

OIL SPILL PUBLIC INFO. CENTER



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EVOS
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1990
v.8

[Shoreline evaluations, 1990].

EV-01 – EV-19

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SHORELINE EVALUATION

SEGMENT ST/ EV-01 SUBDIVISION A (1 OF 1) DATE 4/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: J. David McMan DATE: 5/9/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 17 m: V.Light 13 m: No Oil 28 m
Subsurface Oil Observed: Yes X No Maximum Depth 15 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 Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of tarballs,
2) bioremediation of area indicated on sketch map. Work should be
conducted after 6/1 with approval of USFWS due to eagle nest con-
straint.

TAG COMMENTS: MANUAL RANG IN AREA OF TP 4 PRIOR TO BID

TAG APPROVAL DATE: 5/9/90

ADEC Art Weller

EXXON Andrew

NOAA Burt Wasscott

USCG D.D. Rome

FOSC: ML DATE: 5-18-90

NOTIFY CVC 24 HRS IN ADVANCE
OF WORK

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
1E Main Bay Hatchery release (4/20 to 6/15)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
1G Cannery Creek Hatchery release (4/21 to 6/1)
1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (5/7 to 8/31)
1J Purse seine area (7/20 to 9/30)
1K Purse seine hook-off (7/20 to 9/30)
1L Set net sites (5/11 to 7/25)
Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235
- 3 Harbor seal and sea lion pupping (5/15 to 7/1)
3 Harbor seal and sea lion molting (5/15 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)
7H Finfish harvesting
7B Deer harvesting (5/15 to 2/28)
Invertebrate harvesting
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

SEGMENT ST1 EVO1 SUBDIVISION: A DATE April 25-1998USCG
NAMESHAWN MAAS

SIGNATURE

Shawn A. Maas DC☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

RECOMMEND MANUAL REMOVAL OF ASPHALT/PAVEMENT
AND BIOREMEDIATION IF SUBSURFACE OILS. AREA COVERED
ON DOCKET BEACH SMALL. COVER ON VERTICAL ROCK
FACE BROKEN, WITH NEW POPULATION OF BIRCH GROWING
IN OILED BAND AS INDICATED BY BIO REPORT.

ADEC
NAMEDave Sale

SIGNATURE

Dave M Sale☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Part OF THE OIL ~~SPOT~~ ^{DRUM} FOUND WAS RETRIEVED BY SSAT TEAM
DURING SURVEY BUT SOME REMAINS ON THE "OUTER" SIDE OF
THE ISLAND (RACING NNN).

- ① TAN MAT, ASPHALT, TIRE BRILLS SHOULD BE MANUALLY REMOVED
- ② SATURATED SUBSURFACE SEDIMENTS ON WEST (OUTER) SIDE OF
ISLAND SHOULD BE REMOVED

LAND MANAGER

NAME

Don Komptoff Jr

SIGNATURE

Donald P. Komptoff Jr☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY

REVISION NO. 04/15/90

OG R. Marty USCG S. Maas SEGMENT ST/ EV-01
 BIO B. Lemon LAND REP D. Kempf SUBDIVISION A (A OF A)
 EXXON J. Czarneski ADEC D. Sale TIME 12:43 to 12:43
 TEAM NO. 10 TIDE LEVEL +1.08m → +1.07m DATE 24 April 90
 EST. SUBDIVISION LENGTH: 346 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 85 % B 10 % C 5 % P 0 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 20 % Hang 50 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 111 m VL 10 m NO 239 m

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0 cmPATTIES / TARBALLS 2 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	NO	AMOUNT		
		SM	MD	LG
Logs	☒			
Vegetation	☒			
Trash	☒			
Debris	☒			

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐TYPE Misc.#BAGS 1# minor oiled grass
Photographs:Roll No. ST/10/14Frames 25-30

* Minor volumes, primarily in subsurface, it was largely removed during survey.

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SHEEN (Y/N)	V	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		W	U	W	M	N	VL	W	M	N	VL				
1	30					X								X				N	N	24	PG-GSM
2	70					X								X				N	-	N	PG-GS
3	40					X								X				N	-	N	PG-SG
4	15	X					0.15	-	?	X				X				Y	Y	5	PG-GS-R
5	13	X					0.12	-	X					X	X			N	-	N	BCP-GS

COMMENTS No oil remains on the tombolo, except for a 1cm band of tarry coat in places on the rock. Moving around the 'island' clockwise oiling continued as a tarry coat in protected locals. Two small pocket beaches on the west side had tarry surface and subsurface oil in the Supratidal (moss/grass) zone. This oil is volumetrically small and was largely removed during the survey.

REVIEWED W DATE 4/27/90

20/21

OG R. Morley

SEGMENT SITE/ET/

SUBDIVISION A

DATE 24 April

CHECKLIST

- ✓ R. Morley
- ✓ Approx. Scale
- ✓ Site/Date/Depth
- ✓ Oil Type
- ✓ Weather
- ✓ Length
- ✓ % Cover
- ✓ Sediment Description
- ✓ E. or W. of 1981/1982
- ✓ S.S.
- ✓ Profile Location(s)
- ✓ Profile(s)
- ✓ P. Location(s)
- ✓ Photo Location(s)

LEGEND

1 A

P. - No Substratum Oil

2 A

P. - Substratum Oil

CT/C

Coastal/Inland

CT/O

Broken Distribution

CT/P

Partial Distribution

CT/S

Spaced Distribution

CT/O

Other Vegetation

1 - 5

Photo location, direction, and number

SKETCH MAP



EV-1

Pocket #1

MANUAL POKE IN AREA OF TP4 PRIOR TO BIO

No visible oil

MANUAL PICKUP
TAR BALLS & PATTIES

Granule, pebble pocket beach: tar balls and patties in ST2 with local pooling of fluid oil in bedrock pockets. Partially removed during survey

Boulder, Cobble pebble beach: Splattered coat on surface, considerable subsurface oil.

BIOREMEDIATE

Vertical face of pillowed lava

1cm band of Tarry coat on rock face

Low lying tumbols of shells, pebbles, granules - No sign of oil on/in the sediments

1.6m band of broken coat.



50/21

OR Character: NP - PO - CV - CT/III - ST - AS - NO 257

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / EV-01 Subdivision A Date (mo / day / yr) 4 / 24 / 90

Time (24 hr) 1700 - 1743 Biologist Lemon

(A) Substrate type and % of segments:
(1) Bedrock 85 (2) Boulder 10 (3) Cobble 5 (4) Pebble 0 (5) Sand 0 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 80% 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. ST/10/14

Frames 25 - 30

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: Fucus reproductive. There was a fresh barnacle s.e.T (1mm) and some larger overall the tide heights and the segment; some of these were sitting on a weathered oil band reduced to a stain. There was also some mytilus activity now at the 3 mm (approx) size.

Ecological Considerations:

Eagle nest not confirmed on 24 Apr 90; Deer harvest area.

6/21

ECOLOGICAL MAP

ST(1)

64

7II

V-02

BIRD
CIRCLE
NEST!

No	1.5	225	239
VL	0.1	15	16
L	0.9	105	11
		345	366

9 of 21

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-1

ADEC Segment Length: 50m

0 100 200 300

METERS

Map Key: PWS-176

Name: R. Marty

Date: 24 April 1990

Data Entered:

OG R. Marly

SKETCH

SEGMENT ST/EH

SUBDIVISION A

DATE 24 April

CHECKLIST

- ☐ W Area
- ☐ Approx. Size
- ☐ Seg/Sub Study
- ☐ Oil Out
- ☐ Width
- ☐ Length
- ☐ E. Cover
- ☐ Substrate Character
- ☐ Ext. HAZARD
- ☐ SCL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pn Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pn - No Subsurface Oil

2 Δ
Pn - Subsurface Oil

CT/C
Continuous Distribution

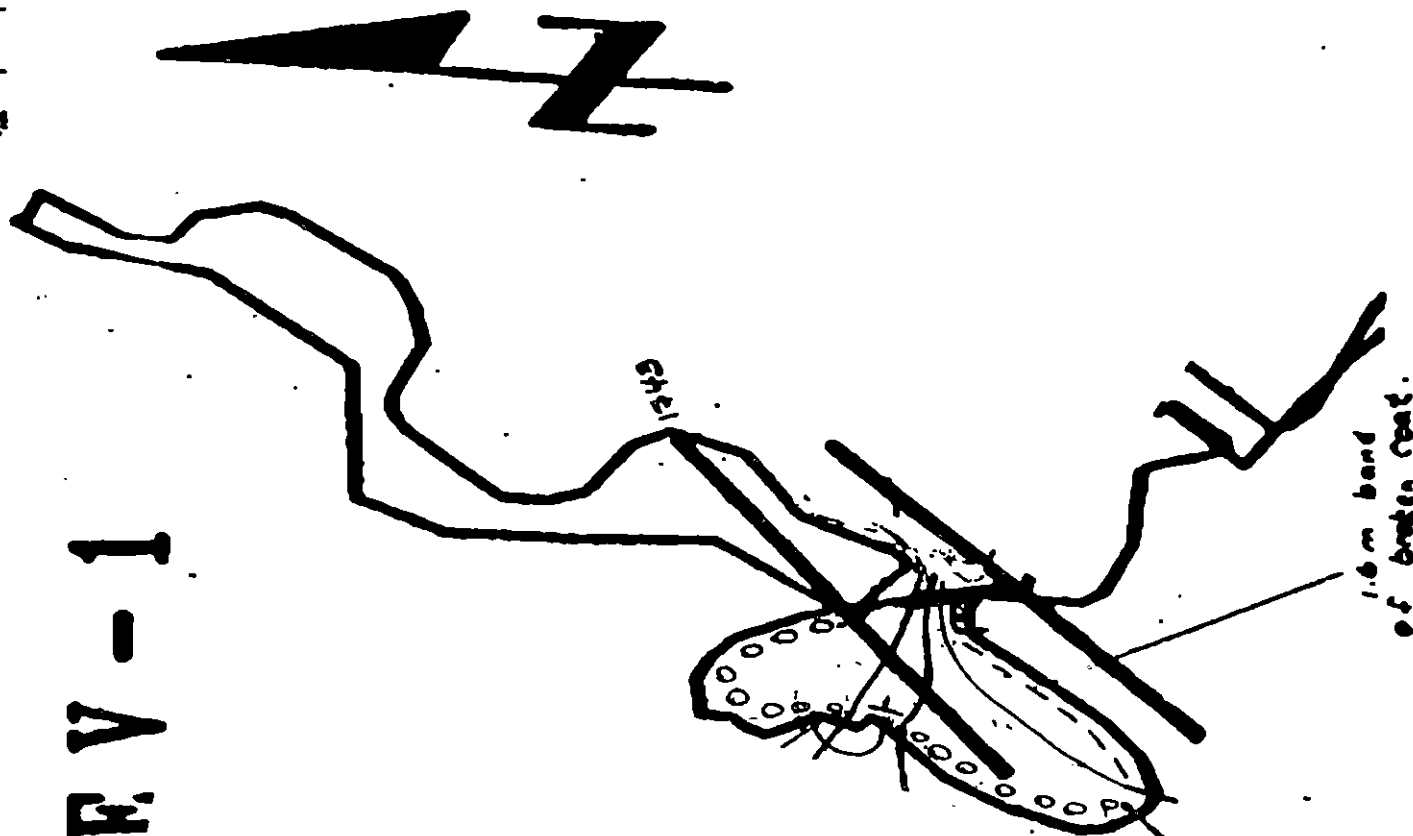
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Spurred Distribution

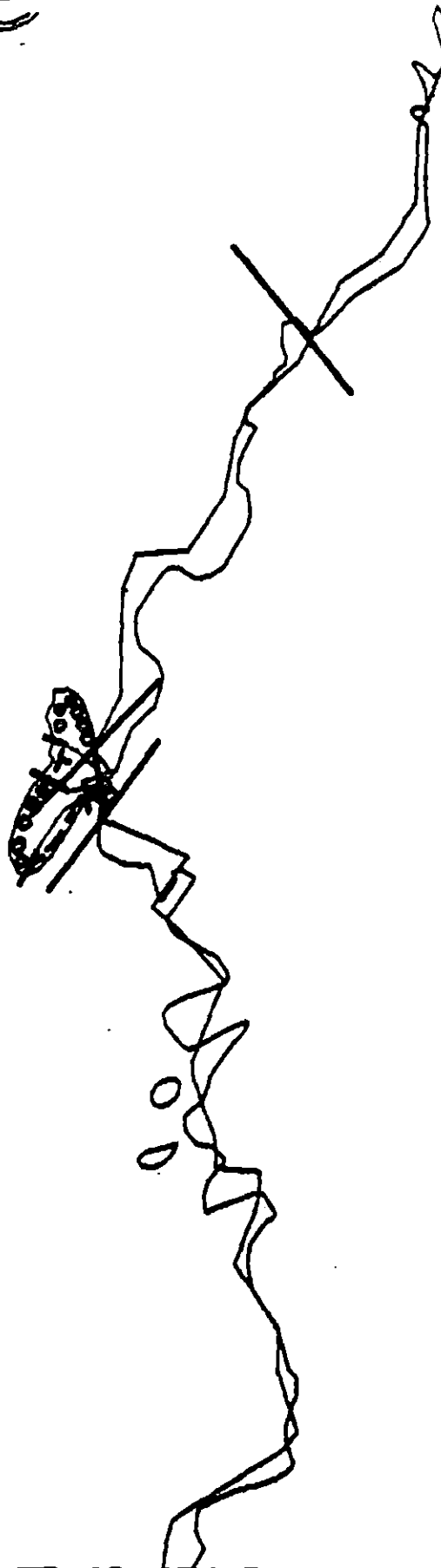
lll
Oil Vegetation

1 ●
Photo location, direction,
and number



Oil Character: AP — PO — CV — CT lll ST — MS — 10 10 FL — NO 259

V-02



No	1.5	225	239
VL	0.1	15	16
L	0.7	105	111
		345	366

9 of 21

XXXX Wide

/// Medium

-- Narrow

TTTT Very Light

0000 No Oil

EV-1

ADEC Segment Length: 58m



Map Key: PWS-176

Name: R. Marty

Date: 24 April 1990

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-1 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	CLOSED
Bioremediation Manual Raking	CLOSED

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1K	Purse Seine Hook-off	No constraint to manual pickup; closed to manual raking and bioremediation after 7/20.
5T	Bald Eagle Nest	USFWS 6/1/90 map indicates an active nest in Subdivision B. Closed to manual pickup, manual raking, and bioremediation within 400m of active nest.
7II	Subsistence: Deer Harvesting	No constraint to manual pickup; closed to manual raking and bioremediation after 8/15.

OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest constraint is removed, other ecological considerations will apply.

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

FOSC

DATE 6-10-90

Prepared By: W. K. Miller

Date 6/6/90

EV-04

EV-03

No Beach, Boat
Aircraft ACCESS
USFWS survey
5/26/90
(Lakhart)

EV-02

EV-01

ACTIVE
NEST

TREATMENT
AREA

EV-05

ACTIVE
NEST



Exxon Company, USA
Map Key: PWS-EV-1



ECOLOGY MAP
SEGMENT EV-1
SUBDIVISION A (1 of 1)
METERS

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

SHORELINE EVALUATION

SEGMENT ST/ EV-02 SUBDIVISION A (1 OF 1) DATE 4/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
Eagle nest within 400 M of segment.

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: J. David M. Mahan DATE: 5/9/90

OILING CATEGORIZATION:

Wide 0 m: Medium 14 m: Narrow 205 m: V.Light 0 m: No Oil 224 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>X</u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of oiled debris and sediments in areas indicated on sketch map, 2) manual removal of pooled tar and tarmats in areas indicated on sketch map, and 3) bioremediation of areas indicated on sketch map after manual work is completed. Work should be conducted between 7/1 and 8/15 due to Exxon study site and deer harvesting constraints, with USFWS approval regarding eagle nest.

TAG COMMENTS: MONITOR TO ASSESS SIGNIFICANCE OF "OILED" LOG BY
STREAM
AVOID DENSE ITZ BIOTA DURING BIO APPLICATION.

TAG APPROVAL DATE: 5/9/90
ADEC Art Weiner
EXXON Art Tera
NOAA Bur/ Wescott
USCG D.D. Rome

FOSC: My L DATE: 5-18-90

NOTIFY CUE 24 HRS IN ADVANCE OF WORKS

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- C Salmon fry nursery area (4/31 to 7/31)
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 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
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 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
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- 2M Herring spawning (4/1 to 6/15)
 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.
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- Q Harbor seal and sea lion pupping (5/15 to 7/1)
 Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- SR Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
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 ADF&G Tom Rothy 267-2208
- ✓ SE All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
 6V Anchorages (8/1 to 9/15)
 6W Forest Service cabins (8/1 to 9/15)
 6X Lodge (8/1 to 9/15)
 Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
 7HH Finfish harvesting
 7JJ Deer harvesting (8/15 to 2/25)
 Invertebrate harvesting
 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

SEGMENT ST EVOZ SUBDIVISION: A DATE APRIL 25

USCG
NAME SHAWN MAAS SIGNATURE Shawn Maas

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

RECOMMEND CLEANUP IN POCKET BEACHS INDICATED ON MAP. MANUAL REMOVAL OF POOLED AND ASPHALT PAVEMENT SOME DEBRIS AND BIOREMEDIATION ON THESE BEACHS. SSAT TEAM REMOVED SOME BUT DIDN'T GET A LOT OF IT.

ADEC
NAME Dave Sale SIGNATURE Dave Sale

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

OIL IN POCKETS IN BEDROCK FRACTURES AND IN UPPER LEVELS OF SURGE CHANNELS IS VERY TARRY + RESEMBLING POOLED OIL IN SOME CASES. BEACHES ON BEDROCK FACES THAT OCCUR NEAR HIGH TIDE LINES HAVE GENERALLY ACCUMULATED OIL.

- ① REMOVE CONTAMINATED SEDIMENTS FROM NARROW STREAM
- ② REMOVE POOLED OIL + SEDIMENTS AND CLEAN AND/OR REMOVE OILED COBBLES IN SURGE CHANNELS.
- ③ REMOVE ANY COAT OR COVER FROM BEACHES ON BEDROCK.

LAND MANAGER
NAME Don Hampkoff Jr SIGNATURE Don Hampkoff Jr

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

SHORELINE OILING SUMMARY

REVISION NO 06/13/90

OG R. Marty USCG S. Maas SEGMENT ST/ EV-02
 BIO B. Lemon LAND REP D. Kempf SUBDIVISION A (A OF A)
 EXXON J. Capaschi ADEC D. Sale TIME 17:43 to 18:30
 TEAM NO. 10 TIDE LEVEL +1.00 m → +0.55 m DATE 24 April 90
 EST. SUBDIVISION LENGTH: 549 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 5 % C 5 % P 5 % G 5 % S 0 % M 0 % V 0 %
 SLOPE: Long 30 % Hang 60 % Vert 10 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 18 m N 230 m VL 0 m NO 300 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 *			X										X	X		
PAVEMENT													X	X		
POOLED	X												X			
COVER		B											B			
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL															X	X

PAVEMENT H F (S) 2 sq. m by 5 cmPATTIES / TARBALLS None BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	NO	AMOUNT			DID YOU COLLECT DEBRIS?
		SM	MD	LG	
Logs	X				YES ☒ NO ☐
Vegetation	X				
Trash	X				
Debris	X				
					TYPE <u>Misc.</u>
					#BAGS <u><1</u>

Photographs:

Roll No. ST 10/14Frames 31, 32

* Tarry pools at Holes in two narrow inlets.
 SUBSURFACE OIL Volume is very low.

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▼	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	VC	30 PP	35 PP	40 PP	45 PP	50 PP	55 PP	60 PP	BU	U	M	U					
1	44					X										X					Y	-	N	GP-GPV	
2	23					X												X			Y	N	22	PGS-SF	

COMMENTS Some fairly high concentrations of oil are present in the Supratidal areas of the narrow pocket beaches. These areas appear to be sheltered from wave action. The exposed rock faces have oiling ranging from none to a broken cover, but generally this oil would be difficult to remove.

REVIEWED 7W DATE 4/27/90
110/21

SEGMENT **EV-2**

SUBDIVISION **A**

DATE **24 April 90**

CHECKLIST

- ___ H Area
- ___ Approx. Scale
- ___ Seg/Sub Entry
- ___ Oil Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HML/LML
- ___ SSL
- ___ Profile Location(s)
- ___ Profile(s)
- ___ Pit Location(s)
- ___ Photo Location(s)

LEGEND

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

13621

SKETCH MAP

EV-2

MANUALLY REMOVE POOL OF TAR, OILED DEBRIS & SEDIMENTS, AND TAR MATS. BIODEGRADATE NON-BEDROCK SURFACES AFTER MANUAL WORK IS COMPLETED.

Open joints in rocks contain accumulations of poaked tar and oiled debris - especially at the HHWS line.

A pocket of oiled rock is present on the northern band of the stream at HHWS line. This pocket emits a silver sheen into the stream when it is disturbed. Also one oiled log.

2m wide band of broken cover. Best developed where sheltered from wave action. Not present on exposed faces

No surface oiling

No visible oil

Some asphalt dumped on rock

EXXON STUDY SITE AP-15

Bedrock

N/m² area of tar over bedrock at the HHWS line/made the crack. Tar is also present in the URTZ in a few places, under clasts.

Pool of tarry oil 5m x 10m x 75% x 5cm with some intermixed sediment resting on bedrock at HHWS. Small stream maybe anemone w/ 2m well sorted G.P.S beach.

Vertical rock faces

reported Eagle nest not confirmed 24 Apr 90 ARF



Oil Character Length (m): AP 5 PO 10 CV 233 CT — ST — MS — PT — TB — FL — NO 300

REVISION 200000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/10/EV-02 Subdivision A Date (mo / day / yr) 4/24/90

Time (24 hr) 1750-1820 Biologist Leman

(A) Substrate type and % of segments:
(1) Bedrock 80 (2) Boulder 5 (3) Cobble 5 (4) Pebble 5 (5) Sand 5 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 75% 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. ST/10/14

Frames 31, 32

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments: Fucus reproductive on zones.
Fish egg mass unknown origin low zone.

Ecological Considerations:

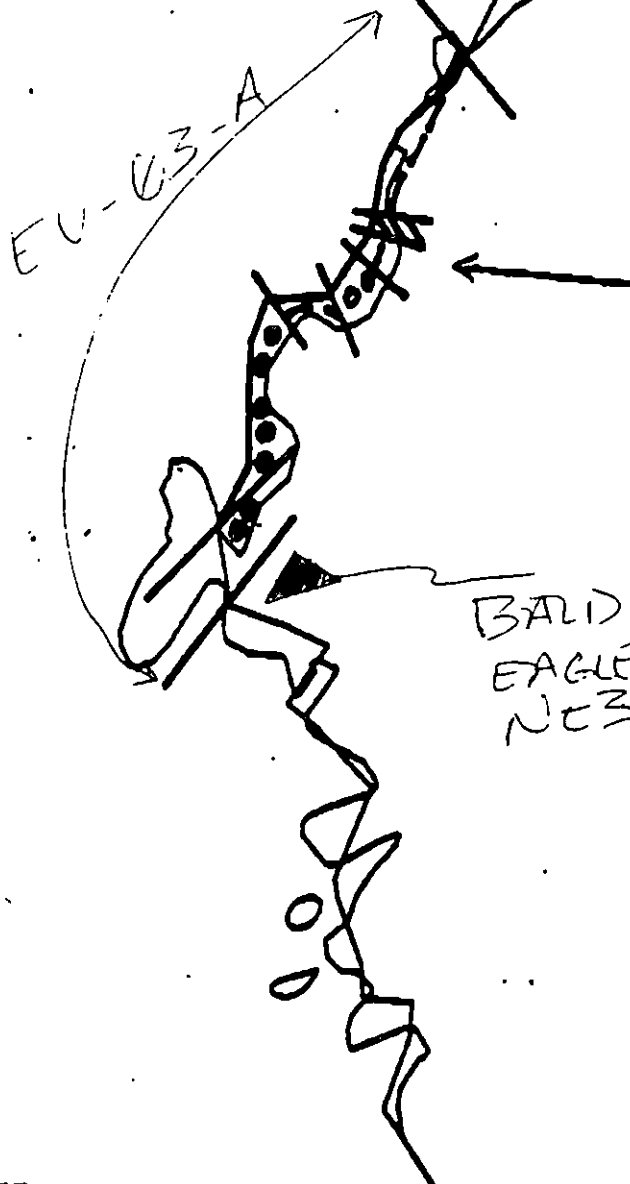
Eagle nest not confirmed 24 Apr 90. A good size stream here may be anadromous; however its oily. A deer harvest area.

15/21

ECOLOGICAL MAP E-23A (1-1)

V-03

ST
6Y
7II



No	1.7	255	300
LE	1.3	195	230
Nid	0.1	15	18
		465	548

180/21

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-2

ADEC Segment Length: 444m



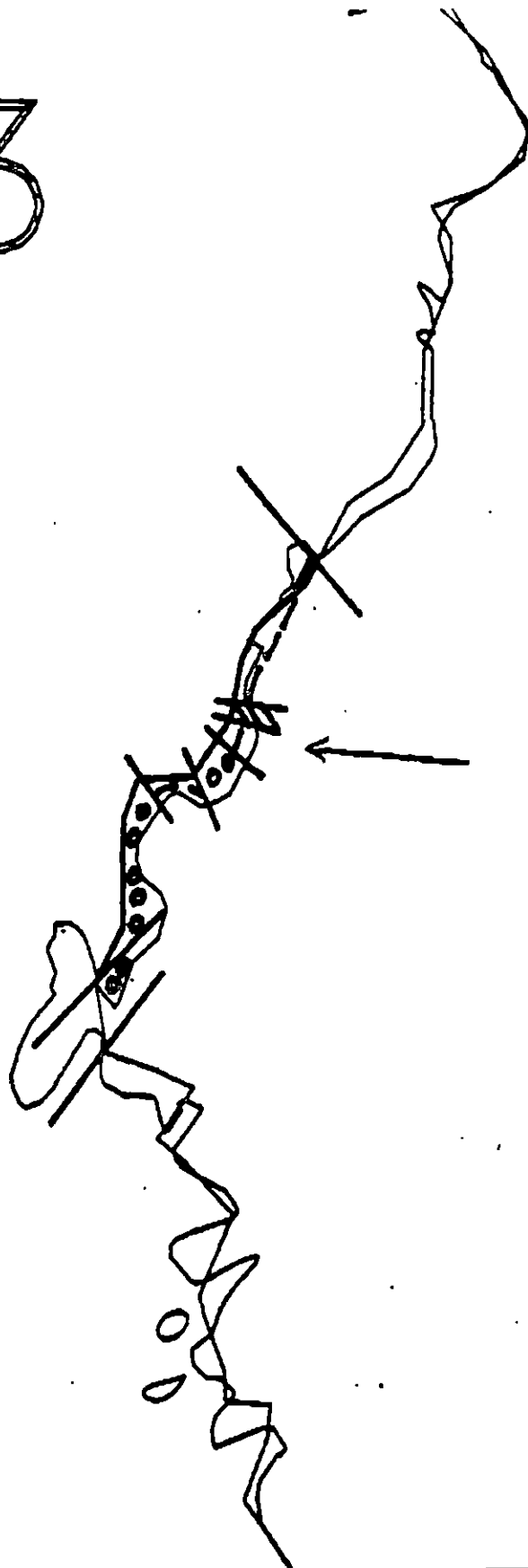
Map Key: PWS-188

Name: R. Marty

Date: 25 April 1990

Date Entered:

V-03



No	1.7	255	300
Lt	1.3	195	230
Nrd	0.1	15	18
		465	548

189/21

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-2

ADEC Segment Length: 444m



Map Key: PWS-188

Name: R. Marty

Date: 25 April 1990

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-2 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup & Tarmat Removal Inside Eagle Nest Buffer Zone	CLOSED
Manual Pickup & Tarmat Removal Outside Eagle Nest Buffer Zone	OPEN
Bioremediation Inside Eagle Nest Buffer Zone	CLOSED
Bioremediation Outside Eagle Nest Buffer Zone	WORK PRIOR TO 7/20

*EXXON STUDY SITE Closed to treatment prior to 6/15. No treatment within 50m of site.

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1K	Purse Seine Hook-off	No constraint to manual pickup and tarmat removal; closed to bioremediation after 7/20.
5T	Bald Eagle Nest	USFWS 6/1/90 map indicates an active nest in Subdivision B. Closed to manual pickup, tarmat removal, and bioremediation within 400m of active nest. USFWS buffer zone delineated by Mike Lockhart 5/26/90. No constraint to manual pickup, tarmat removal, and bioremediation outside buffer zone.
7II	Subsistence: Deer Harvesting	No constraint to manual pickup and tarmat removal; closed to bioremediation after 8/15.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and 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. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

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

FOSC [Signature] Date 17 June 1990

Prepared by W. Kellen

Date 6/7/90

EV-04

EV-03

EV-02

EV-01

Exxon STUDY
SITE
(AP-15)

No Beach, Boat
Aircraft Access
USFWS SURVEY
Delineated Buffer
5/26/90
(Lockhart)

EV-05

ACTIVE NEST

ACTIVE
NEST



Exxon Company, USA
Map Key: PWS-EV-2
June 04, 1990



ECOLOGY MAP
SEGMENT EV-2

SUBDIVISION A (1 of 1)

METERS

0 341 681

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

1 inch = 1118 feet

SHORELINE EVALUATION

SEGMENT ST/ EV-03 SUBDIVISION A (1 OF 1) DATE 4/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream no. 226-40-16590 (Ps, 12/89)

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

Eagle nest within 400 M in adjacent segment

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: J. David McMan DATE: 5/9/90

OILING CATEGORIZATION:

Wide 0 m: Medium 19 m: Narrow 248 m: V.Light 356 m: No Oil 0 m
Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X Manual Pickup

X Bioremediation

X Tarmat Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of tarry
oiled sediments and manual removal of tarmat in area indicated on
sketch map, and 2) bioremediation in area (study site) indicated on
sketch map. Work should be conducted between 7/1 and 7/10 due to
Exxon study site and salmon constraints and with the approval of USFWS
regarding eagle nest.

TAG COMMENTS: MANUAL PICKUP IN AREA OF TP2 PRIOR TO BID

TAG APPROVAL DATE: 5/9/90
ADEC Ann Wenzel Ant Deems
EXXON Andy Tarr Paul
NOAA Burt Horvath Budd Horvath
USCG D.D. Rome D.D. Rome

FOSC: DATE: 5-15-90

ADVISE CUC 24 HRS. PRIOR TO STARTING WORK

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 287-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (8/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (8/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235
- Harbor seal and sea lion pupping (5/15 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
- 6A All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (5/1 to 9/15)
 6V Anchorages (5/1 to 9/15)
 6W Forest Service cabins (5/1 to 9/15)
 6X Lodge (5/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
 7H Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7J Invertebrate harvesting
 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

SEGMENT ST / EV-03 SUBDIVISION: A DATE 25 APRIL

USCG

NAME SHAWN MAAS SIGNATURE DC Shawn Maas

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

MANUAL REMOVAL OF POOLED OIL AND ASPHALT/PAVEMENT
L-ANGLE BEACHS. OILED DEBRIS REMOVED BY SSAT TEAM.
SUBSURFACE OILS NOTED BREAKUP AND BIOREMEDIATION
RECOMMENDED.

STAIN ON HIGH ANGLE ROCK FACE NO TREATMENT

ADEC

NAME DAVID M. SALE SIGNATURE David M. Sale

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

- ① REMOVE TAR MATS, OIL AND ASPHALT MANUALLY
- ② TURN UP, REMOVE AND OR CLEAN SUBSURFACE OIL FROM
SEDIMENTS WHERE PENETRATION IS NOTED, PARTICULARLY, BEACH
BY EXXON STUDY SITE, WHERE SEDIMENTS ARE SATURATED TO 100
- ③ REMOVE TAR + RESIDUE ON COBBLES + SEDIMENTS BELOW
BOULDER AND IN INTERSTICES ON BEDROCK, AND IN SURGE
CHANNELS.

LAND MANAGER

NAME Donald P. Koppitz Jr SIGNATURE Donald P. Koppitz Jr

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

OG R. Marty USCG S. Maas SEGMENT ST/ EV-03
 BIO B. Lemon LAND REP D. Kompkroff SUBDIVISION A (A OF A)
 EXXON J. Czarnacki ADEC D. Sale TIME 18:20 to 19:40
 TEAM NO. 10 TIDE LEVEL +0.55m → +0.3m DATE 24 April / 90
 EST. SUBDIVISION LENGTH: 691 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 15 % B 15 % C 30 % P 20 % G 10 % S 10 % M 0 % V 0 %
 SLOPE: Lang 85 % Hang 15 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 25 m N 309 m VL 357 m NO 0 m

SURFACE OIL

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

* Represents a minor volume - this was removed during Survey

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▼	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SO OR	SO RW	GY SL	SO TL	LR	SU	U	M	L							
1	30					X			X								X	-	N	-	N	SC-GSC			
2	12	X					0-10	-	X				X				X		Y	Y	Y	CP-SG			
3	15	-	X				0-4	-	X				X			X					N	BCPG-CGS			
							.																		
							.																		
							.																		

COMMENTS The majority of the remaining oil is concentrated in a few places. Primarily in the Supratidal zone within rock crevices. There is considerable subsurface oil at the South end of the segment in the beach (EXXON winter study site AP-15). The stream appears to have been recently surveyed, probably during the ongoing anadromous stream survey.

