Slight amount of oil on wood debris.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

K0204 FB13 Sub. C. No oil observed - Staining on storm berm drift & some berm cobble. All pits were dug to 30 cm. No noticeable oil observed. Wave exposure is high and winter storms have changed FB13 cobble sand beach for the better.

LAND MANAGER

NAME Jay R. Bellinger SIGNATURE Jay R. Bellinger☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

SHORELINE OILING SUMMARY

REVISION NO. 02/22

OG Penland USCG Nearby SEGMENT ST/ FB-13
 BIO Spent LAND REP Hagan CSFWS SUBDIVISION C
 EXXON Bren's ADEC Shelton TIME 12:10 to 12:50
 TEAM NO.: 19 TIDE LEVEL: -1.8 ft to -1.9 ft DATE 3/29/90
 EST. SUBDIVISION LENGTH: 210 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 0 % B 0 % C 40 % P 40 % G 20 % 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 210 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	20	25	30	35	40	45	50	55	60	65	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				X		X							X			
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	

PAVEMENT: H F S N/A sq. m by N/A

PATTIES / TARBALLS N/A BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE N/A

#BAGS N/A

Photographs:

Roll No. SP-19-1

Frames 12-15

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-OS)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	30	35	40	45	50	55	60	65	SU	U	M	U		
1	30					X	-											X					Gravel
2	30					X	-												X				Gravel
3	30					X	-													X			Gravel
4	30					X	-											X					Gravel
5	30					X	-												X				Gravel
6	30					X	-													X			Gravel

COMMENTS

- Several pits dug, no oil found.
- dull black splashes are very scattered (1 splash per 30 m)
- six major pits dug → no oil
- > 10 minor pits dug → no oil

SEGMENT FB-13

SUBDIVISION C

DATE 3 / 29 / 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)

☒ Photo Location(s) → *ingested bottom of boulders*

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

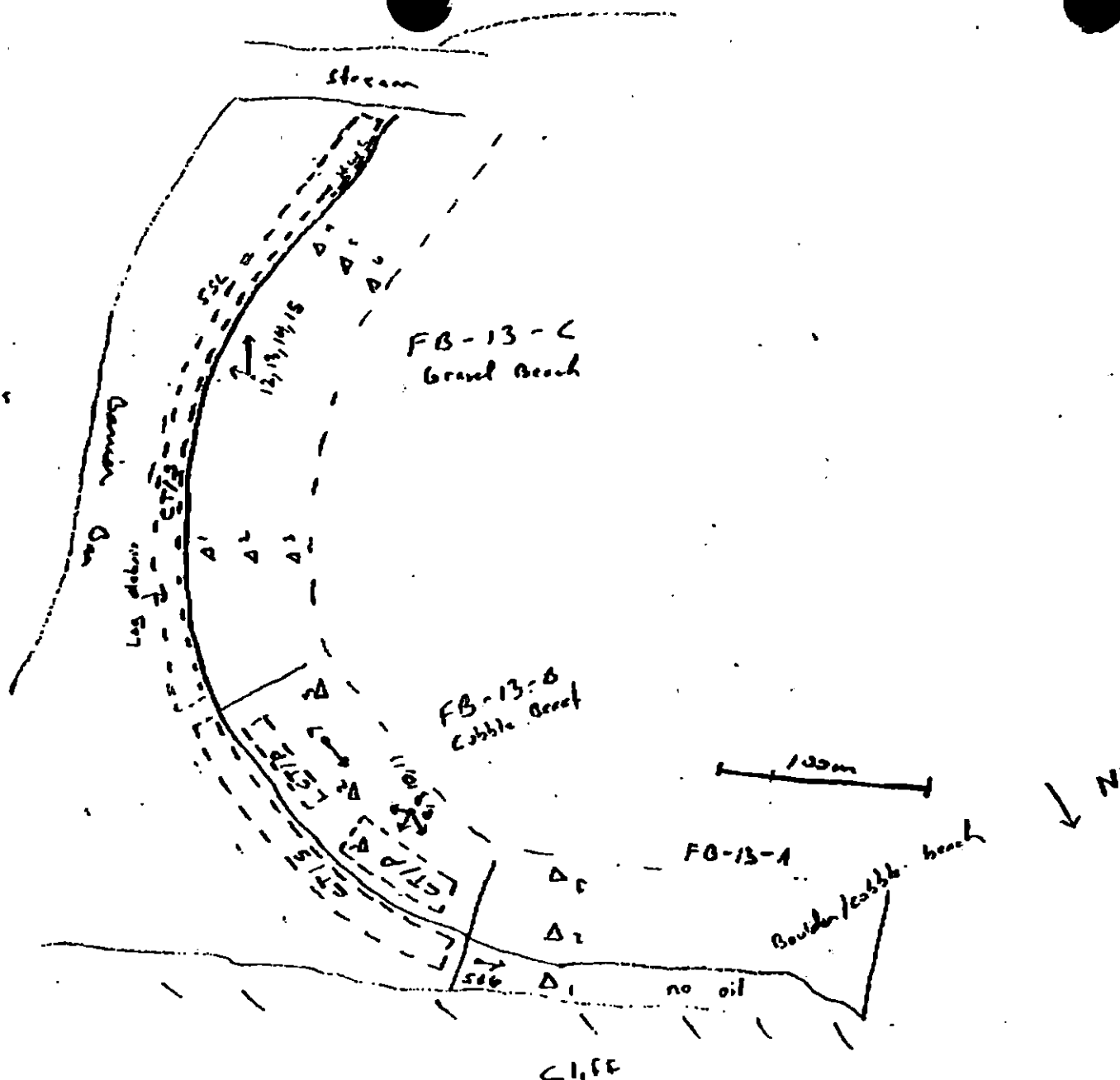
Oiled Vegetation

1 →

Photo location, direction, and number

R-11 19-1

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 2 ID MS 0 PT 0 TB 0 FL 0 NO 0

REVISION: 93/2/90

K0204

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST / FB13 Subdivision C Date (mo / day / yr) 3/29/90
 Time (24 hr) 10:15 Biologist T SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock _____ (2) Boulder _____ (3) Cobble _____ (4) Pebble 50 (5) Sand 50 (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. _____

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

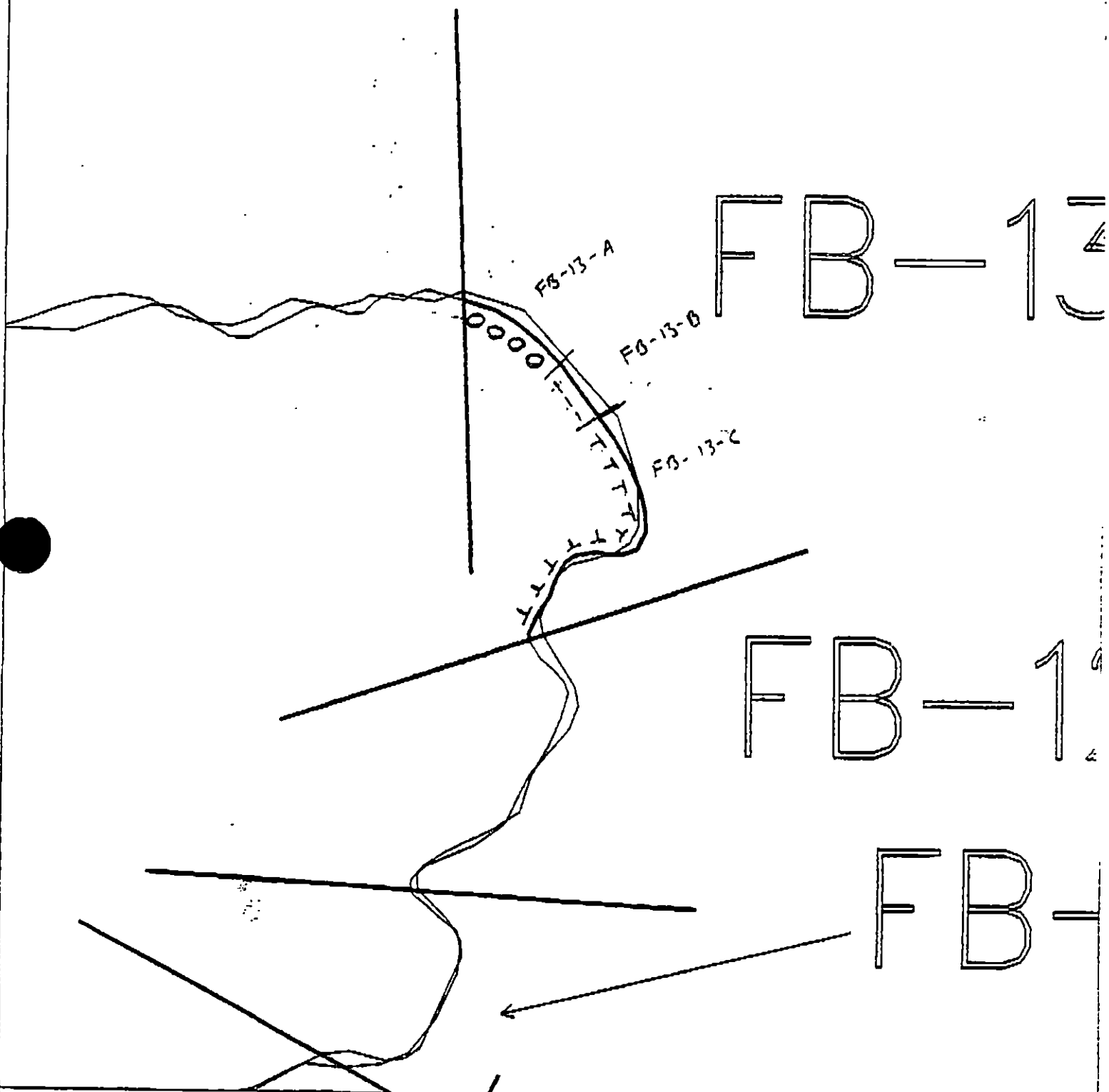
Wildlife Observations/ General Comments:

(See Segment B)

Ecological Considerations:

Dense algae (Some Fucus) barnacle cover on boulders from tide level up about 6 ft at 1236 on headland portion
 Bear tracks in this area

1J - SALMON PURSE SEINE AREA RESTRICTIONS FROM 20 JULY → 30 SEPT



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

OOOO No Oil

FB-13

ADEC Segment Length: 525m



Map Key: GOA-95

Name: Shea Portland

Date: 3-29-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-013 SUBDIVISION C (3 OF 3) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Purse seine area (1J) - 7/20 to 9/30; Possible anadromous stream
(1A, 1B). Request ADF&G and USFWS to verify.

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

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

SHPO SIGNATURE: Charles Z. Holmes DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 336 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: 4/11/90
ADEC JOHN BAUER
EXXON ANDY GIL
NOAA Burl Wescott
USCG G.A. REITER

FOSC: [Signature] DATE: 4-20-90

SEGMENT ST/ EQ-13

SUBDIVISION C

DATE 3 / 29 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HWM/LWM
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PM Location(s) → irregular bottom of boulder
- ☒ Photo Location(s)

LEGEND

1 Δ

Pk - No Subsurface Oil

2 Δ

Pk - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

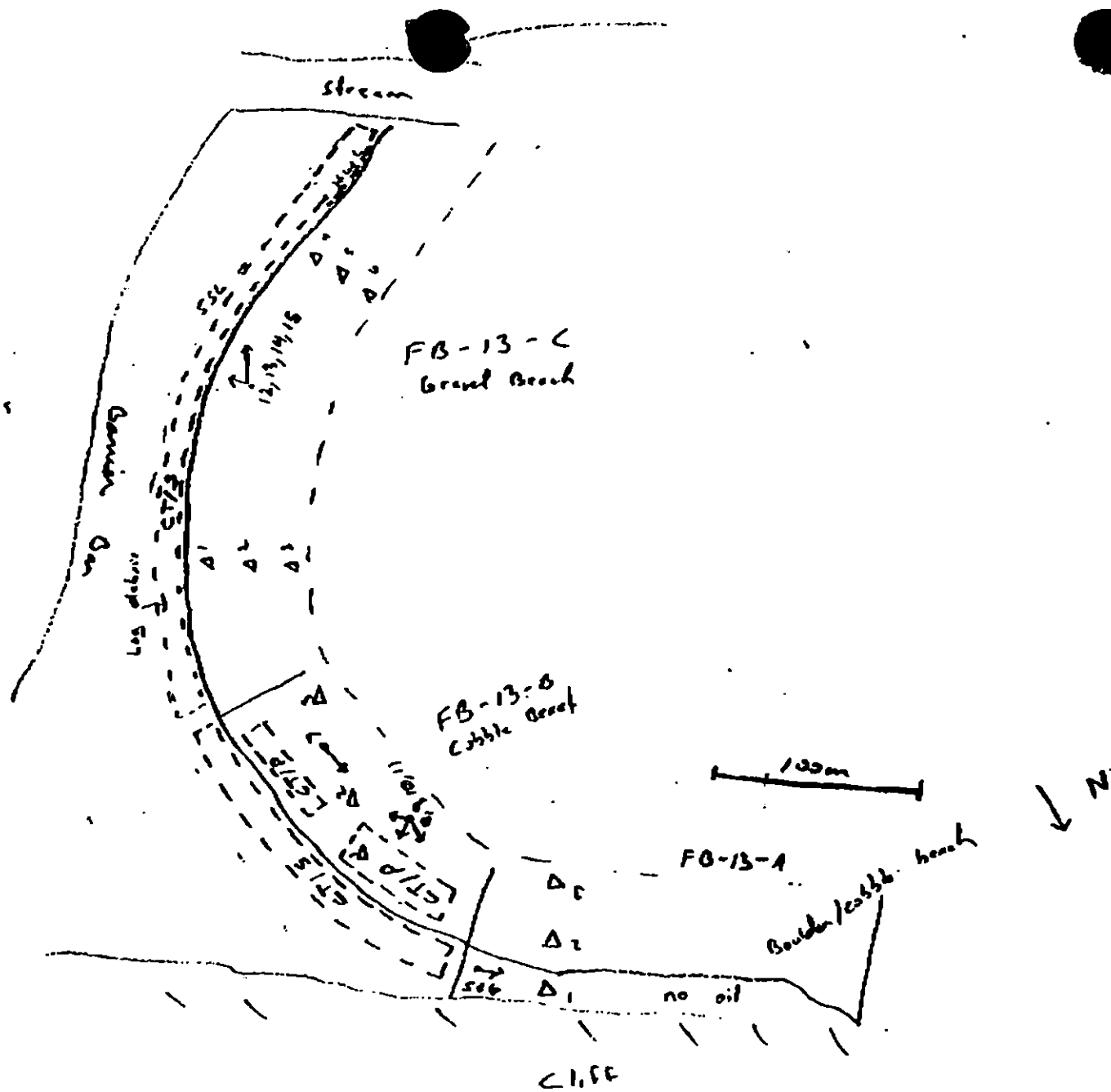
Oiled Vegetation

1 →

Photo location, direction, and number

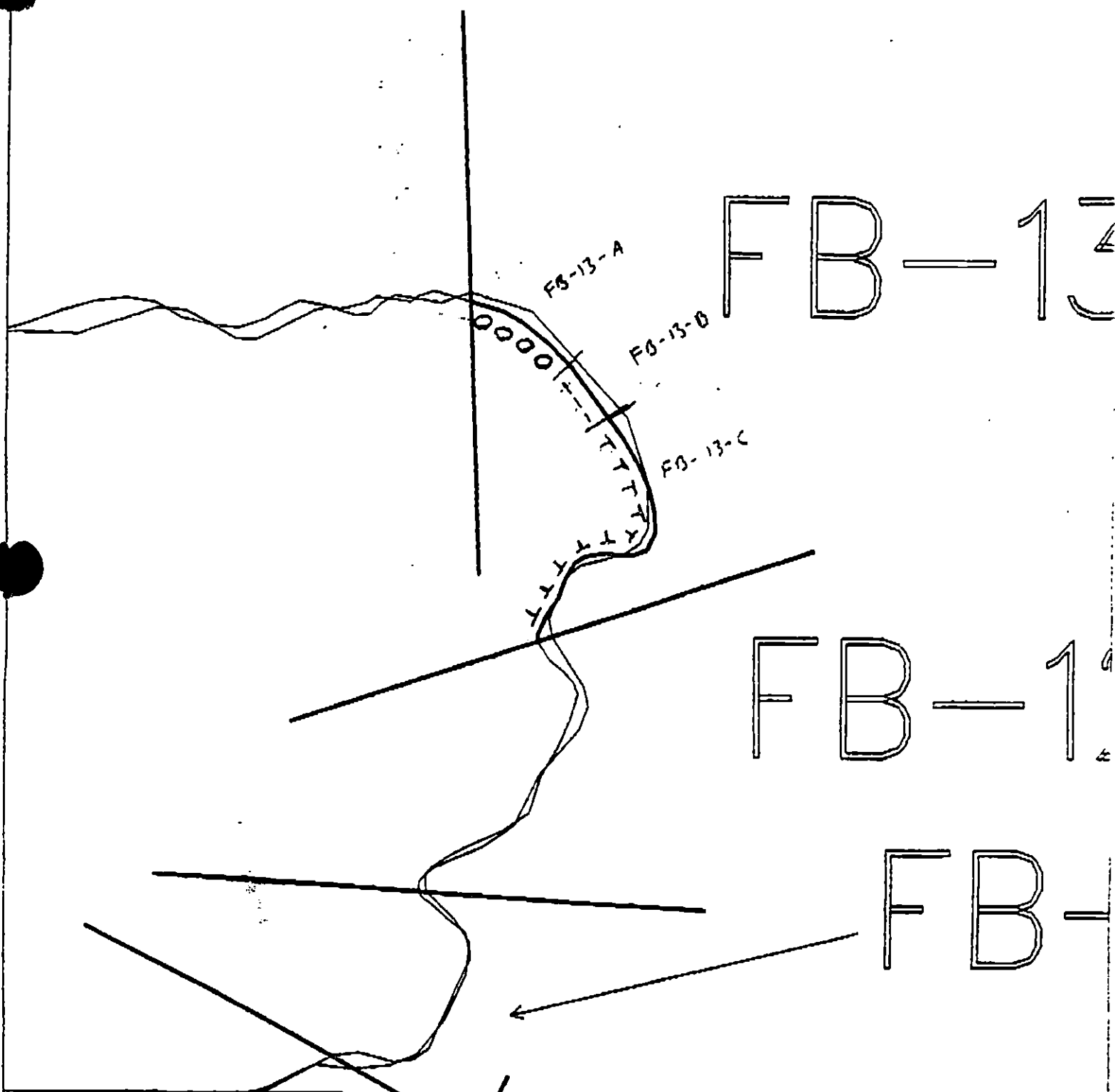
R-11 19-1

SKETCH MAP



Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 2 ID MS 0 PT 0 TB 0 FL 0 NO 0

REVISION 08/2000



XXXX Wide

/// Medium

----- Narrow

TTTT Very Light

0000 No Oil

FB - 13

ADEC Segment Length: 525m



Map Key: GOA-95

Name: Shea Portland

Date: 3-29-70

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-014 SUBDIVISION A (1 OF 1) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

None specified.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 2094 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: 4/11/90

ADEC JOHN BAUER
EXXON AMY TOL FOSC: DATE: 4-20-90
NOAA Burl Wescott
USCG G.A. HEITER

OG Penland

SKETCH MAP

SEGMENT STI K0204/F0014

SUBDIVISION PA

DATE 3 / 30 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LVL
- ☐ 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