REVIEWED JW/YH DATE 4/29/90

PAVEMENT H F (S) 5 sq. m by 4 cm

PATTIES / TARBALLS NONE BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	* NO	AMOUNT		
		SM	MD	LG
Logs	X			
Vegetation	X			
Trash	X			
Debris	X			

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐

TYPE POM-POMS
+ misc
(Pooled Oil)
 #BAGS 2

* removed during Survey
 Photographs:

Roll No. 5+10/14

Frames 33-35

SEGMENT **EY-3**

SUBDIVISION **A**

DATE **April, 24 90**

CHECKLIST

- ☐ H Area
- ☐ Approx. Scale
- ☐ Seg/Sub Study
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAZARDOUS
- ☐ S.S.I.
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
PH - No Subsurface Oil

2 Δ
PH - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

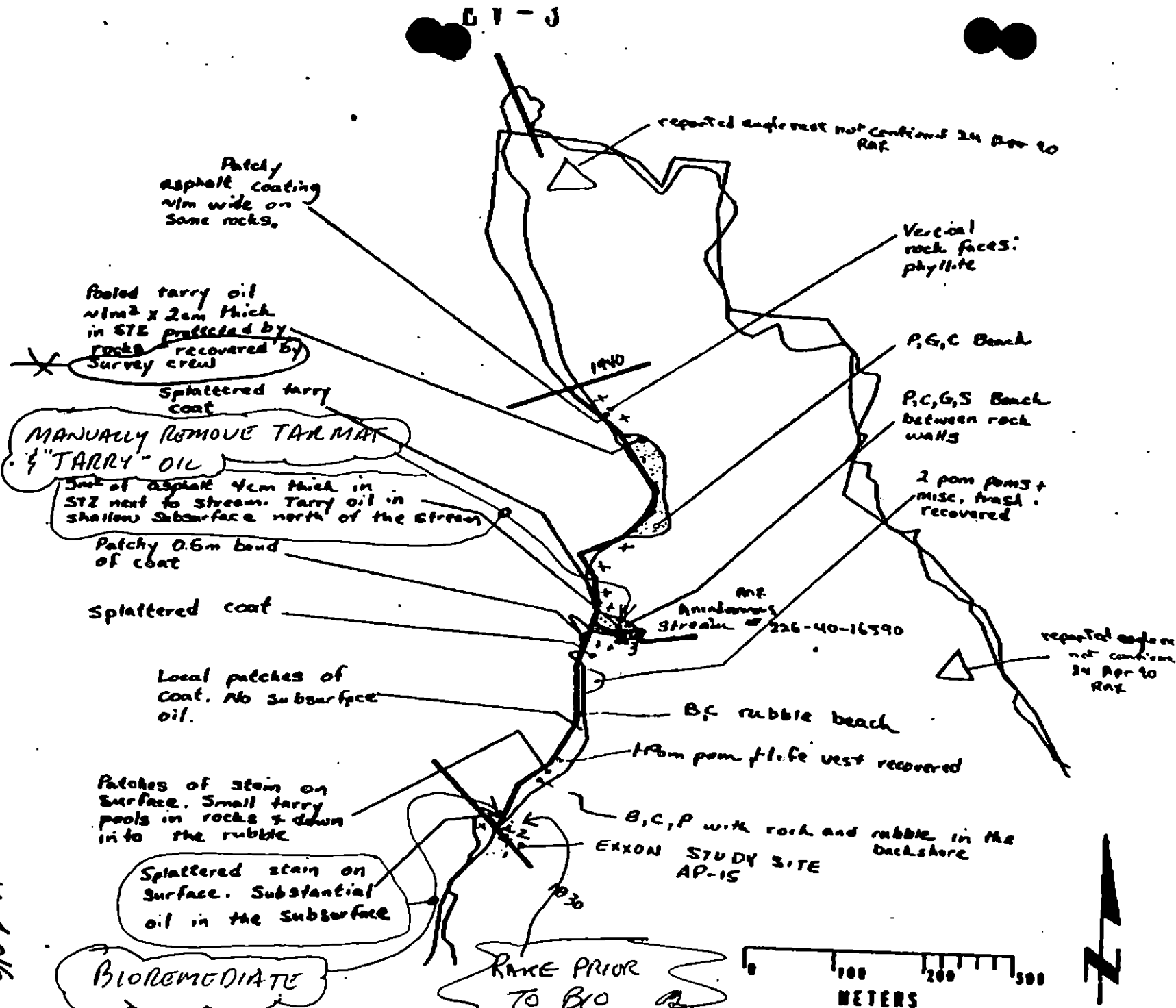
CT/P
Patchy Distribution

CT/S
Splashed Distribution

lll
Oil on Vegetation

1 ●
Photo location, direction, and number

4/6 9/6



Oil Character Length (m): AP **5** PO **1** CV **0** CT **615** ST **75** NB — PT — TB — FL — NO —

SHORELINE ECOLOGICAL SUMMARY

REVISION: 08/23/78

Segment ST / 10 / EV 03 Subdivision A Date (mo / day / yr) 4 / 24 / 90

Time (24 hr) 1930 - 1941 Biologist Lemon clear, calm

(A) Substrate type and % of segments:
(1) Bedrock 15 (2) Boulder 15 (3) Cobble 30 (4) Pebble 20 (5) Sand 20 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 75% 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. 55/10/14

Frames 33 - 35

BARNACLES

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

MYTILUS

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

GASTROPODS

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

FUCUS

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

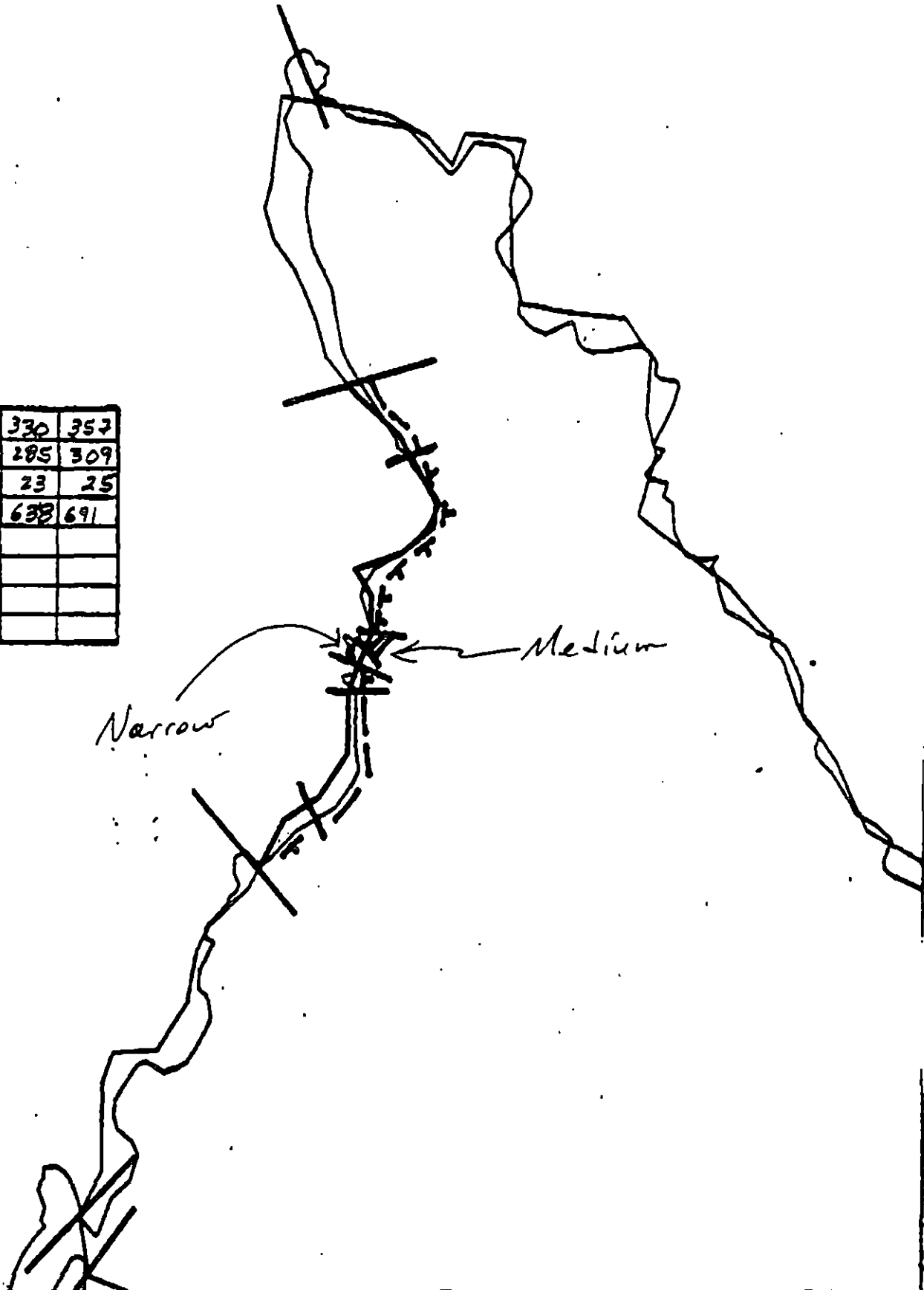
Wildlife Observations/ General Comments: Low zone very rich, 90% cover; lots of plant diversity.
2 gulls
L. rostrata eggs.

Ecological Considerations: Anadromous stream @ 226-40-16590 may carry spawners and outmigrating smolts. Subsistence deer harvest area.

42 of 46

11

VL	2.2	330	357
L	1.9	285	309
M	0.15	23	25
		638	691



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-3

ADEC Segment Length: 623m



Map Key: PWS-198

Name: R. Marty

Date: 24 April 1990

Date Entered:

45 of 46

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-3 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup Tarmat Removal	OPEN
Bioremediation and Manual Raking More Than 100m From Stream	WORK PRIOR TO 7/20
Bioremediation and Manual Raking Less Than 100m From Stream	WORK PRIOR TO 7/10

*Exxon Study Site Closed to treatment prior to 6/15. No treatment within 40m of study site.

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-40-16590) is present in Subdivision A. This subdivision is closed to bioremediation and manual raking less than 100m from stream 7/10 to 8/31. Before 7/10, bioremediation and manual raking are permitted less than 100m from stream with on-site ADF&G monitor or ADEC alternate present. No constraint to bioremediation more than 100m from stream. No constraint to manual pickup and tarmat removal.

1K Purse Seine Hook-off

No constraint to manual pickup and tarmat removal; closed to bioremediation and manual raking after 7/20.

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision A work site.

7II Subsistence: Deer Harvesting

No constraint to manual pickup and tarmat removal; closed to bioremediation and manual raking after 8/15.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or bank. No flushing of pollutants or sediments into stream drainage; do not allow Inpol to enter stream flow. On-site examination and consultation by ADF&G monitor is required prior to bioremediation in order to authorize a setback distance from the stream during chemical application; if ADF&G monitor's presence is impossible, authorization may be given by the ADEC monitor. Restrict boat and air traffic to essential minimum after 7/20. Restrict beach activity to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

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

FOSC [Signature] Date 7 June 1990

1/1/90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-03 STREAM NO: 226-40-16590 DATE 4/22/90

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 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: J. David McManis DATE: 5/8/90

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: Recommended treatment includes 1) manual pickup of tarballs and 2) bioremediation of area of surface stain. Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest and ADF&G regarding bioremediation of stream banks.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/7/90

ADEC Art Weimer Art Weimer

EXXON Andy Ter Andy Ter

NOAA Gary Petrac Gary Petrac

USCG G.A. BETER G.A. Beter

FOSC: [Signature] DATE: 5-15-90

NOTIFY CVC 24 HRS PRIOR TO WORK.

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)

1E Main Bay Hatchery release (4/20 to 6/15)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (6/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (6/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

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

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3P Harbor seal and sea lion pupping (5/15 to 7/1)

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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2208

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)

Special use destination

7Z Subsistence area: Salmon harvesting (5/1 to 9/30)

Finfish harvesting

Deer harvesting (8/15 to 2/28)

Invertebrate harvesting

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

26/55

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EV 003 SUBDIVISION: 16690 DATE 4/22/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR MATS
2. Bioremediation of BOULDERS (see map)

ADFG Michael Wiedner

~~ADEC~~NAME NO TEAM MEMBER SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

BIOREMEDIATION NOT SUGGESTED.

LAND MANAGER

NAME NO TEAM MEMBER SIGNATURE _____☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY (ANAD.) 29/55

OG William Reid USCG McMAHON SEGMENT ST/ EY003
 BIO MICHAEL FAYCETT LAND REP TERA CRAWFORD STRIP 735-40-165101 OF
 EXXON GUS GARCIA ADPG MIKE WIDMER TIME 18:20 No. 18:40
 TEAM NO. 15 TIDE LEVEL Low DATE 22 / APR / 90
 EST. SUBDIVISION LENGTH: 20 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 20 % C 40 % P 40 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 40 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ HI
 OIL CATEGORY LENGTH: W 0 m M 0 m N 3 m VL 2 m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	N	E	S	W	1	2	3	4	5	SW	SE	NE	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN			X				X					X	
MOUSSE													
PATTIES													
TARBALLS			X				X					X	
FILM													
NO OIL										X	X		X

PAVEMENT H F S 0 sq m by 0PATTIES / TARBALLS 1NEAR SHORE SHEEN? (NO) BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Col
DEBRIS
☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. 0Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	T	SURFACE SUBSURF SEDIMENT
		OP	OR	EL	OF	NO		NO	SO	1	2	3	4	5	SW	SE	NE	U				
1	30					X	.													N		P/C
2	15					X	.													N		P/C
3	10					X	.													N		P/C
							.															
							.															
							.															
							.															

COMMENTS

REVIEWED JW DATE 4-25

14

27/53

AOP&O MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS SS DE TS AVS SCH NMS PTA2 REGION: PNB KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/22/9015 HIGH TIDE TIMES: 1205 -21 TEAM RECORDER: M. WIGDER4 START TIME: 181516 HIGH TIDE HTS: 10.0' -22 OBSERVERS: T. CROWE5 STOP TIME: 184517 LOW TIDE TIMES: 1603 181423 AGENCY: ADFG6 SEGMENT #: EV-00318 LOW TIDE HTS: 1.0' 1.0-7'24 PHOTOS TAKEN: Y N7 STATION #: 226-40-1659019 TIDE HT AT SURVEY: 0.7'

Roll #: _____ Frames: _____

8 K-UNIT: _____

Ebb Stack Flood Stack25 VIDEO TAKEN: Y N TAPE: _____

9 STAT AREA: _____

20 USGS QUAD: SEWARD A3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y N Number: _____

12 SOURCE: Map Loran

Oil: _____

13 LOCATION: EVANS POINT

Sediments: _____

14 DESCRIPTION: _____

Biological: _____

Water: _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	H	S	L	V	H	S
27 SURFACE COVERAGE	15	100		2	100	2		<1

28 CATALOGED ANAD. FISH BREAST Y N

28 SURFACE THICKNESS	1mm	1cm	2mm	<1mm				
----------------------	-----	-----	-----	------	--	--	--	--

36 OIL IN STREAM BED? Y N

29 PENETRATION	0	5cm	4cm					
----------------	---	-----	-----	--	--	--	--	--

40 OIL ON STREAM BANKS? Y N30 OVERALL OIL IMPACT: N YL L M H41 OIL ON BEACH ADJACENT TO MOUTH? Y N31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS: Y N

Where: _____

33 SHORELINE TYPE: Mudflat Low-lying Rocks Beach Cove43 ANADROMOUS FISH PRESENT? Y N34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder 33 Cobble 33Gravel 33 Sand _____ Mud/silt _____

Species	Aerial	Ground

COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD
OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP
TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL
SURFACES. SOME LIVING BIOTA WITHIN TACKLED ZONES. TAR PATTIES
AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO

48 PHOTOLOG

DATE(S)

DESCRIPTION

RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND
SPATTERS. LEAVE TAR ON OILY OUTCROP
UNTREATED

I agree with recommendations. *W. H. Foxworth*

40 OIL DISTRIBUTION DIAGRAM

BEOROCK OUTCROP

← 15 meters →

↑
N

HEAVY
TAR ON
OUTCROP

BEDROCK

TAR PATTIES
& SPATTERS

TAR
PATTIES

33/55

Segment EU 003

4/24/90

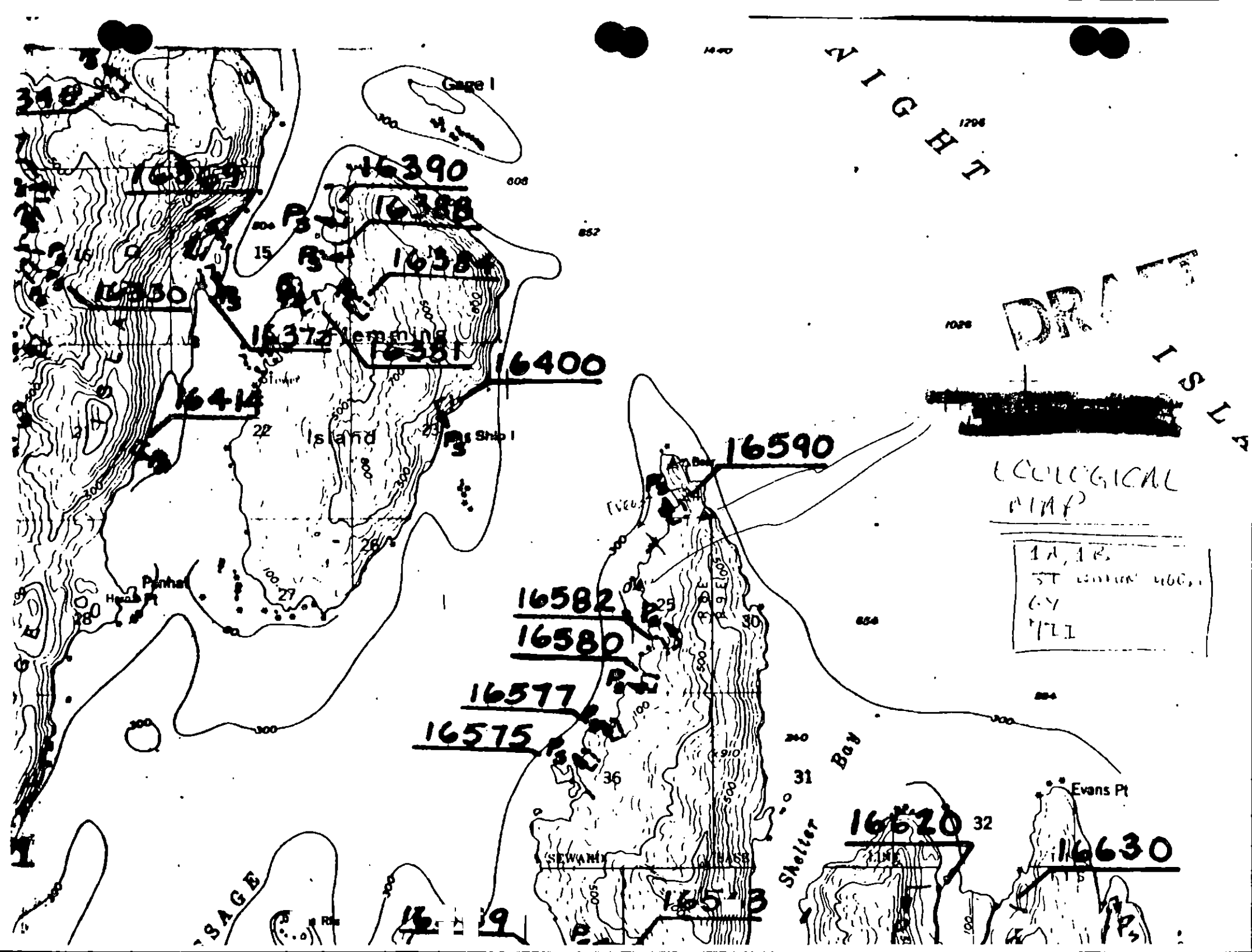
Stream 226-40-16570

Michael Fawcett

Ecological Summary

This small stream enters the sea via a 15m wide gravel/pebble beach in a narrow cove with vertical bedrock on either side. The beach sediments are unstable and there is no macro-biota present. A mature, diverse community including barnacles, mussels, several species of limpets, littorines, whelks, algae, etc., exists on the vertical walls despite a remaining fairly heavy coat of weathered oil. No constraint: beach or stream bank cleanup, but I recommend leaving the vertical walls alone.

M. Fawcett



NIGHT

DRIFT ISLAND

ECOLOGICAL
MAP

1A, 1B,
ST. LUCAS 460,
67
171

16582
16580
16577
16575

16590

16620

16630

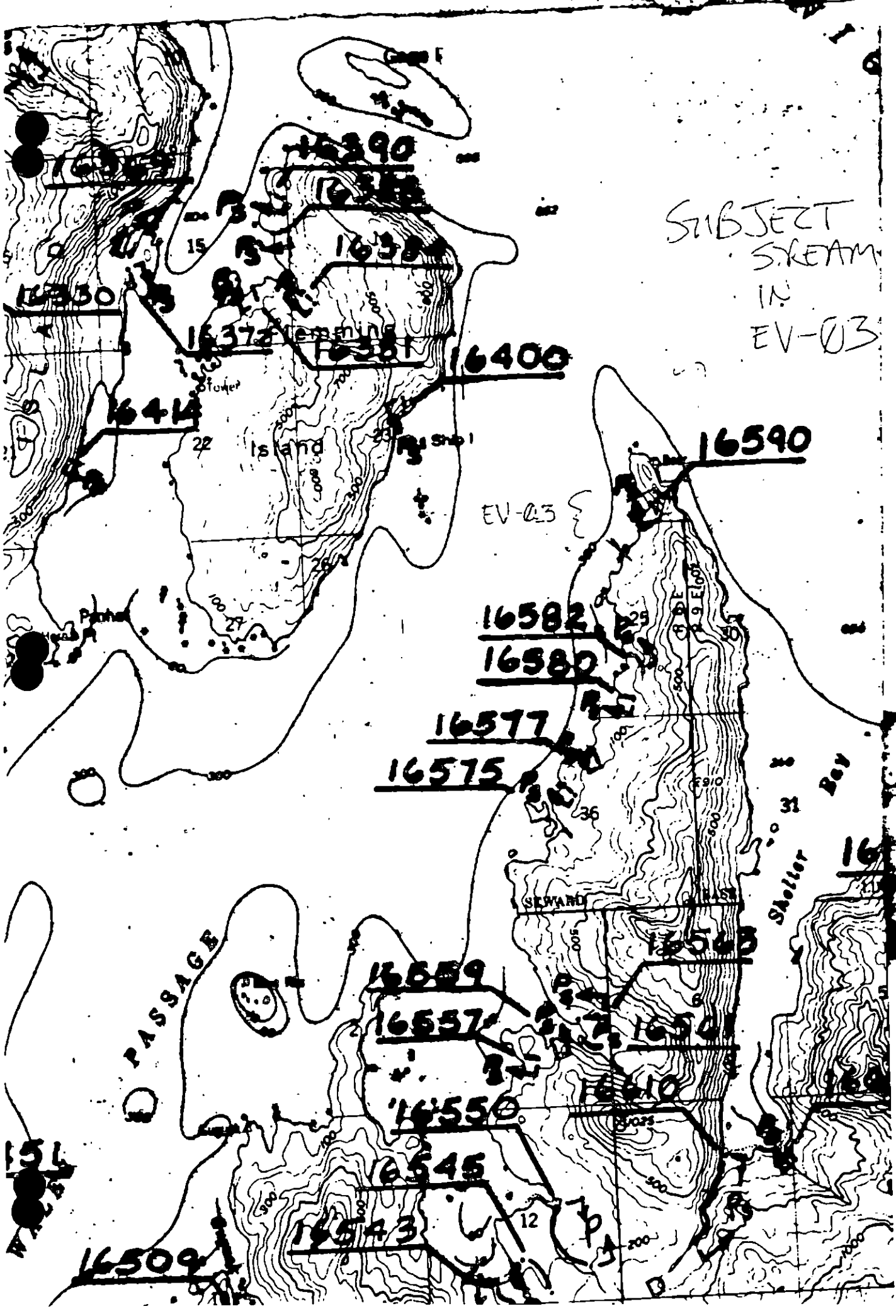
SAGE

Shoal Bay

Evans Pt

SEWARD

CHASE



ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-40-16590

SEGMENT EV-3 SUBDIVISION A

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-40-16590) is in Subdivision A. No constraint to manual pickup.

1K Purse Seine Hook-off

No constraint to manual pickup.

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision A work site.

7II Subsistence: Deer Harvesting

No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic and beach disturbance to essential minimum prior to 6/15 and after 8/15. No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-3A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

R. J. Janssen

Date

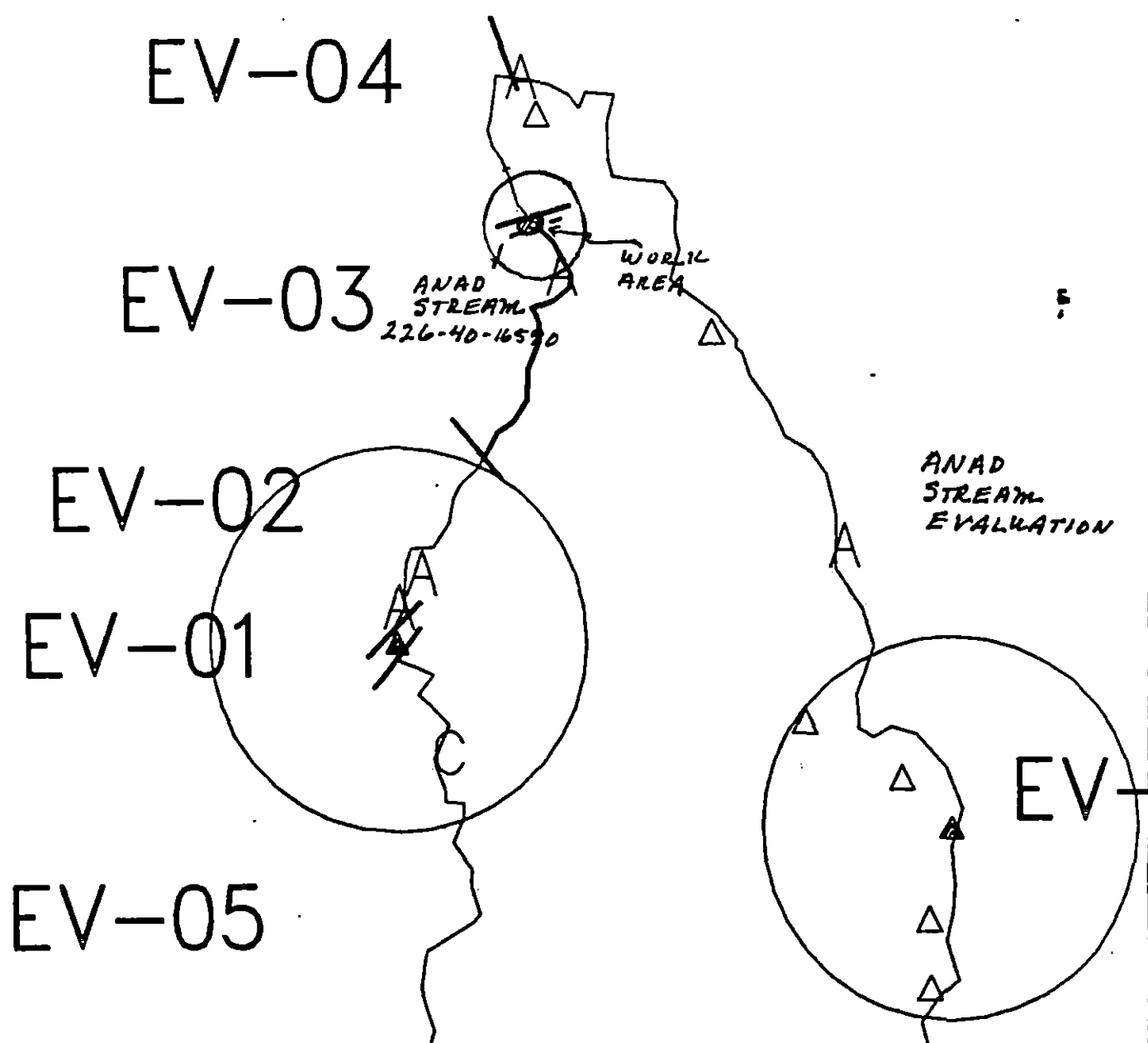
2/3/90

Prepared by

W. Kelley

Date

2/3/90



Exxon Company, USA
Map Key: PMS-EV-3



ECOLOGY MAP
SEGMENT EV-3
SUBDIVISION A (1 of 1)
METERS

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

SHORELINE EVALUATION

SEGMENT ST/ EV-04 SUBDIVISION A (1 OF 1) DATE 4/24/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Hume DATE: 5/5/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 282 m: V.Light 0 m: No Oil 73 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: May 5, 1990

ADEC Art Weiner Art Weiner
EXXON Mark N. Silber Mark N. Silber TFOSC: ML DATE: 5-18-90
NOAA Gary Peterson Gary Peterson
USCG G.A. Reiter G.A. Reiter NOTIFY EOC 24 HRS PRIOR TO WORK.

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- C 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
1E Main Bay Hatchery release (4/20 to 6/15)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
1G Cannery Creek Hatchery release (4/21 to 6/1)
1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (8/7 to 8/31)
1J Purse seine area (7/20 to 9/30)
1K Purse seine hook-off (7/20 to 9/30)
1L Set net sites (8/11 to 7/25)
Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unholed 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 Evelyn Biggs 424-3235
- 3P Harbor seal and sea lion pupping (5/15 to 7/1)
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. 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 267-2205
- ✓ 6T 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 (2/1 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 Subistence area: Salmon harvesting (5/1 to 9/30)
7-HH Finfish harvesting
✓ 7I Deer harvesting (8/15 to 2/25)
7JJ Invertebrate harvesting
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

SEGMENT ST1 EU04 SUBDIVISION: A DATE 4/24/90

USCG

NAME SHAWN MAAS SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDCOVER CONSISTED ON VERTICAL ROCK FACES ONLY
VERY HARD TO ACCESS FOR CLEANING.

NO SUBSURFACE OILS NOTED

ADEC

NAME DAVE SALE SIGNATURE [Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

due to limited oiling on barnacle land

There is oil in this segment, on 41-ANGLE ROCK FACES, WHICH MAKE UP MOST OF THE SEGMENT, IN A PATCHY COVER, ROUGHLY COINCIDING WITH THE UPPER LIMITS OF THE CORAL ZONE, OVERLAPPING IT. NO TREATMENT WOULD LIKELY BE EFFECTIVE; WOULD PROBABLY CAUSE DAMAGE W/ NO NOTICEABLE RESULTS. SIGNOFF SHOULD INCLUDE NOTATION THAT OIL EXISTS, AND CANNOT BE REMOVED.

LAND MANAGER

NAME DON KOMPKE JR. SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

30 of 46

SHORELINE OILING SUMMARY

REVISION NO. 04/12/8

OG R. Marty USCG S. Maas SEGMENT ST/ EV-04
 BIO B. Lemon LAND REP D. Kempf SUBDIVISION A (A OF A)
 EXXON J. Chernicki ADEC D. Sale TIME 19:40 to 20:00
 TEAM NO. 10 TIDE LEVEL +0.2m → +0.34m DATE 24 April 1990
 EST. SUBDIVISION LENGTH: 365 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 100 % B 0 % C 0 % P 0 % C 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 0 % Hang 0 % Vert 100 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 312 m VL 0 m NO 53 m

SURFACE OIL

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

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

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

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE —#BAGS —

Photographs:

Roll No. ST/10/14Frames 36, 37, 2 end

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)	V	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	VC	1	2	3	4	5	SU	U	M	U				
<u>NONE</u>							.															
							.															
							.															
							.															
							.															
							.															
							.															

COMMENTS Vertical cliffs with dense attached communities. Sporadic oiling.

29 of 46

 REVIEWED 7W DATE 4/27/90

OG R. Marty

SEGMENT ST/ EV-4

SUBDIVISION A

DATE 24 April 60

ETCH MAP

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HMA/VL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PI 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

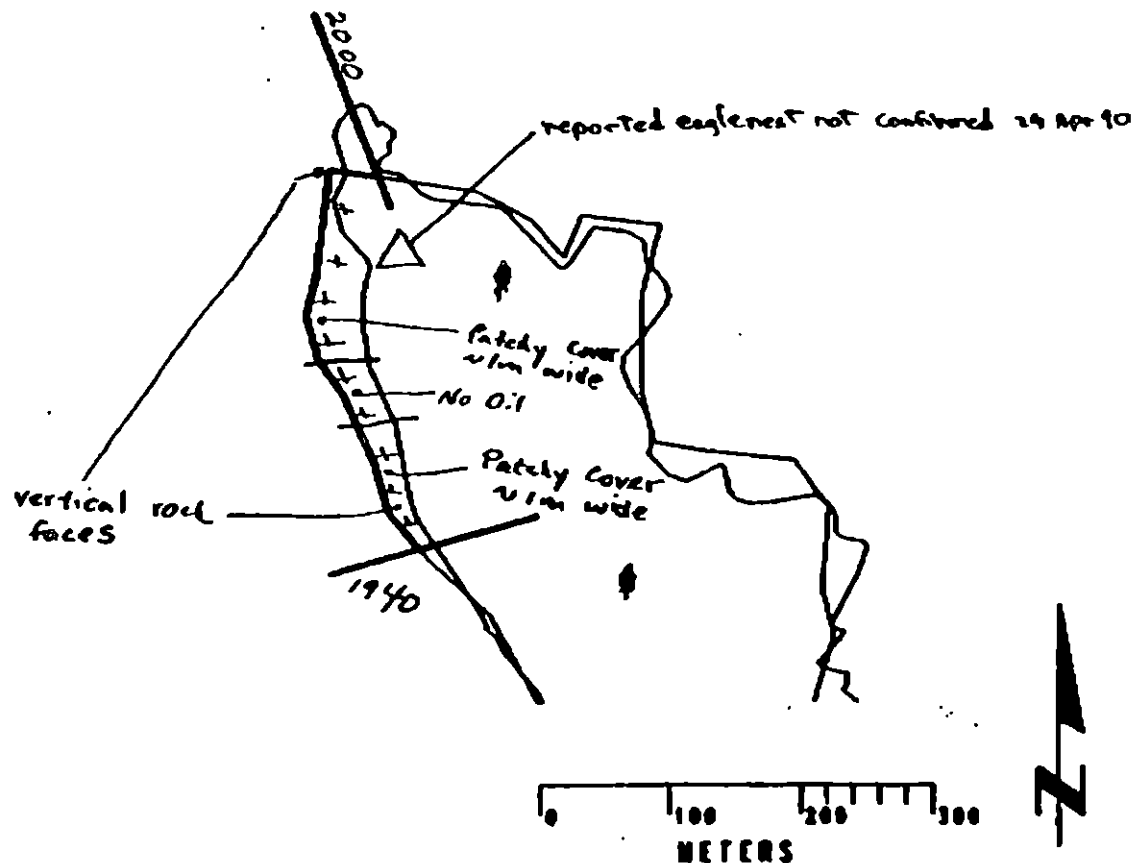
ell

Oil Vegetation

1 →

Photo location, direction,
and number

EV-4



Oil Character Length (m): AP — PO — CV 312 CT — ST — MS — PT — TB — FL — NO 53

REVISION 000000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 00/00

Segment ST/10/EV-04 Subdivision B Date (mo / day / yr) 4 / 24 / 90

Time (24 hr) 1941 - 2000 Biologist Lemon

(A) Substrate type and % of segments:
(1) Bedrock 100 (2) Boulder 0 (3) Cobble 0 (4) Pebble 0 (5) Sand 0 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 85% Moderate 0 Low 0

(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/10/14

Frames 36, 37, 38 ?