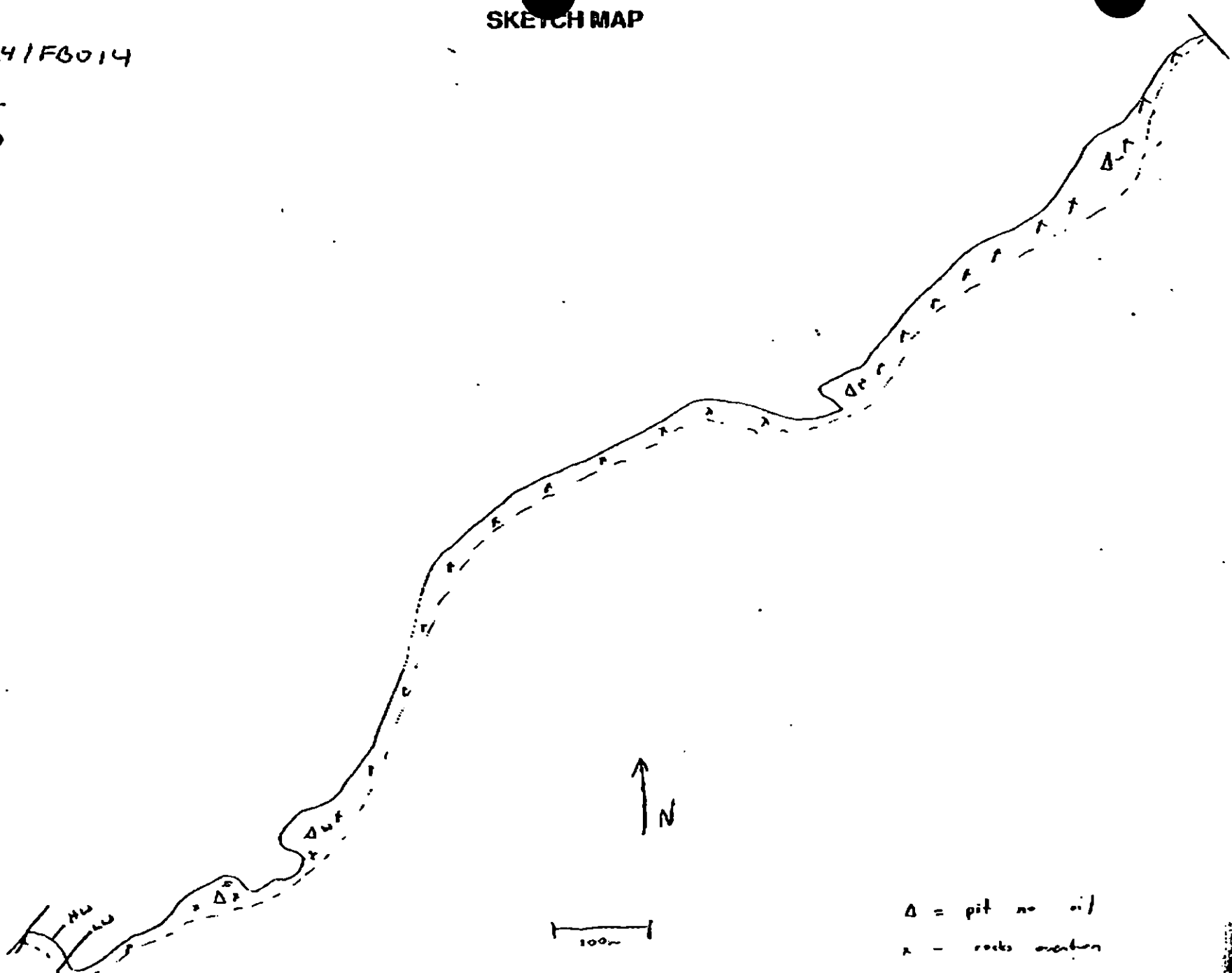
CT/S

Splashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction,
and number



Δ = pit no oil

x = rocks overhang

APR-01-1990 17:53 FROM EXON-KODIAK

EXON TB

REVISIONS

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0 1933

FB-

GOA 96

XXXX Wide

//// Medium

--- Narrow

TTTT Very light

FB-14

ADEC Segment Length: 1933m

Map Key: GOA-96a

Name: Pentland

Date: 3-30-90

FB-1

FB-

← GOA 96A

XXXX Wide

//// Medium

--- Narrow

TTTT Very light

FB-14

ADEC Segment Length: 1933m

Map Key: GOA-96b

Name: PENLAND

Date: 30 MAR 90

REGION: KODIAK

SEGMENT: ST/ K0204-FB-014

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0204-FB-014 SUBDIVISION A (1 OF 1) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

None specified.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 2094 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/K0204/F0013 SUBDIVISION: NA DATE 3-30-90

NOAA
USEG

NAME John Naughton SIGNATURE John Naughton

☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

No oil observed

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

no oil observed.

LAND MANAGER

NAME LINDA HAGEN SIGNATURE Linda M. Hagen

☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Concurrence with team observations.
Appears clean.

SHORELINE OILING SUMMARY

REVISION NO. 02/88

OG Perland USCG Naughton SEGMENT ST/ K0304 / E0014
 BIO Spight LAND REP Hagen, USFWS SUBDIVISION A
 EXXON Byers ADEC Shelton TIME 9:00 to 10:07
 TEAM NO.: 19 TIDE LEVEL: -1.8 ft to -2.0 ft DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 1933 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Halo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 20 % B 50 % C 20 % 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 0 m NO 1933 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	20	25	30	35	40	45	50	55	60	65	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	X

 PAVEMENT: H F S N/A sq. m by N/A

 PATTIES / TARBALLS N/A 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 N/A

Photographs:

 Roll No. 19-1

 Frames 16-20

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-1CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	30	35	40	45	50	55	60	65	SU	U	M	L		
1	30					X	-													X			Cobble / gravel
2	30					X	-													X			Cobble / gravel
3	30					X	-													X			Cobble / gravel
4	30					X	-													X			Cobble / gravel
							-																
							-																

COMMENTS

- area surveyed, rocks overturned, and inspection pits made
- no oil observed

DAT

3 Penland

SKETCH MAP

SEGMENT ST/ K0204 / F0014

SUBDIVISION AA

DATE 3 / 30 / 90

CHECKLIST

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

LEGEND

- 1 Δ
- No Subsurface Oil

- 2 Δ
- Subsurface Oil

CT/C
Continuous Distribution

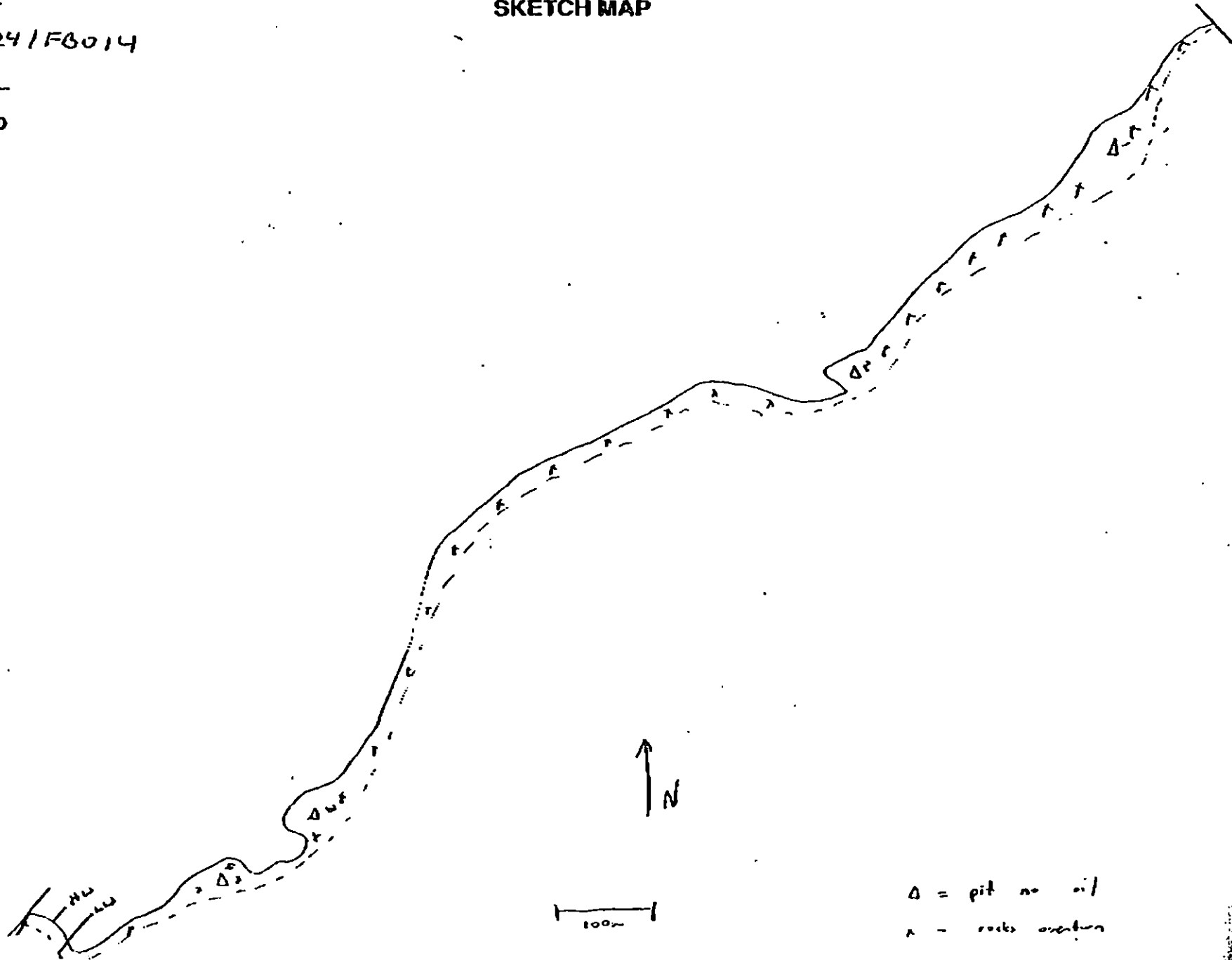
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Stashed Distribution

CT/V
Vegetation

Photo location, direction,
and number



Δ = pit no. oil
x = rocks overtop

APR-01-1990 17:53 FROM EXON-KODIAK EXON TB

Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO E 1933

REVISIONS

SHORELINE ECOLOGICAL SUMMARY

REVISION 01/2001

Segment ST/ FB 14 Subdivision _____ Date (mo / day / yr) 3/30/90

Time (24 hr) 8:45 Biologist T. SPIGHT

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

(B) Overall % cover of biota (% of segment): Dense 35 Moderate 30 Low 35

(C) Density, substrate preference (by number from A above):
Vertical settlement (by number from A above):
juveniles / adults (X) , new settlement (3)

Photographs:

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 Not checked

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

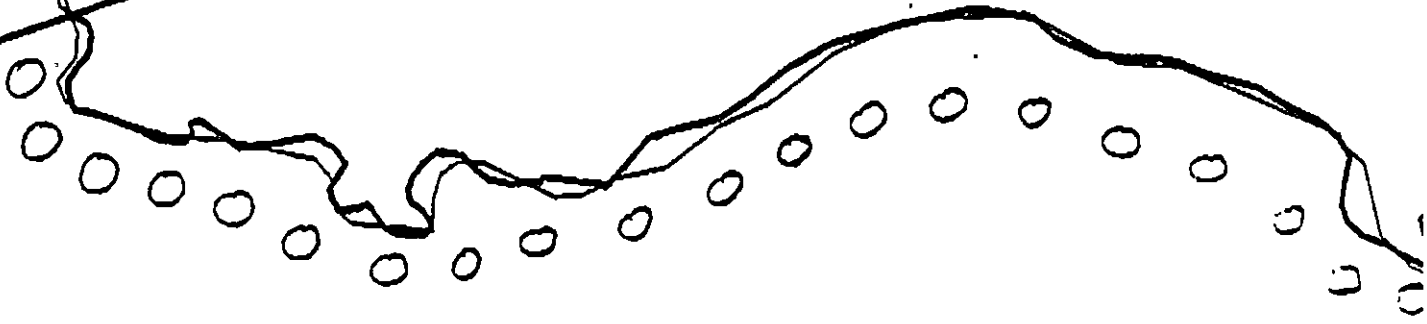
Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:
Quick crude estimates. Dense community on most suitable surfaces.
Fucus, mussels dense on some flattish areas (but not together)

FB—



GOA 96

XXXX Wide

//// Medium

--- Narrow

FB-14

ADEC Segment Length: 1933m

Map Key: GOA-96a

Name: Pentland

FB-1

FB-

FD

← GOA 96A

XXXX Wide

//// Medium

--- Narrow

FB-14

ADEC Segment Length: 1933m

Map Key: GOA-96b

Name: PENLAND

SHORELINE EVALUATION

SEGMENT ST/ K0209-PA-04 SUBDIVISION A (1 OF 1) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sea lion pupping (3P) - 5/15 to 7/1 and molting (3Q) - 8/15 to 9/15;
Salmon purse seine area (1J) - 7/20 to 9/30.

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

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

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

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 0 m: No Oil 892 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

☒ 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: 4/11/90
ADEC JOHN BAUER
EXXON ANDY TACK
NOAA Bud Wescott
USCG G.A. DEITER

FOSC: DATE: 4-22-90

Penland

SKE MAP

MENT ST/ 20209 / PA 004

BDIVISION PA

TE 3 / 30 80

CHECKLIST

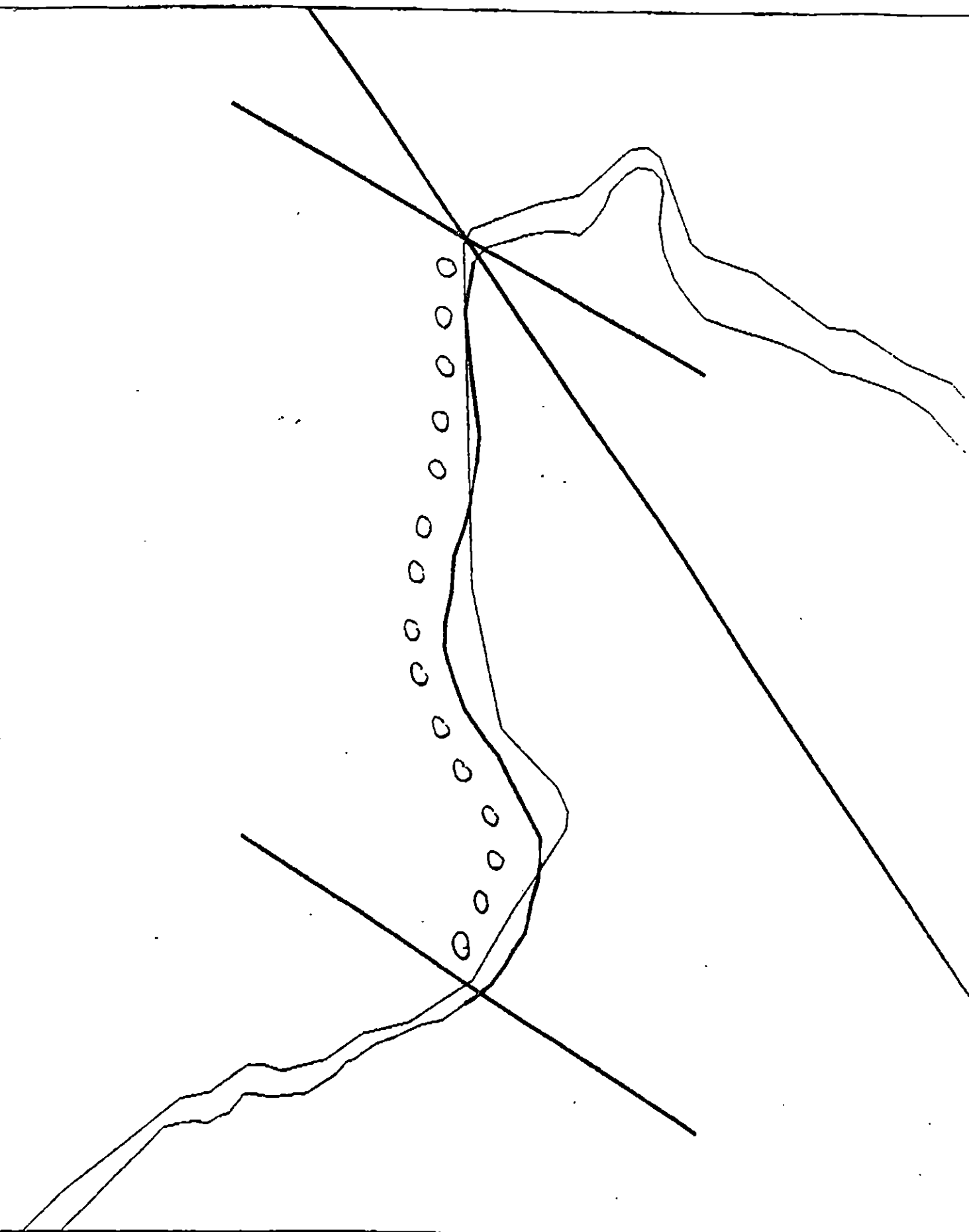
- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HML/LML
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PR Location(s)
- ☒ Photo Location(s)

LEGEND

- 1 Δ No Subsurface Oil
- 2 ▲ Subsurface Oil
- CT/C Continuous Distribution
- CT/B Ben Distribution
- CT/P Dry Distribution
- CT/S Submerged Distribution
- d Vegetation
- to location, direction, number



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



XXXX Wide

//// Medium

--- Narrow

TTTT

PA-4

ADEC Segment Length: 892m

Map Key: GOA-201

Name: Penland

REGION: KODIAK

SEGMENT: ST/ K0209-PA-04

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0209-PA-04 SUBDIVISION A (1 OF 1) DATE 3/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sea lion pupping (3P) - 5/15 to 7/1 and molting (3Q) - 8/15 to 9/15;
Salmon purse seine area (1J) - 7/20 to 9/30.

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

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 0 m: No Oil 892 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 / K0209/PA004 SUBDIVISION: NA DATE 3-30-90

NOAA
USCG

NAME John Naughton SIGNATURE John Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

No oil observed. Because of high energy nature of this coastline any oil in this segment was probably scoured clean.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

No oil observed - TEAM MEMBERS WALKED entire 899 meter Segment. PA004 is a high energy Segment wave exposure to the South/South west.

LAND MANAGER

NAME Linda M. Hager SIGNATURE Linda M. Hager

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Concur with ADEC Representative Shelton. High energy beach contained primarily boulders which showed no oil evidence, nor did finer beach segment.

SHORELINE OILING SUMMARY

REVISION NO. 03/89

OG DENLAND USCG Naughton SEGMENT ST/ 20229 / DA 004
 BIO Spright LAND REP Hagen LSFWS SUBDIVISION 4
 EXXON Byers ADEC Shelton TIME 12:29 to 13:20
 TEAM NO.: 19 TIDE LEVEL: +2.21 to +5.21 DATE 3 / 30 / 90
 EST. SUBDIVISION LENGTH: 299 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 20 % B 50 % C 10 % P 20 % G 0 % S 0 % M 0 % V 0
 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 0 m NO 299 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	10	15	20	25	30	35	40	45	SU	U	M	L
ASPHALT PAVEMENT												
POOLED												
COVER												
COAT												
STAIN												
MOUSSE												
PATTIES												
TARBALLS												
FILM												
NO OIL									X	X	X	X

PAVEMENT: H F S N/A sq. m by N/APATTIES / TARBALLS N/A BAGNEAR SHORE SHEEN? ☒ NO 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. 19-2Frames 1-3SUBSURFACE OIL No Pits Dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-DB)	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UD	UC	30	35	40	45	SU	U	M	L		

COMMENTS

• No oil

• No pits dug due to shallow occurrence of boulders and bedrock

EAT 3 Apr 90

QUANTITATIVE COLLECTION SUMMARY

 Segment ST: DA 4 Date (mo / day / yr) 2/25/90

 Time (24 hr) 12:29 Biologist SPIGHT

 (A) Substrate type and % of segments:
 (1) Bedrock (2) Boulder 30 (3) Cobble 70 (4) Pebble (5) Sand (6) Silt

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

 Vertical location of major taxa: (upper-U, mid-M, low-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	X	X	X	2	2	2	2	2	2	2	2
3	X	X	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 PRESE

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	2	2	2	2	2
3	3	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 PRESE

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	X	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 PRESE

FUCUS

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	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 PRESE

Wildlife Observations/ General Comments:

Ecological Considerations:

Mostly sparse in upper, mid levels, but locally dense; frequency of dense patches increases toward point. Some largish flats with dense mussel populations.
 Good algal (Fucus, Halosaccion, others) populations on low cobble.

SUBDIVISION 7A
DATE 3 0 90

CHECKLIST

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

Mixed Vegetation

1 $\bullet \rightarrow$

Photo location, direction,
and number

0 (m) 100

Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 899

REVISION 03/24/90

COAST GUARD

TO

15643771 P.09

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

PA-4

ADEC Segment Length: 892m

Map Key: GOA-201

Name: Perland

Date: 3-30-92



REGION: KODIAK

SEGMENT: ST/K02-10-MB-006

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K02-10-MB-006 SUBDIVISION A (1 OF 1) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Possible eagle nest in vicinity; sea otters in vicinity; Possible anadromous stream (not in ADF&G catalog sensitivity list).

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/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 10 m: No Oil 1148 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 / K02-10 MA 006 SUBDIVISION: MA 00A DATE 4-1-90

SCG
NAME D.D. Haven Jr, CM3 USCGR SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Concur with ADEC Rep.

ADEC
NAME Francis J. Benoit SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Walked as much of the segment as terrain permitted (95%). Oil observed is in the form of ST/OT/CV, with some mousse in fine sediments and stuck in crevices of rocks. Our crew removed collectable oil from a 3m x 3m patch of patties. Any further oil extraction would be difficult. The rest of the segment had no oil observed. JPB

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED USFWS
COMMENTS

Concur with ADEC representative.

SHORELINE OILING SUMMARY

REVISION NO. 0322-90

OG Acton USCG Haven SEGMENT ST/ K2-10-M3-6
 BIO Davis LAND REP USEWIS Hachibiter SUBDIVISION M3-6A
 EXXON Avery ADEC Bennis TIME 11:30 10:00
 TEAM NO.: 20 TIDE LEVEL: +5 10 +1 DATE 4/1/90
 EST. SUBDIVISION LENGTH: 1425 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 40 % B 40 % C 20 % 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 5 m NO 1420 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	20	25	SB	BR	OR	OW	GY	SL	TL	LB	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? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☒ YES ☐ NOTYPE mousse pads#BAGS 1/4 bag

Photographs:

Roll No. 20-2 20-3Frames 32-36 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		VO	UC	SB	BR	OR	OW	GY	SL	TL	LB	SU	U	M	U		
1	25					✓	-											✓					C, S
2	25					✓	-												✓				C, S
3	20					✓	-													✓			C, S
4	20					✓	-													✓			C, S
5	20					✓	-											✓					C, S
							-																

COMMENTS Very light mousse pads msp were observed in 2 ^{small} areas. 1/4 bag of mousse pad was collected from the more southerly area, 2m x 2m. Areas of mousse were in the VI zone up in the boulder/rubble.

Pits could not be dug under mousse pads due to boulder/rubble.

OG Acton USCG Haven SEGMENT ST/ K2-10-M3-b
 BIO Davis LAND REP USEN's Hardwater SUBDIVISION M8-6-A
 EXXON Avery ADEC Bennis TIME 11:30 10:10
 TEAM NO.: 20 TIDE LEVEL: +5 10 +1 DATE 4/1/90
 SUBDIVISION LENGTH: 5 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N 10 5
 SURFACE SEDIMENTS: R 40 % B 40 % C 20 % 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 5 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IP	IS	BR	OR	RW	GT	SL	TL	LR	LB	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE			✓						✓				✓			
PATTIES																
TARBALLS																
LM																
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 ☐ NOTYPE mousse pads#BAGS 1/4 bag

Photographs:

Roll No. 20-2 20-3Frames 32-36 1

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	RW	GT	SL	TL	LR	LB	SU	U	M	U		

COMMENTS Very light mousse pads msp were observed in 2 areas. 1/4 bag of mousse pad was collected from the more southern area, 2m x 2m. Areas of mousse were in the VI zone up in the boulder/rock.

Pits could not be dug under mousse pads due to boulder/rock.

APR 02 1990

ORIGINAL

SHORELINE OILING SUMMARY

DRAFT

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ K 2-10-MB-6
 BIO Davis LAND REP USFWS Hardister SUBDIVISION MB-63
 EXXON Avery ADEC Bennis TIME 11:30 10:10
 TEAM NO.: 20 TIDE LEVEL: +5 to +1 DATE 4/1 / 90
 SUBDIVISION LENGTH: 1420 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % 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 1420 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	N	NE	E	SE	BR	BL	FW	GL	SL	DR	TL	LR	SU	UI	ME	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
LM																
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. 20-2Frames 30,31

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		VO	UC	BR	BL	FW	GL	SL	DR	TL	LR	SU	UI	ME	U		
1	25					✓	.											✓					cobbles
2	25					✓	.												✓				cobbles
3	20					✓	.													✓			cobbles
4	20					✓	.												✓				cobbles
5	20					✓	.											✓					cobbles
							.																

COMMENTS No oil was observed in this subdivision

goa0404c.mem bat

MEMORANDUM

DATE: April 4, 1990

FROM: Bryan Trimm *BT*

SUBJECT: Subdivision boundaries for K0302-MB006-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 Act

SEGMENT S 2-N-MB-6

SUBDIVISION MB-6A

DATE 4/1/90

CHECKLIST

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

Patched Distribution

CT/S

Splashed Distribution

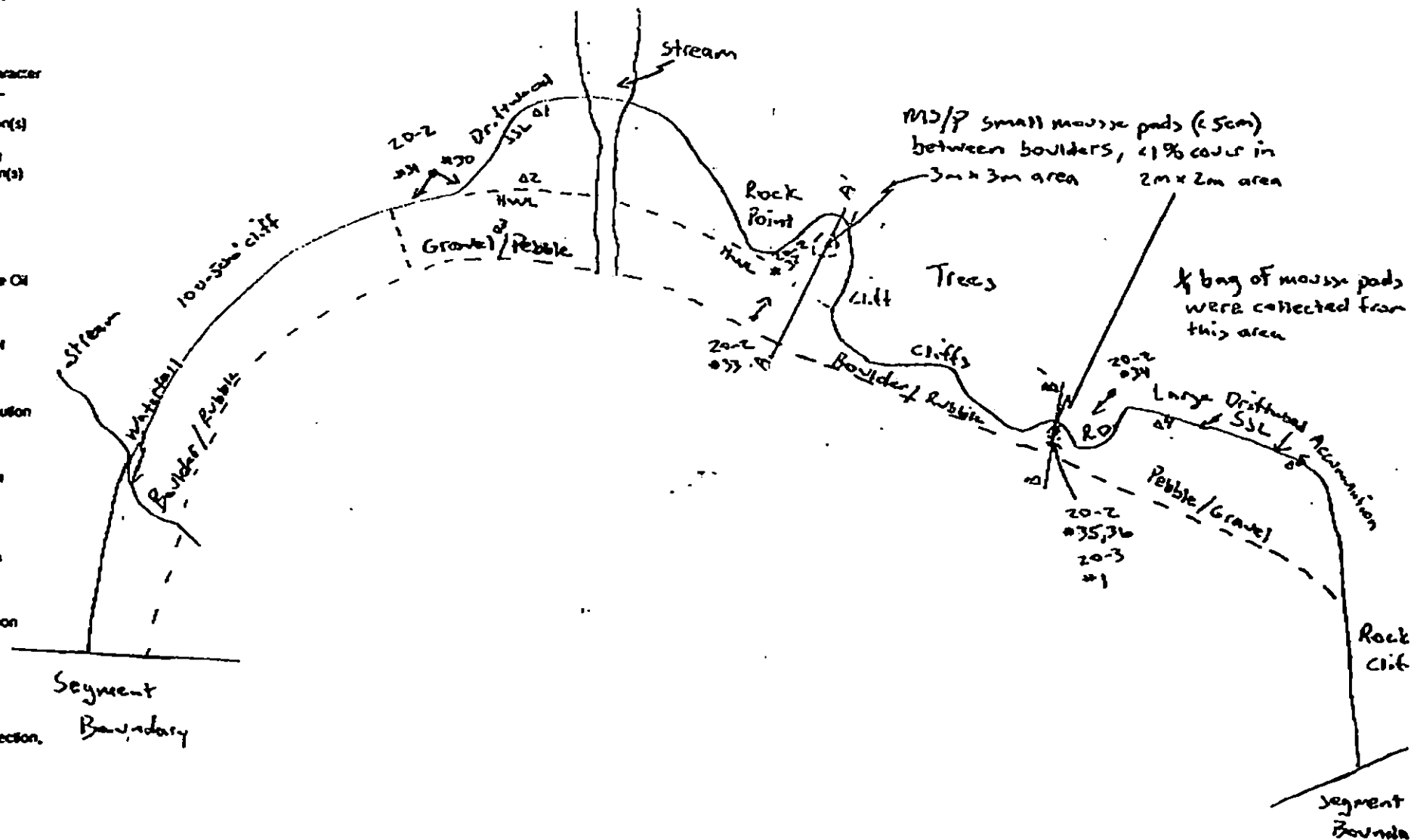
Oiled Vegetation

1 ●→

Photo location, direction, and number

Segment Boundary

SEARCH MAP

 ← North
 1cm Δ Approx 200


Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 5 PT 0 TB 0 FL 0 NO 1420

REVISION 02/2000

APR-02-1990

16:51

FROM

EXXON KODIAK

TO

15643771

P.03

OG Alton
 SEGMENT STA 10-MB-6
 SUBDIVISION MB-6A

DATE 4 / 1 / 90

CHECKLIST

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

LEGEND

- 1 Δ
 Pt - No Subsurface Oil
- 2 Δ
 PI - Subsurface Oil
- CT/C

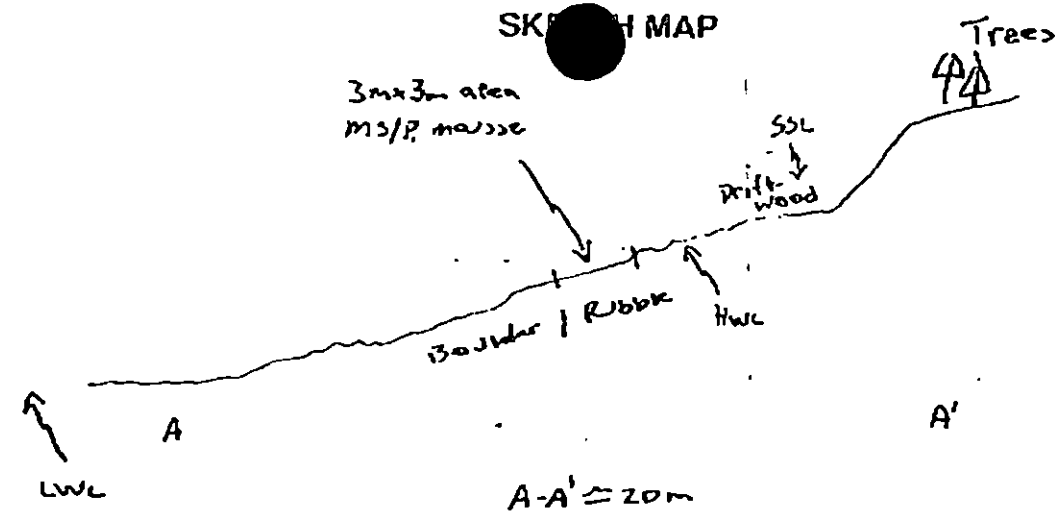
 Continuous Distribution
- CT/B

 Broken Distribution
- CT/P

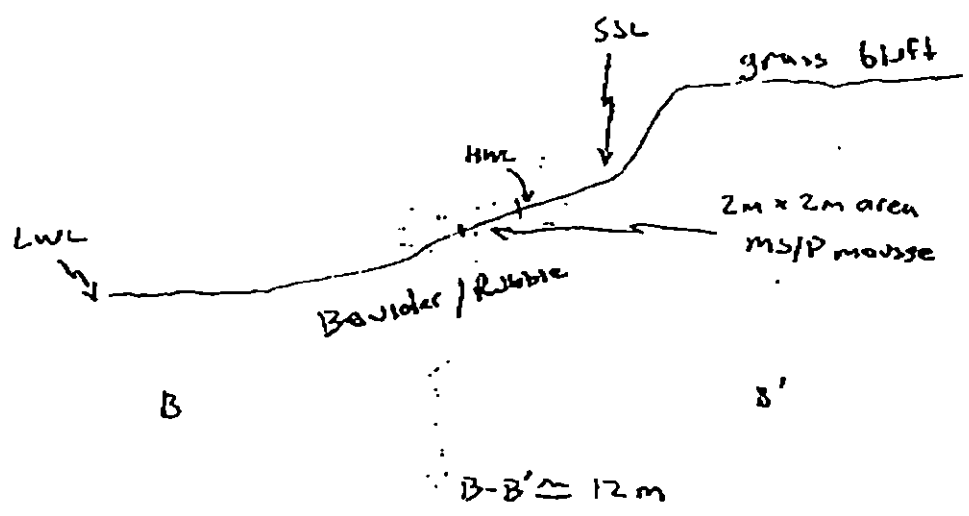
 Patchy Distribution
- CT/S

 Spashed Distribution
- Oiled Vegetation
- 1 $\leftrightarrow$
 Photo location, direction, and number

SKETCH MAP



Profile A-A'
 1cm $\approx$ 3m Approx. scale



Profile B-B'
 1cm $\approx$ 2m Approx. scale

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

REVISION 02/20/88

APR-02-1990 16:51 FROM EXXON KODIAK TO 15643771 P.04

SHORELINE ECOLOGICAL SUMMARY lot 2

REVISION: 03/22/90

Segment ST / K02-10 Subdivision MB-06 (A see Eco Sketch) Date (mo / day / yr) 4-1-90Time (24 hr) 10:45 Biologist H. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 40 (2) Boulder 40 (3) Cobble 20 (4) Pebble 10 (5) Sand 10 (6) Silt 0
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 35 Low 35 (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. 20-2/20-3Frames 30, 32, 33, 35, 36/1

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
X	X	2	X	X	2	X	X	2	2	2	X
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 ON
5, 6

MYTILUS

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

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	X	2	X	2	2	2	2	X
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 ON
5, 6

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
X	X	2	X	X	2	X	X	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 ON
5, 6

Wildlife Observations/ General Comments: A deer was seen feeding in the intertidal. 2 adult Eagles flying in area. Later perched on offshore primary. 1 juvenile Eagle seen flying. Rock and Boulder areas with dense-moderate bands (2) Harlequin, (1) H. harlequin, (1) H. sp. (3) Surf Scallops. 4 Sea Otters in area.

Barnacles [] Fucus
gastropods [] Mytilus

Ecological Considerations: Ecological sensitivity (2M)
 Eagles w/ juveniles in area. No nests observed. Sea Otters feeding offshore.
 Anadromous stream in MB-06 NOT RECORDED BY ADF:G

SHORELINE ECOLOGICAL SUMMARY 2 of 2

REVISION: 03/22/90

Segment ST/ K02-10 Subdivision MB-06 (Base Ego Sketch) Date (mo/day/yr) 4/1/90Time (24 hr) 10:45 Biologist N. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 20 (2) Boulder 20 (3) Cobble 20 (4) Pebble 30 (5) Sand 10 (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 20% Moderate 20% Low 60 (10%)
- (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. 20-2, 20-3Frames 30, 31, 34

BARNACLES

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

MYTILUS

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

GASTROPODS

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

Wildlife Observations/ General Comments: Deer tracks in upper intertidal. 2 adult eagles 1 juvenile eagle. Large boulders and rock areas with moderate-dense bands of Fucus, Mytilus, and Barnacles. Gastropods are sparse to moderate. (2?) Harlequin (10) Harlequin (1) Loon sp? (3) Surf scuders. (4) Sea Otters feeding.

Ecological Considerations: Ecological Sensitivity (2M)
 Adult and juvenile eagles in area, none observed.
 Sea Otters feeding off rocky points in area.
 Anadromous stream NOT RECORDED BY ADFG.

Ecological Comments on Sketch Map.
MB-06 (K02-10)
4-1-90

[illegible]

K2-6-MB-6A

M

XXXX Wide

//// Medium

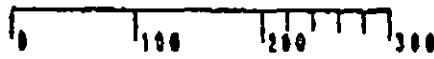
---- Narrow

TTTT Very Light

0000 No Oil

MB-6

ADEC Segment Length: 1425m


METERS

Map Key: GOA-82

Name: ActonDate: 4-1-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K02-10-MB-006 SUBDIVISION A (1 OF 1) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Possible eagle nest in vicinity; sea otters in vicinity; Possible anadromous stream (not in ADF&G catalog sensitivity list).

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Hobman DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 10 m: No Oil 1148 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 Mr. Kernen
EXXON ANDY TEAL FOSC: myl DATE: 5-23-90
NOAA Burt Wescott
USCG G.A. BEITER

OG Acton

SEGMENT ST/ K2-N-MB-6

SUBDIVISION MB-6A

DATE 4/1/90

CHECKLIST

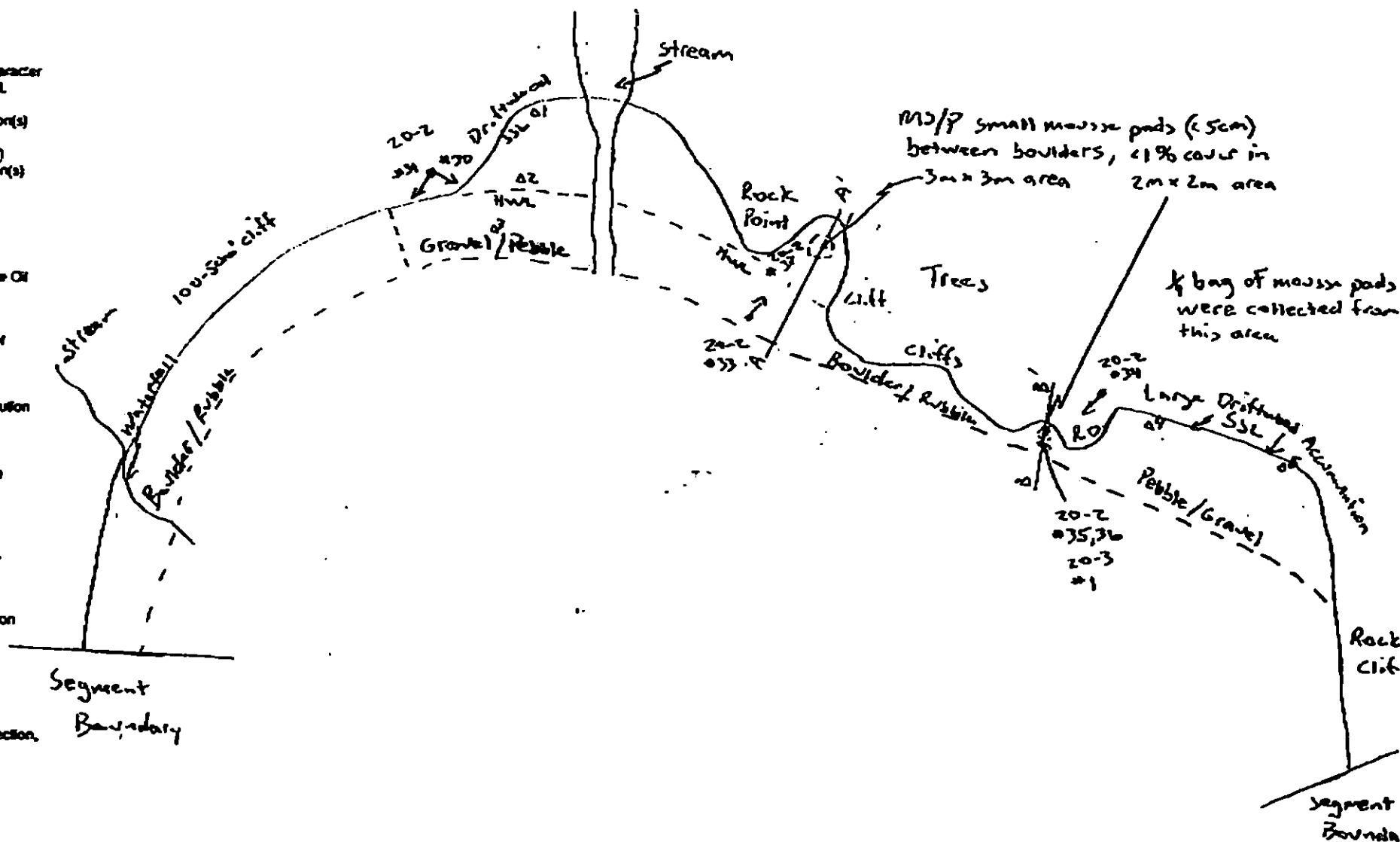
- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Obs
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pli Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
Pli - No Subsurface Oil
- 2 Δ⁺
Pli - 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