BARNACLES

Dense			Moderate			Sparse			Rare		
XU	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: mostly shift by with just 1 stop. Probably a very rich and diverse segment if there was the time to document the biota.

2 Sea Otters
2 Sea Lions
1 Eagle

Ecological Considerations: Eagle nest was not confirmed; a deer harvest area.

338/96

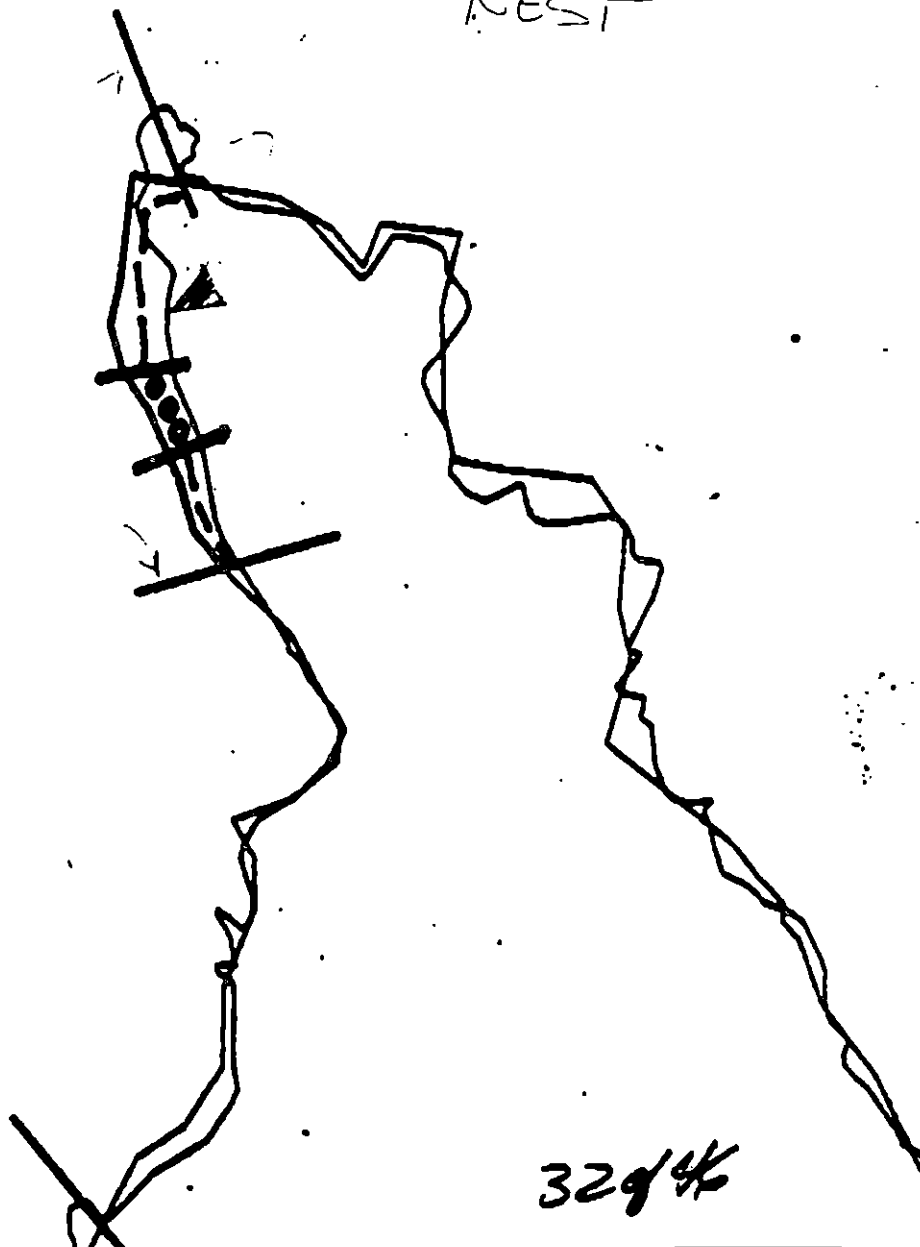
ECOLOGICAL MAP EV-04-A

ST-1
EY
TII

BALD EAGLE
NEST

EV-04
A

NO	Q3	45m	53m
Lt	1.75	263m	312m
		308	365



32946

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-4

ADEC Segment Length: 365m



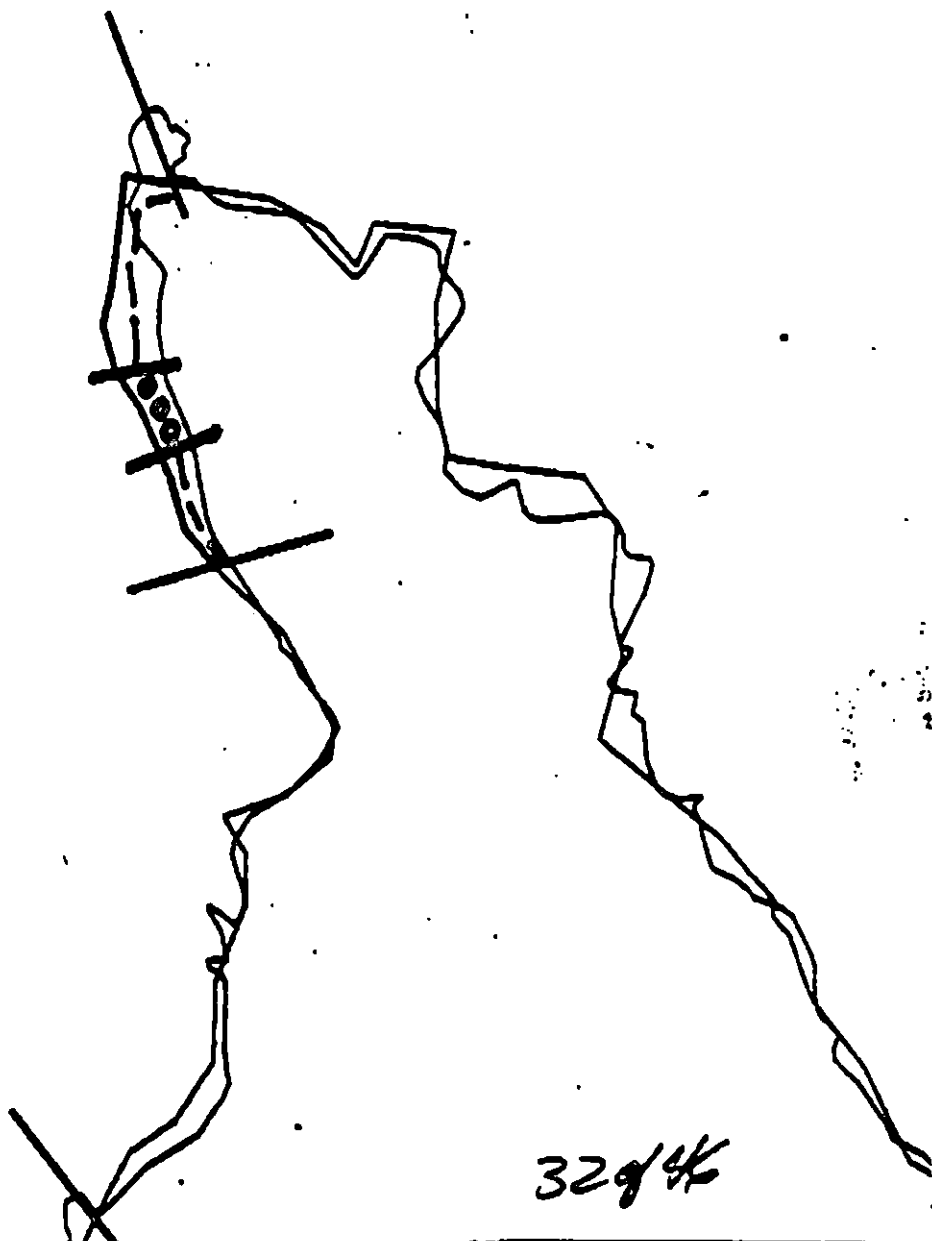
Map Key: PWS-246

Name: R. Marty

Date: 24 April 1990

Date Entered:

NO	0.3	45m	53m
LE	1.75	263m	312m
		308	365



32846

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

BV-4

ADEC Segment Length: 365m



Map Key: PWS-246

Name: R. Marty

Date: 24 April 1990

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ EV-05 SUBDIVISION A (1 OF 3) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16575, 16580, 16582, 16577.

5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. 2 eagle nests in EV-05; 1 nest also near border wit EV-06, another on or near border with EV-01. No anadromous stream in this Subdivision.

SHPO SIGNATURE: [Signature] DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 21 m: V.Light 275 m: No Oil 97 m
Subsurface Oil Observed: Yes X No Maximum Depth 8 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>X</u> Tarmat: <u>X</u> Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes 1) manual asphalt removal, 2) manual pick up of oiled debris, 3) bioremediation of areas shown on attached sketch map. Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints after approval of USFWS regarding eagle nest.

TAG COMMENTS: MONITORS TO ASSESS SUITZ DURING TREATMENT

TAG APPROVAL DATE: 4/26/90
ADEC JOHN BAUELL
EXXON ANDY TEAL
NOAA Geary Petrac
USCG KENNETH KEANE

FOSC: [Signature] DATE: 5-8-90

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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 Esther Hatchery release (4/15 to 6/1)
- 1E Main Bay Hatchery release (4/20 to 5/10)
- 1F Sewmill Bay Hatchery release (4/15 to 6/1)
- 1G Cannery Creek Hatchery release (4/21 to 6/1)
- 1H Remote release site
- 1I Gill net area (8/7 to 8/31)
- 1J Purse seine area (7/20 to 9/30)
- 1K Purse seine hook-off (7/20 to 9/30)
- 1L Set net sites (6/11 to 7/25)
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)
 Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 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 9/1)
 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.
- 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 (5/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/15 to 2/28)
- 7JJ Invertebrate harvesting
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV-5 SUBDIVISION: A DATE 4/7/90

USCG NOAA

NAME GARY SUIGENAKA SIGNATURE Gary Suigenaka☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

SUBDIVISION CONSISTED OF AN APPROXIMATELY 80M POCKET BEACH ALONG THE NORTHWESTERN TIP OF EVANS ISLAND. THE BEACH WAS KNOWN TO HAVE BEEN FAIRLY HEAVILY OILED (THE CVC REP VIEWED IT LAST YEAR DURING CLEANUP OPS) AND SHOWED EVIDENCE OF CONTINUED PRESENCE OF OIL. HOWEVER, THE BEACH HAS APPARENTLY IMPROVED DRAMATICALLY IN APPEARANCE IN THE INTERVENING MONTHS. A ROCK OUTCROP BISECTS THE BEACH; AT THE SOUTH END OF THE BEACH, CHARACTERIZED BY A ROCK FACE, SOME COAT WAS OBSERVED. IN BOULDERS ADJACENT TO THE WALL, A 15 M (WIDE) BY 5 M (LENGTH) PATCH OF COAT AND POOLED OIL UP TO APPROXIMATELY 3 CM IN DEPTH WAS FOUND. CLUSTERS OF MUSSELS, SOME LIVE AND SOME DEAD, WERE FOUND IN THIS ZONE. MUSSELS ALSO EXTENDED INTO THE COBBLE BEACH AREA ADJACENT TO THE BOULDERS, AND THIS SHOWED OILING IN THE FORM OF SHEEN ON THE WATER AS WELL AS SOME COVER ON SURFACE OF COBBLE AND SEDIMENTS. MUSSELS, COVER, AND SHEEN WERE ALSO OBSERVED ON THE ROCK OUTCROP BISECTING THE OVERALL BEACH. IN THE SOUTHERN SUBSECTION SUPRATIDAL OILED VEGETATION AND OTHER DEBRIS WAS FOUND. OILED VEGETATION WAS ALSO FOUND IN THE SUPRATIDAL OF THE BEACH NORTH OF THE OUTCROP AS WELL. STAIN WAS OBSERVED IN OTHER PARTS OF THIS NORTHERN SUBSECTION, BUT HEAVIEST OILING WAS FOUND IN THE SOUTHERN. SNOW COVERED SOME OF THE SUPRATIDAL, BUT IT APPEARED CONTAMINATED VEGETATION AND DEBRIS COULD BE MANUALLY REMOVED.

ADEC

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

COMMENTS

This sub-segment consisted of two pocket beaches. These beaches were both oiled but, the surface oiling is apparent patches and a thin weathered oil coat + cover on cobbles + boulders in U1M T.Z.'s. S.S. oiling was also observed to a depth of 8cm in U1T2 + 5cm in MITZ. (See sketch map)

Manual treatment with a followup of natural flush + HWHP is recommended for this segment.

LAND MANAGER

NAME JAMES A BARKER SIGNATURE James A Barker☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

4/7/90 1600

SSAT OBSERVED WEATHER OIL AT THE SOUTH END OF SEGMENT EV-5 SUBDIVISION A WHILE PROCEEDING NORTH. NOTE EV-5, A HISTORY, SUMMER 1989 EV-5, A WAS CONSIDERED MODERATE TO HEAVILY CONTAMINATED. THE CHENEGA BAY OIL RESPONSE TEAM CLEANED EV-5, A USING OIL CONTAINMENT BOOM, ABSORBENT MATERIALS AND HAND SCRAPERS. HAVING WITNESSED CONTAMINATION BEFORE CLEAN UP SUMMER 89, I CAN CONCLUDE THAT WINTER WEATHERING AND WORK EFFORT BY THE CHENEGA BAY RESPONSE CLEAN-UP TEAM MADE A NOTICEABLE AND SIGNIFICANT DIFFERENCE OF OIL REMOVAL AND BEACH DECONTAMINATION. SSAT HAVE DETERMINED THAT CONTINUED HAND CLEANING OF THIS ISOLATED AREA WOULD BE BENEFICIAL & NOT, HIGH PSI WATER AND FLOODING WITH CONTAINMENT BOOM MAY BE NECESSARY AND DESIRABLE AS A CLEANING AID DURING MID TO HIGH TIDES ONLY

SHORELINE OILING SUMMARY

REVISION NO. 03/23/90

OG Mike Foget NOAA USCG Gary Shigemura SEGMENT ST/ EV-5
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION A
 EXXON Larry Olson ADEC John Hayes TIME 18:00 to 18:30
 TEAM NO.: 11 TIDE LEVEL: 1.0 to 0.5 DATE 4 / 7 / 90
 EST. SUBDIVISION LENGTH: 480 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☒ Rock Show in the SUPN IITZ
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 40 % B 20 % C 20 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 30 % Hang 30 % Vert 40 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 15 m VL 25 m NO 360 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	R	SP	BR	OR	GR	BL	PK	LT	DR	SU	U	M	L
ASPHALT PAVEMENT			X							X			X			
POOLED																
COVER																
COAT		✓								✓			✓	✓		
STAIN			+							+			+			
MOUSSE																
PATTIES																
TARBALLS																
FILM				V						✓					✓	
NO OIL																X

 PAVEMENT: H F S 1 sq. m by 3 cm

 PATTIES / TARBALLS 0 BAGS

 NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

 TYPE Fine Needles

 #BAGS 0

Photographs:

 Roll No. ST-11-2

 Frames 26

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	SP	BR	OR	GR	BL	PK	LT	DR	SU	U	M	L		
1	20					X	-		X									X					P, G, R
2	30					X	-		X									X					P, G
3	20		X				0-8		X					X				X					P, G, R
4	15				X		0-5		X					X					X				C, P, G (H ₂ O at 10m)
5	15				X		0-3		X					X					X				C, G (H ₂ O at 10m)
							-																

COMMENTS Subdivision is located in at the southern part of EV-5
 The area consists of The rock wall running out to the point and two rock
 coves. The vertical rock wall running out to the point with the Northern
 Exposure has a discontinuous 0.5m wide CT/P cover running the length of
 the wall in the HITZ (approx. 50m) where this band meets the beach in the
 HITZ there is a 3m x 5m area of Heavy oiling in between the crevices in the
 Page 1 of 1 REVIEWED 7/14 DATE 4/13/90

REVISION 08/29/90

SUBSURFACE OIL (CONTINUED)

[illegible]

COMMENTS

Boulders and cobble. There is also some pooling and asphalt patties up to 3cm in depth. Extended across the beach from this zone is a 1m x 20m CT/S distributed Asphalt patties among the Pebble beach. in the MITZ. Located in the supra ITZ in this cove and the adjacent pocket cove are some oil coated debris both 1m x 20m in size, some of the oiled storm berms were covered by snow. The MITZ also has some rainbow sheen under the cobble. This subdivision consists of vertical Bedrock w/ Large boulders and a couple of pocket cobble/pebble bearing

REVIEWED _____ DATE _____

00 Mik Foget
 SEGMENT ST/ EV-5
 SUBDIVISION A
 DATE 4, 7 90

CHECKLIST

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

LEGEND

1 Δ
 Pt - No Subsurface Oil

2 Δ
 Pt - Subsurface Oil

CT/C
 Continuous Distribution

CT/B
 Broken Distribution

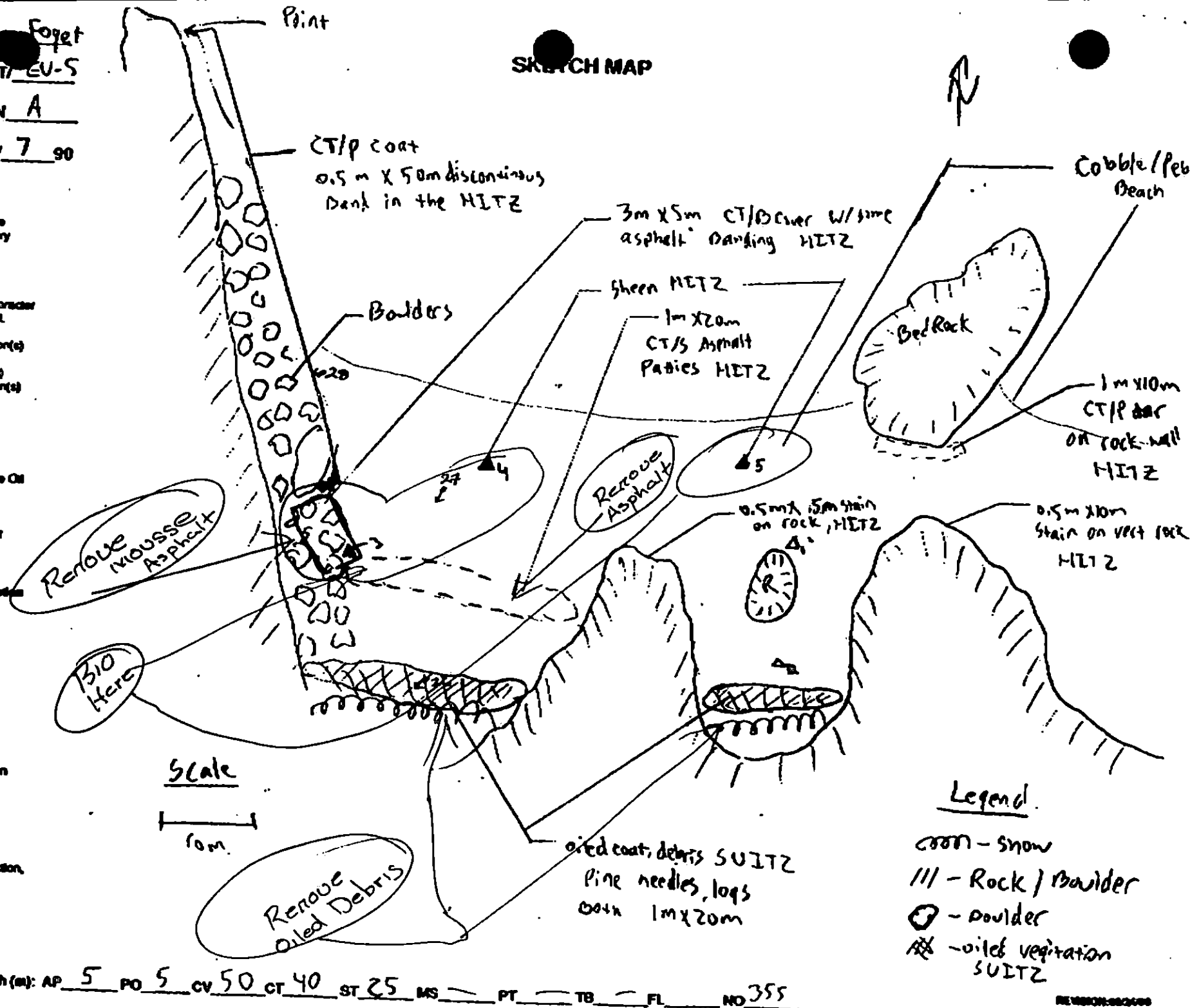
CT/P
 Patchy Distribution

CT/S
 Splashed Distribution

Oiled Vegetation

1 →
 Photo location, direction,
 and number

SKETCH MAP



Oil Character Length (m): AP 5 PO 5 CV 50 CT 40 ST 25 MS — PT — TB — FL — NO 355

REVISION: 000000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/ EVOOS Subdivision A Date (mo / day / yr) 4 / 7 / 90

Time (24 hr) 1800 hrs Biologist Ambrose

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

(B) Overall % cover of biota (% of segment): Dense 25 Moderate 15 Low 60

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

Photographs:

Roll No. ST-11-2

Frames 27, 28

BARNACLES

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

MYTILUS

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

GASTROPODS

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

FUCUS

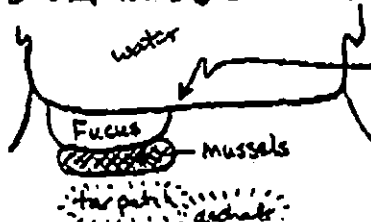
Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: * Mature bald eagle (near nest seen earlier) 1 deer tracks.
Bedrock walls have moderate to dense cover, with mainly red algae in lower intertidal; pocket cove has areas of Fucus and Mytilus, otherwise sparse to moderate cover.

Ecological Considerations:

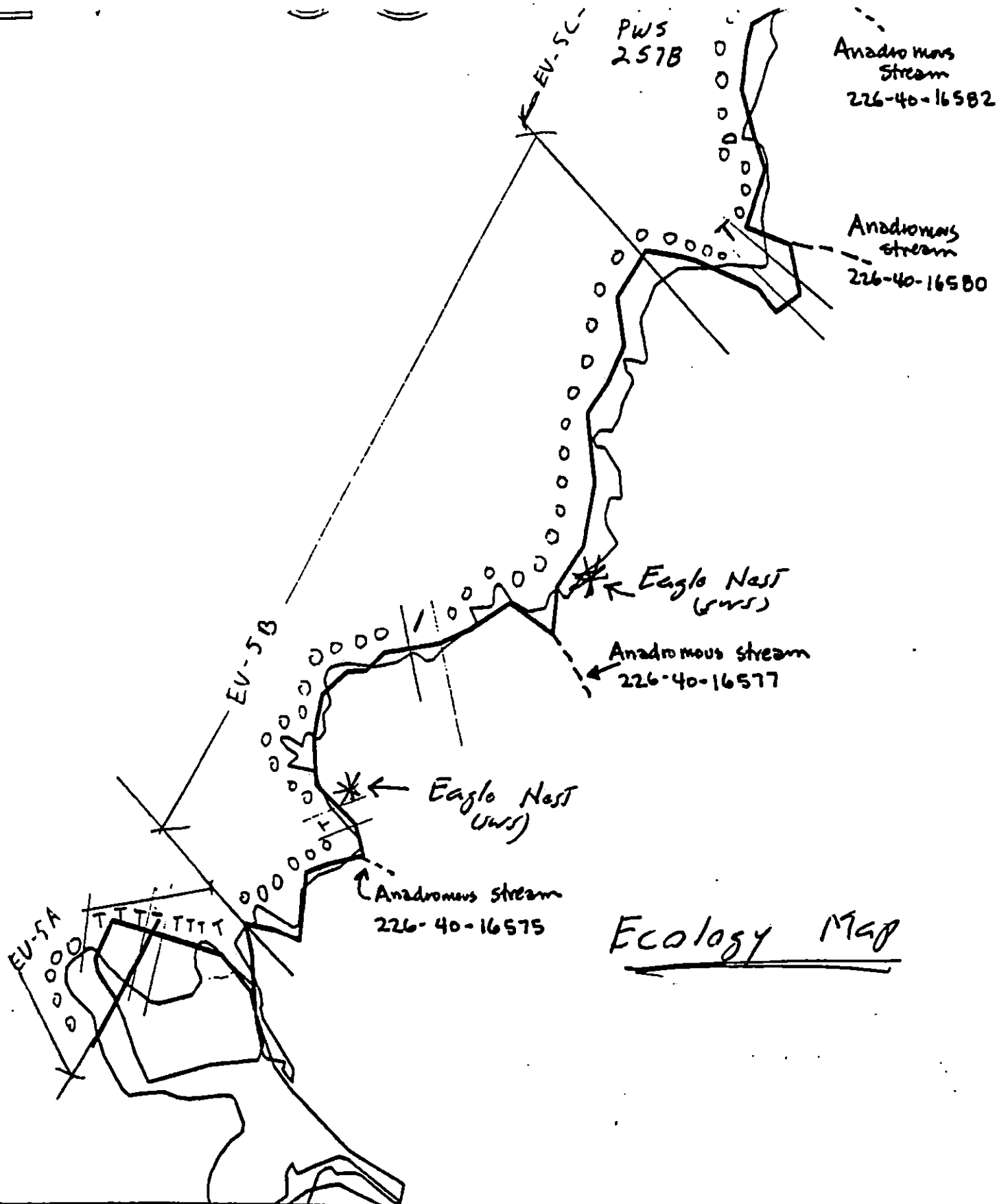
711, 67, 5T-5: Bald eagle seen near nest.

Mussels and Fucus occur below oiled areas in cove:



Note: rocks in low intertidal are slippery due to filamentous algae.

*Note: part surveyed by boat



Ecology Map

XXXX Wide

/// Medium

- - - Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



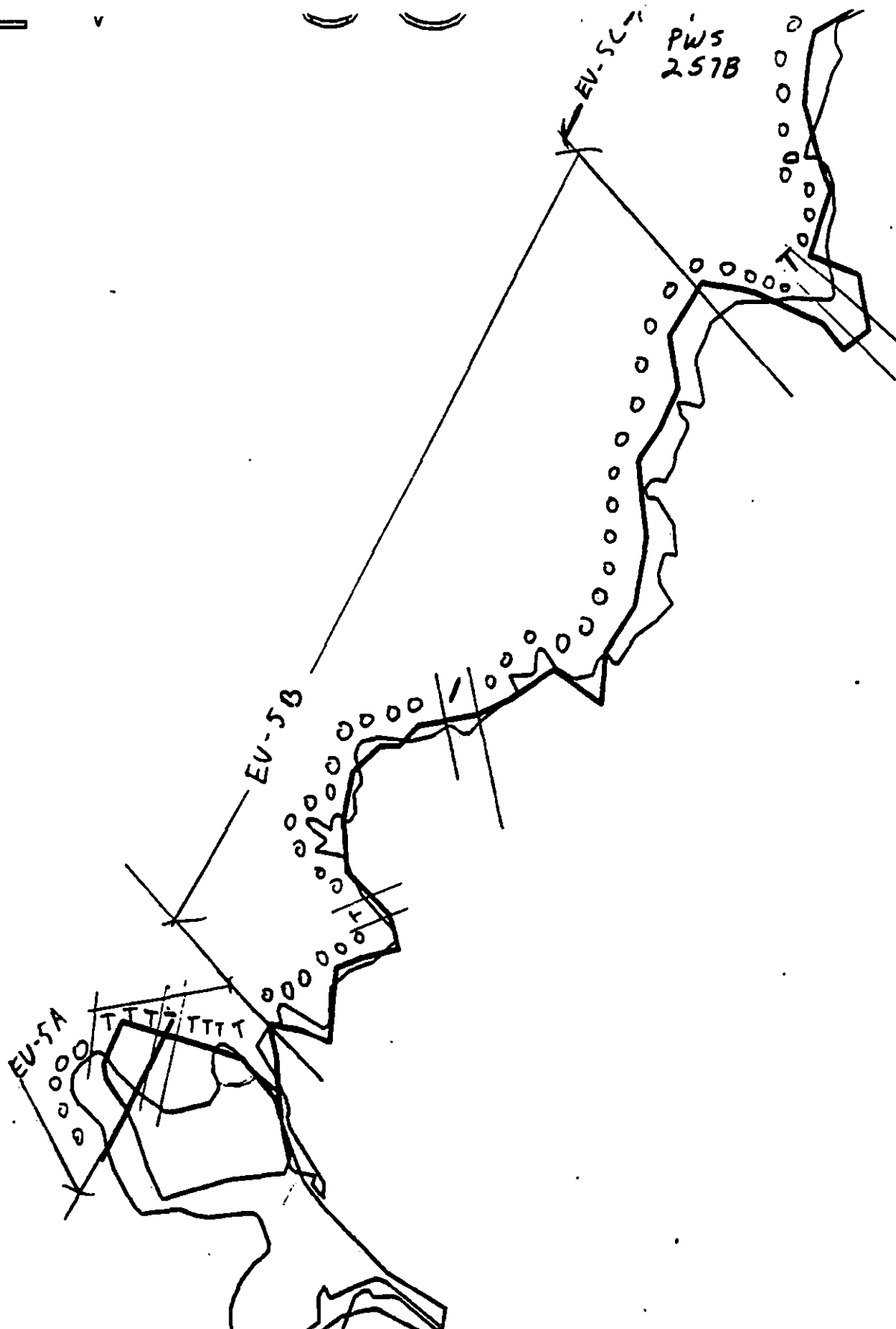
Map Key: PWS-257a

Name: Mike Toget

Date: 4/7/90

Data Entered:





XXXX Wide

EV-5

/// Medium

--- Narrow

ADEC Segment Length: 3432m

TTTT Very Light

OOOO No Oil



METERS



Map Key: PWS-2570

Name: Mike Fogar

Date: 4/7/90

Date Entered:

ASAP FOLLOWUP RECOMMENDATIONS

Segment: AS/ EV-05 Subd.: A Site: _____ Date: 8-6-90 1990

Conditions Observed: In cracks between boulders and underneath boulders is RAS, AP, OP, and OR. Because of oil's location amongst boulders manual removal will be difficult. Also in gravel at water is an area of AP approx 3m x 3m with OP oiling extending a few m over a wide area.

Followup Recommendations: ASAP/ YECO worked on the site but did not complete manual removal/treatment. Further manual removal is needed which should be followed by bio-restoration.

Completed by Pickup Crew:

☐ YES ☒ NO

Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC

BOB McCREARY
(name)

Robert B. McCreary
(signature)

Comments:

Concur with above recommendations

Exxon

John Dean
(name)

J Dean
(signature)

Comments:

LIMITED MANUAL PICK-UP SHOULD BE DONE BEFORE REOCCUPATION OF CUSTOM BLOW

USCG

Don Davis, COB
(name)

Don Davis
(signature)

Comments:

DATA REMOVAL ASCA DELIVERED. GOOD MANUAL REMOVAL STILL REMAINS, WHICH COULD BE ASSESSED BY BIO TEAM.

Land Rep.

Steve WARD CUC
(name)

Steve Ward
(signature)

Comments:

more manual FS needed before bio is done. A more thorough job should be done than last time. Above conditions are improving and are good.

SEGMENT AS EV-05 SUBDIVISION: A SITE: 1 DATE 16 Aug 91

NAME Don Davis, 1st USCB SIGNATURE Don Davis
David Roe, NOAA

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

Partly mousse, asphalt, and industrial lining found in large semi-annual runs. A 10m broken area of mousse and asphalt needs requiring manual removal. Recovery began work on site which was delayed due to tides. Some additional work needed this year with manual and bio. REASSED in 1991.

NAME Bob McCarty SIGNATURE Bob McCarty

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

MS, AP, OP and OR subsurface oil has fairly wide distribution on this segment. Cobbles beach at south end of segment as well as joining boulders will require further treatment in 90. Mechanical means would greatly facilitate accessing the MS and OP beneath boulders.