← North
1cm = 50m Approx Scale



Oil Character Length AP 0 PO 0 CV 0 CT 0 ST 0 MS 5 PT 0 TB 0 FL 0 NO 1420

HPK-02-1550 16:51 FROM EXXON KODIAK

TO

15643771

P.03

OG Acton

SEGMENT ST/ K2-10-MB-6

SUBDIVISION MB-6A

DATE 4 / 1 / 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)
- ☐ Pk Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
Pt - No Subsurface Oil
- 2 Δ
Pt - Subsurface Oil
- CT/C

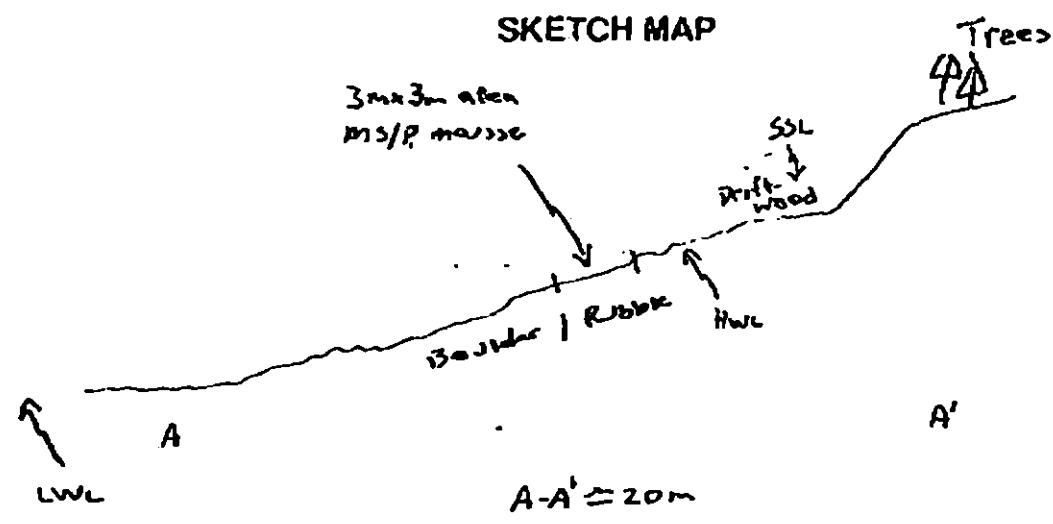
Continuous Distribution
- CT/B

Broken Distribution
- CT/P

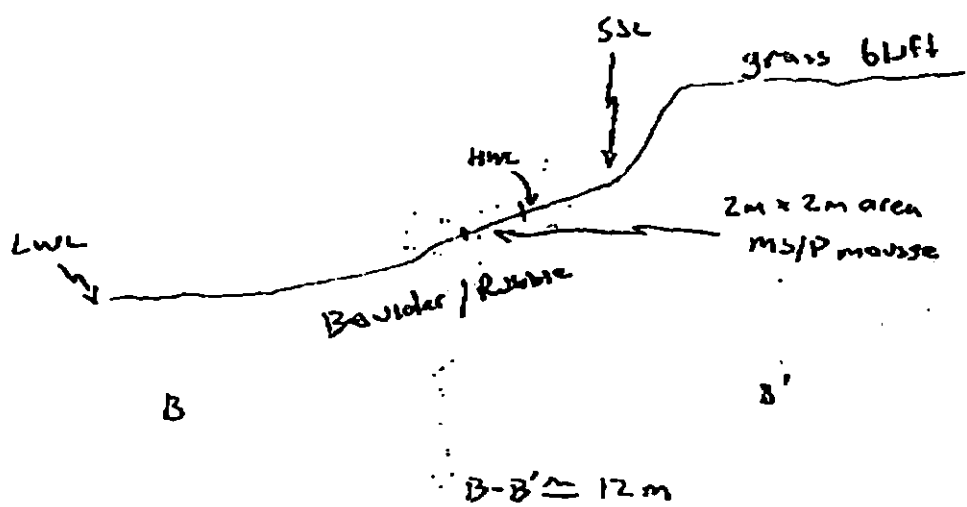
Patchy Distribution
- CT/S

Splashed Distribution
- $\bullet \leftrightarrow$
Oiled Vegetation
- 1 $\bullet \leftrightarrow$
Photo location, direction, and number

SKETCH MAP



Profile A-A'
1cm $\approx$ 3m Approx. scale



Profile B-B'
1cm $\approx$ 2m Approx. scale

Oil Character Length () PO CV CT ST MS 5 PT B FL NO

K2-6-MB-6A

M

XXXX Wide

/// Medium

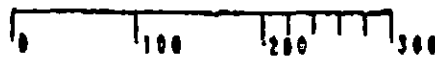
--- Narrow

TTTT Very Light

0000 No Oil

MB-6

ADEC Segment Length: 1425m


METERS

Map Key: GOA-82

Name: ActonDate: 4-1-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ K02-16-XX-500 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon Outmigration (3/1 to 5/15)
1B Stream mouth spawning (7/10 to 8/31)

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: *Michael E. Hines* DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 4500* 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: * No computer map data - OG estimate used.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.

ADEC *John BAUER*
EXXON *ANDY ISAL*
NOAA *Bruce WARD*
USCG *G.A. REITER*

FOSC: *May L* DATE: 4-22-90

6 Acton

SKETCH MAP

EGMENT ST/ KZ-N-22-500

JB DIVISION KZ-N-22-500A

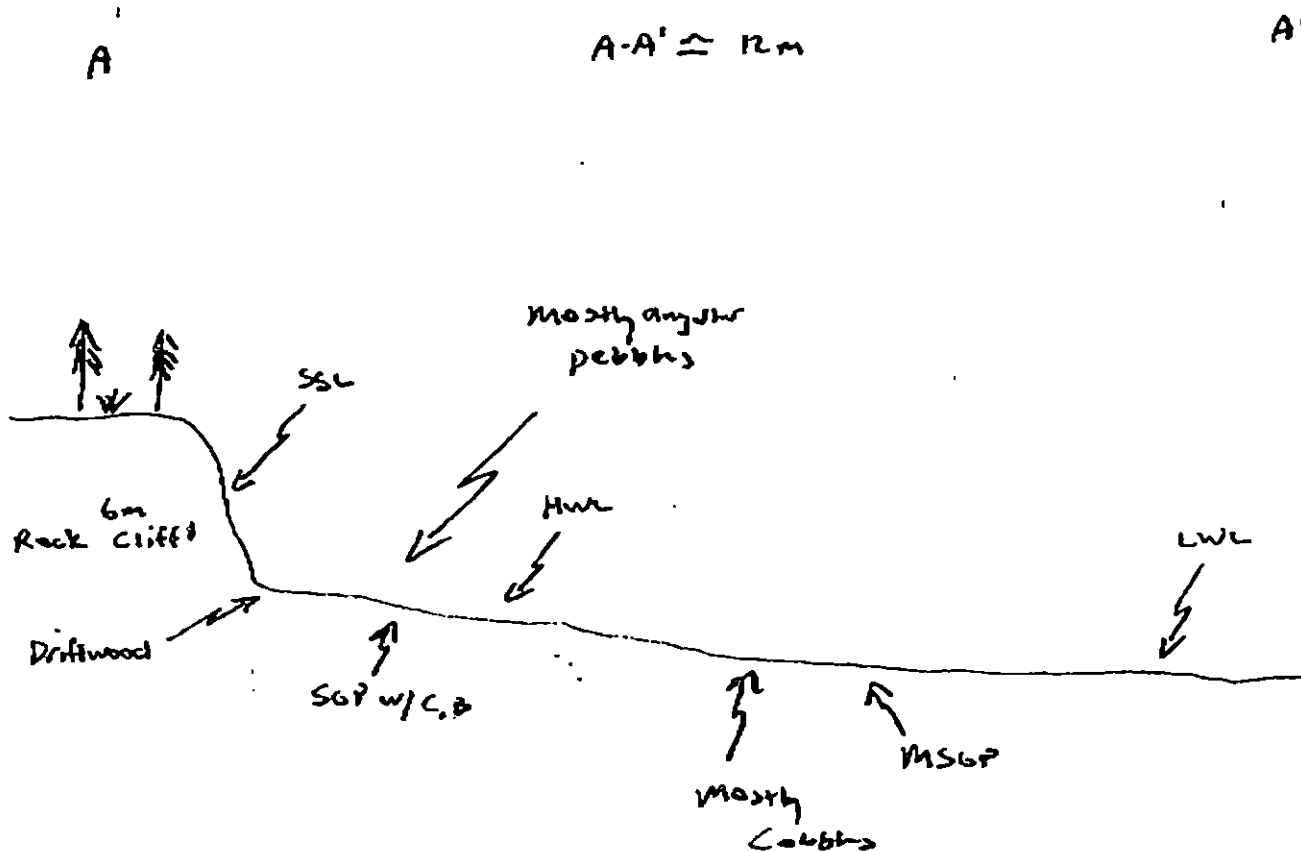
ATE 4 / 7 90

CHECKLIST

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

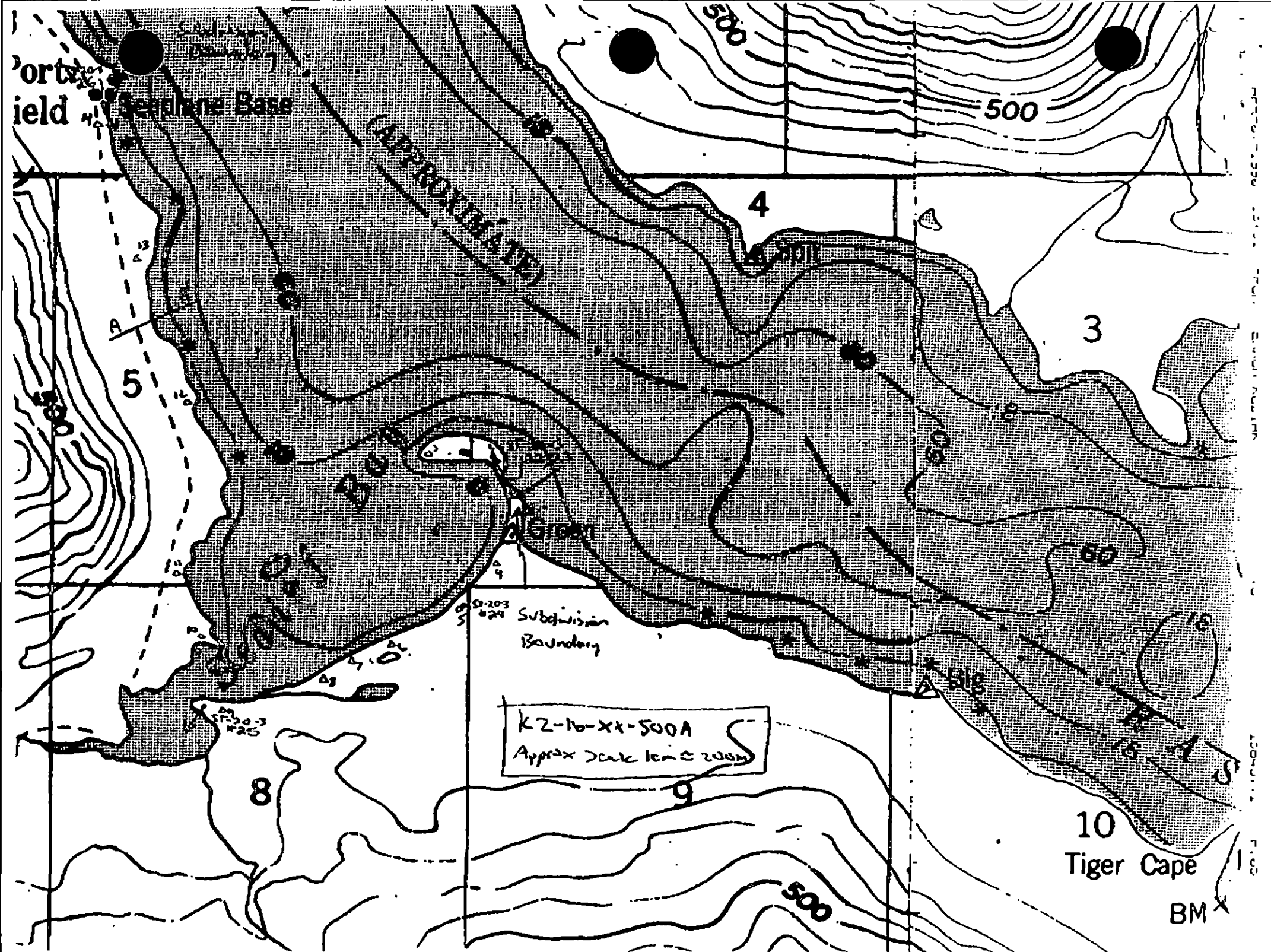
LEGEND

- 1 Δ
- 1 - No Subsurface Oil
- 2 Δ
- 1 - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Partial Distribution
- CT/S
- Spaced Distribution
- Med Vegetation
- 1 $\Rightarrow$
- Photo location, direction, and number



Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT _____ TB _____ FL _____ NO 4500

REVISION: 03/24/00



REGION: KODIAK

SEGMENT: K02-16-XX-500

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K02-16-XX-500 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon Outmigration (3/1 to 5/15)
1B Stream mouth spawning (7/10 to 8/31)

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: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 4500* 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 computer map data - OG estimate used.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 16216 ^{58 902} ~~CRUISE~~ SUBDIVISION: _____ DATE 4-7-90

USCG

NAME D. H. H. J. GMS, USCG SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

No oil sighted.

ADEC

NAME FRANLINE T BENNIS SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

WALKED SHORE AROUND SOLIER BAY. NO OIL, SURFACE OR SUBSURFACE
OBSERVED.

LAND MANAGER

NAME John Merrick SIGNATURE John Merrick for Afognak Nat'l Corp☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY

REVISION NO. 08/23/88

OG Acton USCG Haven SEGMENT ST/ K2-16-XX-500
 BIO Davis LAND REPA Agency Name - Marine SUBDIVISION K2-No-XX-500A
 EXXON Avia ADEC Verona TIME 8:20 to 10:30
 TEAM NO.: 20 TIDE LEVEL: +2 to +6 DATE 4 / 7 / 90
 EST. SUBDIVISION LENGTH: 4500 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 10 % B 10 % C 10 % P 20 % G 15 % S 15 % 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 0 m NO 4500 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	10	15	20	25	30	35	40	45	50	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 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. ST-20-3Frames 22-26

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CD)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	30	35	40	45	50	SU	U	M	U		
1	30					✓	-								✓					MSCP
2	30					✓	-								✓					SCP
3	30					✓	-								✓					MSCP
4	30					✓	-								✓					SCP
5	30					✓	-								✓					SCP
6	30					✓	-								✓					MSCP

COMMENTS No oil observed in this segment. Entire subdivision was surveyed on foot.

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 032270

SEGMENT ST/ K2-16-XX-500 SUBDIVISION K2-16-XX-500 A

SUBSURFACE OIL (CONTINUED)

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	FW	GY	BL	DR	TR	LR	SU	UI	ME	U		
7	30					✓	.											✓					MSGP
8	30					✓	.											✓					MSGP
9	30					✓	.											✓					MSGP
10	30					✓	.											✓					SGP
11	30					✓	.											✓					SGP
12	30					✓	.												✓				MSGP
13	30					✓	.											✓					SGP
14	30					✓	.											✓					MSGP
							.																
							.																
							.																
							.																
							.																
							.																
							.																

COMMENTS

REVIEWED FW DATE 4/8/90

3 Acton

SKETCH MAP

SEGMENT ST/ K2-A-22-500

DIVISION K2-A-22-500A

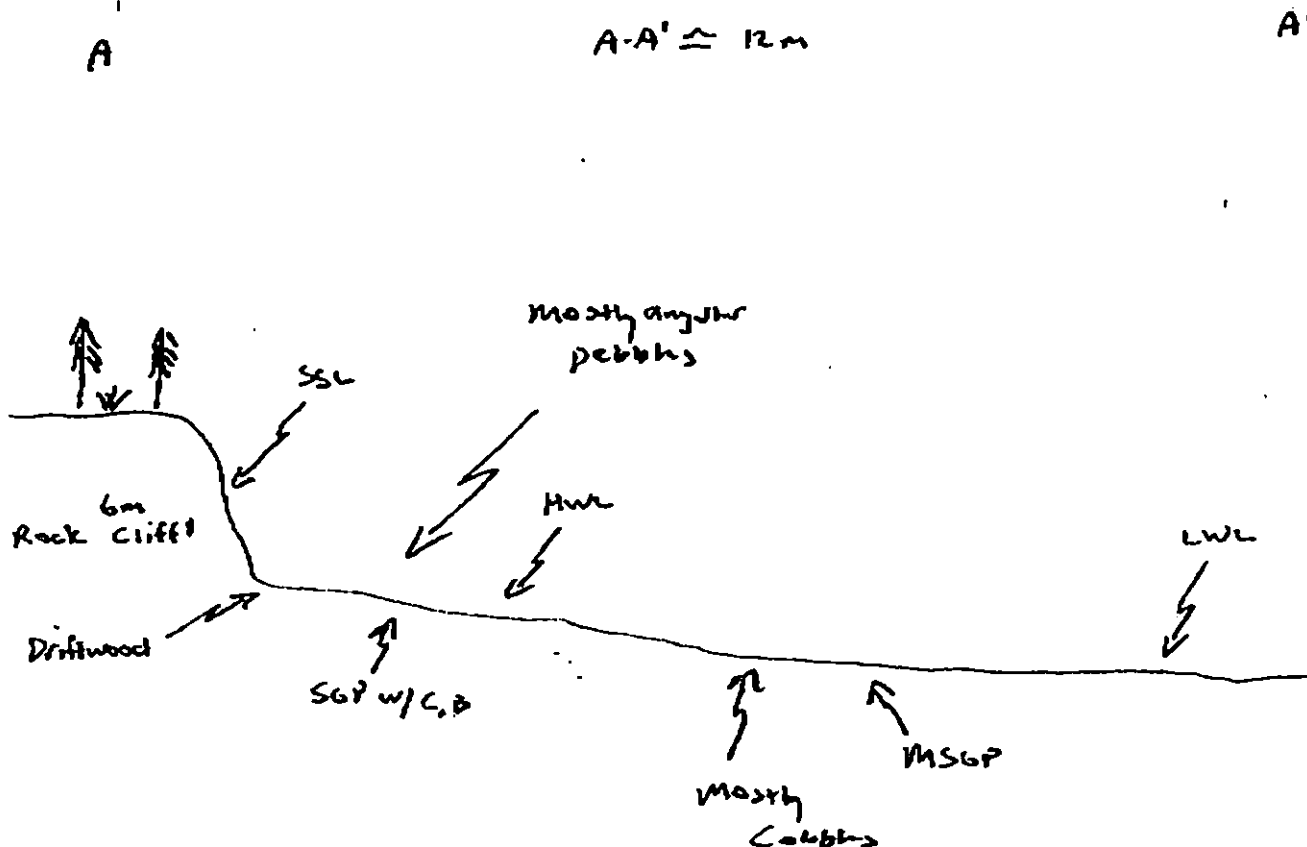
DATE 4 / 7 90

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

- ☐ Δ
1 - No Subsurface Oil
- ☐ 2Δ
2 - Subsurface Oil
- ☐ CT/C
Continuous Distribution
- ☐ CT/B
Broken Distribution
- ☐ CT/D
Patchy Distribution
- ☐ CT/S
Plasmed Distribution
- ☐ Med Vegetation
- ☐ 1 $\rightarrow$
Note location, direction, and number



Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT _____ TB _____ FL _____ NO 4500

REVISION: 03/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 08/22/90

Segment ST / K02-16 Subdivision xx 800A Date (mo / day / yr) 4-7-90Time (24 hr) 08:35 Biologist H. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 10% (2) Boulder 10% (3) Cobble 15 (4) Pebble 30 (5) Sand 15 (6) Silt 20
- (B) Overall % cover of biota (% of segment): Dense 30% Moderate 35% Low 35% (40%)
- (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-20-3
 Frames 22-26

BARNACLES

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

Wildlife Observations/ General Comments: Bear, Deer and Elk scat found in the storm wrack. Clams in the area: *Saxidomus giganteus*, *Clinoecardium nuttallii*, *Thracia capax*, *Prototheca staminea*, and *Macoma masuta* sp. Bird seen 1 adult eagle, crows (12), pelagic cormorants (35), Pintails 40+, Surf Scoters (4), Goldeneye sp? (4), and Glaucous winged Gull (100). Distribution of Fucus and Mytilus is very patchy with areas of Mytilus to 60% dead. Barnacles show patches of high mortality. *Nucella* and sea stars in area. Sea Otters seen feeding in Bay North.

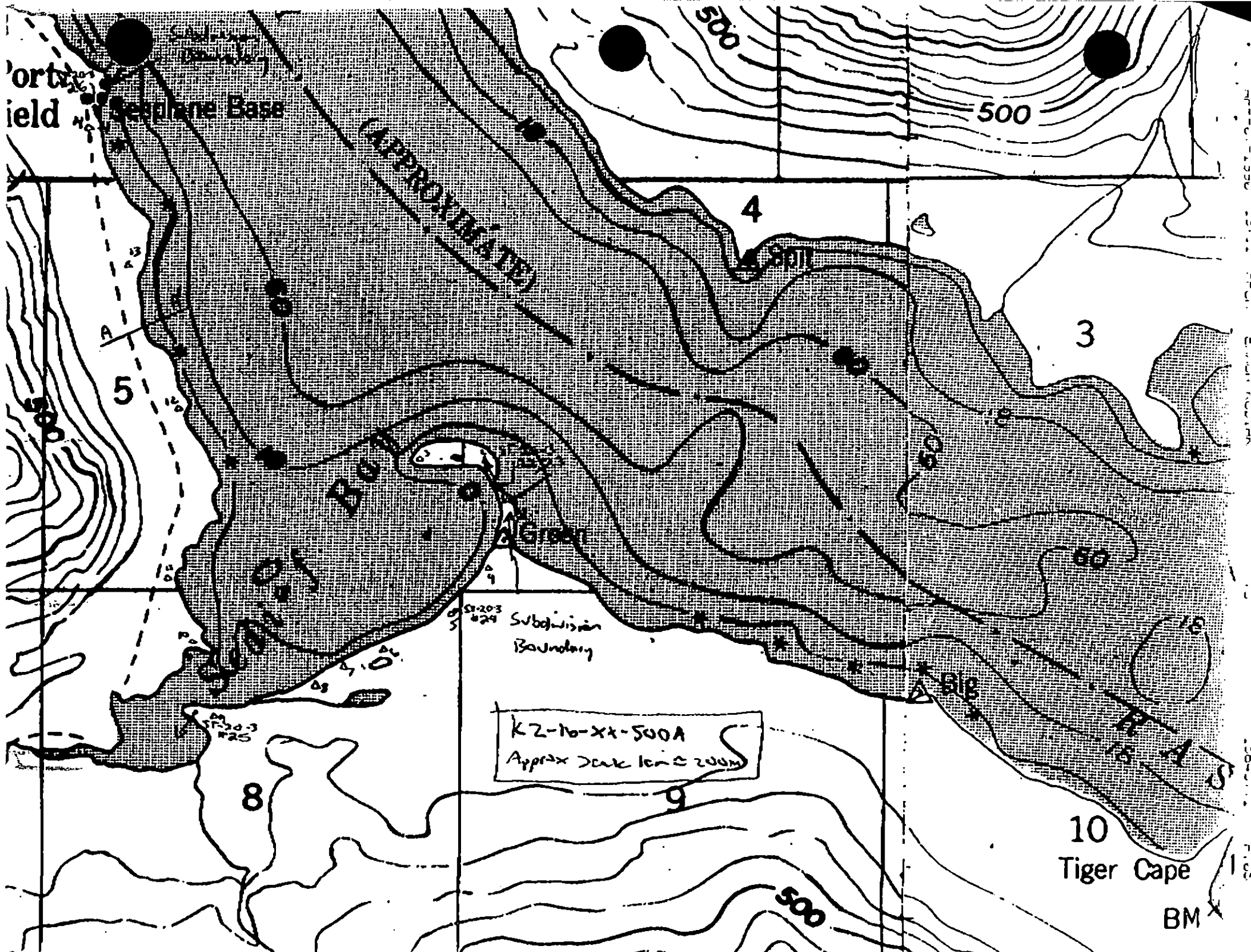
Ecological Considerations: (1A, 1B) Anadromous stream flows into Schief Bay. In the back bay there are extensive Mytilus + Fucus beds. In the front area extensive clam flats, mytilus beds, and some areas of zoetia meadows.

KODIAK ECOLOGICAL CONSTRAINTS

102-16-XX-500

- 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.



Portfield
Seaplane Base

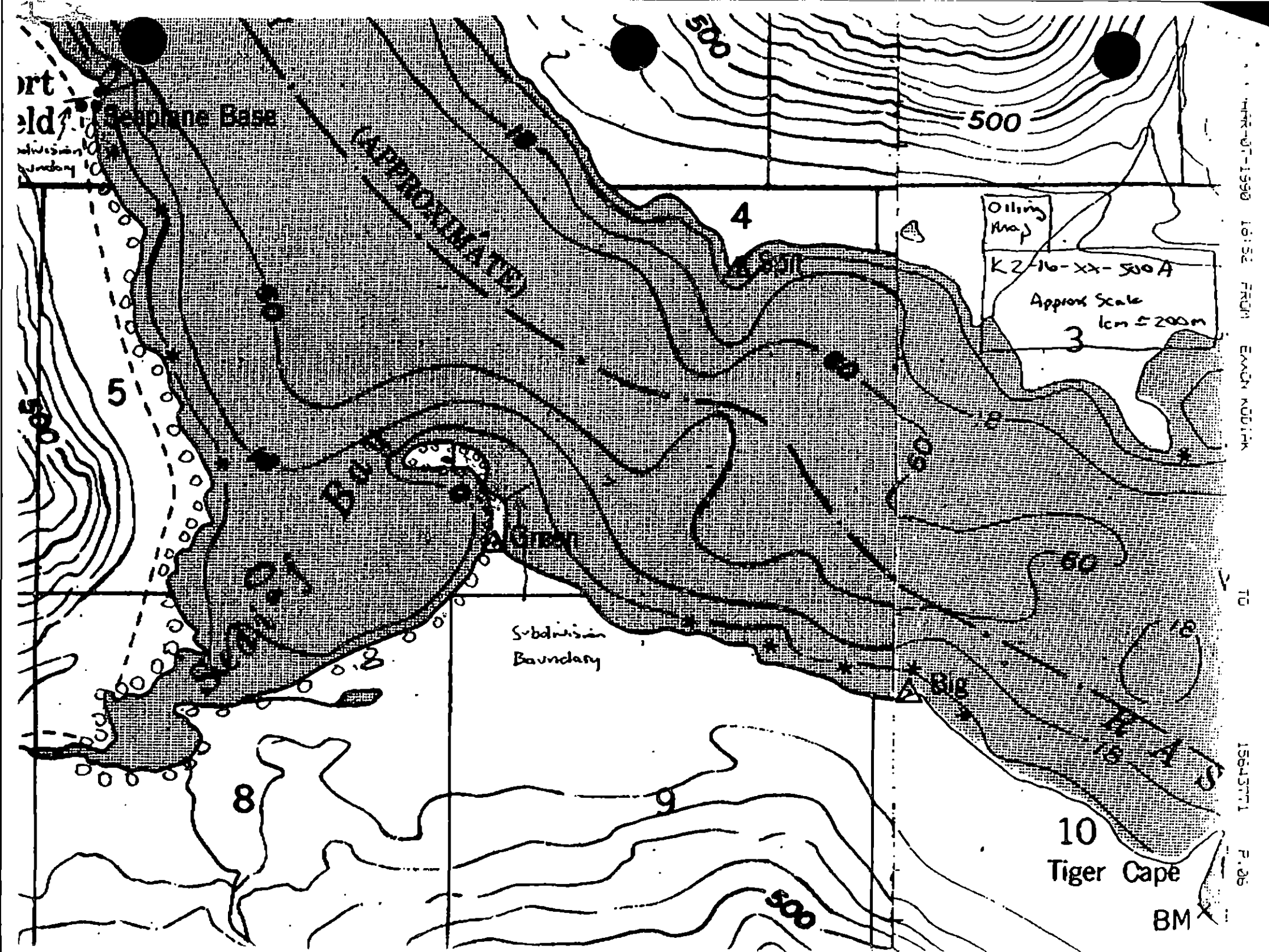
APPROXIMATE

K2-10-XX-500A
Approx Date Jan 2000

Subdivision
Boundary

10
Tiger Cape

BM



SHORELINE EVALUATION

SEGMENT ST/ K0302-IB-02 SUBDIVISION A (1 OF 1) DATE 4/6/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30; Herring spawning (2M) - 4/1 to 6/15. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to unoiled biota and substrate.

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

SHPO SIGNATURE: *Paul E. Hume* DATE: April 12, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 536 m: No Oil 0 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: 4/12/90
ADEC *JOHN BAUER*
EXXON *ANN TEAL*
NOAA *Burt Wescott*
USCG *M. J. Hall*
FOSC: *ay L* DATE: 4-19-90

OG A

SEGMENT ST/ K3-2-1B-2

SUBDIVISION K3-2-1B-2A

DATE 3 / 31 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)
- ☐ Pn Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- Pk - No Subsurface Oil
- 2 Δ
- PII - Subsurface Oil
- CT/C

Continuous Distribution
- CT/B

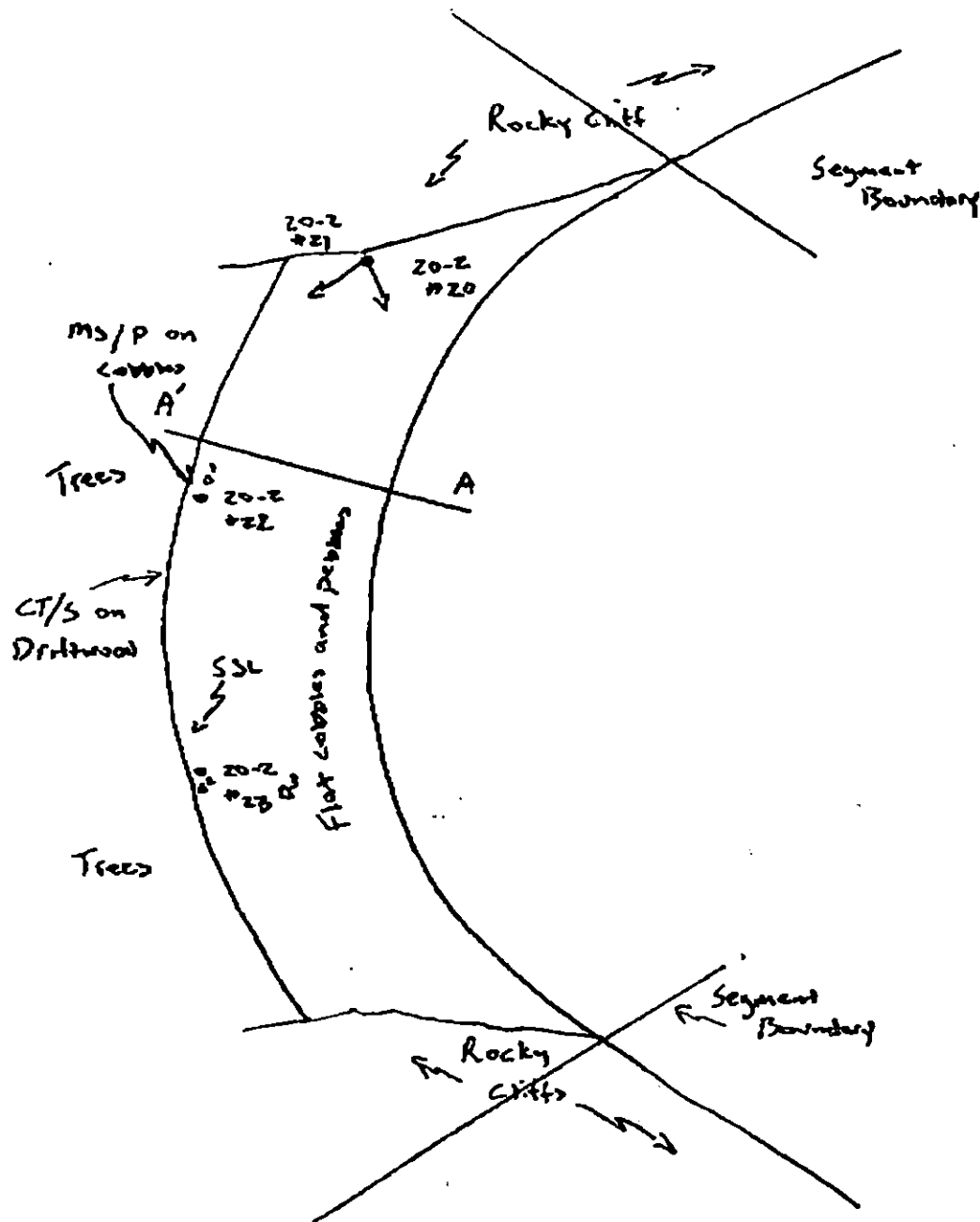
Broken Distribution
- CT/P

Patchy Distribution
- CT/S

Splashed Distribution
- Oiled Vegetation
- 1 $\Rightarrow$
- Photo location, direction, and number

ATCH MAP

Scale 1cm $\approx$ 10m



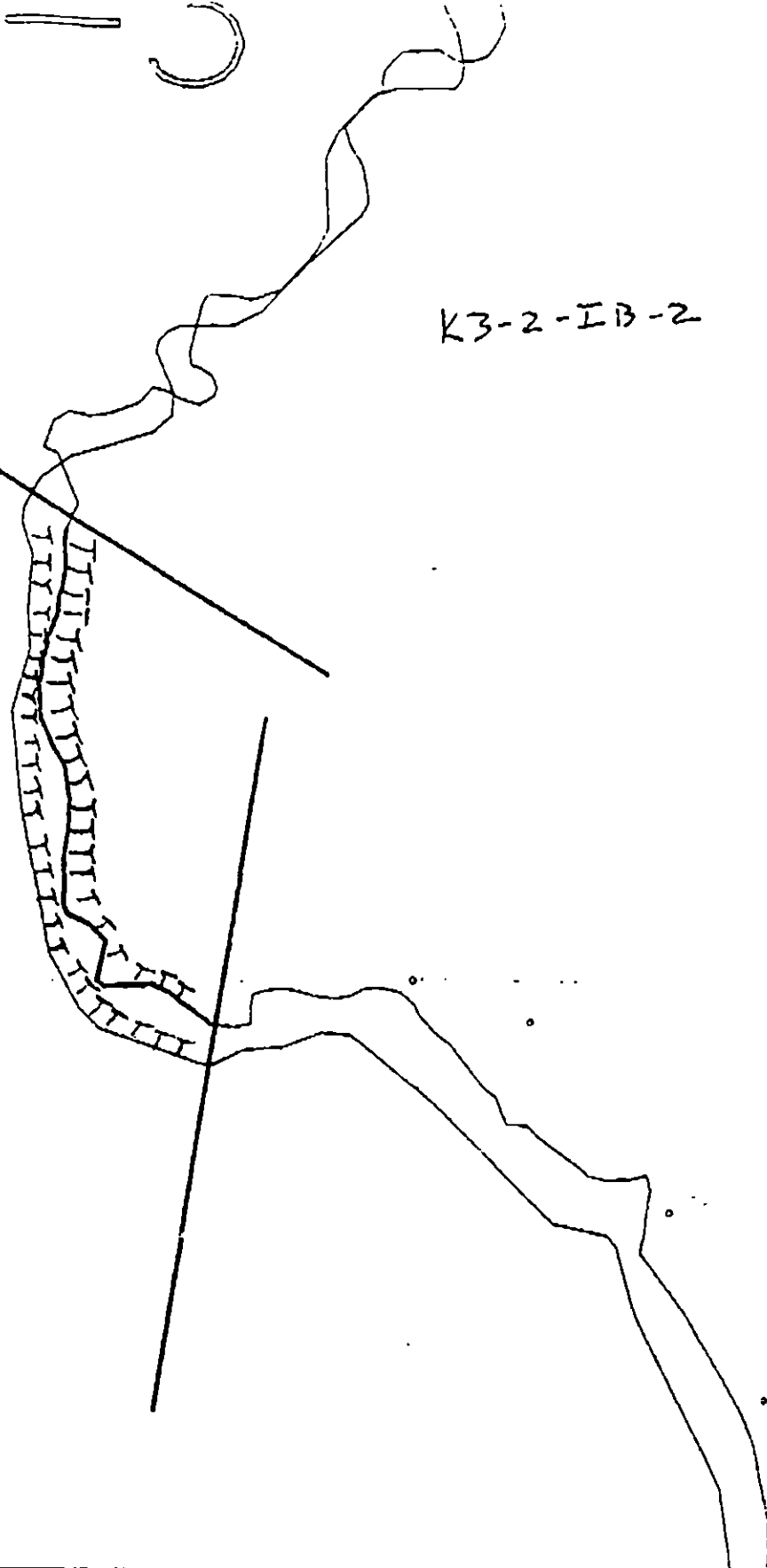
Oil Character Length (m): AP 0 PO 0 CV 0 CT 586 ST 0 MS 586 PT 0 TB 0 FL 0 NO 0

REVISION: 03/20/90

IB-3

K3-2-IB-2

IB-2



XXXX Wide

IB-2

//// Medium

-- Narrow

ADEC Segment Length: 586m

TTTT Very Light

0000 No Oil



Map Key: GOA-123

Name: Acton

Date: 3-3-90

Data Entered:

REGION: KODIAK

SEGMENT: K0302-IB-02

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K0302-IB-02 SUBDIVISION A (1 OF 1) DATE 4/6/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon purse seine area (1J) - 7/20 to 9/30; Herring spawning (2M) - 4/1 to 6/15. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-oiled 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 536 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: _____ 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

K3-2-IB-2

K03-02

SEGMENT ST/ TB-002 SUBDIVISION: _____ DATE 3-31-90

USCG

E.D. Haven Jr, Gm3, USCGR SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Found approx 10 small stains on driftwood in the storm berm. Less than 1% coverage.

ADEC

NAME FRANCIS J. BENNISSIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

VL STAINS ON DRIFTWOOD OF THE STORM BERM EXIST

LAND MANAGER

NAME JOHN P. HARDISTERSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

only oil observed = insignificant stains on driftwood along
extreme high tide line..