NAME Steve Wierd CUC SIGNATURE Steve Wierd

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

more manual shall be done here in 90. last manual was Incomplete, shall be Bio again in 90. O/I yes

NAME John Dean SIGNATURE John Dean

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

1 CONCUR

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99
100

OG Mike Fojet

SEGMENT SV EV-5

SUBMISSION A

DATE 4/7/90

CHECKLIST

- ☐ H Area
- ☐ Approx. Scale
- ☐ Sap/Sub Body
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAZARUS
- ☐ SSI
- ☐ Photo Location(s)
- ☐ Photo(s)
- ☐ Photo Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pet - No Surface Oil

2 Δ
Pet - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

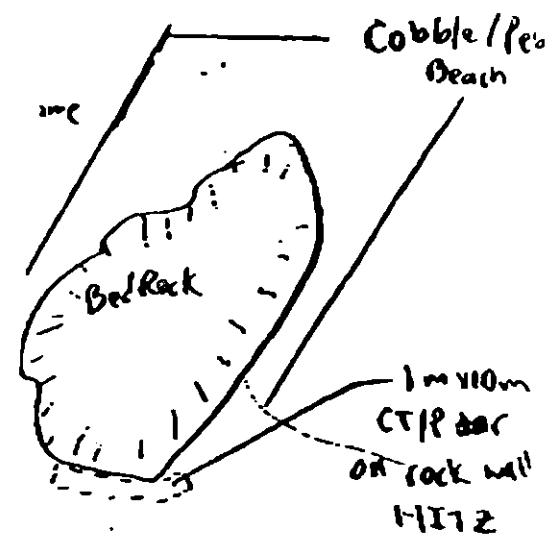
CT/S
Splashed Distribution

Oiled Vegetation

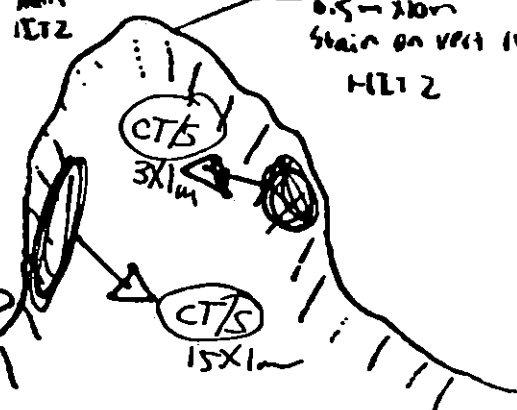
1 →
Photo location, direction, and number

SKETCH MAP

CT 26
CV 10
ST 56
FL 2
MS 5
NO 215
US 125

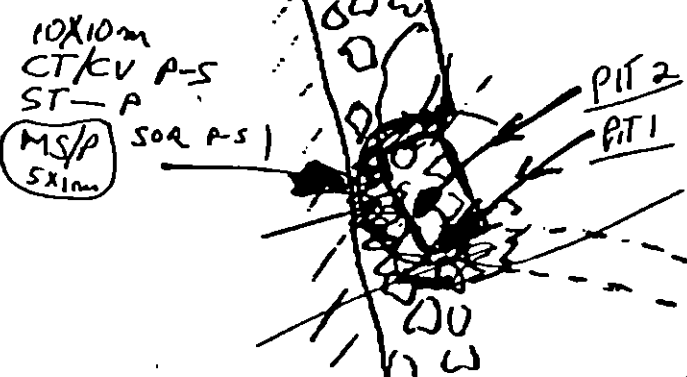


Min IETZ
0.5 - 30 m stain on vert rock
HITZ

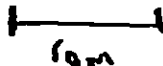


Legend

- cross - snow
- /// - Rock / Boulder
- - Boulder
- ~ - oiled vegetation
- SUITZ



Scale



Remove Oiled Debris

CT P/S
ST P/S
3X1m

ST/B/P
20X3M
FILM 24

Oil Character (L): AP 5 PO 5 CV 50 CT 40 ST 25 MS PT TR 355

ASAP TAG REVIEW SHEET

Segment: EV05

Subd: A

Site: 1

Date

PRE-Review 11 AUG 90

Priority For Addressing In 1990

 HIGH

 MEDIUM

 LOW

~~X~~ NTR

Treatment
Recommended:

SOR / COVER / STAIN

~~NTR~~

High as
per Followup
Rec. Page

Recommendation

Commet sheet does not
agree with OG sheet
Where is the Asphalt?

If mousse / Asphalt present
Rec. Manual Pickup.

Priority Site For Reassessment In 1991

YES

NO

~~X~~

CG

NOAA

YES

NO

~~X~~

ADEC

YES

NO

~~X~~

EXXON

YES

NO

~~X~~

LAND MGR

TAG 13 AUG 90

Limited Manual Pickup
& BCO

Low Priority

SHORELINE EVALUATION

SEGMENT ST/ EV-05 SUBDIVISION B (2 OF 3) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16575, 16580, 16582, 16577.

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

5T-4 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Two anadromous streams in Subdivision B (226-40-16577, 16575) and 2 bald eagle nests, with one bald eagle nest within 400m in Subdivision A.

SHPO SIGNATURE: Charles E. Hume DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 32 m: Narrow 0 m: V.Light 33 m: No Oil 1107 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> Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes 1) manual removal of pooled
mousse and tar patties. 2) manual removal of oiled debris. Work should
be conducted after 6/1. with the approval of USFWS regarding eagle
nests. FOLLOWUP TREATMENT WITH BIOREMEDIATION

TAG COMMENTS:

TAG APPROVAL DATE: 4/26/90

ADEC JOHN BAUER
EXXON ANDY GAZ
NOAA Gary Petrac
USCG KENNETH KUNNE

FOSC: My L DATE: 5-9-90
CVC not concurs with bioremediation.

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A
1B

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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

Esther Hatchery release (4/15 to 6/1)

1E

Main Bay Hatchery release (4/20 to 5/10)

1F

Sawmill Bay Hatchery release (4/15 to 6/1)

1G

Cannery Creek Hatchery release (4/21 to 6/1)

1H

Remote release site

1I

Gill net area (8/7 to 8/31)

1J

Purse seine area (7/20 to 9/30)

1K

Purse seine hook-off (7/20 to 9/30)

1L

Set net sites (8/11 to 7/25)

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.

2M

Herring spawning (4/1 to 6/15)

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
3O, 3Q

Harbor seal and sea lion pupping (5/15 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.

5R

Seabird colony (5/1 to 9/1)

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

Anchorage (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 (5/1 to 9/30)

7+H

Finfish harvesting

7I

Deer harvesting (8/15 to 2/28)

7JJ

Invertebrate harvesting

For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV-5 SUBDIVISION: B DATE 4/7/90

USCG NOAA

NAME GARY SHIGENAKASIGNATURE Gary Shigenaka☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

THE SUBDIVISION CONSISTED OF A SECTION OF EWAUS ISLAND SHORELINE THAT INCLUDED ROCKY FACES AND OUTCROPS AS WELL AS SMALL BEACHES. A BOULDER BEACH ON THE SOUTHERN END OF THE SUBDIVISION REPRESENTED THE ONLY SIGNIFICANT PORTION SHOWING SIGNS OF OILING. THIS SMALL (APPROXIMATELY 25 M LENGTH) BEACH WAS BORDERED ON BOTH SIDES BY ROCK FACES AND SO WAS A RELATIVELY CONFINED PIECE OF SHORELINE. THE UPPER REACHES OF THE UPPER INTERTIDAL WERE FAIRLY HEAVILY CONTAMINATED WITH A MOUSSY COVER AND POOLED OIL, AND THE SUPRATIDAL BACK CONTAINED RELATIVELY UNWEATHERED MOUSSE TO AN UNDETERMINED DEPTH. BIOLOGICAL RESOURCES IN THE LOWER REACHES OF THIS BEACH WERE NOT PARTICULARLY NOTABLE, ALTHOUGH NEW BARNACLE RECRUITS WERE OBSERVED.

THE REMAINDER OF THE SUBDIVISION WAS FREE FROM OILING.

ADEC

NAME John HayesSIGNATURE John Hayes☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

This ^{sub}segment consists of a # of pocket beaches along shoreline segment EV-5. Oiling was observed in two of these pocket beaches (see sketch map). One of the beaches had surface oiling which consisted of residual stain on ^{angular} cobbles in crevices of bedrock and one soft asphalt patch 5m x 5cm was stained. This beach was weathered and stable. The other pocket beach we observed oiling above the storm berm in the supratidal, the oil was MS and was approx 3-5cm thick. The oil was a more weathered oil combination on angular cobbles and in matrix of boulder on supratidal. The pocket beach is located between two walls of bedrock & is a good site for HMHP treatment. Prior to ~~HMHP~~ manual cleanup is recommended to remove surface grass contamination. Beach has no abundant plants of ecological concern (see bio. info.) and is accessible for small work crew.

LAND MANAGER

NAME JAMES A BARKERSIGNATURE James A Barker☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

SSAT DISCOVERED COVE, HIGH BLUFF SIDES, DIAMOND SHAPE, BASE 30m A LOW TIDE MARK RECEDING TO 10m ABOVE HIGH TIDE MARK. THIS SUBDIVISION CONTAINED POCKETS OF WEATHERED OIL BETWEEN ROCK AND CREVASSES. BEACH UNTOUCHED BY CLEANING. SSAT HAVE DETERMINED THAT HAND CLEAN-UP WITH ABSORBENT MATERIALS WOULD BE MOST EFFECTIVE ON OIL POOLS. * DUE TO SHALLOW BED ROCK AND HIGH BLUFF SIDES, HIGH PRESSURE HOT WATER WITH FLOODING AND CONTAINMENT BOOM DURING A MODERATE TIDE WOULD BE ^{THE} MOST EFFECTIVE CLEANING AGENT FOR THE REMAINING SEGMENT.

SHORELINE OILING SUMMARY

REVISION NO. 03/23/88

OG Mike Foget NOAA Gary Shigemata SEGMENT ST/ EV-5
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION B
 EXXON Larry Olson ADEC John Hayes TIME 18:30 to 19:30
 TEAM NO.: 11 TIDE LEVEL: 0.5 to 0.9 DATE 4/7/90
 EST. SUBDIVISION LENGTH: 1200 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock snow located in the SUPRA IZ2
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 40 % B 25 % C 20 % P 10 % G 5 % S 0 % M 0 % V 0 %
 SLOPE: Long 35 % Hang 30 % Vert 35 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 20 m N 0 m VL 35 m NO 1145 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	A	B	C	D	1	2	3	4	5	6	SU	U	M	L
ASPHALT PAVEMENT														
POOLED		X				X					X			
COVER		✓				✓					✓	✓		
COAT			X			X					X			
STAIN			X			X					X			
MOUSSE														
PATTIES														
TARBALLS														
FILM				+			+					+		
NO OIL														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	X		
Trash			
Debris	X		

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. ST-11-2

Frames 29

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		UO	UC	1	2	3	4	5	6	SU	U	M	L		
1	40					X	.									X					P
2	25					X	.										X				S, C
3	40					X	.									X					P, G
4	25					X	.										X				P
5	15					X	.											X			P, R
							.														

COMMENTS

Most of the oiling in this subdivision occurred in a small V crevas beach which is 30 m at the base. This shore zone is bounded by two rocky vertical walls with large boulders in the supra and HIZ2. (see map 2). There is pooling and oil cover between the crevasses of the boulders and underneath the boulders. This oiling occurred in sup supra and HIZ2. The exposed areas of these boulders show no indication of oiling.

00 Forget

SEGMENT ST/ EV-5

SUBDIVISION B

DATE 4, 7 90

SKETCH MAP 1

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. INM/LA/WL
- ☐ SSI
- ☐ Photo Location(s)
- ☐ Probe(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 Vegetation

1 ●

Probe location, direction,
and number



Moderate oil
See map 2.