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ K3-2-IB-2
 BIO Paula LAND REP USFWS Harbor SUBDIVISION K3-2-IB-2A
 EXXON Avery ADEC Bennis TIME 12:15 to 1:15
 TEAM NO.: 20 TIDE LEVEL: +1 to +3 DATE 3/31/90
 ST. SUBDIVISION LENGTH: 590 m 586 ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 10 % C 50 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 2 m M 0 m N 0 m VL 590 m NO 0 m
 SEG

SURFACE OIL

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

PAVEMENT: H F S 40 sq. m by 1.2 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 N/A

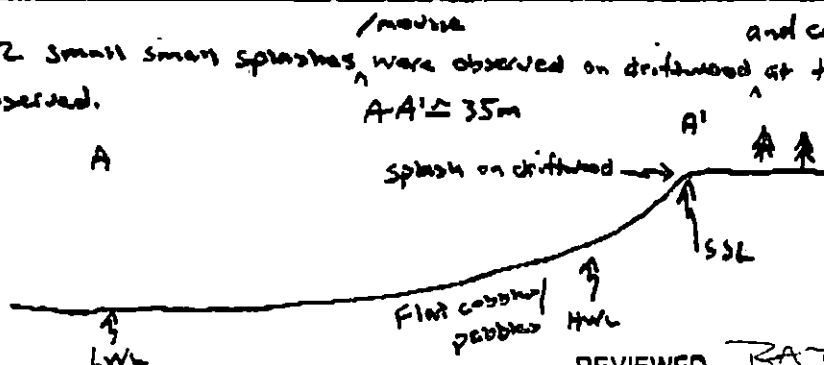
Photographs:

Roll No. 20-2Frames 20-23

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	SB	DB	GY	SL	TL	SU	U	M	U		
1	20					✓	-								✓					CP
2	20					✓	-								✓					CP
3	20					✓	-								✓					CP
							-													
							-													
							-													

COMMENTS Approx 12 small smoky splashes were observed on driftwood at the storm surge line. No other oil was observed.



OG A

SEGMENT ST/ K3-2-IB-2

SUBDIVISION K3-2-IB-2A

DATE 3 / 31 90

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Bndry
- ___ Oil Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HW/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

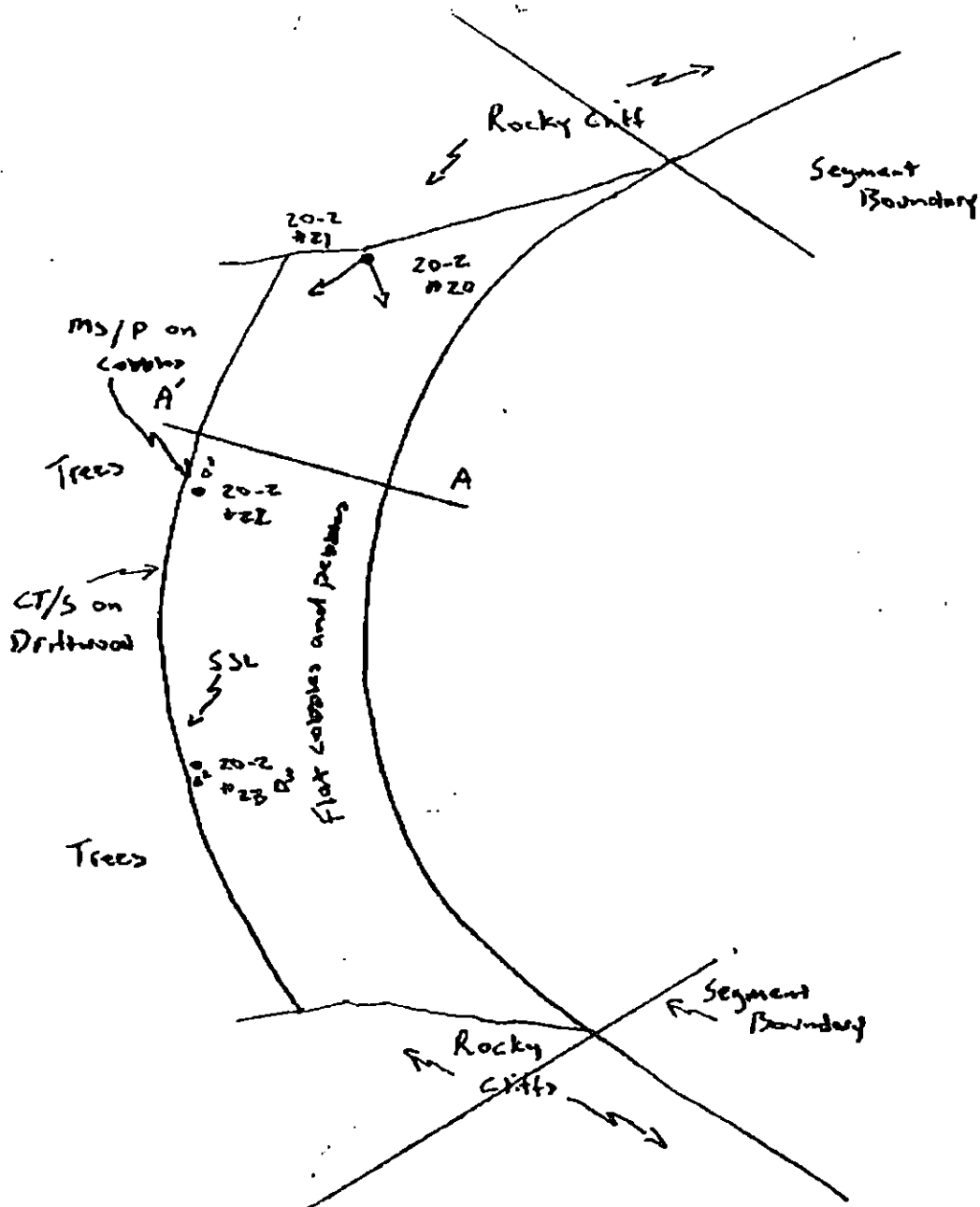
Broken Distribution
- CT/P

Patchy Distribution
- CT/S

Splashed Distribution
- 1 $\Rightarrow$
Oiled Vegetation
- 1 $\Rightarrow$
Photo location, direction, and number

SKETCH MAP

Scale 1cm $\approx$ 10m



Oil Character Length (m): AP 586 PO 586 CV 586 CT 586 ST 586 MS 586 PT 586 TB 586 FL 586 NO 586

REVISION: 9/2/98

Segment ST / K03-02 Subdivision IB-2 Date (mo / day / yr) 3-31-90Time (24 hr) 12:10 Biologist N. Davis

(A) Substrate type and % of segments:

(1) Bedrock 20 (2) Boulder 10 (3) Cobble 50 (4) Pebble 20 (5) Sand (6) Silt (B) Overall % cover of biota (% of segment): Dense 30% 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 (⊙)

Photographs:

Roll No. 20-2Frames 20-23

BARNACLES

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

FUCUS

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

Wildlife Observations/ General Comments: Deer and Elk scat above storm burn. Barren's Golden eye (?). Drift traps at high tide area w/ numerous amphipods. IB-2's biota was concentrated at either end of along shingle beach.

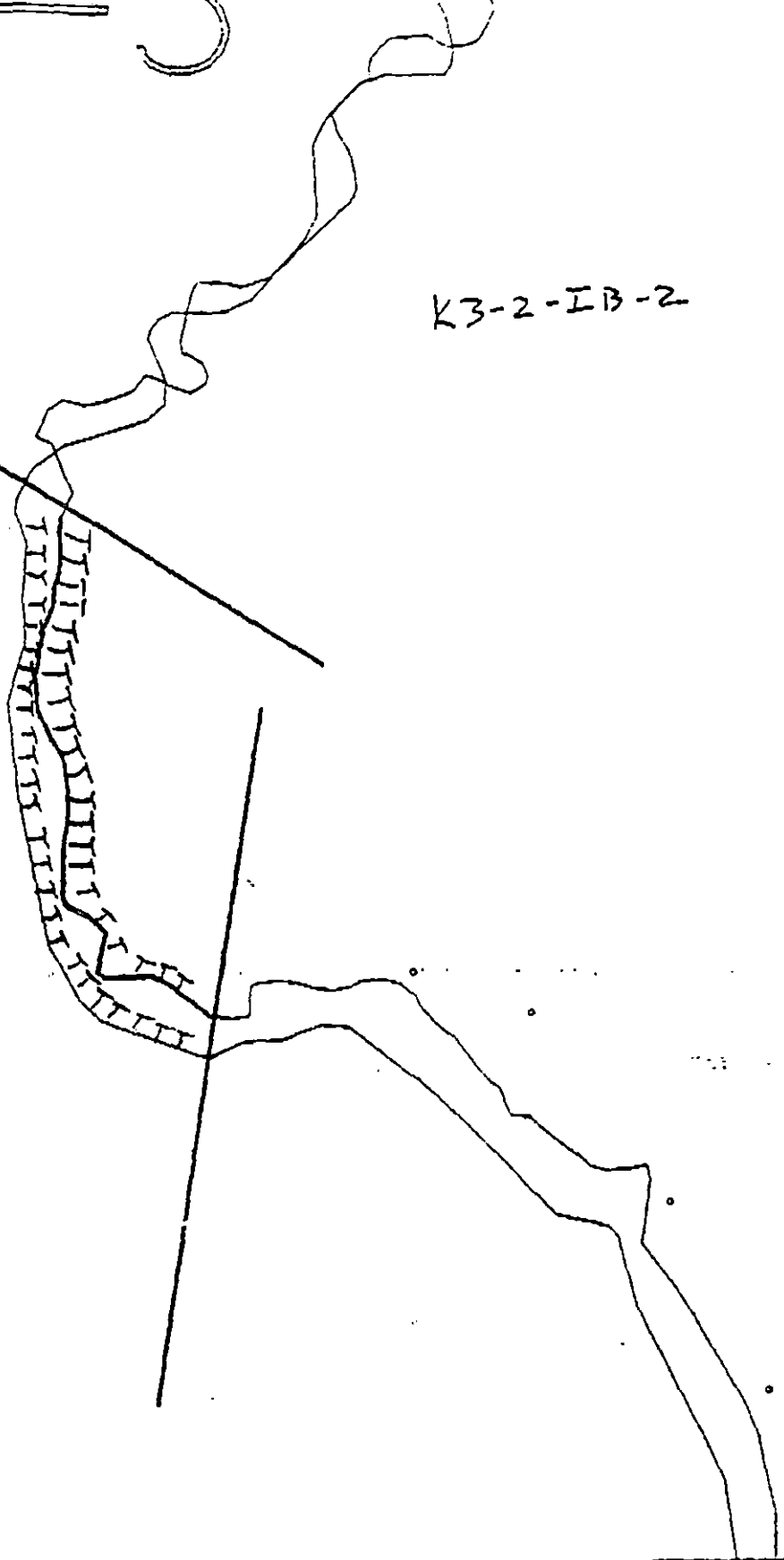
Ecological Considerations: Birds feeding in the rocky intertidal areas to either side of the beach.

2M, 1J-

ID-2

K3-2-IB-2

IB-2



XXXX Wide

//// Medium

-- Narrow

TT Very Light

0000 No Oil

IB-2

ADEC Segment Length: 586m



Map Key: GOA-123

Name: Acton

Date: 3-3-90

Data Entered:

SHORELINE EVALUATION

SEGMENT ST/ KO302-IB-04 SUBDIVISION A (1 of 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Herring spawning in area (2M) - 4/1 to 6/15; Salmon purse seine area (1J) - 7/20 to 8/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Clenaup should proceed using as few people as possible and with minimal disturbance of substrate and biota. May be eagle nest in vicinity.

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 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 18 m: Narrow 34 m: V.Light 0 m: No Oil 142 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 asphalt and mousse in the mid and upper tidal zones. Note work exclusion periods. Treatment ASAP, weather permitting, with small team (2-4 people).

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90.

ADEC JOHN BAUER John Bauer

EXXON ANDY TEAL Andy Teal

NOAA Burt Wescott Burt Wescott

USCG G.A. REITER G.A. Reiter

FOSC: DATE: 4-20-90

OG Anton

SEGMENT 1, K3-2-18-4

SUBDIVISION 18-4A

DATE 3/31 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HW/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

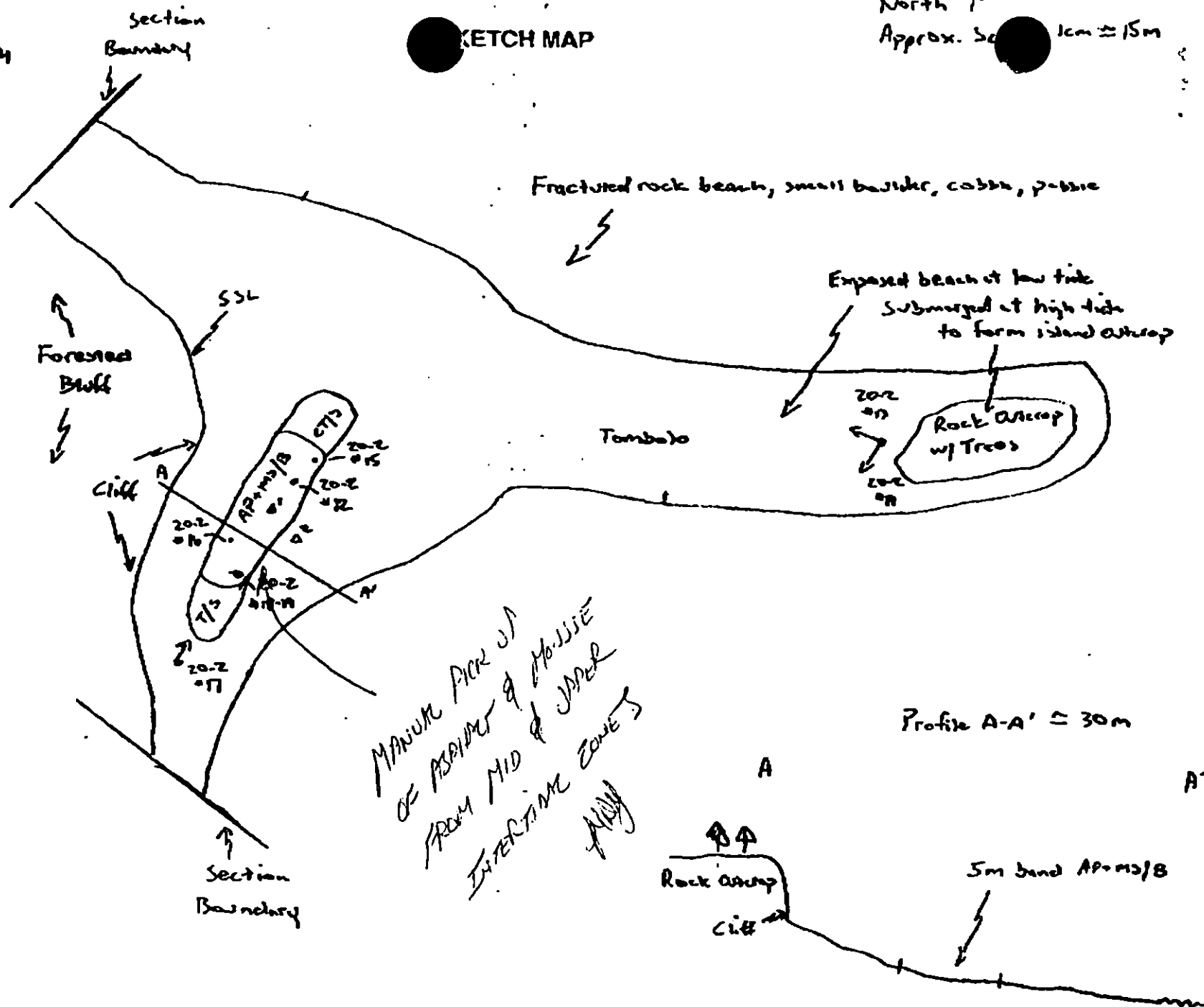
CT/S
Splashed Distribution

$\odot$
Oiled Vegetation

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

SKETCH MAP

North $\uparrow$
Approx. Scale 1cm $\approx$ 15m



Oil Character Length (m): AP 20 PO 0 CV 0 CT 30 ST 0 MS 20 PT 0 TB 0 FL 0 NO 124

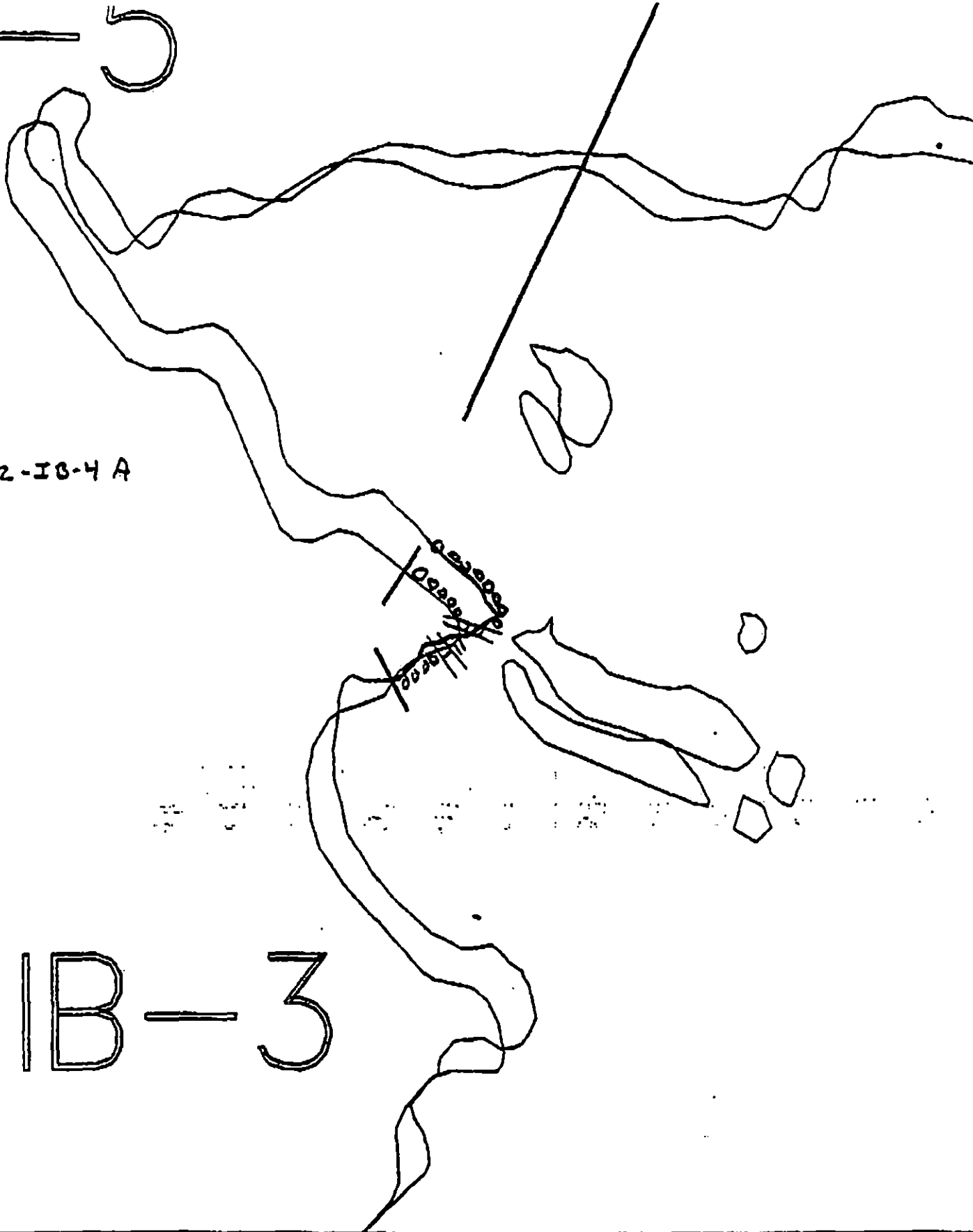
REVISION: 02/20/90

15643771 P.19

TO

APR-02-1990 16:58 FROM EXXON KODIAK

B.N.