Bedrock/
Boulder

CT/S 3m x 11m
Tar stain on upper
rock, H112

Bedrock/Boulder

anadromous
stream

Scale

200m

Legend

~~~~~ - Stream  
/// - Bedrock/Boulder

Oil Character Length (m): AP 20 CV 10 ST 35 MS 1 PT 1 TB 1 FL 1 NO 1145

REVISED 10/90

OG Le Toget

SEGMENT ST/ EU-5

SUBDIVISION B

DATE 4, 7 90

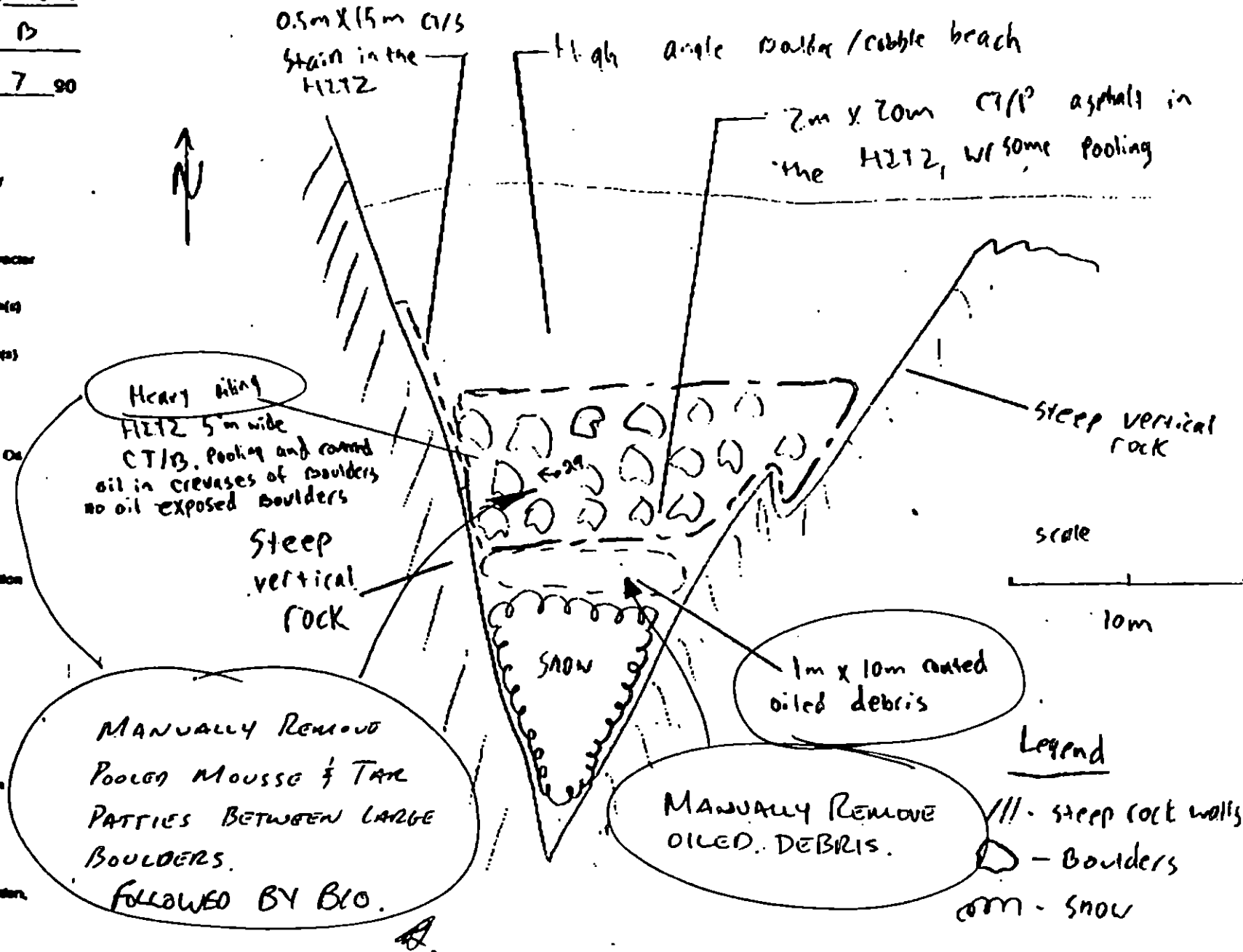
# SKETCH MAP 2

## CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/L/VL
- ☐ SSZ
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

## LEGEND

- 1  $\Delta$   
Pt - No Surface Oil
- 2  $\Delta$   
Pt - Surface Oil
- $\square$  CT/C  
Continuous Distribution
- $\square$  CT/B  
Broken Distribution
- $\square$  CT/P  
Patchy Distribution
- $\square$  CT/S  
Splashed Distribution
- $\square$  Oiled Vegetation
- 1  $\Rightarrow$   
Photo location, direction, and number



see map 1

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

REVISION 000000

Bio: page 19

REVISION: 03/22/90

## SHORELINE ECOLOGICAL SUMMARY

Segment ST / EVOOS Subdivision B Date (mo / day / yr) 4 / 7 / 90Time (24 hr) 1830 hrs Biologist Ambrose

(A) Substrate type and % of segments:

(1) Bedrock 40 (2) Boulder 25 (3) Cobble 20 (4) Pebble 10 (5) Sand 5 (6) Silt -(B) Overall % cover of biota (% of segment): Dense 15 Moderate 25 Low 60

(C) Density, substrate preference (by number from A, above), &amp; 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: Eagles (see below), deer (and deer bones), 3 crows, seal.

## Ecological Considerations:

TII, 64, ST-5: 1 mature bald eagle and 1 immature eagle.

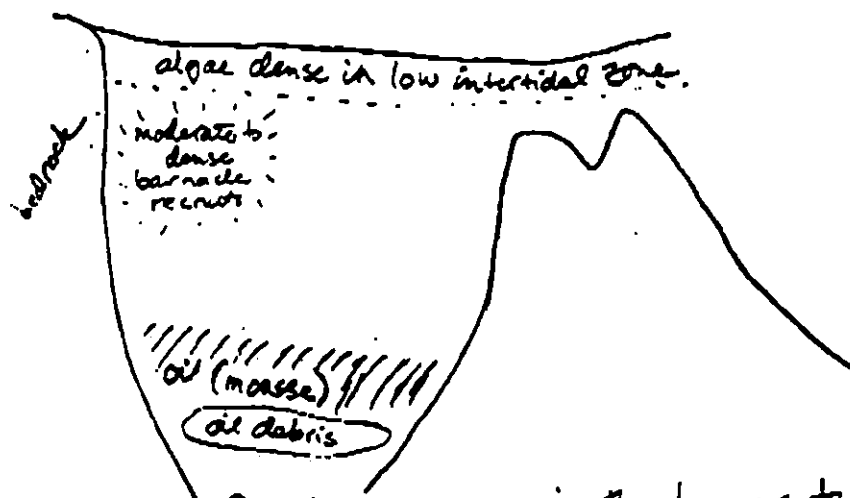
One anadromous stream occurs in this subdivision; no oil was noted nearby.

Weathered mousse noted in upper intertidal of one cove (see page 2)

Ambrose  
4/7/90

Subdivision EVOOS 13

Oiling on Beach #1 and ecological constraints:



Algae are fairly common in the lower tidal zones: Rhodomele and Enteromorpha occurred in the mid intertidal, Palmaria (or the like) is dense in the low intertidal, and Laminaria is dense in the subtidal.

There is also a good set of barnacles on one side of the cove.

However, the overall biota of the cove is not unusual or rich; in fact, there was virtually no Fucus or Mytilus in the upper intertidal on the beach.

Impacts to the cove from remediation activities could be minimized by working at mid to high tides, but in any case there would not appear to be great to intertidal resources from cleaning this area.

# ASAP FOLLOWUP RECOMMENDATIONS

Segment: AS/ EV-05R Subd.: B Site: \_\_\_\_\_ Date: 8-6-90 1990

Conditions Observed: Small pocket beach just south of Road  
220-40-16575. Area was washed in Summer '90. Just MS,  
OP, and OR has been from under boulders and subrope.  
Because much of oiling is beneath boulders, manual  
removal will be difficult.

Followup Recommendations: Manual removal of MS, AP, and OP  
that is accessible. Remaining residual oil to be  
tiled and bioremediated.

Completed by Pickup Crew: ☐ YES ☒ NO

Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC

Bob McCreedy  
 (name)

Robert B. McCreedy  
 (signature)

Comments: \_\_\_\_\_

Exxon

John Dean  
 (name)

John Dean  
 (signature)

Comments: I AGREE WITH RECOMMENDATION 8/90 & REASSESSMENT IN '91

USCG

Don Davis  
 (name)

Don Davis  
 (signature)

Comments: MANUAL WORK REQUIRED IN '91. WORK WILL BE DIFFICULT AT LEAST  
APPLICATION OF BIC OILING REASSESS IN 1991

Land Rep.

Steve Ward  
 (name)

Steve Ward  
 (signature)

Comments: MANUAL WORK TRULY DIFFICULT AND WITH PICKING UP MAN  
LIKE HELL. MORE MANUAL WORK IN '91 YES.

SEGMENT AS / EV-05 SUBDIVISION: 3 SITE: 1 DATE 10/11/91

CCG

NAME Don Davis, GM USCG SIGNATURE [Signature] / Don Davis, NAVA☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

TOWARD THE REAR OF 30m WIDE COVE WITH MEDIUM TO LARGE BOULDERS.  
A 30 X 5 m BAND OF INTERSTITIAL OILING (502") DISCOVERED. A 15cm P.I.T  
DUE TO BED ROCK REVEALS OILING TO 15cm. SOME MANUAL WORK COULD BE  
PERFORMED, BUT AT MINIMUM OF REAPPLICATION OF BIO. DEFINATE REASSESSMENT  
IN 1991.

Agree - Don. Oiling between boulders will make manual removal difficult.

ADEC

NAME Bob McCrory SIGNATURE [Signature]☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Small pocket beach just South of Anad. 226-40-16575. Area  
was worked in '90, but MS, OP, OR, etc. has bled from beneath boulders.  
much of oiling is under boulders and will be difficult to remove normally.  
Treatment has been recommended to occur in '90. Area should be  
reassessed in '91 and if MS remains, mechanical means of relocating  
boulders should be assessed

LAND MANAGER

NAME Steve Lowndes CVC SIGNATURE [Signature]☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

this area was not finished by manual crew. more manual  
is needed to get oil that has bled from rocks.  
more manual in 90 - bio in 90 - 91 yes  
check for sub-surface in 91

EXXON

NAME John Dean SIGNATURE [Signature]☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADDITIONAL SHAUL AMOUNT CAN BE RECOVERED MANUALLY  
AND REAPPLICATION OF CUSTOM BLEN

### SITE 3

[illegible][illegible]

Frames

COMMENTS

- oil consisted of ST/CT AND PATCHY MUDS ON 60cm boulders
- 1 bio. balloon recovered & <sup>REMARKS:</sup> WORK ON M/S/CT WAS INITIATED BY THE FIELD CREW
- RECOVERED. WIDTH WAS 5m & LENGTH WAS 30m

REVISION NO. 7/7778

SEGMENT ST/ EV-5

SUBDIVISION B

DATE 4, 7 80

### CHECKLIST

- ☐ M Area
- ☐ Approx. Size
- ☐ Top Sub Study
- ☐ Oil Dist
- ☐ When
- ☐ Length
- ☐ % Cover
- ☐ Substrate Chemistry
- ☐ E in MSLA M
- ☐ SSI
- ☐ Photo (landscape)
- ☐ Photo (S)
- ☐ Photo (macro)
- ☐ Photo (landscape)

### LEGEND

1 Δ  
Pc - No Substrate Oil

2 Δ  
Pc - Substrate Oil

CT/C  
Continued Distribution

CT/B  
Broken Distribution

CT/P  
Patchy Distribution

CT/S  
Speckled Distribution

Other Vegetation

1 →  
Photo location, direction,  
and number

### SKETCH MAP 1

8/6/90  
ST/ 30  
MS/ 5  
NO 100  
CT/ 30  
US 134

PWS

PITS OF

30m-well

Bedrock/  
Boulder

Bedrock/Boulder

anadromous  
stream

CT/S 3m x 10m  
Tar stain on VWC  
rock, H212

EVANS  
ISLAND

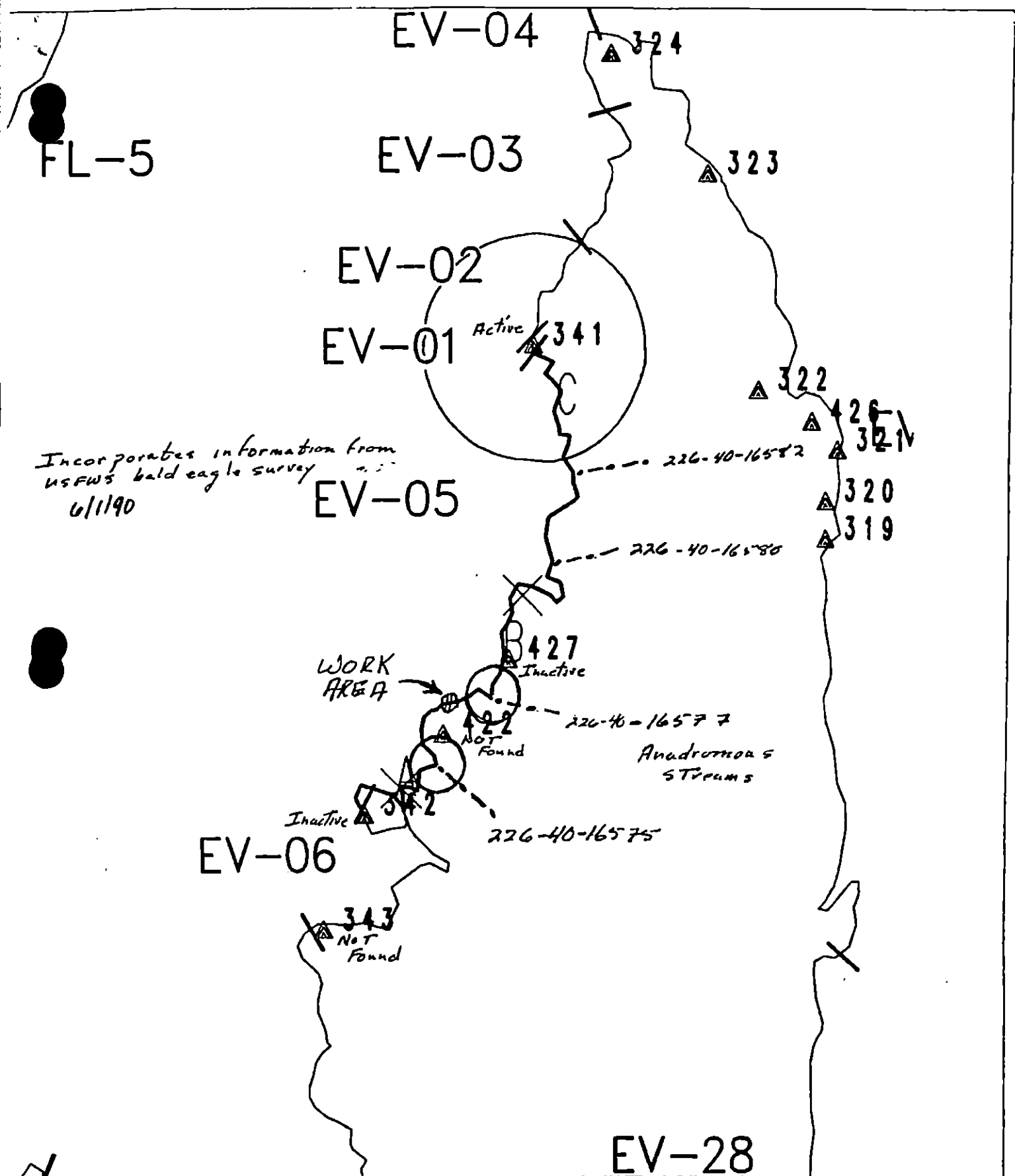
Scale

200m

Legend

xxx - stream  
/// - Bedrock/Boulder

Oil Character Length (m): 16 - 20 CV - 10 ST 55 MS PT TD FL NO 1145



# ECOLOGY MAP 5/30

SEGMENT EV-5

SUBDIVISION B (2 of 3)

METERS



Seabird Colony



Eagle Nest

1 inch = 1000 feet



Exxon Company, USA

Map Key: PMS-EV-5

Scale 1:1000

## ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-5 SUBDIVISION B ( 2 of 3 )

| WORK WINDOW    |                    |
|----------------|--------------------|
| Manual Pickup  | OPEN               |
| Bioremediation | WORK PRIOR TO 7/20 |

### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

|       |                              |                                                                                                                |
|-------|------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1A,1B | Salmon Stream                | NO CONSTRAINT. ADF&G catalogued anadromous streams (226-40-16575 and 16577) are more than 100m from work area. |
| 1K    | Purse Seine Hook-off         | Closed to bioremediation after 7/20. No constraint to manual pickup.                                           |
| 5T    | Bald Eagle Nest              | NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision B work site.               |
| 7II   | Subsistence: Deer Harvesting | Closed to bioremediation after 8/15. No constraint to manual pickup.                                           |

### OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum after 7/20. Restrict beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

TAG APPROVAL DATE \_\_\_\_\_  
ADEC \_\_\_\_\_  
EXXON \_\_\_\_\_  
NOAA \_\_\_\_\_  
USCG \_\_\_\_\_

FOSC WJL Date 7 June 1990

Prepared by WJK Date 6/7/90

# SHORELINE EVALUATION

SEGMENT ST/ EV-05 SUBDIVISION C (3 OF 3) DATE 4/7/90

## SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16575, 16580, 16582, 16577.

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

5T-4 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

## SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Two anadromous streams; 226-40-16582 and 226-40-16580 and one eagle nest in Subdivision C, and a second eagle nest within 400m in adjacent Subdivision B.

SHPO SIGNATURE: Charles J. Hume DATE: 5/3/90

## OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 63 m: No Oil 1317 m  
Subsurface Oil Observed: Yes      No X Maximum Depth     

## RECOMMENDATIONS:

|                                                                                         |                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> No Treatment Recommended                            | <input type="checkbox"/> Snare/Absorbent Booms           |
| <input checked="" type="checkbox"/> Treatment Recommended                               | <input type="checkbox"/> Oil Snares (pom poms)           |
| <input checked="" type="checkbox"/> Manual Pickup                                       | <input type="checkbox"/> Absorbents (pads, rolls, etc)   |
| <input type="checkbox"/> Bioremediation                                                 | <input type="checkbox"/> Spot Washing: <u>    </u> Wands |
| <input checked="" type="checkbox"/> Tarmat: <input checked="" type="checkbox"/> Removal | <input type="checkbox"/> Beach Cleaner                   |
|                                                                                         | <input type="checkbox"/> Other (see comments)            |

COMMENTS: PICKUP ASPHALT + DEBRIS AS INDICATED ON SKETCH

TAG COMMENTS: MONITORS TO CHECK SUITZ DURING TREATMENT

TAG APPROVAL DATE: 4/26/90

ADEC John Bauer John

EXXON Andy Andy

NOAA Gary Petrac Gary

USCG Kenneth Kline Kenneth

FOSC:      DATE: 5-18-90

Advise CVC 24 HRS. PRIOR TO STARTING WORK

# PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

|                  |                                                                                                                                                                                                                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1A               | Salmon stream mouth - fry outmigration (3/1 to 5/15)                                                                                                                                                                                                                                                                                     |
| 1B               | Salmon stream mouth - spawning (7/10 to 8/31)<br>No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.<br>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               | Esther Hatchery release (4/15 to 6/1)                                                                                                                                                                                                                                                                                                    |
| 1E               | Main Bay Hatchery release (4/20 to 5/10)                                                                                                                                                                                                                                                                                                 |
| 1F               | Sawmill Bay Hatchery release (4/15 to 6/1)                                                                                                                                                                                                                                                                                               |
| 1G               | Cannery Creek Hatchery release (4/21 to 6/1)                                                                                                                                                                                                                                                                                             |
| 1H               | Remote release site                                                                                                                                                                                                                                                                                                                      |
| 1I               | Gill net area (6/7 to 8/31)                                                                                                                                                                                                                                                                                                              |
| 1J               | Purse seine area (7/20 to 9/30)                                                                                                                                                                                                                                                                                                          |
| 1K               | Purse seine hook-off (7/20 to 9/30)                                                                                                                                                                                                                                                                                                      |
| 1L               | Set net sites (6/11 to 7/25)<br>For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.                                                                                                                                                                                                                     |
| 2M               | Herring spawning (4/1 to 6/15)<br>Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass.<br>Contact ADF&G for specific dates and locations.                                                                                                                                    |
| 3N, 3P<br>3O, 3Q | Harbor seal and sea lion pupping (5/15 to 7/1)<br>Harbor seal and sea lion molting (8/15 to 9/15)<br>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 9/1)<br>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)<br>Restrict all activity to essential minimum, especially air traffic.                                                                                                                                                                                                                   |
| 5T               | All Bald Eagle nests (3/1 to 6/1)<br>Active Bald Eagle nests (3/1 to 9/1)<br>Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates. |
| 6U               | Recreation: Tent sites (6/1 to 9/15)                                                                                                                                                                                                                                                                                                     |
| 6V               | Anchorage (6/1 to 9/15)                                                                                                                                                                                                                                                                                                                  |
| 6W               | Forest Service cabins (6/1 to 9/15)                                                                                                                                                                                                                                                                                                      |
| 6X               | Lodge (6/1 to 9/15)                                                                                                                                                                                                                                                                                                                      |
| 6Y               | Special use destination                                                                                                                                                                                                                                                                                                                  |
| 7Z               | Subsistence area: Salmon harvesting (5/1 to 9/30)                                                                                                                                                                                                                                                                                        |
| 7-HH             | Finfish harvesting                                                                                                                                                                                                                                                                                                                       |
| 7I               | Deer harvesting (8/15 to 2/28)                                                                                                                                                                                                                                                                                                           |
| 7-JJ             | Invertebrate harvesting<br>For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.                                                                                                                                                                                                |

# FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV-5 SUBDIVISION: C DATE 4/7/90

USCG NOAA

NAME GARY SHIGENAKA

SIGNATURE *Gary Shigenaka*

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

## COMMENTS

SUBDIVISION CONSISTED OF A DIVERSE SHORELINE ON THE NORTHERN PART OF EVANS ISLAND. MOST OF THE COASTLINE IN THIS AREA WAS ROCKY, WITH SOME PEBBLE OR COBBLE BEACHES INTERSPERSED ALONG THE LENGTH. THE ONLY SIGNIFICANT EVIDENCE OF OILING WAS OBSERVED AT THE SOUTHERN-MOST COBBLE BEACH OF THE SUBDIVISION, WHERE A BAND OF STAIN AND ASPHALT WERE FOUND ON BOTH SIDES OF AN ANADROMOUS STREAM. ALTHOUGH SNOW COVERED MOST OF THE SUPRATIDAL, THE LEADING EDGE WAS VISIBLE AND APPEARED TO BE CLEAN. WEATHERED STAIN WAS SEEN IN THE UPPER INTERTIDAL ON THE NORTH SIDE OF THE STREAM. ALTHOUGH EXTENT OF OILING WAS NOT SEVERE UNTO ITSELF, THE PROXIMITY OF THAT OBSERVED TO AN ANADROMOUS STREAM WAS VIEWED AS A JUSTIFICATION FOR MORE THOROUGH EXAMINATION AT A LATER DATE.

AT A COBBLE-PEBBLE BEACH TO THE NORTH, A 1 M (WIDE) X 10 M (LENGTH) BAND OF TAR PATCHES AND STAIN WAS FOUND ON THE NORTH SIDE OF THE BEACH. AT THIS LOCATION, A PARTIALLY OILED SNARE BOOM WAS RECOVERED.

ADEC

NAME

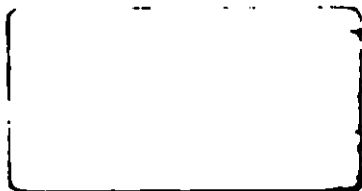
SIGNATURE

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

## COMMENTS

*Oil in the form of tar patches and stains were observed on this segment. Although beach appears stable a 1 m. tar band extends to stream bank but not onto streambank in UITE (see sketch map). There are also tar patches within close proximity to anadromous streams. No oil was found in stream bed or along stream banks. Recommend that hood-boat team visit stream area & recommend treatment if needed. The rest of the segment had staining.*



## SHORELINE OILING SUMMARY

REVISION NO. 000000

OG Mike Foget NOAA USGS Gary Shigemata SEGMENT ST/ EV-05  
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION C  
 EXXON Larry Olson ADEC John Hayes TIME 19:30 to 20:30  
 TEAM NO.: 11 TIDE LEVEL: 0.9 to 2.8 DATE 4/7/90  
 EST. SUBDIVISION LENGTH: 1752 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow  
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock shell in the SURF HITZ  
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: to  
 SURFACE SEDIMENTS: R 45% B 35% C 10% P 5% G 5% S —% M —% V —%  
 SLOPE: Long 20% Hang 40% Vert 40% WAVE EXPOSURE: ☐ Low ☒ Med ☐ High  
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 47 m NO 1700 m

## SURFACE OIL

| CHARACTER        | DISTRIBUTION |   |   |   | OIL / FILM COLOR |    |    |    |    | IMPACTED ZONES |   |   |   |
|------------------|--------------|---|---|---|------------------|----|----|----|----|----------------|---|---|---|
|                  | C            | S | P | N | SP               | BR | OR | GR | BL | SU             | U | M | V |
| ASPHALT PAVEMENT |              |   | X |   | X                |    |    |    |    | X              |   |   |   |
| POOLED           |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| COVER            |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| COAT             |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| STAIN            |              |   |   | ✓ | ✓                |    |    |    |    | ✓              |   |   |   |
| MOUSSE           |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| PATTIES          |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| TARBALLS         |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| FILM             |              |   |   |   |                  |    |    |    |    |                |   |   |   |
| NO OIL           |              |   |   |   |                  |    |    |    |    | X              | X | X |   |

PAVEMENT: H F (S) 3 sq. m by 3 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

| OILED DEBRIS | AMOUNT |    |    |                                                                                         |
|--------------|--------|----|----|-----------------------------------------------------------------------------------------|
|              | SM     | MD | LG |                                                                                         |
| Logs         |        |    |    | DEBRIS COLLECTED<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Vegetation   |        |    |    |                                                                                         |
| Trash        |        |    |    |                                                                                         |
| Debris       | X      |    |    | TYPE <u>shore boom</u><br>#BAGS <u>      </u>                                           |

Photographs:

Roll No. ST-11-CFrames 30, 31

## 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 | SP               | BR | OR | GR | BL | SU       | U | M | V |       |                      |
| 1       | 15             |                          |    |    |    | X  | -                   |       | X  |                  |    |    |    |    | X        | X |   |   |       | P                    |
| 2       | 20             |                          |    |    |    | X  | -                   |       | X  |                  |    |    |    |    | X        |   |   |   |       | P                    |
| 3       | 25             |                          |    |    |    | X  | -                   |       | X  |                  |    |    |    |    |          | X |   |   |       | P R                  |
| 4       | 20             |                          |    |    |    | X  | -                   |       | X  |                  |    |    |    |    | X        |   |   |   |       | P                    |
|         |                |                          |    |    |    |    |                     |       |    |                  |    |    |    |    |          |   |   |   |       |                      |
|         |                |                          |    |    |    |    |                     |       |    |                  |    |    |    |    |          |   |   |   |       |                      |

COMMENTS Diking in this subdivision occurs at the Southern most cove for subdivision C. This is a low angle cobble / pebble beach with two streams. There is a CT/P distribution of asphalt Patties in this area along the HITZ approximately 1m x 27m this band is broken into 3 areas by the Forked Stream. The Patties were manually broken up by the SSAT team. This subdivision also has approximately 25 m of very light CT/S staining in the HITZ (see map)

OG 10901

SEGMENT ST/ EV-5

SUBDIVISION C

DATE 4, 7 90

### CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Obs.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LVL
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt. Location(s)
- ☐ Photo Location(s)

### LEGEND

1  $\Delta$   
Pt - No Subsurface Oil

2  $\Delta$   
Pt - Subsurface Oil

CT/C  
Continuous Distribution

CT/B  
Broken Distribution

CT/P  
Patched Distribution

CT/S  
Splashed Distribution

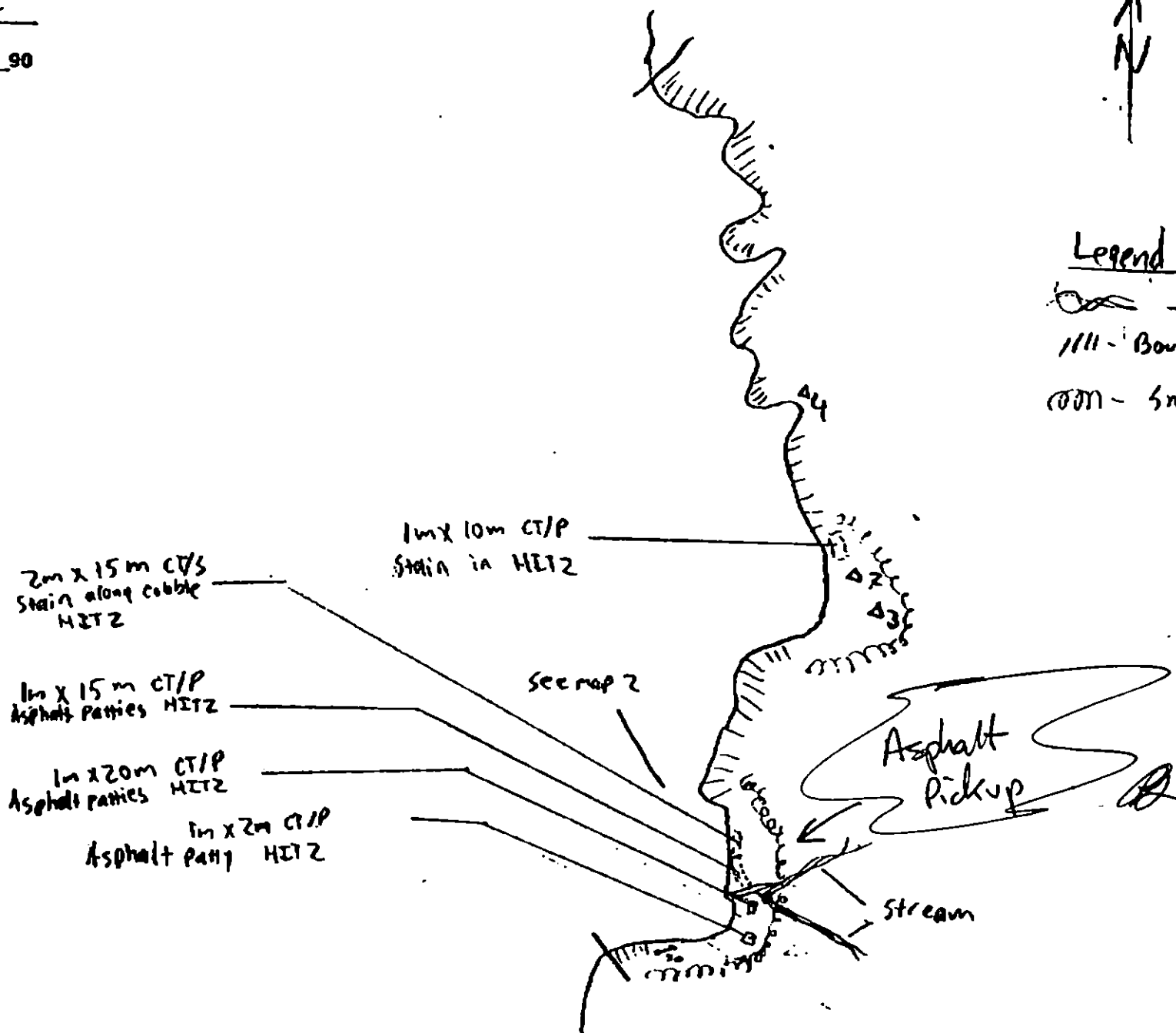
Oil on Vegetation

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

### SKETCH MAP I



Legend  
 - Stream  
 - Boulder / Rock  
 - Snow supra  
ITZ



Oil Character Length (m): AP 1 PO 1 CV 1 CT 1 ST 25 MS 1 PT 27 TB 1 FL 1 NO 1700

DE W0000000000

OG Loget

SEGMENT ST/ EV-5

SUBDIVISION C

DATE 4 / 7 / 90

## SKETCH MAP 2

### CHECKLIST

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

### LEGEND

1  $\Delta$   
Pt - No Subsurface Oil

2  $\Delta$   
Pt - Subsurface Oil

$\boxed{CT/C}$   
Continuous Distribution

$\boxed{CT/B}$   
Broken Distribution

$\boxed{CT/D}$   
Patchy Distribution

$\boxed{CT/S}$   
Splashed Distribution

$\boxed{CT/V}$   
Oiled Vegetation

1  $\circ$

Photo location, direction,  
and number

### Legend

~~sea~~ - stream

/// - bedrock/coulder

1m x 2m CT/P  
Asphalt Patties HITZ

2m x 15m CT/B stain  
along cobble HITZ

C/B beach

1m x 15m CT/P  
Asphalt Patties HITZ

1m x 20m CT/P Asphalt  
Patties; HITZ

see map 1

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

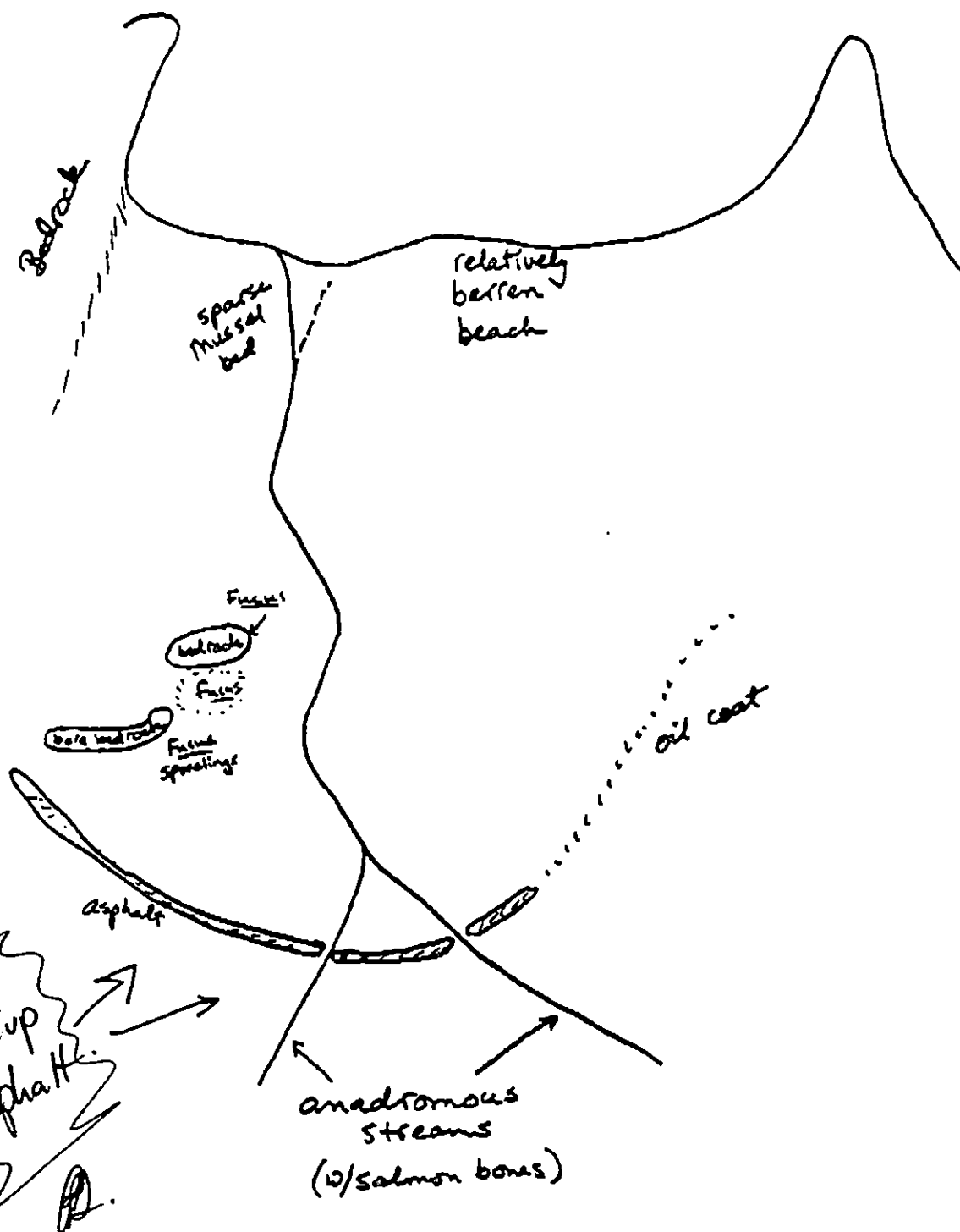
REVISIONS

Ambrose  
4/7/90

Subdivision EVO05C

Bio: page 2 of 2

Sketch of cove with anadromous stream:



# SHORELINE ECOLOGICAL SUMMARY

Bio: page 192

REVISION: 03/22/90

Segment ST/EVOOS Subdivision C Date (mo/day/yr) 4/7/90

Time (24 hr) 1930 hrs Biologist Ambrose

(A) Substrate type and % of segments:  
(1) Bedrock 45 (2) Boulder 35 (3) Cobble 10 (4) Pebble 5 (5) Sand 5 (6) Silt -

(B) Overall % cover of biota (% of segment): Dense 10 Moderate 25 Low 65

(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  | <del>2</del> | <del>2</del> | 2  | 2            | 2            | 2  | 2    | 2  | 2  |
| 3     | 3  | 3  | <del>3</del> | <del>3</del> | 3  | <del>3</del> | <del>3</del> | 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      | <del>3</del> | 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            | <del>2</del> | 2    | 2  | 2  |
| 3     | 3  | 3  | 3        | 3  | 3  | 3      | <del>3</del> | 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        | <del>2</del> | 2  | <del>2</del> | 2            | 2  | 2    | 2  | 2  |
| 3     | 3  | 3  | 3        | 3            | 3  | <del>3</del> | <del>3</del> | 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

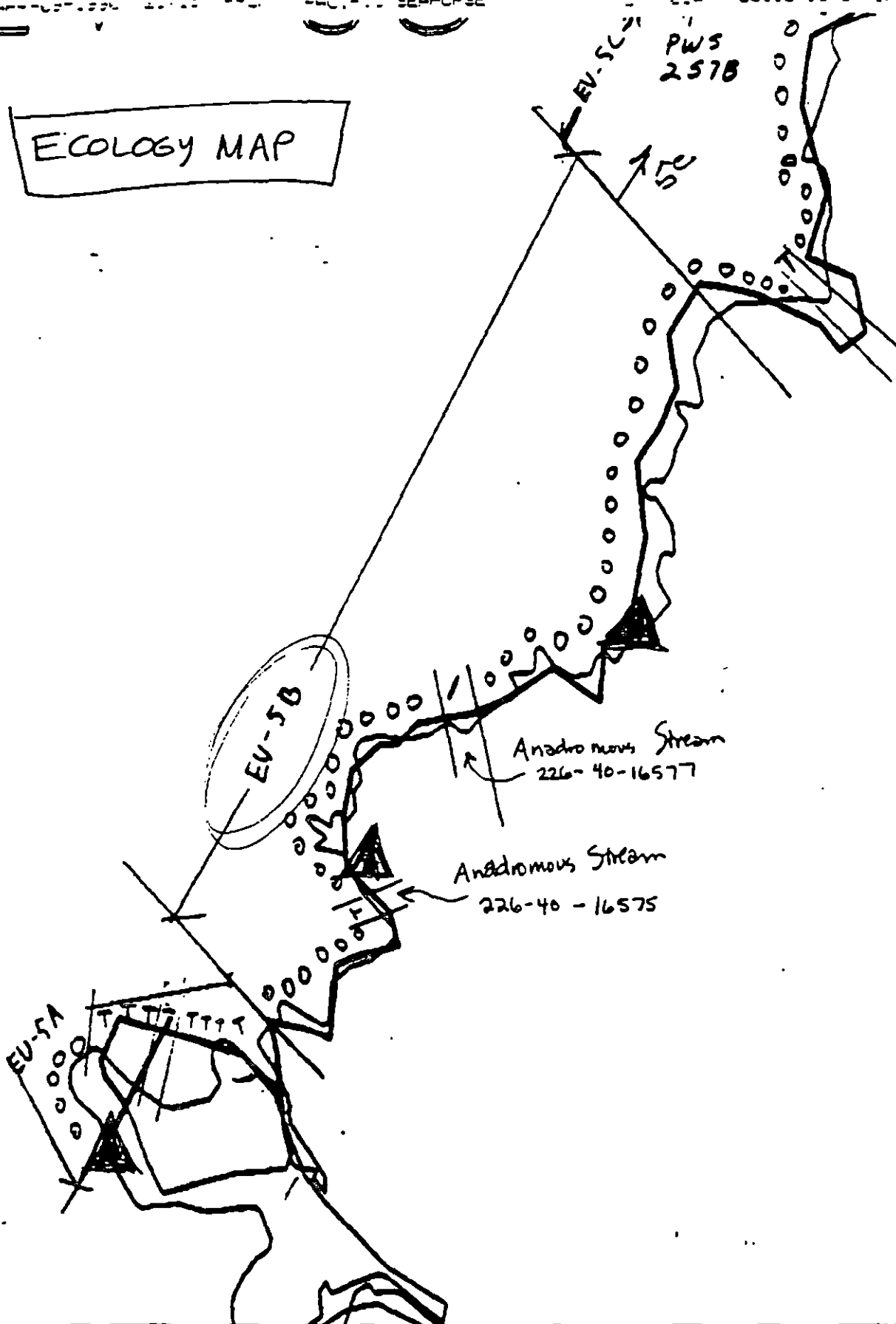
Wildlife Observations/ General Comments: Eagle (below), 2 deer plus deer bones, 1 otter, otter carcass in supralittoral (no sign of oiling).  
moderate to sparse cover; one anadromous stream (see next page).

## Ecological Considerations:

7/11/64, 5T-5: One immature eagle seen in tree.

See next page for information on anadromous stream.

# ECOLOGY MAP



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-5C

ADEC Segment Length: 3432m



Map Key: PWS-257c

Name: Mike Boer

Date: 4/7/90

Date Entered:

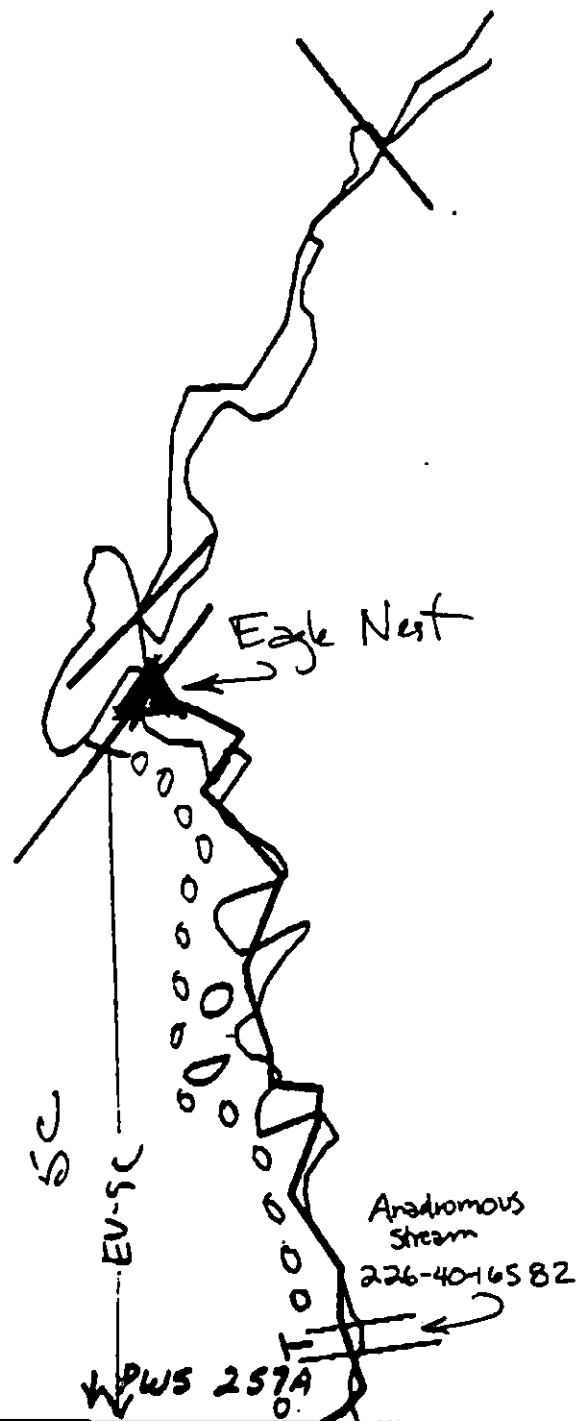
EV-03

ECOLOGY MAP

EV-02

EV-01

EV-05



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



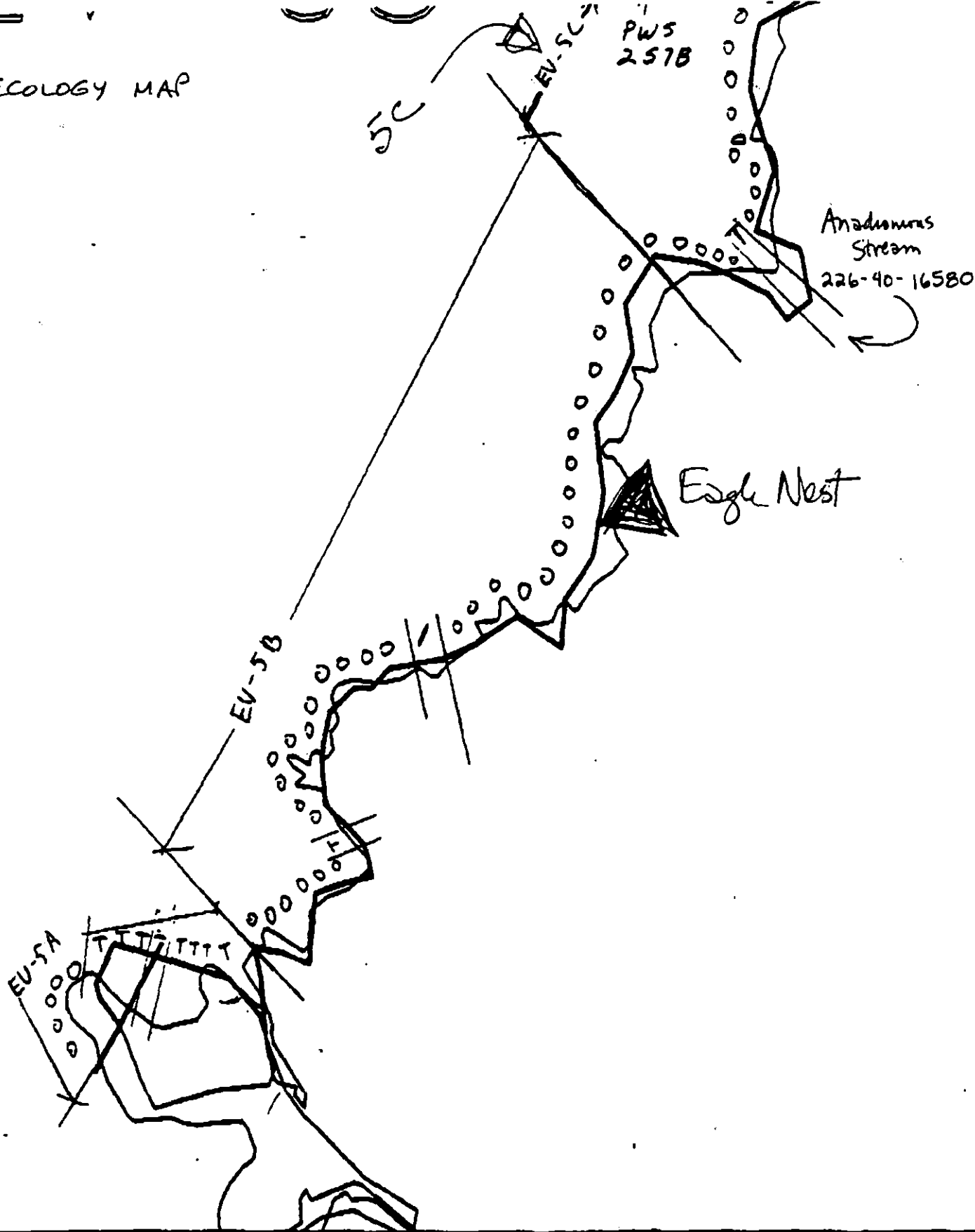
Map Key: PWS-257b

Name: Mike Fogel

Date: 4/7/90

Date Entered:

# ECOLOGY MAP



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

EV-5

ADEC Segment Length: 3432m



Map Key: PWS-257a

Name: Mike Tozer

Date: 4/7/90

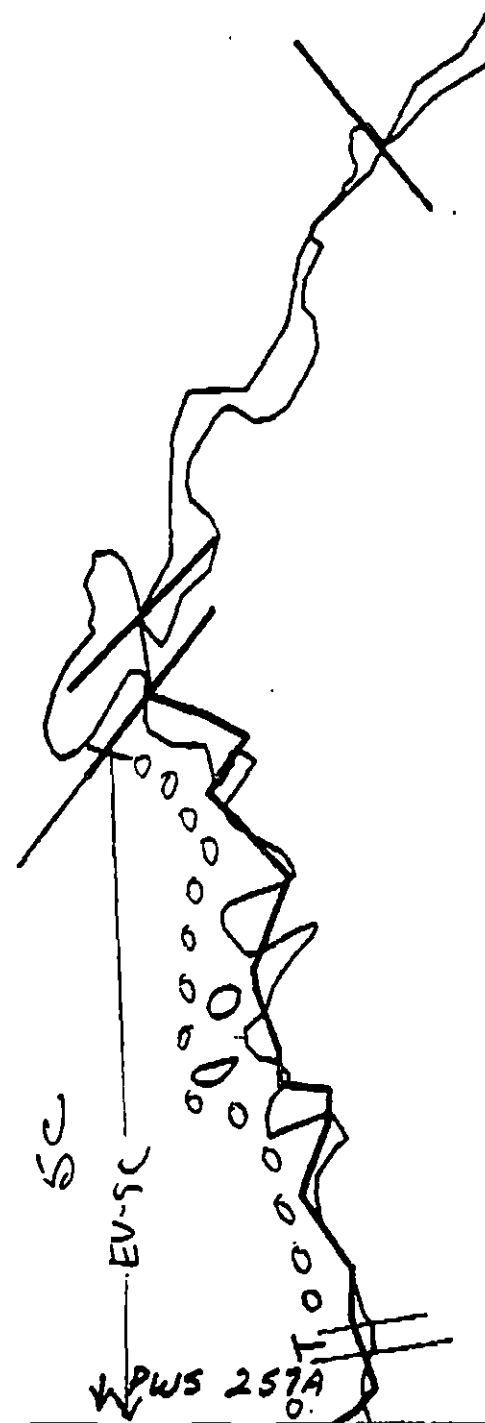
Data Entered:

EV-03

EV-02

EV-01

EV-05



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



Map Key: PWS-257b

Name: Mike Roger

Date: 4/7/90

Date Entered:

## ADDENDUM: SUBDIVISION CONSTRAINTS

### SEGMENT EV-5 SUBDIVISION C (3 of 3)

| WORK WINDOW                     |      |
|---------------------------------|------|
| Manual Pickup<br>Tarmat Removal | OPEN |

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

##### 1A,1B Salmon Streams

ADF&G catalogued anadromous streams (226-40-16580 and 16582) are present in Subdivision C. No constraint to manual pickup and tarmat removal.

##### 1K Purse Seine Hook-off

No constraint to manual pickup and tarmat removal.

##### 5T Bald Eagle Nest

NO CONSTRAINT. USFWS bald eagle impact assessment completed on 5/26/90 by Mike Lockhart indicates no active nests within 400m of the work area.

##### 7II Subsistence: Deer Harvesting

No constraint to manual pickup and tarmat removal.

#### OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum after 7/20. Restrict beach activity to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

TAG APPROVAL DATE 6/04/90.  
ADEC RAY MORRIS R. MORRIS  
EXXON ANDY GAT  
NOAA JOSEPH J. GALLAGHER  
USCG G. A. DEITER

FOSC

[Signature]

DATE

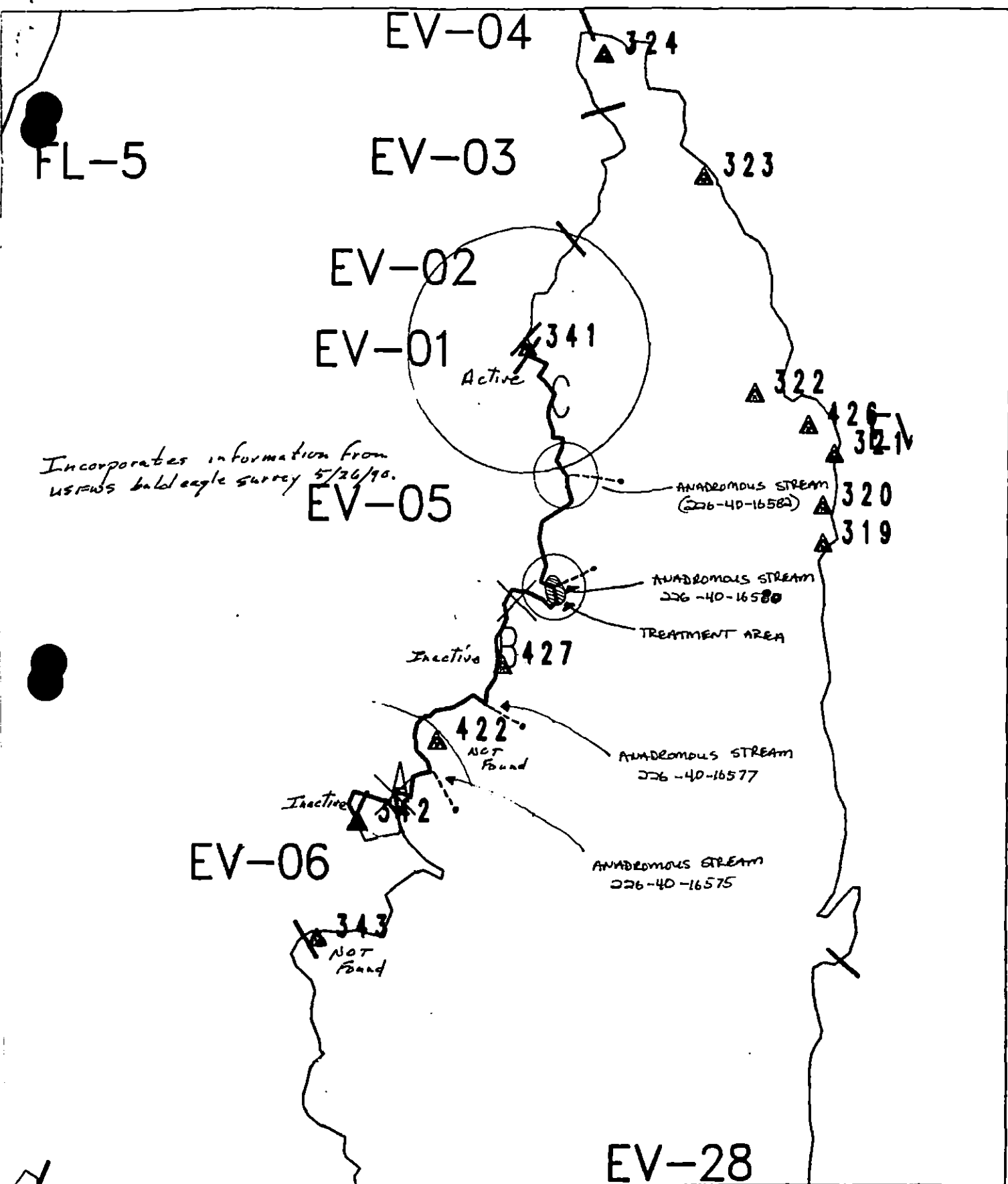
6/4/90

Prepared By:

Anders Meyer

Date

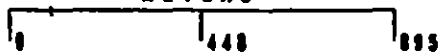
6/3/90



# ECOLOGY MAP <sup>5/30</sup> SEGMENT EV-5

SUBDIVISION C (3 of 3)

METERS



Seabird Colony



Eagle Nest

1 inch = 1469 feet

Exxon Company, USA

Map Key: PMS-EV-5

May 11, 1990

## SHORELINE EVALUATION

SEGMENT ST/ EV-06 SUBDIVISION A (1 OF 1) DATE 4/7/90

**SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:**

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)  
6V Recreation: Anchorages (6/1 to 9/15)  
7II Subsistence area: Deer harvesting (8/15 to 2/28)  
See attached Ecological Constraint sheet for specific constraints and contacts.

**SUBDIVISION ECOLOGICAL CONSTRAINTS:**

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Stream not listed in anadromous catalogue (USGS Seward A-3 Revision 12/89).

SHPO SIGNATURE: Charles E. Palmer DATE: 4/20/90

**OILING CATEGORIZATION:**

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1299 m  
Subsurface Oil Observed: Yes No X Maximum Depth

**RECOMMENDATIONS:**

|                                                              |                                                        |
|--------------------------------------------------------------|--------------------------------------------------------|
| <input checked="" type="checkbox"/> No Treatment Recommended | <input type="checkbox"/> Snare/Absorbent Booms         |
| <input type="checkbox"/> Treatment Recommended               | <input type="checkbox"/> Oil Snares (pom poms)         |
| <input type="checkbox"/> Manual Pickup                       | <input type="checkbox"/> Absorbents (pads, rolls, etc) |
| <input type="checkbox"/> Bioremediation                      | <input type="checkbox"/> Spot Washing: _____ Wands     |
| <input type="checkbox"/> Tarmat: _____ Breakup               | <input type="checkbox"/> _____ Beach Cleaner           |
| <input type="checkbox"/> _____ Removal                       | <input type="checkbox"/> Other (see comments)          |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**TAG COMMENTS:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TAG APPROVAL DATE: 4/20/90.  
 ADEC ART WEINER  
 EXXON AWOY TON  
 NOAA Burl Wescott  
 USCG KENNETH KEANE

FOSC: h y L DATE: 5-1-90

## PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)  
 1B Salmon stream mouth - spawning (7/10 to 8/31)  
 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 Esther Hatchery release (4/15 to 6/1)  
 1E Main Bay Hatchery release (4/20 to 5/10)  
 1F Sawmill Bay Hatchery release (4/15 to 6/1)  
 1G Cannery Creek Hatchery release (4/21 to 6/1)  
 1H Remote release site  
 1I Gill net area (8/7 to 8/31)  
 1J Purse seine area (7/20 to 9/30)  
 1K Purse seine hook-off (7/20 to 9/30)  
 1L Set net sites (8/11 to 7/25)  
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)  
 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 (5/15 to 7/1)  
 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 9/1)  
 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 (8/1 to 9/15)  
 6X Lodge (8/1 to 9/15)  
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)  
 7H-H Finfish harvesting  
 ✓ 7I Deer harvesting (8/15 to 2/28)  
 7J Invertebrate harvesting  
 For Codes 7Z through 7J contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

# FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV-6 SUBDIVISION: \_\_\_\_\_ DATE 4/7/90

USCG NOAA

NAME GARY SHIGENAGA

SIGNATURE *Gary Shigenaga*

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

## COMMENTS

SEGMENT CONSISTED OF ROCKY SHORELINE, SOMETIMES WITH VERTICAL ROCK WALLS. AN EAGLE NEST AND AT LEAST ONE ANADROMOUS STREAM WERE INCLUDED IN THE AREA SURVEYED.  
NO EVIDENCE OF OILING WAS OBSERVED IN THIS SEGMENT.

ADEC

NAME John Hays

SIGNATURE *John Hays*

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

## COMMENTS

*No oil was observed on this segment.*

*We saw a small possibly anadromous stream. (fish bones, jaws) present along side stream. Dry pits in L.M.U. TZ's and in stream bed. No sheering or evidence of oiling in or around stream. No S.S. oiling observed on this segment.*

LAND MANAGER

NAME JAMES A BARKER

SIGNATURE *James A Barker*

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

## COMMENTS

*NO OIL OBSERVED ON THIS REACH SEGMENT*

OG Mike Foget NOAA Gary Shigenaka SEGMENT ST/ EV-06  
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION A (10+1)  
 EXXON Larry Olson ADEC John Hayes CVC TIME 8:45 to 9:30  
 TEAM NO.: 11 TIDE LEVEL: 3.8 to 5.6 DATE 4/7/90  
 EST. SUBDIVISION LENGTH: 1810 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow  
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock 2m rocky back shore w/ snow in supra ITZ  
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: N to S Pocket Dr.  
 SURFACE SEDIMENTS: R 50 % B 25 % C 15 % P 5 % G 5 % S 0 % M 0 % V 0 %  
 SLOPE: Long 20 % Hang 30 % Vert 50 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High  
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1810 m

### SURFACE OIL

| CHARACTER        | DISTRIBUTION |    |    |    | OIL / FILM COLOR |    |    |    |    |    |    |    | IMPACTED ZONES |    |    |   |
|------------------|--------------|----|----|----|------------------|----|----|----|----|----|----|----|----------------|----|----|---|
|                  | IC           | IR | IP | IS | SP               | SR | SW | SL | ST | SB | TL | LR | SU             | UI | MI | U |
| ASPHALT PAVEMENT |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| POOLED           |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| COVER            |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| COAT             |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| STAIN            |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| MOUSSE           |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| PATTIES          |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| TARBALLS         |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| FILM             |              |    |    |    |                  |    |    |    |    |    |    |    |                |    |    |   |
| NO OIL           |              |    |    |    |                  |    |    |    |    |    |    |    | X              | X  | X  | X |

PAVEMENT: H F S 0 sq. m by 0 cm

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? ☒ BR ☐ RW ☐ SL ☐ TL

| OILED DEBRIS | AMOUNT |    |    |
|--------------|--------|----|----|
|              | SM     | MD | LG |
| Logs         |        |    |    |
| Vegetation   |        |    |    |
| Trash        |        |    |    |
| Debris       |        |    |    |

DEBRIS COLLECTED  
☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No. 0

Frames 0

### SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER |    |    |    |    | OILED INTERVAL (cm-cm) | BELOW |    | OIL / FILM COLOR |    |    |    |    |    |    |    | PIT ZONE |    |    |   | A N A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|----|----|---|-------|----------------------|
|         |                | OP                       | OR | OL | OF | NO |                        | VO    | VC | SP               | SR | SW | SL | ST | SB | TL | LR | SU       | UI | MI | U |       |                      |
| 1       | 30             |                          |    |    |    | X  | .                      |       | X  |                  |    |    |    |    |    |    |    | X        |    |    |   |       | C, P, G, S           |
| 2       | 40             |                          |    |    |    | X  | .                      |       | X  |                  |    |    |    |    |    |    |    | X        |    |    |   |       | P, G, S              |
| 3       | 30             |                          |    |    |    | X  | .                      |       | X  |                  |    |    |    |    |    |    |    | X        |    |    |   |       | P, G, S              |
| 4       | 60             |                          |    |    |    | X  | .                      |       | X  |                  |    |    |    |    |    |    |    | X        |    |    |   |       | P, G                 |
| 5       | 10             |                          |    |    |    | X  | .                      |       | X  |                  |    |    |    |    |    |    |    |          | X  |    |   |       | P, G, S              |
| 6       | 30             |                          |    |    |    | X  | .                      |       | X  |                  |    |    |    |    |    |    |    |          |    | X  |   |       | C, P, S, C           |

COMMENTS No oil was observed in this segment. shore zone mostly  
bedrock / boulders w/ a few small pocket cobble & pebble beaches,  
these beaches had snow in the supra ITZ.

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 06/23/93

SEGMENT ST/ EV-06 SUBDIVISION A

## SUBSURFACE OIL (CONTINUED)

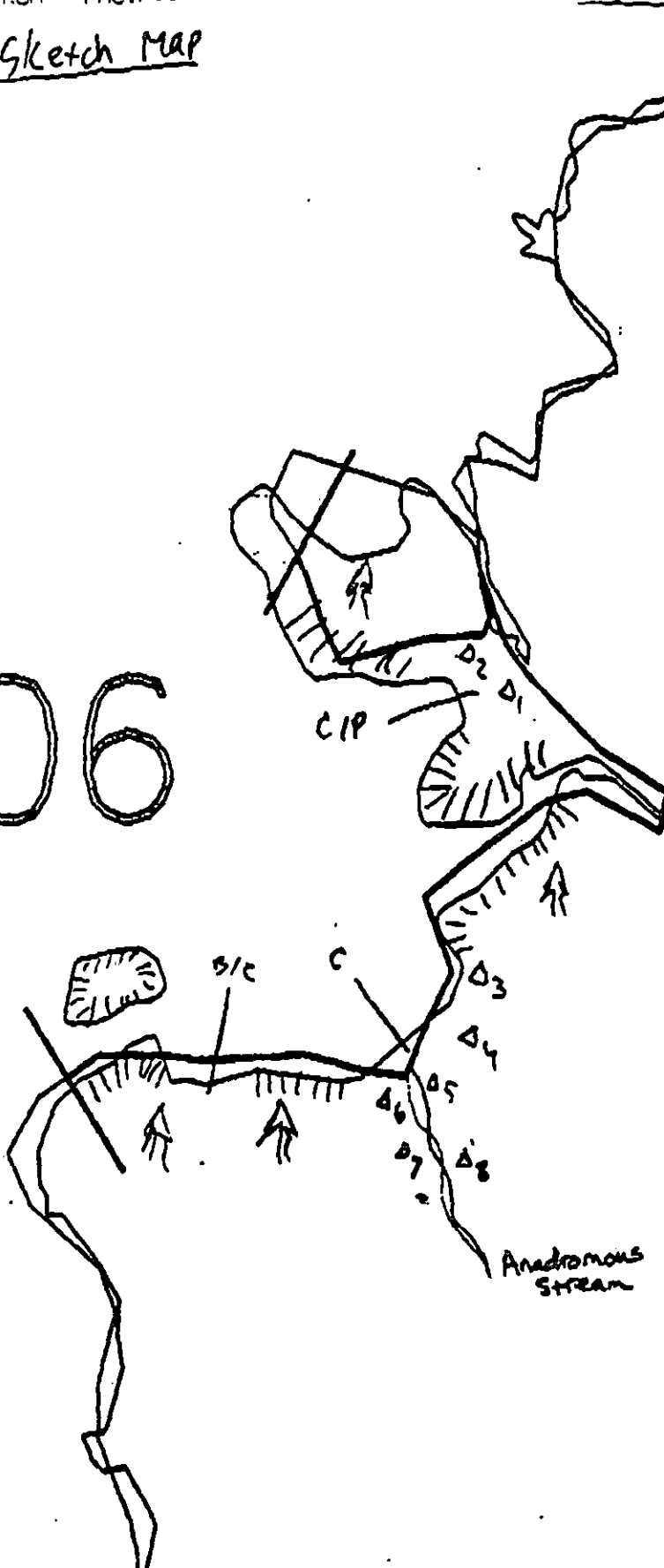
| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER |    |    |    |    | OILED INTERVAL (CM-CM) | BELOW |    | OIL / FILM COLOR |              |              |              |              |              | PIT ZONE |   |   |   | A<br>N<br>A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|--------------|--------------|--------------|--------------|--------------|----------|---|---|---|-------------|----------------------|
|         |                | OP                       | OR | OL | OF | NO |                        | UC    | UC | <del>1</del>     | <del>2</del> | <del>3</del> | <del>4</del> | <del>5</del> | <del>6</del> | SU       | U | M | U |             |                      |
| 7       | 10             |                          |    |    |    | X  | .                      |       | X  |                  |              |              |              |              |              | X        |   |   |   |             | C, P, G              |
| 8       | 20             |                          |    |    |    | X  | .                      |       | X  |                  |              |              |              |              |              | X        |   |   |   |             | P, R                 |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |
|         |                |                          |    |    |    |    | .                      |       |    |                  |              |              |              |              |              |          |   |   |   |             |                      |

COMMENTS

REVIEWED 7W DATE 4/12/90

Sketch Map

V-06



Legend

/// - Boulder / bedrock

A - Forest

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-6A

ADEC Segment Length: 1810m



Map Key: PWS-259

Name: Nike Roger

Date: 4/7/90

Date Entered:

# SHORELINE ECOLOGICAL SUMMARY

REVISION: 09/22/90

Segment ST / EV006 Subdivision A Date (mo / day / yr) 4 / 7 / 90

Time (24 hr) 0850 hrs Biologist Ambrose

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

(B) Overall % cover of biota (% of segment): Dense 10 Moderate 25 Low 65

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

Photographs:  
Roll No. -

Frames -

## BARNACLES

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

## LITTOROPDS

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

## FUCUS

| Dense |    |    | Moderate |    |    | Sparse |    |    | Rare |    |    |
|-------|----|----|----------|----|----|--------|----|----|------|----|----|
| 1U    | 1M | 1L | 1U       | 1M | 1L | 1U     | 1M | 1L | 1U   | 1M | 1L |
| 2     | 2  | 2  | X        | 2  | 2  | 2      | 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

Wildlife Observations/ General Comments: Eagles (see below), 2 otters, 4 gulls, 2 Canada geese, 4 cormorants, 2 Harlequin ducks.

Moderate cover on high-angle beaches; moderate barnacles and littorines on cottle in pocket beaches, but no Fucus or Mytilus.

## Ecological Considerations:

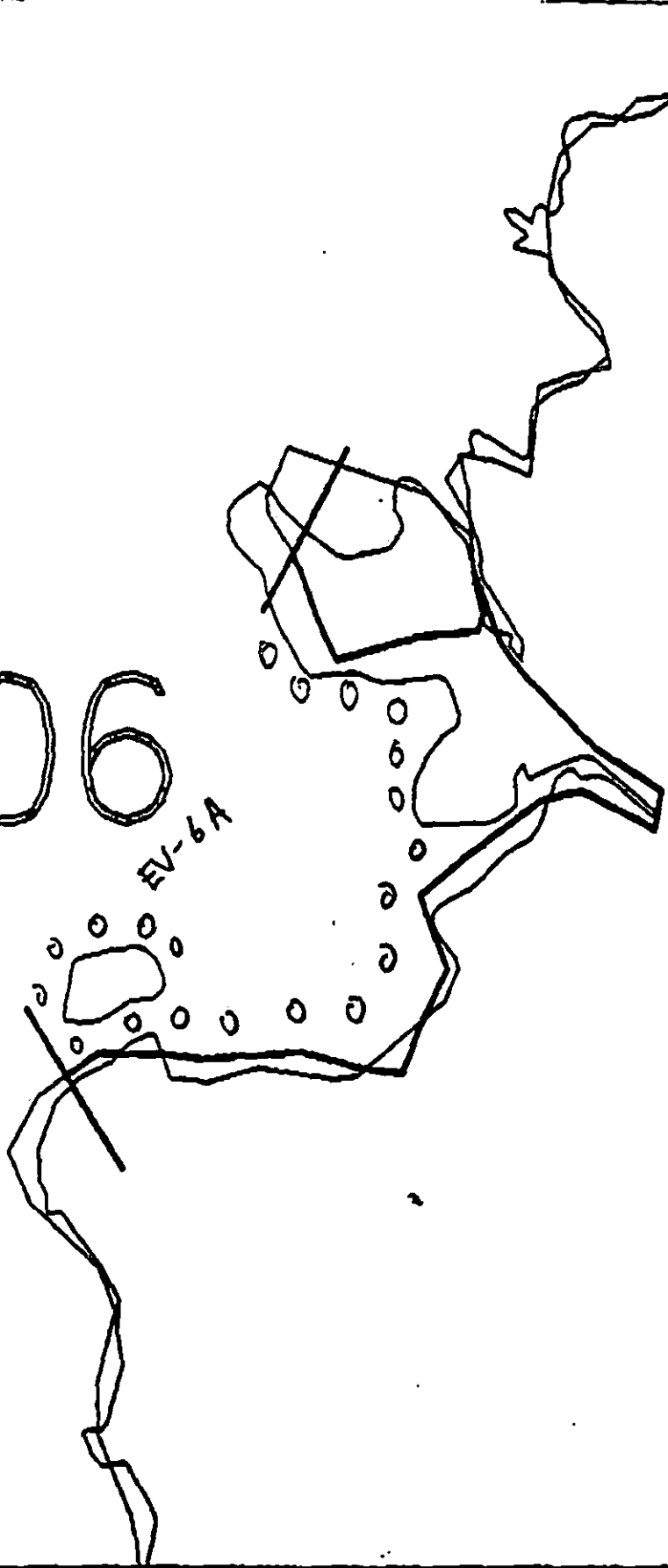
6V, 711, 57-2: One pair of mature bald eagles w/ nest nearby.

anadromous stream occurs in segment (salmon bones found on bank of stream). No oil found nearby.

\*Note: part surveyed by boat.

V-06

EV-6A



XXXX Wide

EV-6A

/// Medium

---- Narrow

ADEC Segment Length: 1810m

TTTT Very Light

0000 No Oil



Map Key: PWS-259

Name: Mike Foget

Date: 4/7/90

Date Entered:

# SHORELINE EVALUATION

SEGMENT ST/ EV-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

## SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16550, 16557, 16561, 16559, 16563.

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

## SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unopened biota and substrate. If treatment is planned, avoid damage to mussel beds.

SHPO SIGNATURE Charles E. Johnson DATE: 4/28/90

## OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 83 m: No Oil 5603 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: 4/26/90

ADEC John Bauer John Bauer

EXXON Andy Andy

NOAA Gary Petrac Gary Petrac

USCG Kenneth Keane Kenneth Keane

FOSC: WJL DATE: 5-12-90

## PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A  
1B

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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

Esther Hatchery release (4/15 to 6/1)

1E

Main Bay Hatchery release (4/20 to 5/10)

1F

Sawmill Bay Hatchery release (4/15 to 6/1)

1G

Cannery Creek Hatchery release (4/21 to 6/1)

1H

Remote release site

1I

Gill net area (6/7 to 8/31)

1J

Purse seine area (7/20 to 9/30)

1K

Purse seine hook-off (7/20 to 9/30)

1L

Set net sites (6/11 to 7/25)

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.

2M

Herring spawning (4/1 to 6/15)

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  
3O, 3Q

Harbor seal and sea lion pupping (5/15 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.

5R

Seabird colony (5/1 to 9/1)

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

5S

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

Restrict all activity to essential minimum, especially air traffic.

5T

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

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

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

6U

Recreation: Tent sites (6/1 to 9/15)

6V

Anchorage (6/1 to 9/15)

6W

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

6X

Lodge (6/1 to 9/15)

6Y

Special use destination

7Z

Subsistence area: Salmon harvesting (5/1 to 9/30)

7H-H

Finfish harvesting

7I

Deer harvesting (8/15 to 2/28)

7J-J

Invertebrate harvesting

For Codes 7Z through 7J-J contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

## FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV-7 SUBDIVISION: DATE 4/7/90

USCG NOAA

NAME GARY SHIGENAKA

SIGNATURE

☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

## COMMENTS

SEGMENT CONSISTED OF A LARGELY ROCKY SHORELINE OCCASIONALLY INTERRUPTED BY POCKET BEACHES, ON THE NORTHERN END OF EVANS ISLAND. LITTLE EVIDENCE OF OILING WAS ENCOUNTERED ON THIS SEGMENT. AT THE FIRST POCKET BEACH FOUND AT THE SOUTH END OF THE SEGMENT, A VERY LIGHT SHEEN WAS FOUND IN ONE PIT DUG INTO THE PEBBLE BEACH, BUT NO OTHER SIGN OF OIL WAS FOUND IN THIS PIT OR ANY OTHER. THE ONLY OTHER OILING SEEN IN THE SEGMENT WAS A BAND OF ASPHALT IN THE UPPER INTERSTICIAL ZONE BETWEEN TWO ANADROMOUS STREAMS, MEASURING APPROXIMATELY 1 M WIDE BY ABOUT 50 M IN LENGTH. THE NATURE OF THE DISTRIBUTION WAS DISCONTINUOUS, AND VARIED FROM WEATHERED STAIN TO COVER. MUCH OF THE SUPRATIDAL ON BEACHES OF THE SEGMENT WAS COVERED BY SNOW.

ADEC

NAME

John Hayes

SIGNATURE

☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

## COMMENTS

Oiling observed on this segment consisted of an asphalt band approx 1-50m. This band was between two Andromeda streams (flowing in streambeds) although it was approx 40-60m from stream banks. No surface or subsurface contamination was found in or near stream. If the And-Sea team is in this area these streams should be assessed for oiling although marginal is within 100yds. Also observed was a very light translucent sheen in the ripples on one of the pocket beaches, this was isolated as nearby pits revealed no sheen.

Treatment suggested is to have AND-SEA look at streams and make recommendations although this is not a priority area.

## LAND MANAGER

NAME JAMES A BARKER

SIGNATURE

James A Barker

☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

## COMMENTS

TEAM OBSERVED INTERMITTENT PATCHES AND ASPHALT BAND 1-10M LENGTHS, NEAR STREAM BANKS, DUE TO THE SENSITIVITY OF THESE STREAMS BAKES SHOVELS SHOULD BE USED AS CLEAN UP AGENT. NOTE THAT AND-SEA SHOULD MAKE RECOMMENDATIONS CONCERNING DECONTAMINATION.

## SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Mike Foget NOAA USGS Gary Shigano SEGMENT ST/ EV-07  
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION A (1041)  
 EXXON Larry Olson ADEC John Hayes TIME 16:00 to 17:50  
 TEAM NO.: 11 TIDE LEVEL: 5.5 to 1.0 DATE 4/7/90  
 EST. SUBDIVISION LENGTH: 5429 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow  
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock snow in the SUPRA FTZ  
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N  
 SURFACE SEDIMENTS: R 60 % B 20 % C 10 % P 5 % G 5 % S 0 % M 0 % V 0 %  
 SLOPE: Lang 15 % Hang 25 % Vert 60 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High  
 OIL CATEGORY LENGTH: W 20 m M 0 m N 0 m VL 30 m NO 5409 m

## SURFACE OIL

| CHARACTER        | DISTRIBUTION |   |   |   | OIL / FILM COLOR |    |    |    | IMPACTED ZONES |    |    |    |
|------------------|--------------|---|---|---|------------------|----|----|----|----------------|----|----|----|
|                  | R            | B | P | S | SL               | BR | RW | GY | SL             | DR | TL | LG |
| ASPHALT PAVEMENT |              |   |   |   |                  |    |    |    |                |    |    |    |
| POOLED           |              |   |   |   |                  |    |    |    |                |    |    |    |
| COVER            |              |   |   |   |                  |    |    |    |                |    |    |    |
| COAT             |              |   |   |   |                  |    |    |    |                |    |    |    |
| STAIN            |              |   |   |   |                  |    |    |    |                |    |    |    |
| MOUSSE           |              |   |   |   |                  |    |    |    |                |    |    |    |
| PATTIES          |              |   |   | X |                  | X  |    |    |                |    | X  |    |
| TARBALLS         |              |   |   |   |                  |    |    |    |                |    |    |    |
| FILM             |              |   |   |   |                  |    |    |    |                |    |    |    |
| NO OIL           |              |   |   |   |                  |    |    |    |                | X  | X  | X  |

PAVEMENT: H F 5 2 sq. m by 3 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. —Frames —

## SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER |    |    |    |    | OILED INTERVAL (CM-CH) | BELOW |    | OIL / FILM COLOR |    |    |    |    |    |    |    | PIT ZONE |   |   |   | A N A | SUBSURFACE SEDIMENTS           |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|---|---|---|-------|--------------------------------|
|         |                | OP                       | OR | OL | OF | NO |                        | UO    | UC | SL               | BR | RW | GY | SL | DR | TL | LG | BU       | U | M | L |       |                                |
| 1       | 30             |                          |    |    |    | X  | -                      |       | X  |                  |    |    |    |    |    |    |    | X        |   |   |   |       | P, G (H <sub>2</sub> O @ 20cm) |
| 2       | 60             |                          |    |    |    | X  | -                      |       | X  |                  |    |    |    |    |    |    |    | X        |   |   |   |       | P, G (H <sub>2</sub> O @ 30cm) |
| 3       | 20             |                          |    |    |    | X  | -                      |       | X  |                  |    |    |    |    |    |    |    |          | X |   |   |       | P, G                           |
| 4       | 20             |                          |    |    |    | X  | -                      |       | X  |                  |    |    |    |    |    |    |    |          |   | X |   |       | P, G                           |
| 5       | 25             |                          |    |    |    | X  | -                      |       | X  |                  |    |    |    |    |    |    |    |          |   |   | X | X     | M (H <sub>2</sub> O @ 10cm)    |
| 6       | 30             |                          |    |    |    | X  | -                      |       | X  |                  |    |    |    |    |    |    |    | X        |   |   |   |       | P, S, M                        |

## COMMENTS

Most of the segment was clean w/ the exception of a 1m x 30.  
 CT/S asphalt patties distribution in the 1:27Z (see map). This is located  
 on a low angle D/C beach. The rest of the segment consists mostly of  
 Bedrock/Boulders with some low angle pocket Cobble beaches.

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 03/22/90

SEGMENT ST/ EV-7 SUBDIVISION A

## SUBSURFACE OIL (CONTINUED)

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER |    |    |    |    | OILED INTERVAL (CM-CM) | BELOW |    | OIL / FILM COLOR |          |          |          |          |    |   |   | PIT ZONE |   |  |  | A<br>N<br>A | SUBSURFACE SEDIMENTS |                                |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----------|----------|----------|----------|----|---|---|----------|---|--|--|-------------|----------------------|--------------------------------|
|         |                | OP                       | OR | OL | OF | NO |                        | UO    | UC | SB<br>BR         | DB<br>RW | GY<br>SL | DB<br>TL | LB<br>LR | SU | U | M | U        |   |  |  |             |                      |                                |
| 7       | 20             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   | X |          |   |  |  |             |                      | G, R                           |
| 8       | 30             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   | X |          |   |  |  |             |                      | P, G                           |
| 9       | 15             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   |   |          | X |  |  |             |                      | P, G (H <sub>2</sub> O @ 10cm) |
| 10      | 20             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   | X |          |   |  |  |             |                      | P, G, S                        |
| 11      | 25             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   | X |          |   |  |  |             |                      | P, G                           |
| 12      | 20             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   | X |          |   |  |  |             |                      | P, G                           |
| 13      | 15             |                          |    |    |    | X  | -                      |       | X  |                  |          |          |          |          |    |   |   |          | X |  |  |             |                      | G, M (H <sub>2</sub> O @ 5cm)  |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |
|         |                |                          |    |    |    |    | -                      |       |    |                  |          |          |          |          |    |   |   |          |   |  |  |             |                      |                                |

COMMENTS

REVIEWED 7W DATE 4/13/90

(X)

OG Mike  
 SEGMENT ST/ EV-7  
 SUBDIVISION A  
 DATE 4 / 7 90

# SKETCH MAP

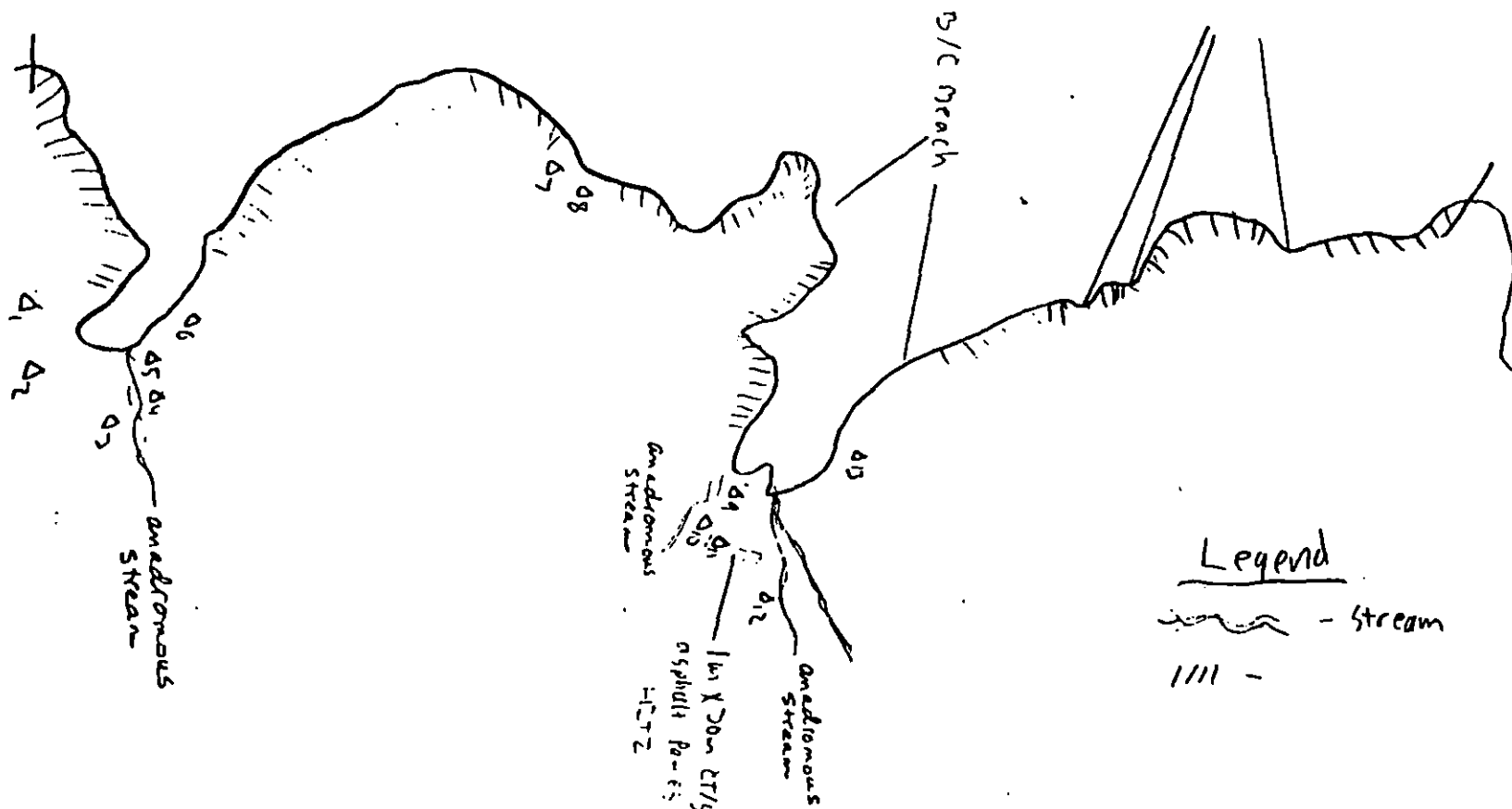


## CHECKLIST

- \_\_\_ N Arrow
- \_\_\_ Approx. Scale
- \_\_\_ Seg/Sub Bndry
- \_\_\_ Oil Dist.
- \_\_\_ Width
- \_\_\_ Length
- \_\_\_ % Cover
- \_\_\_ Substrate Character
- \_\_\_ Est. H/W/L/WL
- \_\_\_ SSI
- \_\_\_ Profile Location(s)
- \_\_\_ Profile(s)
- \_\_\_ Pnt Location(s)
- \_\_\_ Photo Location(s)

## LEGEND

- 1 Δ  
Pnt - No Subsurface Oil
- 2 Δ<sup>+</sup>  
Pnt - 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



Legend  
 ~~~~~ - Stream  
 /// -

Oil Character Length (m): AP - PO - CV - CT - ST - MS - PT 30 TB - FL - NO 5404

REVISED 2/90

Bio: page 1 of 2

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST / EV007 Subdivision A Date (mo / day / yr) 4 / 7 / 90**DRAFT**Time (24 hr) 1545 hrs Biologist Ambrose

- (A) Substrate type and % of segments:
 (1) Bedrock 60 (2) Boulder 20 (3) Cobble 10 (4) Pebble 5 (5) Sand 5 (6) Silt —
- (B) Overall % cover of biota (% of segment): Dense 15 Moderate 45 Low 50
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:

Roll No. —Frames —

BARNACLES

| Dense | | | Moderate | | | Sparse | | | Rare | | | NOT PRESENT |
|-------|----|----|----------|----|----|--------|----|----|------|----|----|-------------|
| 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 | 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 | |

MYTILUS

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

GASTROPODS

| Dense | | | Moderate | | | Sparse | | | Rare | | | NOT PRESENT |
|-------|----|----|----------|----|----|--------|----|----|------|----|----|-------------|
| 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | X | 2 | X | 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 | |

FUCUS

| Dense | | | Moderate | | | Sparse | | | Rare | | | NOT PRESENT |
|-------|----|----|----------|----|----|--------|----|----|------|----|----|-------------|
| 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | |
| 2 | 2 | 2 | X | X | X | 2 | 2 | 2 | 2 | 2 | 2 | |
| 3 | 3 | 3 | X | X | X | X | 3 | 3 | X | 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 | |

Wildlife Observations/ General Comments: 1 otter, 1 deer (plus deer tracks (2 sets) and scat), 13 Barrow's goldeneyes, 6 Hairywood ducks, 2 cormorants. Many sections (esp. high angle beaches and walls) have moderate density, but cover is sparse on cobble beaches.

Ecological Considerations:

1B, 711, 6V: 3 (possibly four) anadromous streams (see next page)

* Note: part surveyed by boat.