XXXX Wide

//// Medium

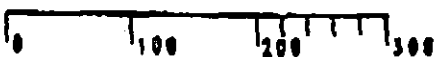
--- Narrow

TTTT Very Light

OOOO M. 0.1

IB-4

ADEC Segment Length: 194m



Map Key: GOA-125

Name: Acton

Date: 3-3-90

Not to scale.

ADDENDUM: SUBDIVISION CONSTRAINTS

K03-02-IB-04
SEGMENT ~~K000-12-4~~ 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

1J	Purse Seine Area	No constraint to manual pickup.
2M	Herring Spawning	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 6/1/90 map indicates no active nest within 400m of Subdivision A work site.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum. Avoid any unnecessary disturbance or damage to unrolled substrate and biota especially intertidal and subtidal algae and seagrass.

FOSC

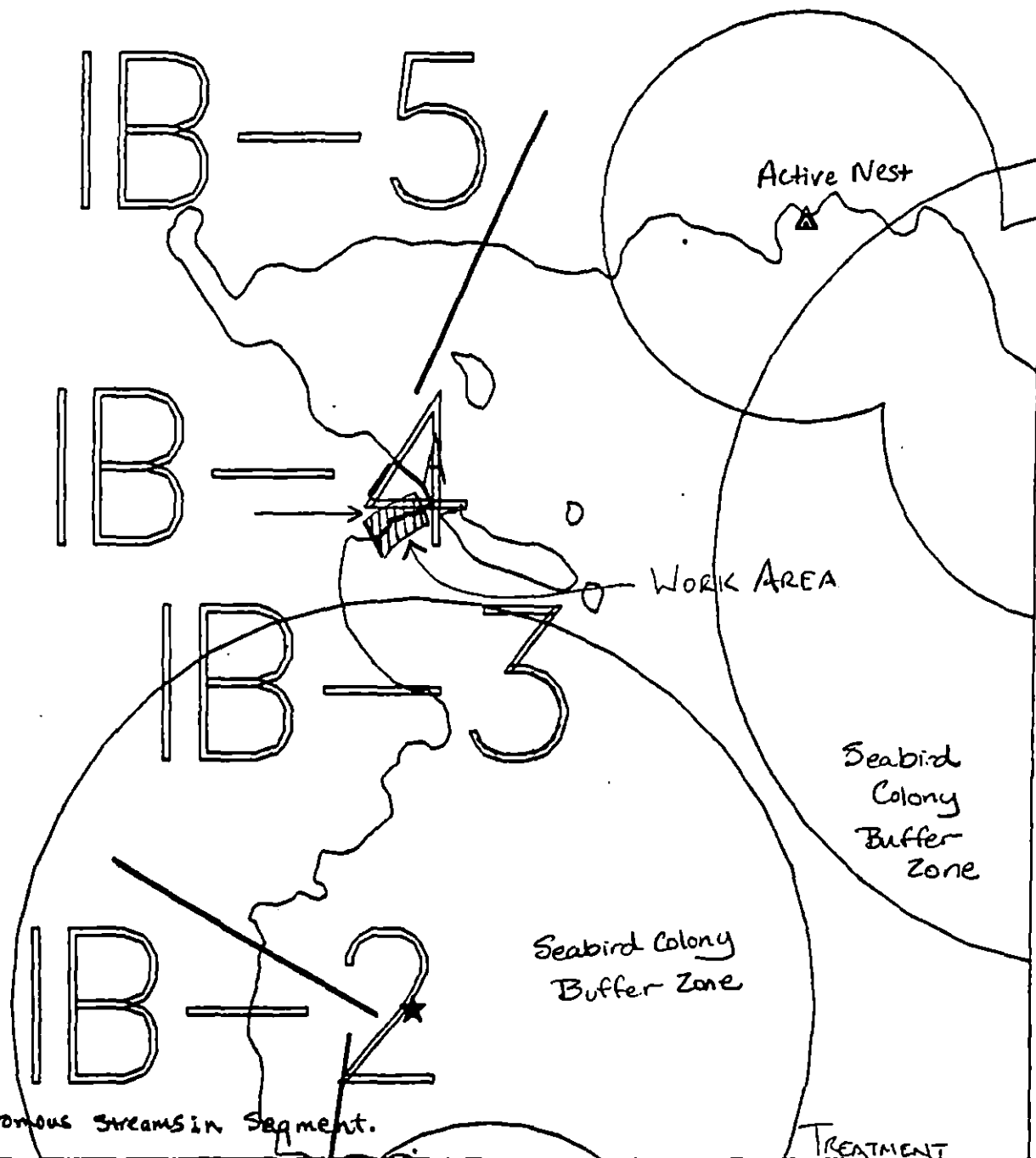
Date

6-10-90

Prepared by

Date

6/10/90



* No ADF+G
Catalogued Anadromous Streams in Segment.



Exxon Company, USA
Map Key: KOD-IB-4
May 17, 1990



ECOLOGY MAP
SEGMENT IB-4
SUBDIVISION A (1 of 1)
METERS
0 329 657

★	Seabird Colony
▲	Eagle Nest

1 inch = 1078 feet

SHORELINE EVALUATION

SEGMENT ST/ K0302-IB-04 SUBDIVISION A (1 of 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Herring spawning in area (2M) - 4/1 to 6/15; Salmon purse seine area (1J) - 7/20 to 8/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Clenaup should proceed using as few people as possible and with minimal disturbance of substrate and biota. May be eagle nest in vicinity.

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 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 18 m: Narrow 34 m: V.Light 0 m: No Oil 142 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 asphalt and mousse in the mid and upper tidal zones. Note work exclusion periods. Treatment ASAP, weather permitting, with small team (2-4 people).

SEE CONSTRAINTS ADDENDUM dated 6/19/90

TAG COMMENTS:

TAG APPROVAL DATE:

ADEC

JOHN BAUER

EXXON

ANDY TSE

NOAA

Burt Wessett

USCG

G.A. BEITER

FOSC:

DATE:

4 : 9-

1991 MAYSAP EVALUATION

SEGMENT: K0302IB004 SUB: A REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN 6/1 - 9/15

Ecological/Constraints (see page two for details) Herring spawning, Fish harvest area

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: Timothy A. 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

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Herring Spawning: No treatment before June 1. Avoid disturbance to kelp and eelgrass.

Fish Harvest Area: Unlimited treatment unless otherwise directed by ADF&G. Sheen containment/recovery procedures required for mechanical treatment.

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6-HELO SEGMENT 1B-4 SUBDIVISION A DATE 5/29/91

ADEC

NAME J. BARNHART, ADEC

SIGNATURE

Jeff Barnhart

- ☒ NTR KISCC - WIMP site. Trace amounts of SOR can be found throughout the area cleaned during 1990. Veco personnel removed approx 10 pounds of oil/oil sediment. Removable oil exists in trace amounts at this site.

Kodiak Island Borough - Concur with ADEC - Steve Heltz

EXXON

NAME R. COULTER, EXXON

SIGNATURE

- ☐ NTR

LANDMANAGER

NAME

OF

SIGNATURE

- ☐ NTR

USCG/NOAA

NAME CWO R. SPURR / G. SHIGENAKA

SIGNATURE

R. Spurr / G. Shigenaka

- ☒ NTR Recoverable SOR/mo removed by Veco workers during survey.

(AFOGNAK)

SURVEYED PORTION OF THE SEGMENT WAS AN ANGULAR BOULDER COBBLE SADDLE BETWEEN A SMALL ISLAND AND THE MAIN BODY OF KODIAK ISLAND. THE SUBSTRATE APPEARED TO BE PART OF A DYNAMIC SYSTEM AND SUBJECT TO MOVEMENT, AND POSSIBLY AS A RESULT FLORA AND FAUNA WERE RELATIVELY SPARSE. SOR AND WEATHERED MOUSSE WERE FOUND IN A FAIRLY WIDE BAND ACROSS THE SITE BUT WITH LOW PERCENT COVERAGE. ONE ANOMALOUS PATCH APPEARED TO BE OILED SUBSTRATE MIXED WITH MELTED PLASTIC. THE VECO CREW RECOVERED OIL RESIDUES TO THE EXTENT POSSIBLE, BUT LITTLE MATERIAL COULD BE COLLECTED.

ADEC

NAME J. BARNHART ADECSIGNATURE Jeff Barnhart

NTR KISCC - WIMP site. Trace amounts of SOR can be found throughout the area cleaned during 1990. VECO personnel removed approx 10 pounds of oil/oil sediment. Removable oil exists in trace amounts at this site.

KODIAK ISLAND BOROUGH - CONCUR WITH ADEC - Steve Shellen

EXXON

NAME R. COULTER EXXONSIGNATURE Rev R. Coulter

☒ NTR RECOVERABLE SOR WAS REMOVED. VERY LITTLE SOR REMAINS. THE REMAINING SOR IS NOT EASILY ACCESSIBLE AND POSES NO THREAT TO THE ENVIRONMENT. NATURAL CLEANING WILL COMPLETE THE DEGRADATION/REMOVAL PROCESS.

LANDMANAGER

NAME Tony DragerOF NOK

SIGNATURE

☐ NTR LANDMANAGER NOT PRESENT. I CONTACTED TONY DRAGER OF NOK ON 28 MAY 91 @ 2130 HRS. HE GAVE LIS PERMISSION TO SURVEY THE SUBDIVISION WITHOUT HIM AS HE HAD NOT TAKEN THE HAZWOPER TRAINING. Rev R. Coulter 31 May 91

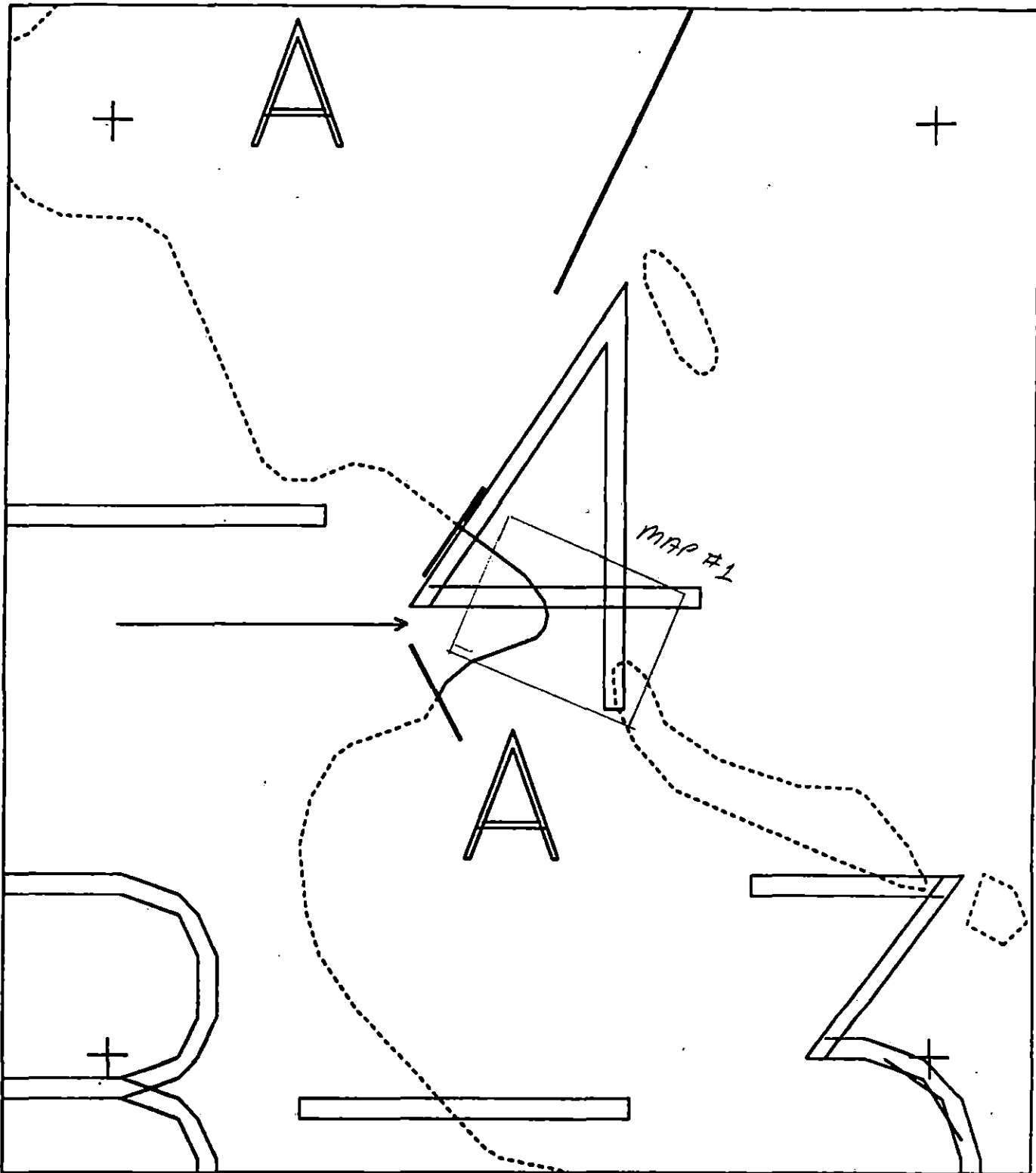
USCG/NOAA

NAME CWO R. SEUR / G. SHIGENAKASIGNATURE R. Seur / G. Shigenaka

☒ NTR Recoverable SOR/was removed by VECO workers during survey.

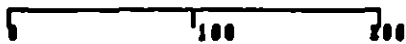
SURVEYED PORTION OF THE SEGMENT WAS AN ANGULAR BOULDER COBBLE SAND BETWEEN A SMALL ISLAND AND THE MAIN BODY OF KODIAK ISLAND. THE SUBSTRATE APPEARED TO BE PART OF A DYNAMIC SYSTEM AND SUBJECT TO MOVEMENT, AND POSSIBLY AS A RESULT FLORA AND FAUNA WERE RELATIVELY SPARSE. SOR AND WEATHERED MOUSSE WERE FOUND IN A FAIRLY WIDE BAND ACROSS THE SITE BUT WITH LOW PERCENT COVERAGE. ONE ANOMALOUS PATCH APPEARED TO BE OILED SUBSTRATE MIXED WITH MELTED PLASTIC. THE VECO CREW RECOVERED OIL RESIDUES TO THE EXTENT POSSIBLE, BUT LITTLE MATERIAL COULD BE COLLECTED.

Revised: MC 6/3/91



K0302 IB004 A

METERS



AK State Plane Zone 4,
9830210004a

Subdivision Field Map

Map Key: 60AK0302IB004A

Name: D. Fitzgerald

Date: 29 May 1991

Bushes
and shrubbery

Logs

Photo SITES

Sketch Map DG.
K03-02-IB-04A
D.M. FITZGERALD
29 MAY 1991
1210 - 1230

PU * VECO WORKER
RETRIEVED less than
1 bags of oiled
Sediment

P+C+B
Beach

Afognak
ISLAND

Izhut
BAY

MLW

Bedrock
outcrop

Isthmus

Is.

BC Beach AND
INTERtidal
ZONE

MLW

A. SOR
10-25 by 40m $\times$ 190
IN between boulders
Highly weathered

0 10
METERS

REVIEWED: MC 6/3/91

Bushes
and shrubbery
Logs
PHOTO SITES

PHOTO SITES, 18-4A
ROLL 6-25, FRAMES 7 THRU 10

Sketch May (06)
K03-02-2B-04A
D.M. Fitzgerald
29 May 1991
1210 - 1230

RU * VECO WORKER
RETRIEVED less than
1 bags of oiled
sediment

P+C+B
Beach

Izhut
Bay

Afoqnaik
ISLAND

MLW

Backwash
outcrop

Isthmus

Is.

BC Beach and
Intertidal
ZONE

MLW

A. SOR
10-25 by 40m x 19.
Ex between boulders
Highly weathered

0 10
METERS

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K03-02 IB-04

TIDAL HEIGHT(Range) 2-4.5 (12¹⁰ - 12³⁰)

SUBDIVISION A

BIOLOGIST N. Davis

SEA STATE Calm < .5 ft

WIND SPEED/DIRECTION 10 Kt. NE

PHOTOGRAPHS: ROLL # 6-25

FRAME # 7-10

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

Site A - The site was up in the HI+2, an area of sparse to moderate barnacles and limpets. Mytilus and Littorina are also present in moderate numbers in crevices and between rocks. This part of the segment is a saddle between a exposed shoal and an area that was a promontory but is now an island at high tide. The barnacles (B. glandulosus) limpets (N. persona + N. scuta) littorina, and mytilus ranged from sparse to moderate coverage but they were continuous across the saddle. Lower down on the side of the saddle was a very rich intertidal area. The tide was not quite low enough to assess. The area visible had a dense Fucus cover and looked to be going through normal spring growth.

Commons 2 yellow rumped warbler (1) Ravens (2)

Glaucous winged Gulls (6) Loon/Gulls (14) Osprey (1) Harlequin (6) 20th 4th

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	2	2	
Waterfowl	2	10	
Gulls/Kittiwakes	1	1	
Shorebirds	1	1	
Corvids	1	2	
Other Birds warbler	1	1	

LAND MAMMALS

MARINE MAMMALS	# OBSERVED	SPECIES	# OBSERVED
Sea Otters	0	Deer scat in brush.	
Pinnipeds (specify)			
Narwhal or Sealion *	1		
les (specify)	0		

* It was raining and very hard to see the animal possibly an otter.
Shoreline subdivision map showing important biological features attached.

Bushes
and shrubbery

Logs

PHOTO SITES

Bio Map
H. Davis

Sketch MAP (DC)
K03-02-IB-04A
D. M. Fitzgerald
29 May 1991
1210 - 1230

PU * VECO WORKER
RETRIEVED less than
1 bags of oiled
sediment

P+C+B
Beach

Afoqnak
ISLAND

Izhut
BAY

MLW

Bedrock
outcrop

Isthmus

Is.