Ambrose

Segment EV007A

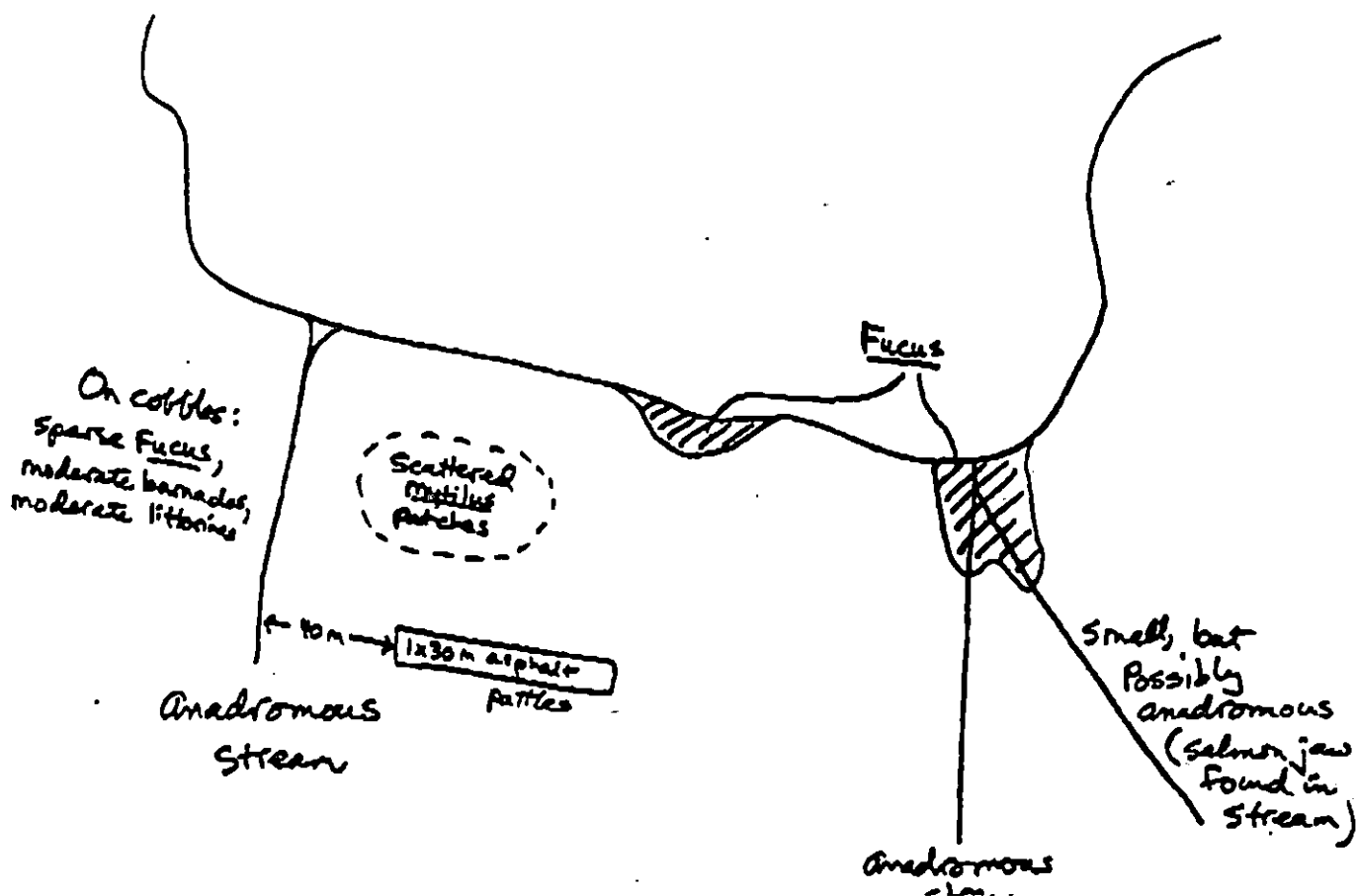
Bio: page 2 of 2

4/7/90

Three anadromous streams are in EV007A, as identified by salmon bones found in or nearby the streams.

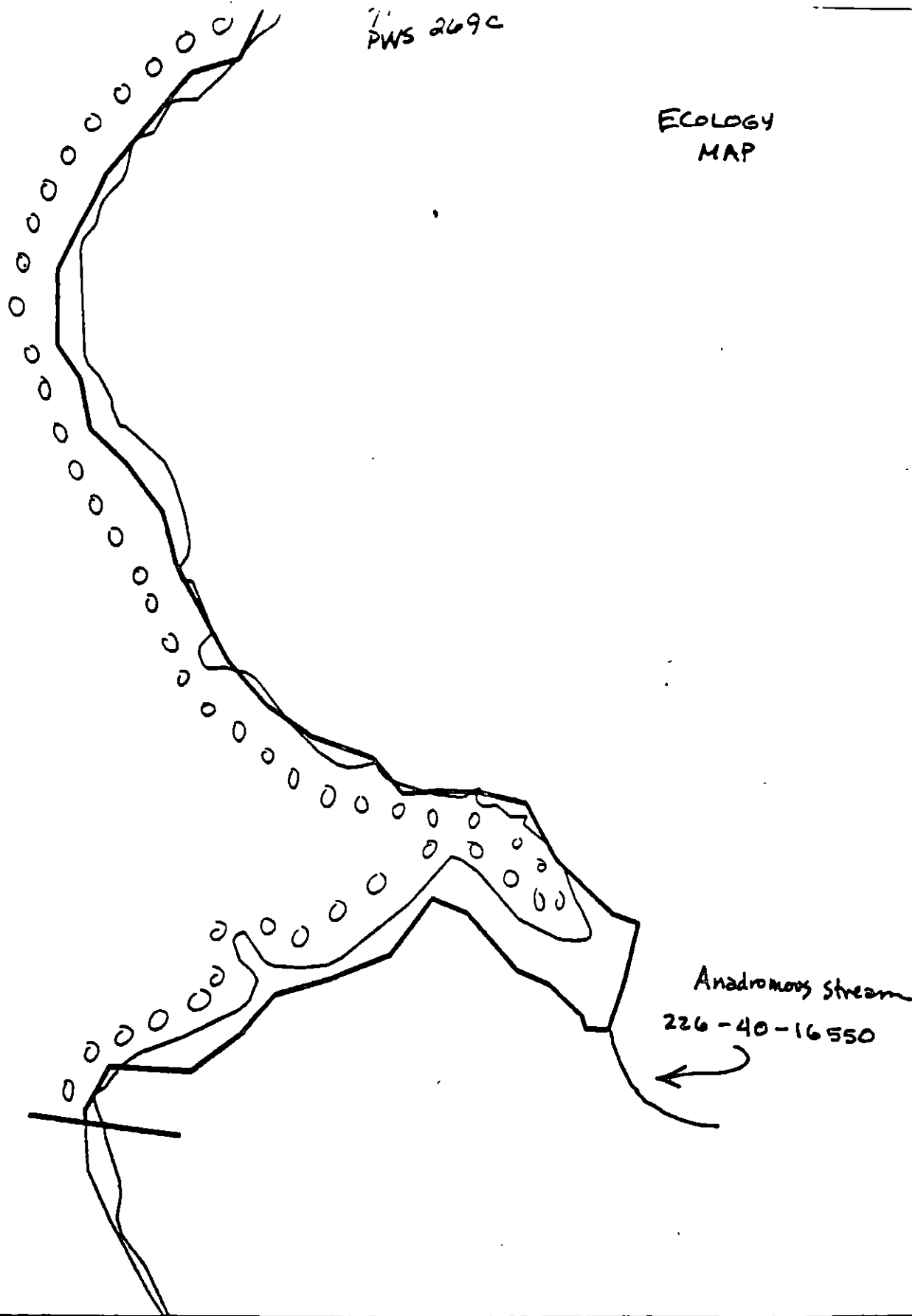
A+ The first stream there was an extensive beach comprised of cobbles and pebbles. There were some barnacles on cobbles, and Fucus has accumulated (as drift) near the mouth of the stream, but the beach was mostly barren. No oil was found nearby.

Two (and possibly three) anadromous streams were in one cove, as noted below. A band of asphalt was found 40m from one stream, with a scattered mussel bed below.



PWS 269C

ECOLOGY MAP



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

OOOO No Oil

EV-7

ADEC Segment Length: 5439m



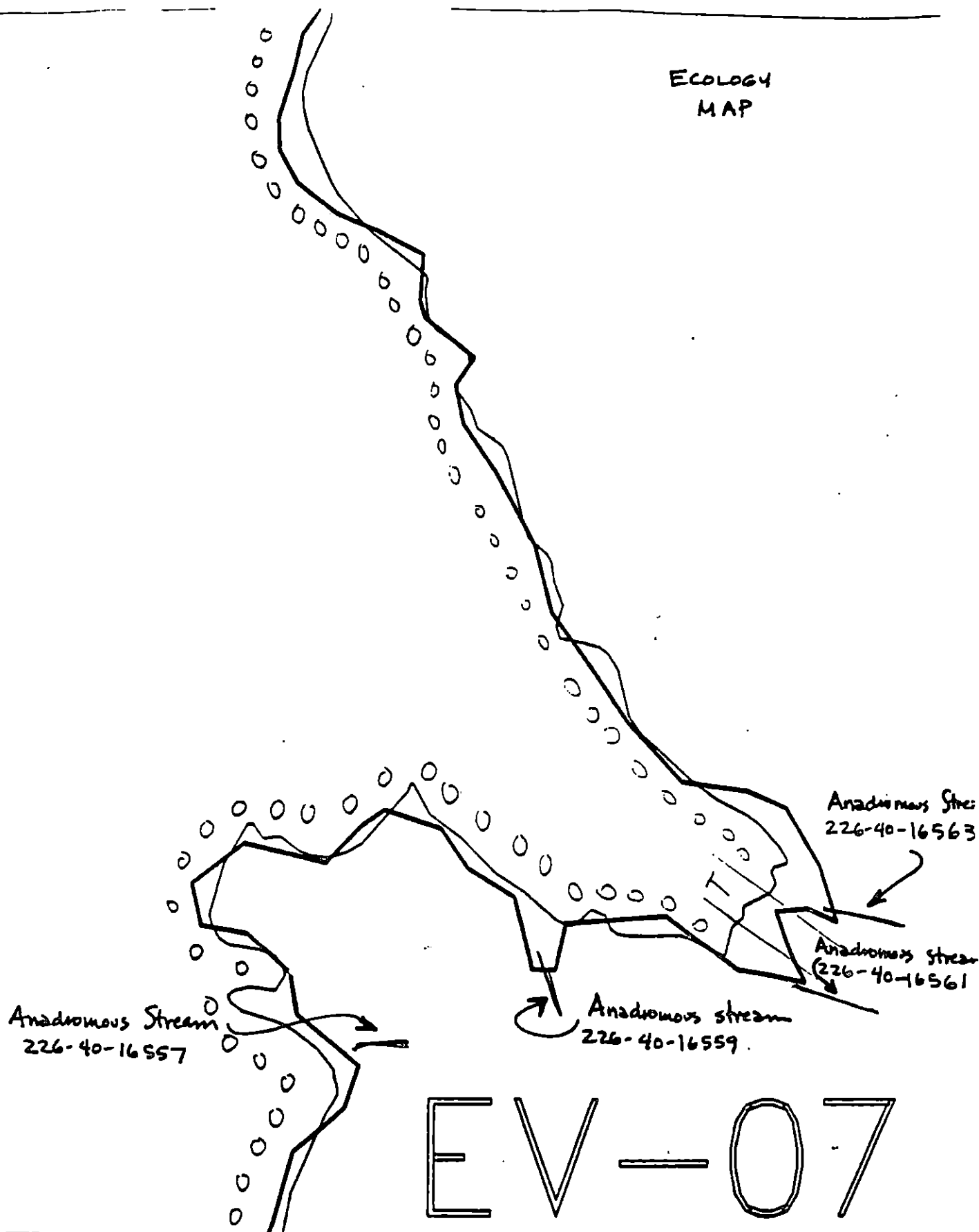
Map Key: PWS-269a

Name: Mike Foyer

Date: 4/7/90

Date Entered:

ECOLOGY MAP



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-7

ADEC Segment Length: 5439m

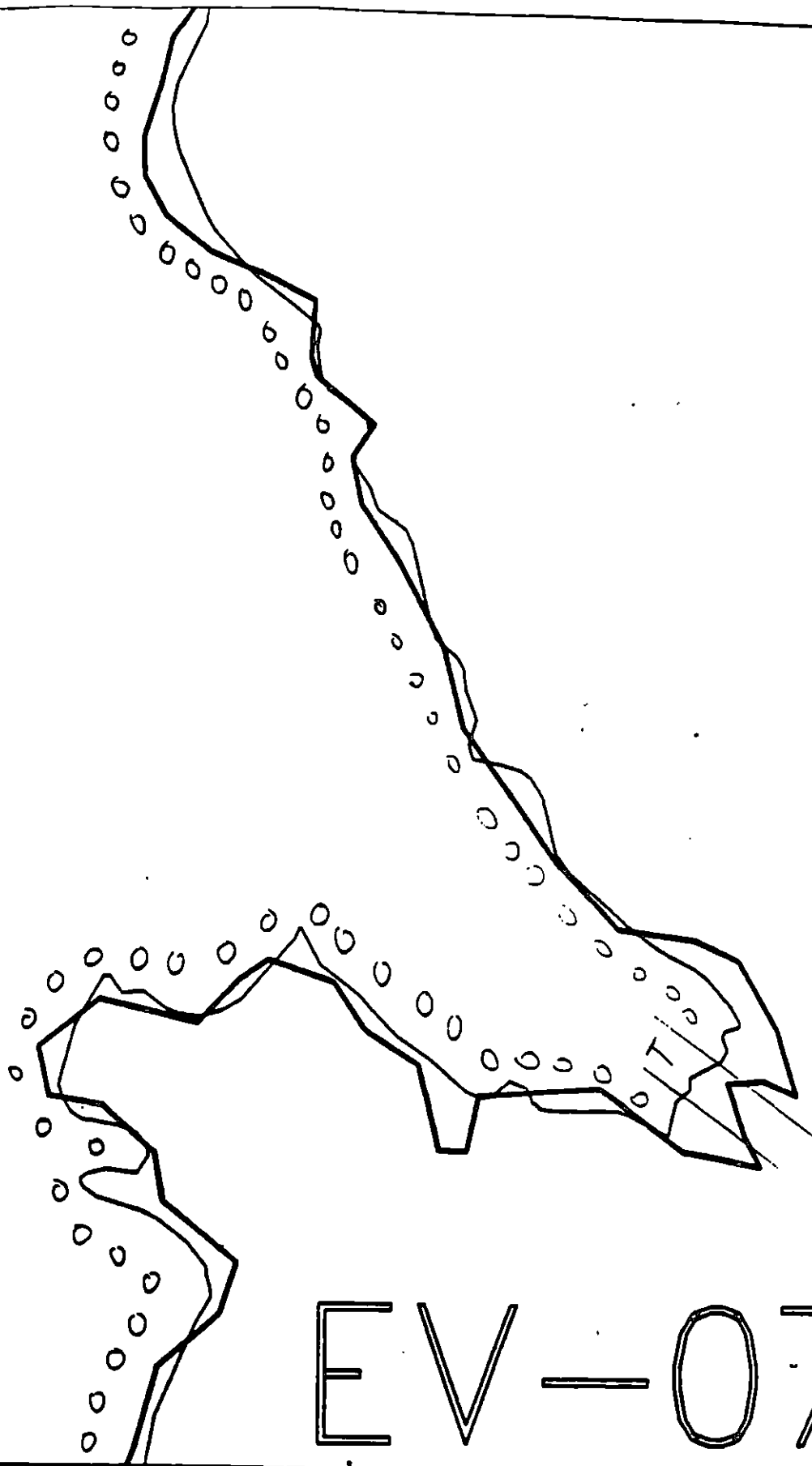


Map Key: PWS-269c

Name: Mike Fogel

Date: 4/7/90

Data Entered:



EV-07

XXXX Wide

//// Medium

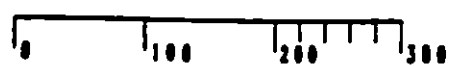
--- Narrow

TTTT Very Light

OOOO No. 1

EV-7

ADEC Segment Length: 5439m



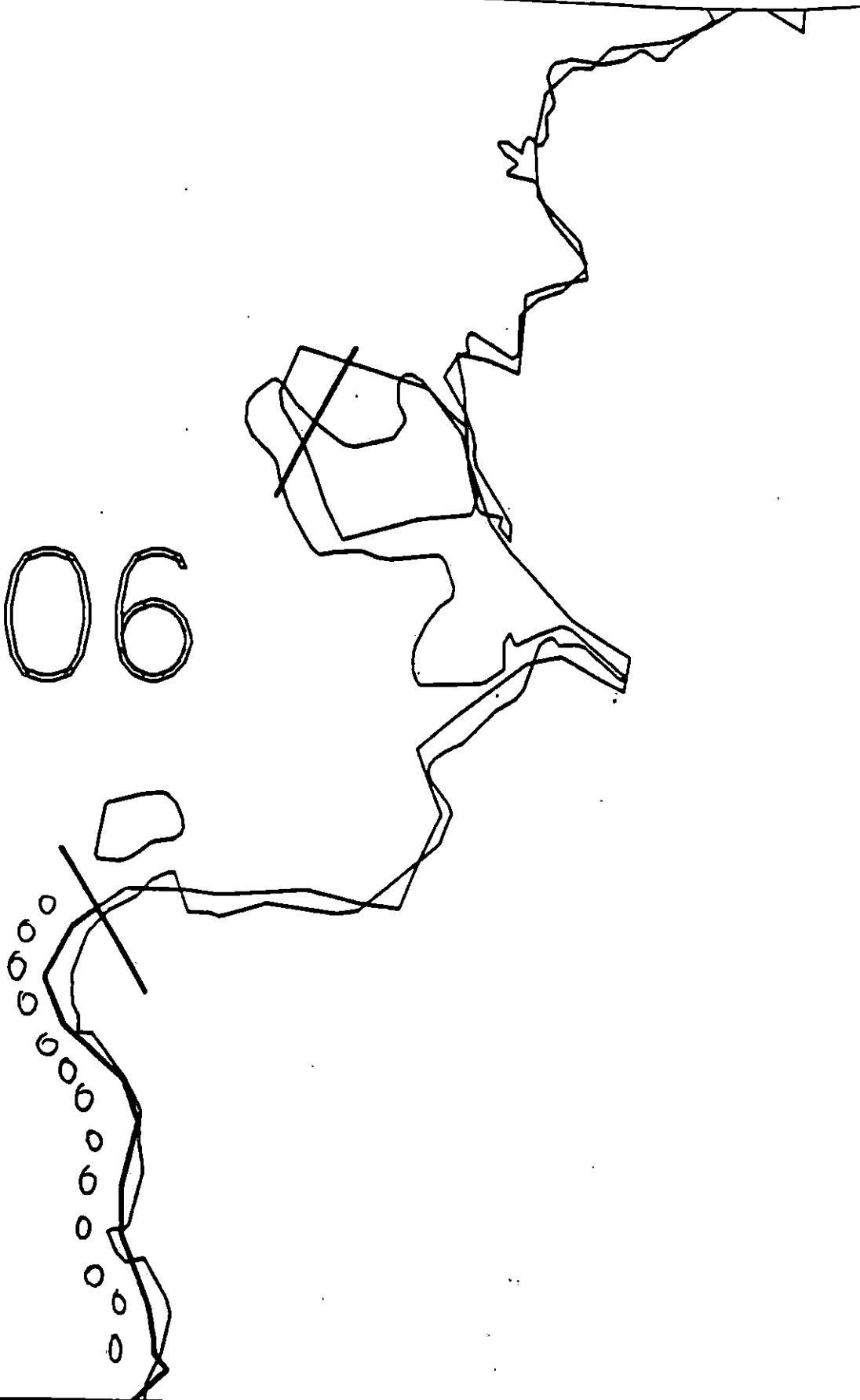
Map Key: PWS-269c

Name: Mike Fogel

Date: 4/7/90

Date Entered:

EV-06



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

OOOO No Data

EV-7

ADEC Segment Length: 5439m



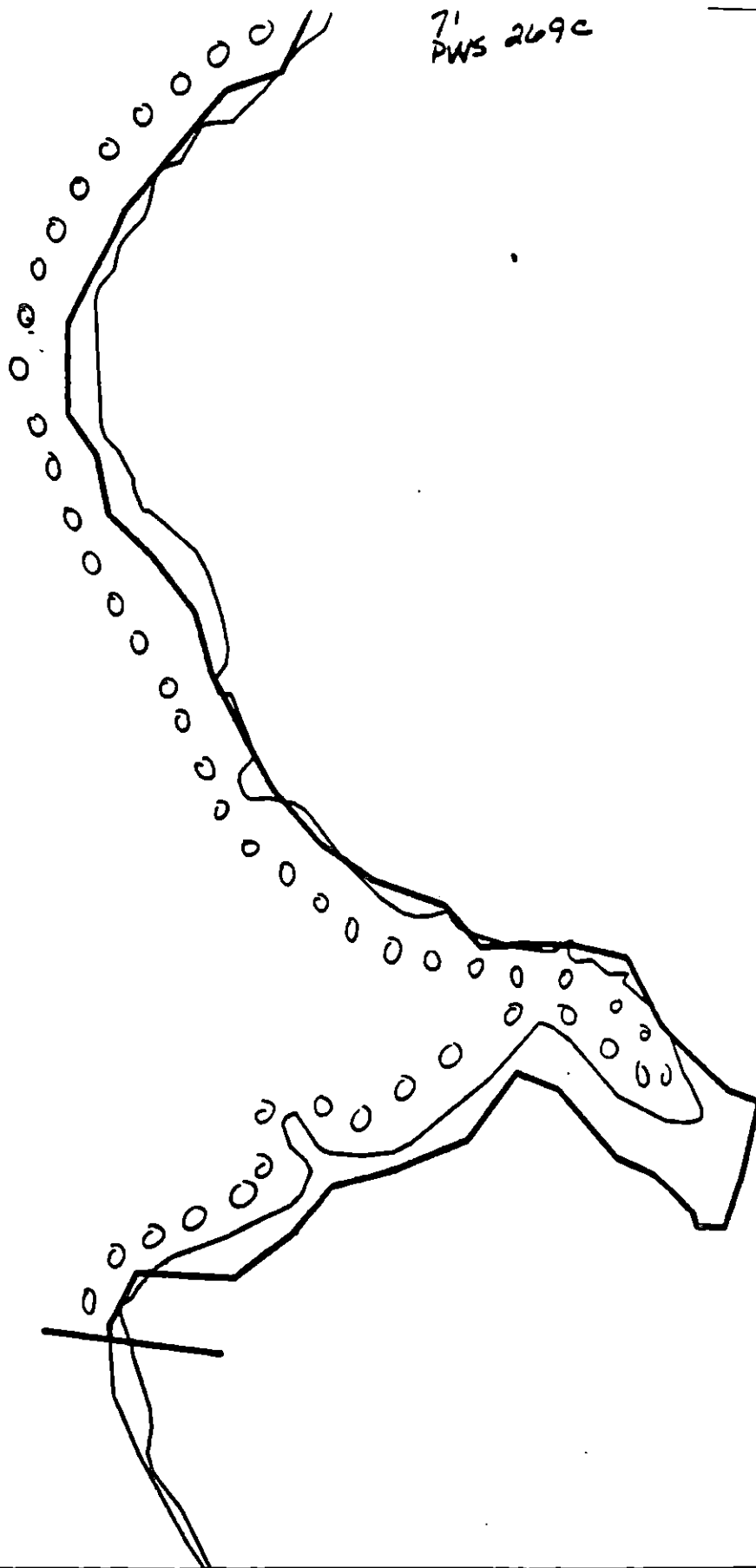
Map Key: PWS-269e

Name: Mike Fogel

Date: 4/7/90

Data Entered:

71
PWS 269c



XXXX Wide
//// Medium

---- Narrow

TTTT Very Light

OOOO No Oil

EV-7

ADEC Segment Length: 5439m



Map Key: PWS-269c

Name: Mike Foyer

Date: 4/7/90

Data Entered:

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-07 STREAM NO: 226-40-16559 DATE 4/22/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream no's: 226-40-16550 (P, 12/89), 226-40-16563 (Ps, 12/89), 226-40-16557 (Ps, 12/89), 226-40-16561 (Ps, 12/89)

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

6V Recreation: Anchorages (6/1 to 9/15)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Subject stream is located within Subdivision A (1 of 1).

SHPO SIGNATURE: J. David McPherson DATE: 5/8/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/7/90

ADEC Art Weimer Art Weimer

EXXON Andy Galt Andy Galt

NOAA Gary Petro Gary Petro

USCG G.A. Reiter G.A. Reiter

FOSC: W L DATE: 5-8-90

✓ 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

✓ 1B Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

✓ C 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)

1E Main Bay Hatchery release (4/20 to 6/15)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E

ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (8/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (8/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

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 Evelyn Biggs 424-3235

Harbor seal and sea lion pupping (5/15 to 7/1)

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

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

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

ADF&G Don Calkins 267-2403

SR Seabird colony (5/1 to 9/1)

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Rothy 267-2206

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation:

Tent sites (8/1 to 9/15)

6V Anchorages (8/1 to 9/15)

6W Forest Service cabins (8/1 to 9/15)

6X Lodge (8/1 to 9/15)

6Y Special use destination

7Z Subistence area: Salmon harvesting (5/1 to 9/30)

7-H1 Finfish harvesting

7-H2 Deer harvesting (8/15 to 2/28)

7-H3 Invertebrate harvesting

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

6/55

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EV 007 SUBDIVISION: 16 55 9 DATE 4/22/90

USCG

NAME

Cmdr McNamehan

SIGNATURE

[Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

ADFC

ABEC

NAME

Michael Wiedmer

SIGNATURE

[Signature]☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

LAND MANAGER

NAME

No Team member

SIGNATURE

[Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

4/53

ASC # 226-40-16599

Segment EV-007

Observations The only observed oil impacts at this site were 3 to 4 widely scattered tar splatters and one asphalt chunk 8 cm in diameter.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ EV007
 BIO MICHAEL FAWCETT LAND REP TEA CROWE ADFG STRATA 226-40-16591 OF
 EXXON GUS GARCIA ADFG MIKE VERNER TIME 18:00 19:20
 TEAM NO. 15 TIDE LEVEL 1 FT DATE 4-2 / APR / 90
 EST. SUBDIVISION LENGTH: 4.0 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 10 % C 45 % P 45 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 2.5 % Hang 2.5 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ H
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 4

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|---|---|---|----------------|---|---|---|
| | S | S | S | S | 1 | 2 | 3 | 4 | 5 | SU | U | U | U |
| ASPHALT PAVEMENT | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | |
| NO OIL | NONE | | | | | | | | | X | 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 | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

Did You Col DEBRIS
☐ YES ☒ NO

TYPE 0
 #BAGS 0

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL | BELOW | OIL / FILM COLOR | | | | | PIT ZONE | | | | A N A | SHEEN (Y/N) | Y | SURFAC SUBSURF/ SEDIMENT |
|---------|----------------|--------------------------|----|----|----|----|----------------|-------|------------------|---|---|---|---|----------|---|---|---|-------|-------------|---|--------------------------|
| | | OP | OR | OL | OF | NO | | | 1 | 2 | 3 | 4 | 5 | SU | U | U | U | | | | |
| 1 | 70 | | | | | X | . | | | | | | | X | | | | | N | | PICK |
| 2 | 25 | | | | | X | . | | | | | | | X | | | | | N | | PICK |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |

COMMENTS

REVIEWED JW DATE 4-24-90

13/53

Segment EV 007
Stream 226-40-16559
Ecological Summary

4/22/90
Michael Fawcett

This small stream has vertical bedrock walls at the mouth on the east side, and a boulder/cobble/gravel beach on the west side. There are very dense barnacle populations on the bedrock from LTZ to UT, and on the cobbles and boulders in LTZ. Two harbor seals swimming nearby.
No cleanup needed.

M. Fawcett

7/55

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS SS SS TS AVS SON MMS PTA2 REGION: PRS XP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4/22/9015 HIGH TIDE TIMES: 1205 / -21 TEAM RECORDED: M. W. B. D. N. E. R.4 START TIME: 165016 HIGH TIDE HTS: 10.0' / -22 OBSERVERS: T. C. R. O. W. S.5 STOP TIME: 170517 LOW TIDE TIMES: 0603 / 181423 AGENCY: ADFG6 SEGMENT #: EV-00718 LOW TIDE HTS: 1.0' / 0.7'24 PHOTOS TAKEN: Y (N)7 STATION #: 226-40-1659

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: _____

20 USED QUAD: SEWARD A3

SCALES: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y (N) Number: _____12 SOURCE: Map Loran

Oil: _____

13 LOCATION: KTUA BAY, WEST SIDE EVANS IS.

Sediment: _____

14 DESCRIPTION: _____

Biological: _____

Water: _____

EXTENT OF OIL

| | SHORELINE | | | | STREAM | | | |
|----------------------|-----------|----|---|------|--------|---|---|---|
| | L | V | M | S | L | V | M | S |
| 27 SURFACE COVERAGE | 100 | 60 | | 40.1 | 60 | 2 | | 0 |
| 28 SURFACE THICKNESS | | | | | | | | |
| 29 PENETRATION | | | | | | | | |

30 OVERALL OIL IMPACT: N (V) L M H36 CATALOGED ANAD. FISH SKELETS Y (N)31 OIL TYPE: Poiled Mousse Tar Asphalt Sticky Slain37 CATALOG # 226-40-165932 OILED DEBRIS: Y (N)

38 STREAM NAME: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Grass39 OIL IN STREAM BED? Y (N)34 WAVE EXPOSURE: High Moderate Low40 OIL ON STREAM BANKS? Y (N)35 SUBSTRATE TYPE: Bedrock 10 Boulder 20 Cobble 3541 OIL ON BEACH ADJACENT TO MOUTH (within 50 meters) Y (N)42 OIL WITHIN 1 MILE OF STREAM Y (N)Gravel 35 Sand _____ Mud/silt _____

Where: _____

43 ANAGROUS FISH PRESENT? Y (N)

FISH PRESUMED

44 ANAGROUS FISH OBSERVATION

Species Aerial Ground

| | | |
|--|--|--|
| | | |
| | | |
| | | |

COMMENTS: 3-4 TAR SPLATTERS WIDELY SCATTEREDTHROUGH INTERTIDAL ZONE. EXTREMELY LOW IMPACT OBSERVED.