BC Beach AND

INTERtidal
ZONE

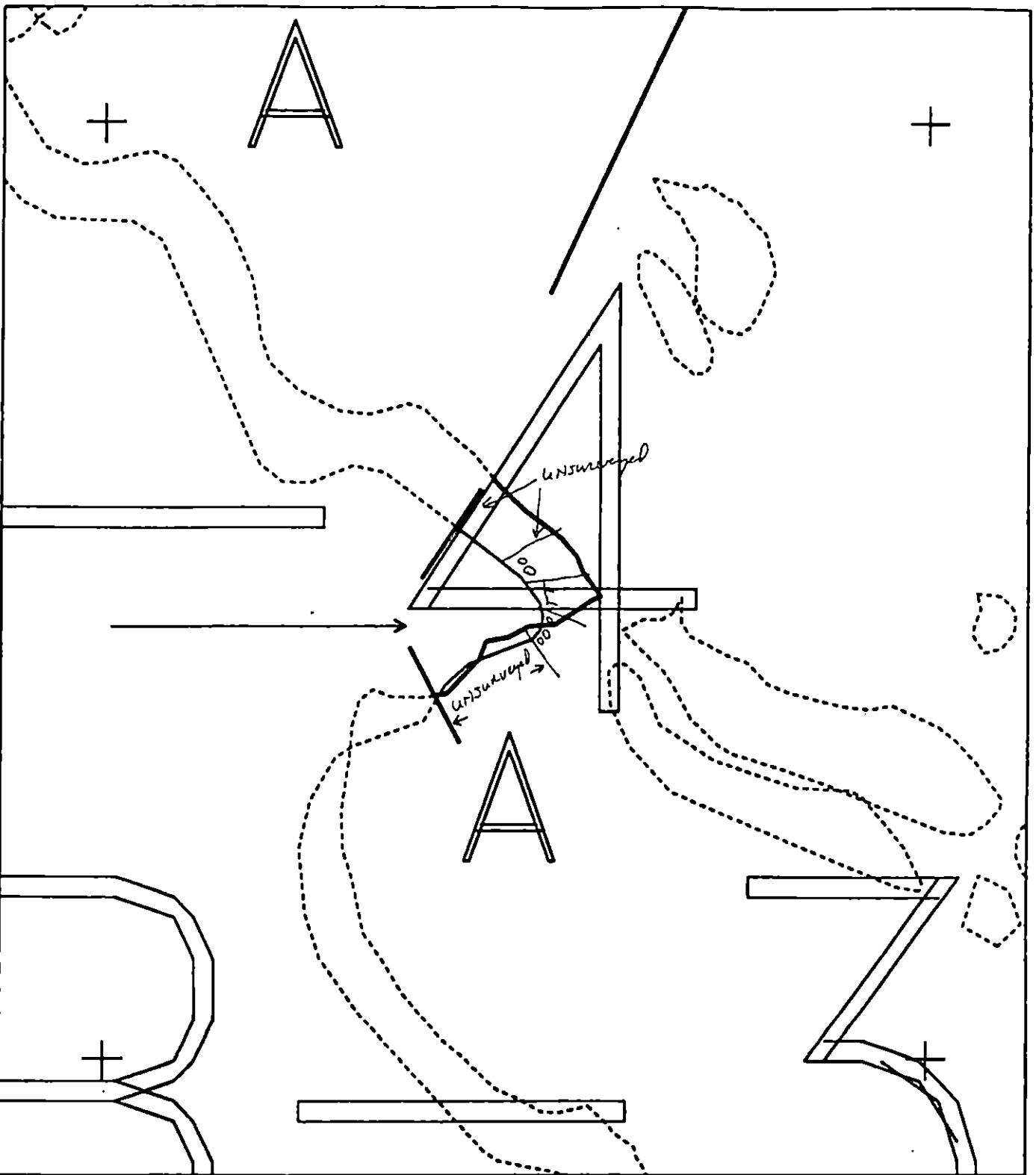
Barnacles, mytilus
littorina and limpet
zone. Continuous but
sparse to moderate.

MLW

A. SOR
10-25 by 40m $< 19\%$
In between boulders
Highly weathered

This area was a
rich intertidal
community, but
couldn't be assess
due to rain + tide height.

0 10
METERS



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

K0302 IB004 A
 ADEC Subsegment Length: 263m
 METERS

0 100 200
 AK State Plane Zone 4
 903021B004a-...



Subdivision Field Map
 Map Key: 60AK0302IB004A
 Name: Fitzgerald
 Date: 29 May 1991
 Date Entered:

Reviewed: MC 6/3/91

1991 MAYSAP EVALUATION

SEGMENT: K0302IB004 SUB: A REGION: KOD SURVEY DATE: 5/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN 6/1 - 9/15

Ecological/Constraints (see page two for details) Herring spawning, Fish harvest area

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**

Herring Spawning: No treatment before June 1. Avoid disturbance to kelp and eelgrass.

Fish Harvest Area: Unlimited treatment unless otherwise directed by ADF&G. Sheen containment/recovery procedures required for mechanical treatment.

ADEC

NAME J. BARNHART ADECSIGNATURE Jeff Barnhart

- ☒ NTR KISCC - WIMP site. Trace amounts of SOR can be found throughout the area cleaned during 1990. VECO personnel removed approx 10 pounds of oil/oil sediment. Removable oil exists in trace amounts at this site.

Kodiak Island Borough - Concur with ADEC - Steve Offelino

EXXON

NAME R. COULTER EXXONSIGNATURE Rev R. Coulter

- ☒ NTR RECOVERABLE SOR WAS RETRIEVED. VERY LITTLE SOR REMAINS. THE REMAINING SOR IS NOT EASILY ACCESSIBLE AND POSES NO THREAT TO THE ENVIRONMENT. NATURAL CLEANING WILL COMPLETE THE DEGRADATION/REMOVAL PROCESS.

LANDMANAGER

NAME TONY DRAGEROF NOK

SIGNATURE _____

- ☐ NTR LANDMANAGER NOT PRESENT. I CONTACTED TONY DRAGER OF NOK ON 28 MAY 91 @ 2130 HRS. HE GAVE LIS PERMISSION TO SURVEY THE SUBDIVISION WITHOUT HIM AS HE HAD NOT TAKEN THE HAZWOPER TRAINING. Rev R. Coulter 31 May 91

USCG/NOAA

NAME CWO R. SEUR/G. SHIGENAKASIGNATURE R. Seur / G. Shigenaka

- ☒ NTR Recoverable SOR/NO removed by VECO workers during survey.

SURVEYED PORTION OF THE SEGMENT WAS AN ANGULAR BOULDER COBBLE SADDLE BETWEEN A SMALL ISLAND AND THE MAIN BODY OF KODIAK ISLAND. THE SUBSTRATE APPEARED TO BE PART OF A DYNAMIC SYSTEM AND SUBJECT TO MOVEMENT, AND POSSIBLY AS A RESULT FLODA AND FAUNA WERE RELATIVELY SPARSE. SOR AND WEATHERED MOUSSE WERE FOUND IN A FAIRLY WIDE BAND ACROSS THE SITE BUT WITH LOW PERCENT COVERAGE. ONE ANOMALOUS PATCH APPEARED TO BE OILED SUBSTRATE MIXED WITH MELTED PLASTIC. THE VECO CREW RECOVERED OIL RESIDUES TO THE EXTENT POSSIBLE, BUT LITTLE MATERIAL COULD BE COLLECTED.

ADEC

NAME J. BARNHART, ADEC SIGNATURE Jeff Barnhart

- ☒ NTR KISCC - WIMP site. Trace amounts of SOR can be found throughout the area cleaned during 1990. Veco personnel removed approx 10 pounds of oil/oil sediment. Recoverable oil exists in trace amounts at this site.

Kodiak Island Borough - Concur with ADEC - Steve Offenberg

EXXON

NAME R. COULTER, EXXON SIGNATURE _____

☐ NTR

LANDMANAGER

NAME _____ OF _____ SIGNATURE _____

☐ NTR

USCG/NOAA

NAME CWO R. SPURR / G. SHIGENAKA SIGNATURE R. Spurr / G. Shigenaka

- ☒ NTR Recoverable SOR/mo removed by Veco workers during survey.

(AFOGNAK)

SURVEYED PORTION OF THE SEGMENT WAS AN ANGULAR BOULDER COBBLE SADDLE BETWEEN A SMALL ISLAND AND THE MAIN BODY OF KODIAK ISLAND. THE SUBSTRATE APPEARED TO BE PART OF A DYNAMIC SYSTEM AND SUBJECT TO MOVEMENT, AND POSSIBLY AS A RESULT FLORA AND FAUNA WERE RELATIVELY SPARSE. SOR AND WEATHERED MOUSSE WERE FOUND IN A FAIRLY WIDE BAND ACROSS THE SITE BUT WITH LOW PERCENT COVERAGE. ONE ANOMALOUS PATCH APPEARED TO BE OILED SUBSTRATE MIXED WITH MELTED PLASTIC. THE VECO CREW RECOVERED OIL RESIDUES TO THE EXTENT POSSIBLE, BUT LITTLE MATERIAL COULD BE COLLECTED.

SEGMENT K03-02 IB-04

SUBDIVISION A

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 40 m NO 40 m US 183 m

[illegible]

DISTRIBUTION: C = 91-100%; B = 81-90%; P = 11-80%; S = 1-10%; T = <1%

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

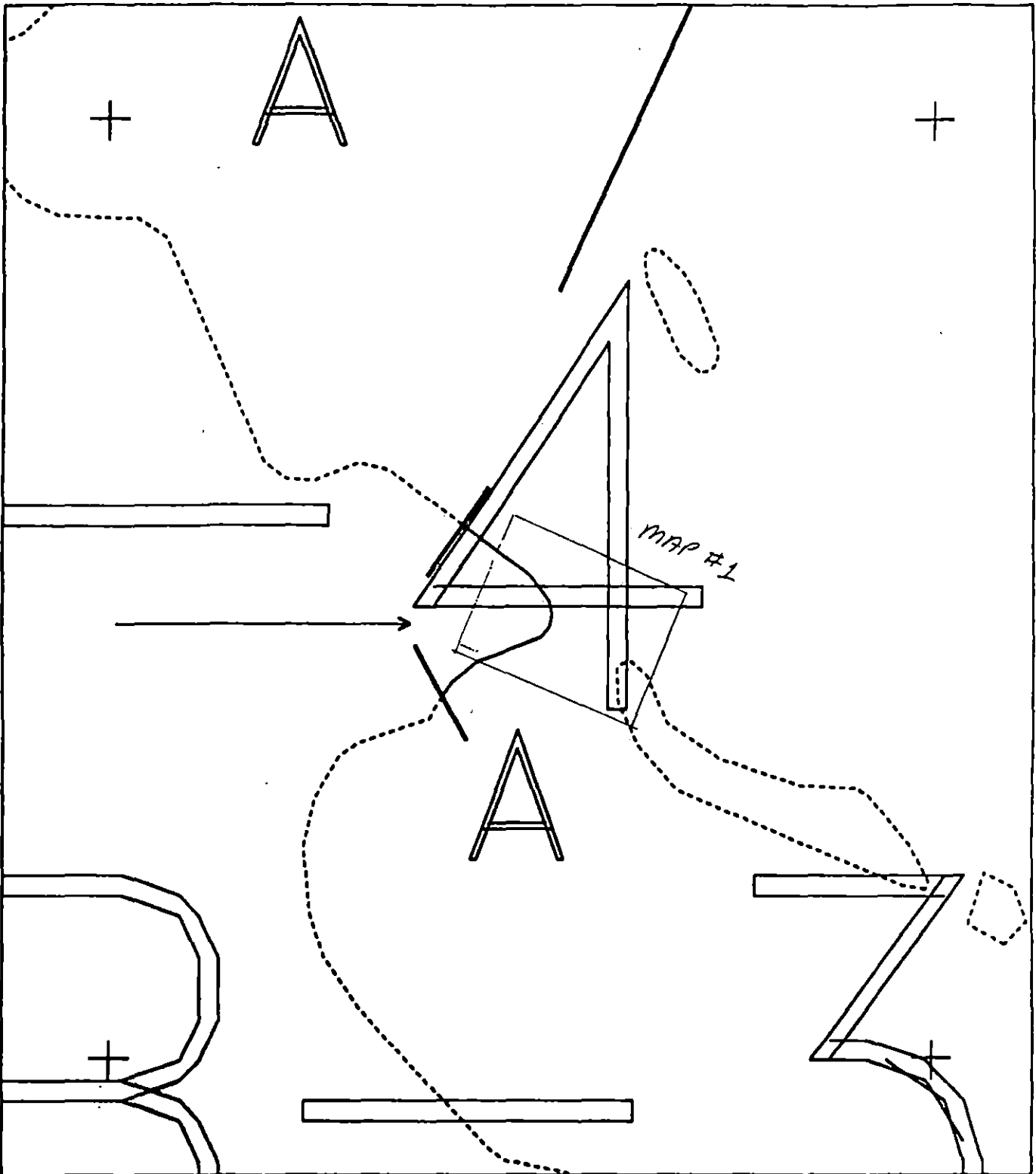
PHOTO ROLL # MAYSAP- 6 - 25 FRAMES 7-10

[illegible]

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

OG COMMENTS: This segment is located at the Northwestern end of Izhut Bay and covers a promontory of Afognak Island that extends easterly toward a small Island. The oiled area includes an UETZ that consists of angular boulders with finer-grained gravel interspersed. The oiling here is characterized by highly weathered SOX between boulders and occurring sporadically.

REVISED: MC 6/3/91



K0302 IB004 A

Subdivision Field Map

Map Key: 604K0302IB004A

Name: D. Fitzgerald

Date: 29 May 1991

METERS

0 100 200

AK State, Platte, Sec. 1.
030216004A



- ↓ Bushes and shrubbery
- ≡ Logs
- PHOTO SITES

Sketch Map 06
K03-02-IB-04A
D.M. Fitzgerald
29 May 1991
1210 - 1230

PU * VECO WORKER
RETRIEVED less than
1 bags of oil &
Sediment

P+C-B
Beach

Izhut
Bay

Afognak
Island

MLW

Bedrock
outcrop

Isthmus

Is.

BC Beach AND
INTERtidal
ZONE

MLW

A. SOR
10-25 by 40m x 190
In between boulders
Highly weathered

0 10
METERS

Reviewed: MC 6/31/91

PHOTO SITES, 18-4A
ROLL 6-25, FRAMES 7 THRU 10

Sketch Map (06)
K03-02-18-04A
D.M. Fitzgerald
29 MAY 1991
1210 - 1230

Bushes
and shrubbery
Logs
PHOTO SITES

PU * VECO WORKER
RETRIEVED less than
1 bag of oiled
sediment

P+C+8
Beach

Afognak
ISLAND

Izhut
Bay

MLW

Badnach
outcrop

Isthmus

Is.

BC Beach and
Inter-tidal
ZONE

MLW

A. SOR
10-25 by 40m $< 1\%$
in between boulders
Highly weathered

0 10
METERS

RAISAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 29 1991

SEGMENT # K03-02 IB-04

TIDAL HEIGHT(Range) 2-4.5 (12¹⁰ - 12³⁰)

SUBDIVISION A

BIOLOGIST N. Davis

SEA STATE Calm < .5 ft

WIND SPEED/DIRECTION 10 Kt. NE

PHOTOGRAPHS: ROLL # 6-25

FRAME # 7-10

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

Site A - The site was up in the KITZ, an area of sparse to moderate barnacle and limpets. Mytilus and Littorina are also present in moderate numbers in crevices and between rocks. This part of the segment is a saddle between a cove and an area that was a promontory but is now an island at high tide. The barnacles (B. glandulosus) limpets (N. persona + N. scuta) Littorina and mytilus ranged from sparse to moderate coverage but they were continuous across the saddle. Lower down on the side of the saddle was a very rich intertidal area. The tide was not quite low enough to assess. The area visible had a dense Fucus cover and looked to be going through normal spring growth.

Comments 2 yellow rumped warbler (1) Ravens (2)

Glaucous winged Gulls (6) Loon/Gulls (14) Gullcatcher (1) Harlequin (6) 20¹ 4⁹

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0		0
Seabirds	2	2	
Waterfowl	2	10	
Gulls/Kittiwakes	1	6	
Shorebirds	1	1	
Corvids	1	2	
Other Birds warbler	1	1	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Deer scat in brush.	
Pinnipeds (specify)			
Harbor or Sealion *	1		
Whales (specify)	0		

* It was raining and very hard to see the animal possibly an otter.

Shoreline subdivision map showing important biological features attached.

6/1/91

-  Bushes and shrubbery
-  Logs
-  PHOTO SITES

Bio Map
H. Davis

Sketch Map (DC)
K03-02-IB-04A
D. M. Fitzgerald
29 May 1991
1210 - 1230

PU * VECO WORKER
RETRIEVED less than
1 bags of oiled
Sediment

Izhut
BAY

Afognak
ISLAND

P+C+B
Beach

MLW

Bedrock
outcrop

Isthmus

Is.

BC Beach and

Intertidal
ZONE

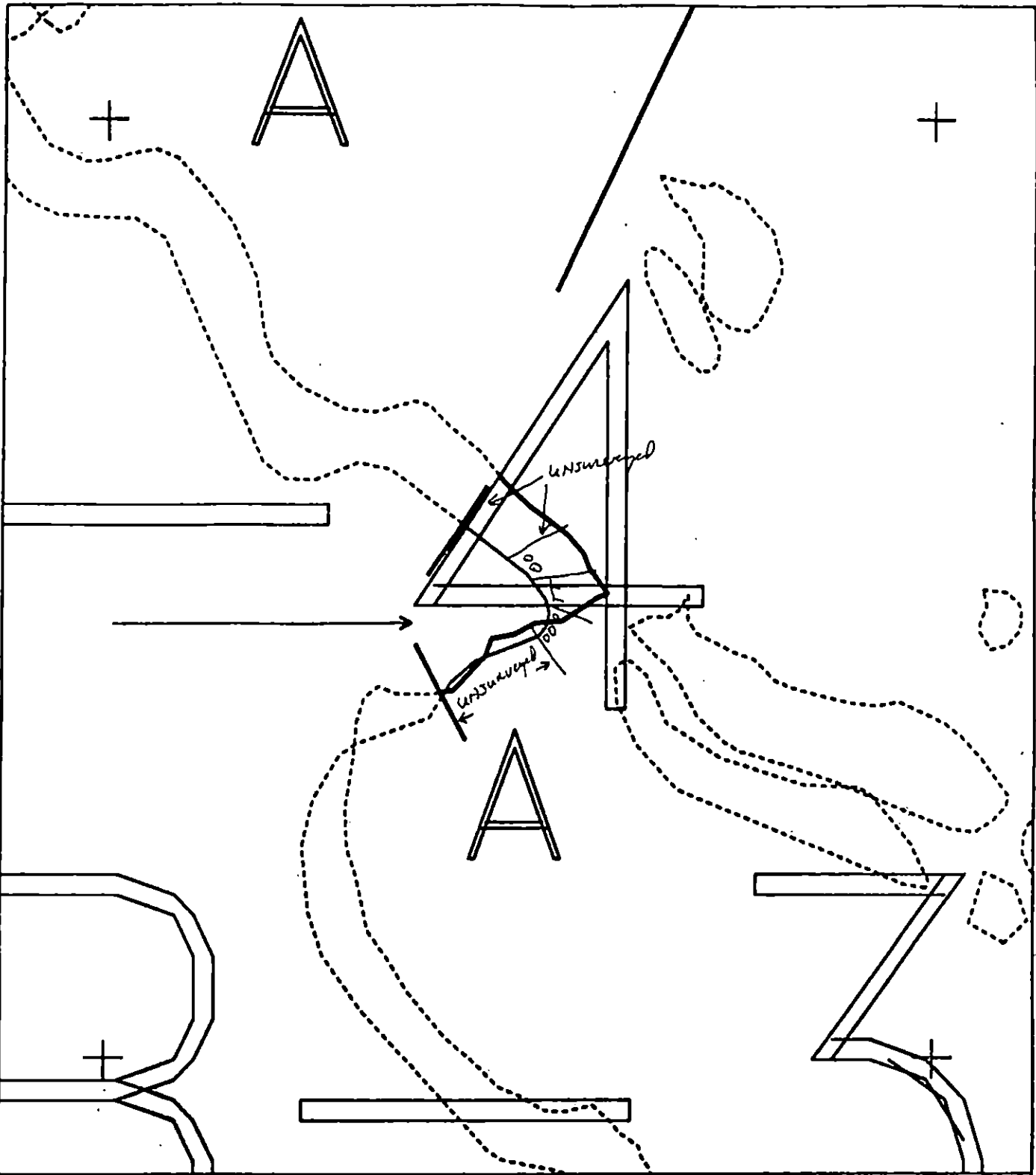
Barnacles, mytilus
littorina and limpet
zone. Continuous but
sparse to moderate.

MLW

A. SORE
10-25 by 40m $\times$ 190
In between boulders
Highly weathered

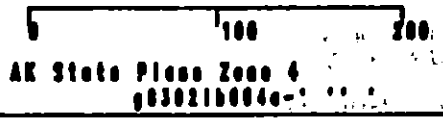
This area was a
rich intertidal
community, but
couldn't be assess
due to rain + tide height.

0 10
METERS



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

K0302 IB004 A
 ADEC Subsegment Length: 263m
 METERS



Subdivision Field Map
 Map Key: 60AK0302IB004A
 Name: Fitzgerald
 Date: 29 May 1991
 Date Entered:



REVIEWED: MC 6/3/91

ARLIS
Alaska Resources
Library & Information Services
Anchorage, AK