48 PHOTOLOG

226-40-16539

Jue

STATION(S)

DESCRIPTION

RECOMMENDATIONS: NO TREATMENT REQUIRED

I agree with recommendations, M. A. Fawcett

48 OIL DISTRIBUTION DIAGRAM

3-4 TAR SPATTERS (MAXIMUM DIAMETER
10 CM) FOUND IN ENTIRE INTERTIDAL
ZONE

VEGETATION

BEDROCK

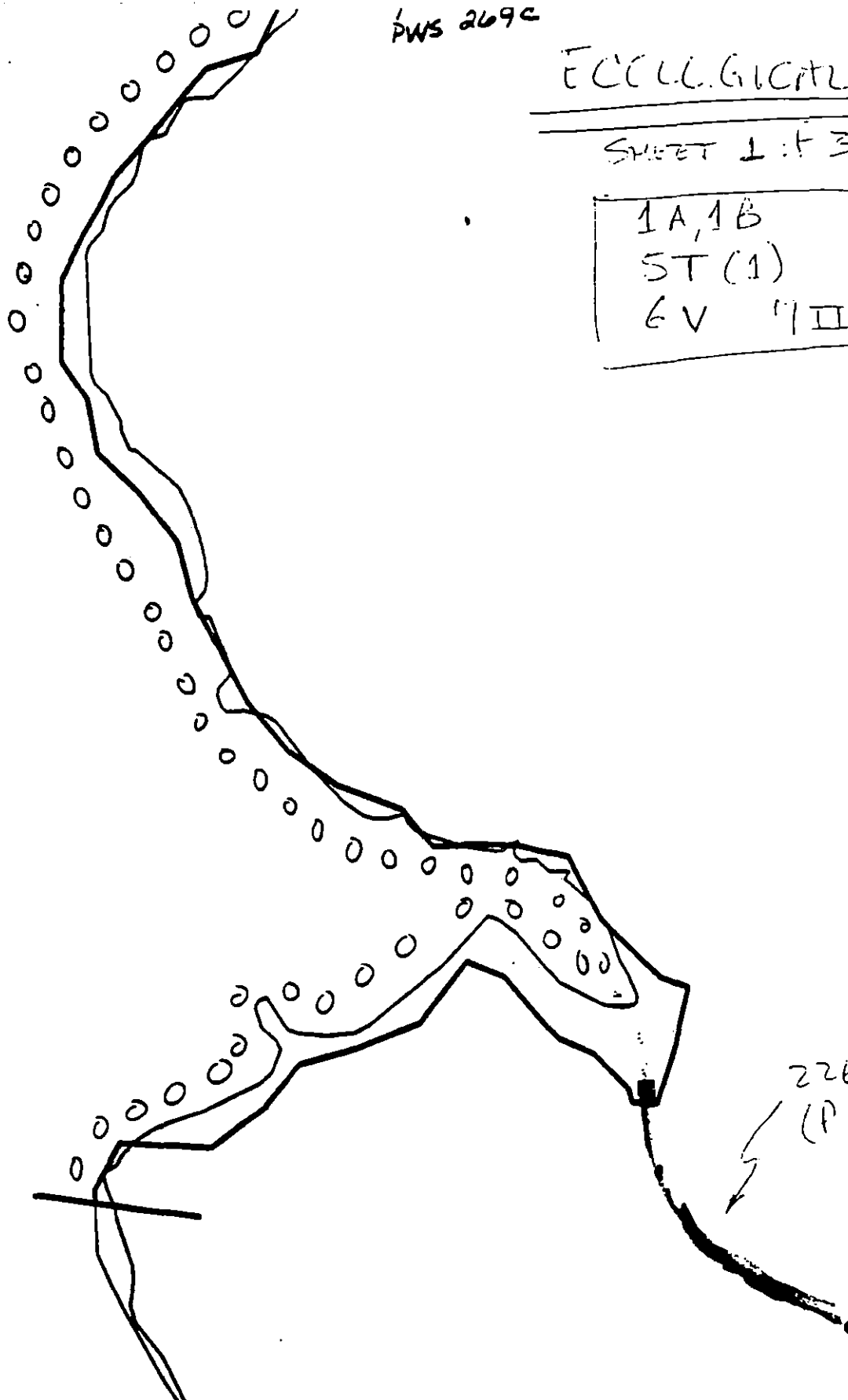
- VEGETATION

PWS 269c

ECOLOGICAL PLAN

SHEET 1 OF 3

1A, 1B
ST (1)
GV 11



226-40-1450
(P12/E1)

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-7

ADEC Segment Length: 5439m



METERS



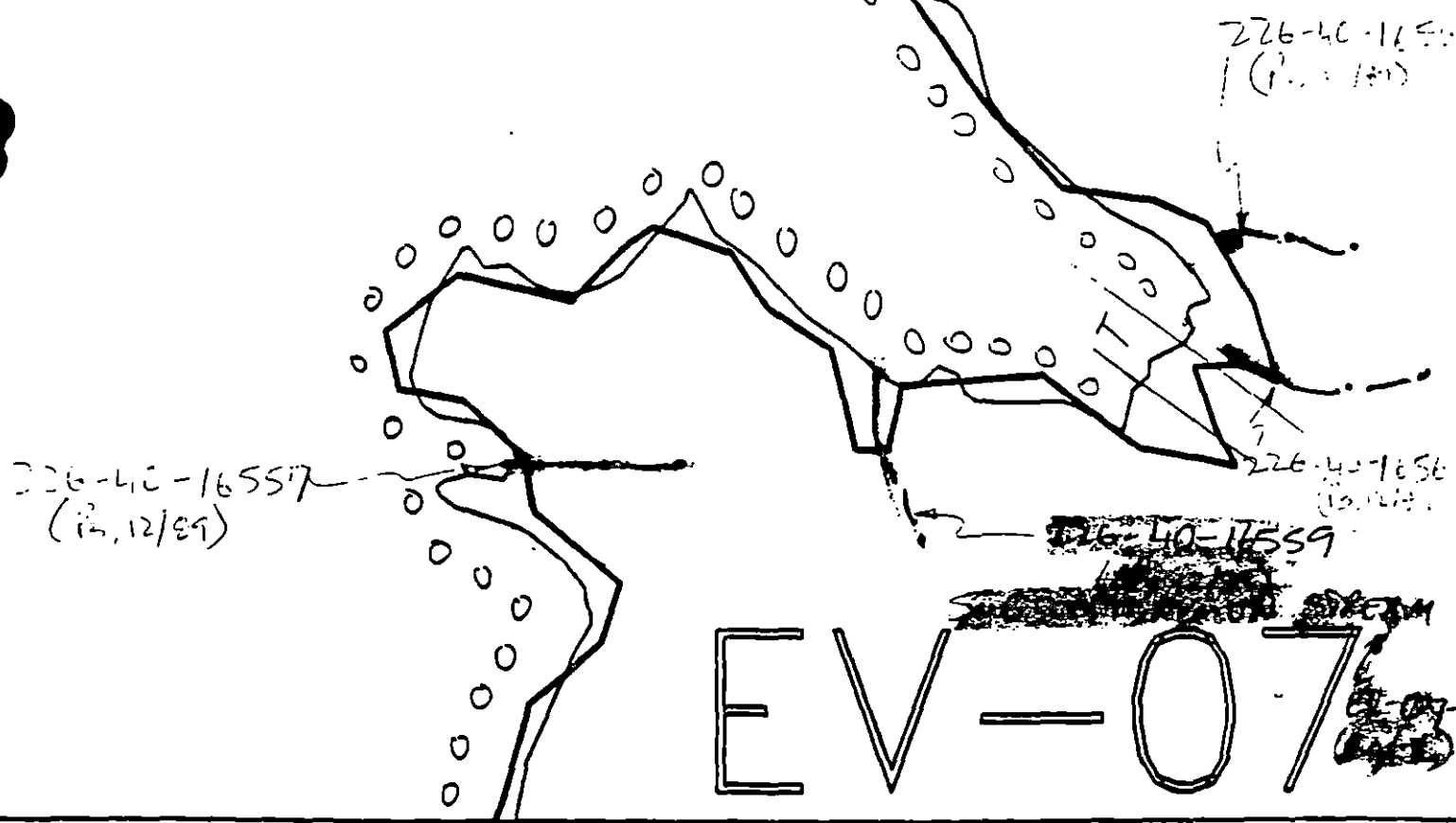
Map Key: PWS-269c

Name: Mike Foyet

Date: 4/7/90

Date Entered:

226-40-1655



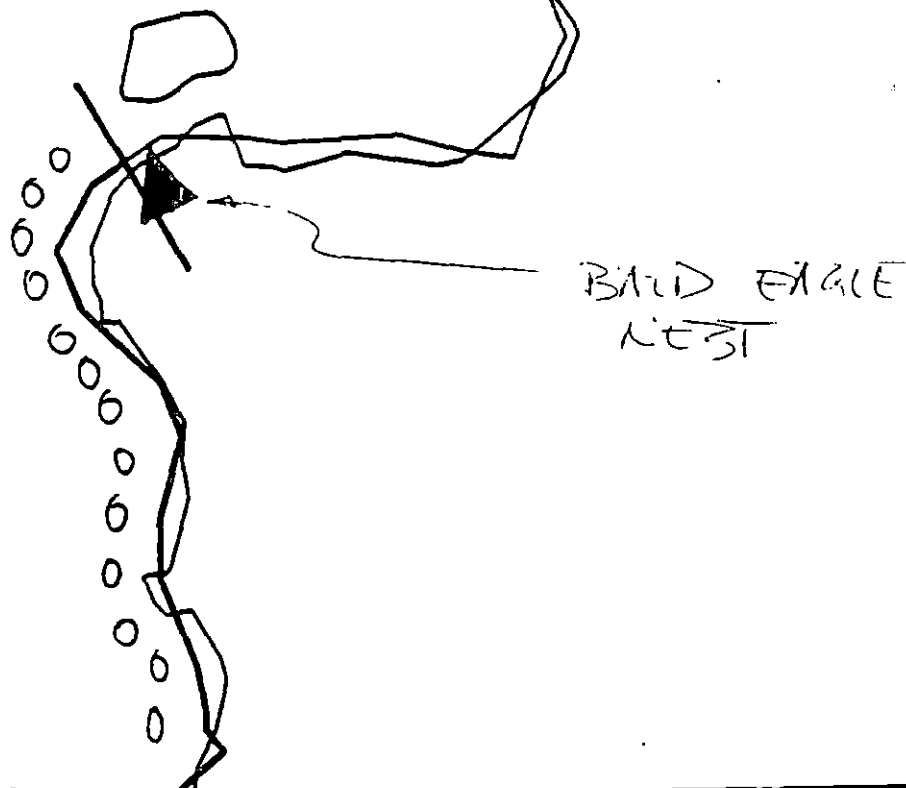
XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
0000 No Oil

EV-7
ADEC Segment Length: 5439m
0 100 200 300
METERS



Map Key: PWS-289c
Name: Mike Fogel
Date: 4/7/90
Data Entered:

EV-06



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-7

ADEC Segment Length: 5439m



Map Key: PWS-269e

Name: Mike Fogel

Date: 4/7/90

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ EV-08 SUBDIVISION A (1 OF 3) DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16543, Ps, 12/89 & 226-40-16545, Ps, 12/89

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
- 1B Salmon stream mouth - spawning (7/10 to 8/31)
- 5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
- 6V Recreation: Anchorages (6/1 to 9/15)
- 7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unopened biota and substrate. Salmon stream 226-40-16545, Ps, 12/89 located near boundary of EV-08 B. Eagle nests located across embayment.

SHPO SIGNATURE: Charles E. Homan

DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 462 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: MONITORS TO CHECK SUITZ WHILE IN THE VICINITY

TAG APPROVAL DATE: 5/3/90

ADEC ART WEINER
EXXON AMY TATE
NOAA GARY PETROE
USCG KENNETH KENNIS

FOSC:

DATE: 5-18-90

ADVIS: 24 HRS. IN ADVANCE OF WORK

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235
- 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- SR Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- SS Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- ✓ 8T 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 (5/1 to 9/30)
 7HH Finfish harvesting
 7HJ Deer harvesting (8/15 to 2/28)
 7JJ Invertebrate harvesting
 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

SEGMENT ST1 GVO8 SUBDIVISION: A DATE 4/23/90

USCG

NAME SHAWN MAAS SIGNATURE DC [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

NO FURTHER OILS FOUND ON BEACH. TARBALLS
FOUND WERE REMOVED BY SSAT TEAM. NO
SUBSURFACE OILS NOTED IN THIS SUBDIVISION.

ADEC

NAME DAVE SALE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED
TO VERIFY ALL TAR WAS REMOVED

TAR PATCHES FOUND ON BEACH WERE PICKED UP BY
SSAT TEAM, SO THERE MAY NOT BE ANY NEED FOR WORK
HERE. TREATMENT WOULD SIMPLY REQUIRE VERIFYING THAT
ALL TAR WAS PICKED UP AND REMOVED WHILE CLEANUP
CREWS ARE PICKING UP SUBDIVISION B.

LAND MANAGER

NAME Don Homphoff Jr SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY

REVISION NO. 04-13-88

OG R. Marty USCG S. Mann SEGMENT ST/ EV-08
 BIO B. Lamen LAND REP D. Komphoff SUBDIVISION A (A OF C)
 EXXON J. Gorneski ADEC B. Sale TIME 18:50 to 20:05
 TEAM NO. 10 TIDE LEVEL +1.01m → +1.67m DATE 30 April 90
 EST. SUBDIVISION LENGTH: 382 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 10 % B 20 % C 30 % P 15 % G 5 % 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 382 m NO 0 m

SURFACE OIL

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

PAVEMENT H F S NO sq. m by 0 cmPATTIES / TARBALLS 1.5 BAGS* All patties and balls removed.
NEAR SHORE SHEEN? ☒ NO BR RW SL TL

| OILED DEBRIS | NO | AMOUNT | | | |
|--------------|----|--------|----|----|--|
| | | SM | MD | LG | |
| Logs | X | | | | |
| Vegetation | X | | | | |
| Trash | X | | | | |
| Debris | X | | | | |

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐TYPE TB#BAGS 2

Photographs:

Roll No. ST/10/13Frames 23, 24

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL | BELOW | | OIL / FILM COLOR | | | | PIT ZONE | | | | A N A | SHEEN (Y/N) | DEPTH (cm) | SURFACE - SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|----------------|-------|----|------------------|---|---|----|----------|---|---|---|-------|-------------|------------|--------------------------------|
| | | OP | OR | OL | OF | NO | | UO | UG | W | M | N | VL | W | M | N | U | | | | |
| 1 | 27 | | | | | X | | | X | | | | | | | X | | N | N | 20 | G, S - 2, M |
| 2 | 41 | | | | | X | | | X | | | | | | | X | | N | N | | P, G - CGPSM |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

COMMENTS Tar patties become concentrated at south end of segment.
 The segment is primarily a low angle beach front with local shallow pent. All detected oil was removed.

REVIEWED JWDATE 4/25/90

2 of 59

SUBDIVISION **A → C**

DATE 30 1 4 90

CHECKLIST

- ___ SI Answer
 ___ Approx. Grade
 ___ Significant Body
 ___ CH Dist.
 ___ Weight
 ___ Length
 ___ % Cover
 ___ Substrate Character
 ___ Est. HAPPAVAL
 ___ SSI
 ___ Profile Location(s)
 ___ Profile(s)
 ___ PE Location(s)
 ___ Photo Location(s)

LEGEND

1 A

PM - No Subsurface Cn2. 

Fit - Scherfano Oil

CT/C

Contents Distribution

CT/B

Abstract Classification

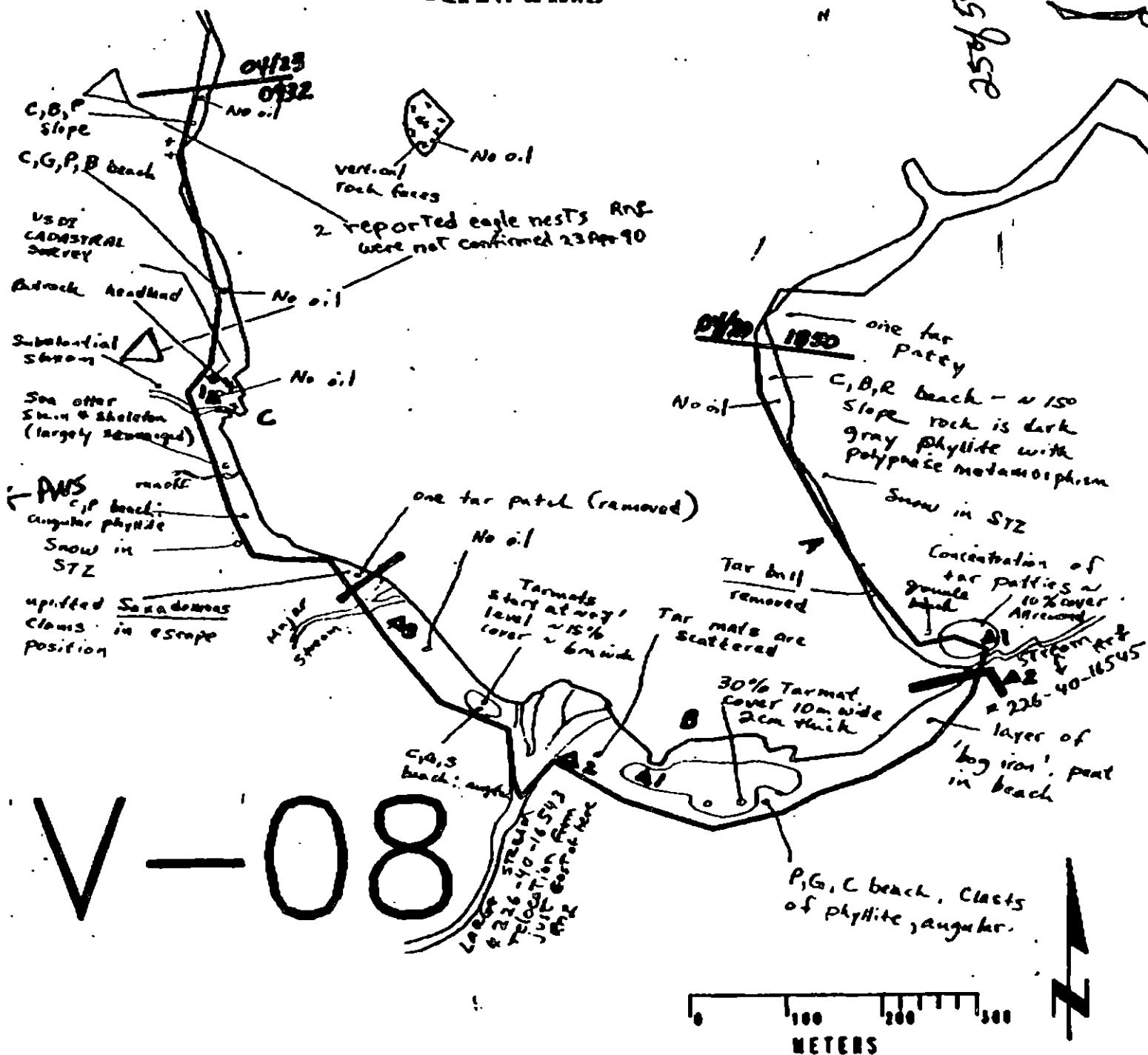
CT/P

Patchy Distribution

CT/3

Systemized Distribution

Other Vegetation

**Photo location, direction,
and number**

V-08

A 0 0 0 0 0 0 132 m 0 0 250 m

OS Character Length (m) SAP 388 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 176m

C 0 0 0 0 0 0 220m 0 0 544m

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22

Segment ST / EY-8 Subdivision A Date (mo / day / yr) 4 / 20 / 90
 Time (24 hr) 1930-1930 Biologist Lemon clear, calm, no seas

- (A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 20 (3) Cobble 50 (4) Pebble 15 (5) Sand 5 (6) Silt _____
- (B) Overall % cover of biota (% of segment): Dense _____ Moderate _____ 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: ST/10/13
 Roll No. ST/10/13

Frames 23, 24

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

6 gulls 2 scolopacidae (sandpipers)
 1 steller jay
 2 waterfowl

This low energy, small angular substrate bay head probably is greatly diluted by freshwater, perhaps limiting the diversity and density of marine forms - the water appeared clearer here than outside the bay and this is bloom time

Ecological Considerations:

This is a good anchorage area; a pleasure craft was anchored during our survey. Subsistence deer harvest also takes place here. Anadromous stream = 226 - 40 - 16545 flows through here too. Though not formerly documented; Prototheca or Saxidomus clam shells are abundant on the beach indicating rich beds nearby of subsistence, recreation or commercial value.

E. C. C. G. I. C. A.
MIA

1A 1B
5T (1)
6V 7IL

| | | | |
|------|------|------|-------|
| No | 1.2" | 255m | 280m |
| V.L. | 0.9" | 135m | 138m |
| No | 1.2" | 180m | 176m |
| V.L. | 2.3" | 345m | 378m |
| Mod. | 1.7" | 255m | 280m |
| NO | 3.7" | 555m | 544m |
| V.L. | 1.5" | 225m | 220m |
| | | 1980 | 1910m |

102
144
264

~~REDACTED~~
~~REDACTED~~
~~REDACTED~~

~~REDACTED~~
~~REDACTED~~
*226-40-465

V-08

~~REDACTED~~ 26 of 59

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

EV-8A

ADEC Segment Length: 1910m



Map Key: PWS-273

Name: L. Marty

Date: 23 April 1990

Date Entered:

| | | | |
|------|------|------|-------|
| No | 1.7" | 255m | 280m |
| V.L. | 0.9" | 135m | 132m |
| No | 1.2" | 180m | 176m |
| V.L. | 2.3" | 345m | 338m |
| Med. | 1.7" | 255m | 290m |
| No | 3.7" | 555m | 544m |
| V.L. | 1.5" | 225m | 220m |
| | | 1980 | 1910m |

382
764
764

← AWS

V-08

26 of 59

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

EV-8

ADEC Segment Length: 1910m



Map Key: PWS-273

Name: L. Marty

Date: 23 April 1990

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ EV-08 SUBDIVISION B (2 OF 3) DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16543, Ps, 12/89 and 226-40-15545, Ps, 12/89

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
- 1B Salmon stream mouth - spawning (7/10 to 8/31)
- 5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
- 6V Recreation: Anchorages (6/1 to 9/15)
- 7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unopened biota and substrate. Salmon stream 226-40-16545, Ps, 12/89 located at boundary of EV-08A, and 226-40-16543 located within subdivision. 5T(2) 1 nest located within subdivision, another <400 M in subdivision C.

SHPO SIGNATURE: Charles E. H. Jones DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 263 m: Narrow 0 m: V. Light 451 m: No Oil 174 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> </u> Manual Pickup | <u> </u> Absorbents (pads, rolls, etc) |
| <u> </u> Bioremediation | <u> </u> Spot Washing: <u> </u> Wands |
| <u>X</u> Tarmat Removal | <u> </u> Beach Cleaner |
| | <u> </u> Other (see comments) |

COMMENTS: Recommend removal of asphalt mats where indicated on sketch map. Work should be conducted after 6/1 and with USFWS approval based on eagle nest constraints.

TAG COMMENTS: MONITORS TO ASSESS SUITZ DURING TREATMENT

TAG APPROVAL DATE: 5/3/90
ADEC ART WEINER
EXXON ANDY TEAL
NOAA GARY PETERSON
USCG KENNETH KETTER

FOSC:

DATE: 5-15-90

Census need for bioremediation following TARMAT removal.
NOTIFY CVC 24 HRS. IN ADVANCE OF WORK

PWS, SEWARD, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (8/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 3M Herring spawning (4/1 to 6/15)
 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 Evelyn Biggs 424-3235
- 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 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. 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 Rothly 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 (5/1 to 9/30)
 7H Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7J Invertebrate harvesting
 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

SEGMENT ST / EVO8 SUBDIVISION: B DATE April 23-1990

USCG

NAME Sharon - MARS

SIGNATURE

Dr. Sharon A. MARS☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

MANUAL REMOVAL OF ASPHALT/PAVEMENT RECOMMENDED FOR THIS SUBDIVISION. ALSO A REINSPECTION OF SUPRATIDAL. SNOW COVERED MUCH AND MOST OILS FOUND IN UPPER INTERTIDAL. NO SUBSURFACE OILS NOTED.

ADEC

NAME DAVE SALK.

SIGNATURE

David Salk☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

- ① MANUAL REMOVAL OF TAR PATCHES AND TARBALLS (AT L+9' TIDE).
- ② REMOVE ANY DEBRIS FOUND IN SUPRATIDAL WE WERE UNABLE TO VIEW BECAUSE OF SNOW.

LAND MANAGER

NAME Don Kompkoff Jr.

SIGNATURE

Donald P. Kompkoff Jr.☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

OG R. Marty USCG S. Mass SEGMENT ST/ SV-08
 BIO S. Lemen LAND REP D. Humphreys SUBDIVISION 8 (8 OF 8)
 EXXON J. Gerneshi ADEC D. Sale TIME 19:30 to 20:30
 TEAM NO. 10 TIDE LEVEL +1.5m → +1.5m DATE 20/04/90
 EST. SUBDIVISION LENGTH: 200 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 5 % C 40 % P 40 % G 15 % 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 200 m N 0 m VL 200 m NO 176 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | OIL / FILM COLOR | IMPACTED ZONES |
|------------------|--------------|--|-------------------|
| | C N P S | 1 2 3 4 5 6 7 8 9 10 | W U M U |
| ASPHALT PAVEMENT | <u>P S</u> | <u>S</u> | <u>S</u> |
| POOLED | | | |
| COVER | | | |
| COAT | | | |
| STAIN | | | |
| MOUSSE | | | |
| PATTIES | | | <u>S</u> |
| TARBALLS | | | <u>N</u> |
| FILM | | | <u>0</u> |
| NO OIL | | | <u>W</u> <u>X</u> |

PAVEMENT H. F. (S) 602 sq. m by 3 cm

PATTIES / TARBALLS 1 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

| OILED DEBRIS | AMOUNT | DID YOU COLLECT DEBRIS? |
|--------------|----------|---|
| Logs | <u>X</u> | ☒ YES ☐ NO |
| Vegetation | <u>X</u> | TYPE <u>Tar mat</u> |
| Trash | <u>X</u> | #BAGS <u>1</u> |
| Debris | <u>X</u> | |

Photographs:

Roll No. ST/10/13 Frames 25, 26

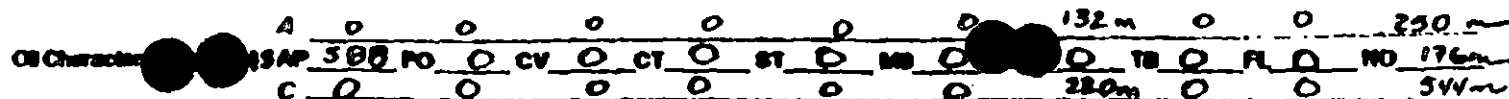
Frames ST/10/14 Frame 8

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | OILED INTERVAL | BELOW | OIL / FILM COLOR | PIT ZONE | A N A | SHEEN (Y/N) | Y | SURFACE - SUBSURFACE SEDIMENTS |
|----------|----------------|--------------------------|----------------|-------|--|----------|----------|-------------|-----------|--------------------------------|
| | | OP OR OL OF NO | | VO VO | 1 2 3 4 5 6 7 8 9 10 | W U M U | | | | |
| <u>1</u> | <u>27</u> | <u>X</u> | | | | <u>X</u> | <u>N</u> | <u>N</u> | <u>20</u> | <u>C, S-3M</u> |
| <u>2</u> | <u>29</u> | <u>X</u> | | | | <u>X</u> | <u>N</u> | <u>-</u> | <u>N</u> | <u>P, G-63</u> |
| <u>3</u> | <u>35</u> | <u>X</u> | | | | <u>X</u> | <u>N</u> | <u>-</u> | <u>N</u> | <u>GFS-630</u> |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

COMMENTS A low angle pebble, cobble, granule beach. Initial oiling was in the form of mouse patties which are now changing to tar. There is no evidence of any oil below about 3cm depth. Tar mats are quite soft and are easily removed. No evidence for any oiling in ST2, but Area was snow covered.

REVIEWED 7W DATE 4/25/90 9 of 59



SHORELINE ECOLOGICAL SUMMARY

REVISION: 09/28/79

Segment ST/EV-08 Subdivision B Date (mo / day / yr) 4/20/90
 Time (24 hr) 1935-2015 and 4/23/90
 Biologist L. Egan clear, calm, no seas

- (A) Substrate type and % of segments:
 (1) Bedrock 0 (2) Boulder 5 (3) Cobble 40 (4) Pebble 40 (5) Sand 15 (6) Silt 0
- (B) Overall % cover of biota (% of segment): Dense Moderate Low 20%
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L):
 juveniles / adults (X) , new settlement (3)

Photographs:
 Roll No. ST/10/13

Frames 25 - 26

BARNACLES

ST/10/14 frame 8

| 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 | 3 | 3 | 3 | X | X | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | X | 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

MYTILUS

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

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 | X | X | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | X | X | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | X | 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 |

NOT PRESENT

FUCUS

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

Wildlife Observations/ General Comments: Imm barnacles in mid zone.
 1) waterfowl
 2) Alcids
 3) Oystercatchers
 "clam" digging holes low zone; empty shells 30, mostly Saxidomus.
 lots of fresh water coming into this bay.

Ecological Considerations: this area is used for deer harvest, boat anchorages and lies
 between 2 substantial streams # 226-40 16543.
226-40 16545

10 of 59

ECOLOGICAL MAP

1A, 1B
5T(2)
6U
7II

| | | | |
|------|------|------|-------|
| No | 1.2" | 255m | 280m |
| V.L. | 0.9" | 135m | 138m |
| No | 1.2" | 180m | 176m |
| V.L. | 2.3" | 345m | 338m |
| Mod. | 1.7" | 295m | 290m |
| NO | 3.7" | 555m | 544m |
| V.L. | 1.5" | 225m | 220m |
| | | 1980 | 1910m |

DELE
NEED

V-08

ANDROMEDA STREAMS

#226-40-543

26 of 59

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

EV-8B

ADEC Segment Length: 1910m

0 100 200 300
METERS

Map Key: PWS-273

Name: L. Marty JB

Date: 23 April 1990

Date Entered:

| | | | |
|------|------|------|-------|
| No | 1.7" | 255m | 280m |
| V.L. | 0.9" | 135m | 132m |
| No | 1.2" | 180m | 176m |
| V.L. | 2.3" | 345m | 338m |
| Mod. | 1.7" | 295m | 290m |
| NO | 3.7" | 555m | 544m |
| V.L. | 1.5" | 225m | 220m |
| | | 1980 | 1910m |

← AWS

V-08

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-8

ADEC Segment Length: 1910m



Map Key: PWS-273

Name: L. Marty

Date: 23 April 1990

Date Entered:

26 of 59

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-8 SUBDIVISION B (2 of 3)

| WORK WINDOW | |
|----------------|------|
| Tarmat Removal | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-40-16543) is located in this subdivision. No constraint to tarmat removal.

5T Bald Eagle Nest

NO CONSTRAINT. Work area is more than 400m from nest.

7II Subsistence: Deer Harvesting

No constraint to tarmat removal.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance of stream bed or banks. Restrict boat and air traffic and beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

TAG APPROVAL DATE 5/29/90.
ADEC AET Weisner Ant Weisner
EXXON AMT TSO
NOAA B. Wescott
USCG G.A. BATER G.A. Reiter

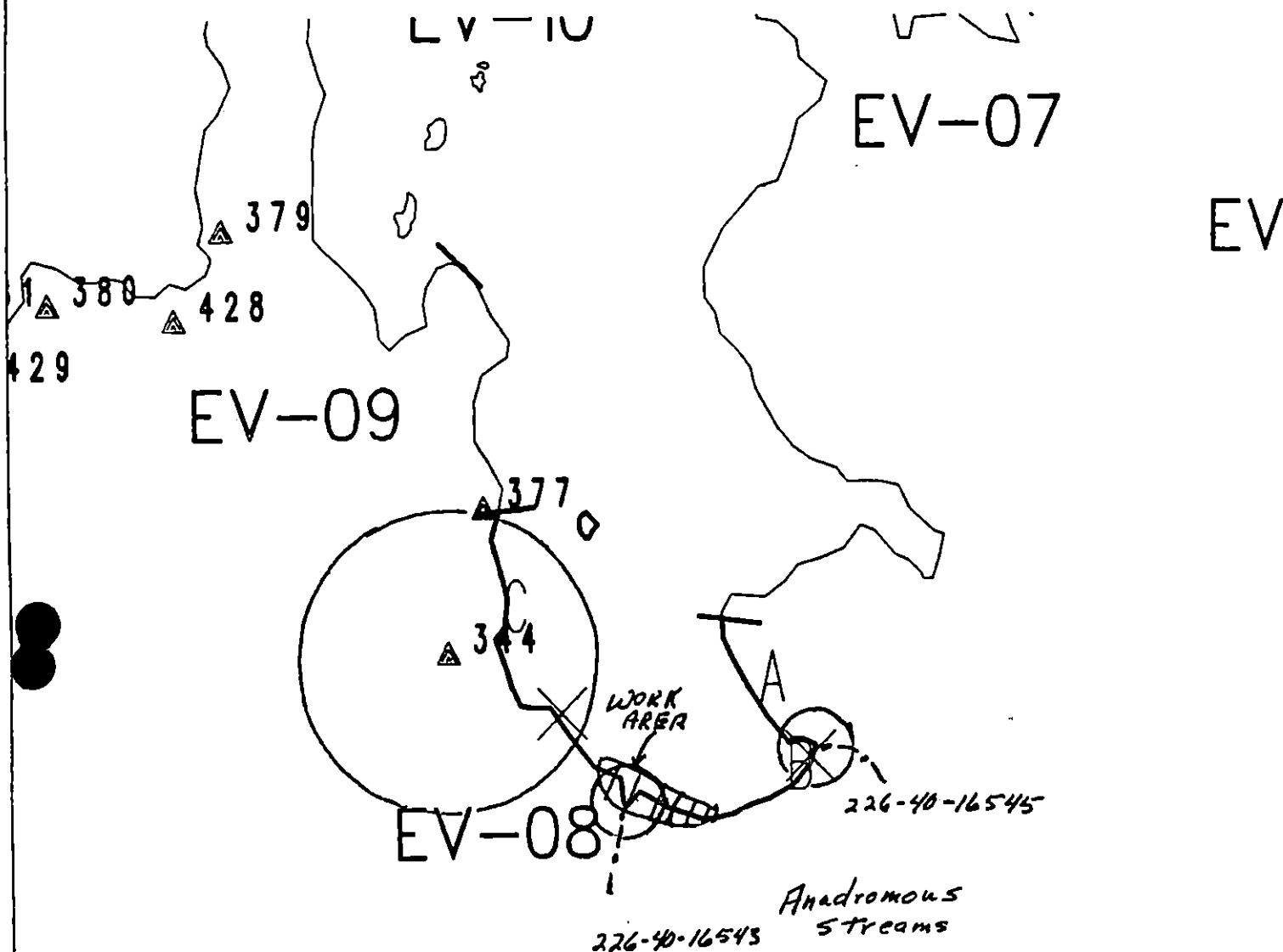
FOSC

DATE

MAY 29 1990

Prepared By: Andrew Meyer WTK

Date 5/24/90

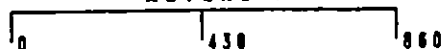


Exxon Company, USA
Map Key: PWS-EV-8
May 11, 1990



ECOLOGY MAP SEGMENT EV-8 SUBDIVISION B (2 of 3)

METERS



Seabird Colony



Eagle Nest

1 inch = 1412 feet

SHORELINE EVALUATION

SEGMENT ST/ EV-08 SUBDIVISION C (3 OF 3) DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16543, Ps, 12/89 & 226-40-16545, Ps, 12/89

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

6V Recreation: Anchorages (6/1 to 9/15)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. 5T (2) located proximal to boundary with Subdivision B and with Subdivision C.

SHPO SIGNATURE: Charles E. Hume DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 635 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☒ No Treatment Recommended
☐ Treatment Recommended
☐ Manual Pickup
☐ Bioremediation
☐ Tarmat Removal

_____ Snare/Absorbent Booms
_____ Oil Snares (pom poms)
_____ Absorbents (pads, rolls, etc)
_____ Spot Washing: _____ Wands
_____ Beach Cleaner
_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/3/10.
ADEC Art Wener Art Wener
EXXON Andy Galt Andy Galt
NOAA Gary Petras Gary Petras
USCG Kenneth Keane Kenneth Keane

FOSC: H W DATE: 5-18-90

~~"Not yet 24 hrs. the advance of wo~~

- ✓ 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 ✓ 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 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 Evelyn Biggs 424-3235
- 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2208
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
 6W Anchorages (6/1 to 9/15)
 6X Forest Service cabins (6/1 to 9/15)
 6Y Lodge (6/1 to 9/15)
 Special use destination
- 7Z Subistence area: Salmon harvesting (5/1 to 9/30)
 7H Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7J Invertebrate harvesting
 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

SEGMENT ST 1 EV08 SUBDIVISION: C DATE 4/23/90

USCG

NAME SHAWN MAAS SIGNATURE DC - Shawn A Maas

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

PATTIES FOUND WERE REMOVED BY SSAT TEAM
NO FURTHER OILS NOTED

NO SUBSURFACE OILS NOTED

ADEC

NAME Dave Snie SIGNATURE David Snie

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

EXCEPT VERIFICATION BY TREATMENT TEAMS THAT
ALL THE PATTIES ARE GONE.

No oil was found in this SUBDIVISION, EXCEPT FOR
SOME THE PATTIES THAT WERE REMOVED.

LAND MANAGER

NAME Don Kompsch, Jr SIGNATURE Donald P Kompsch Jr

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

27959

RE ACTION NO 24-1 10

DATE _____

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/98

Segment ST / E V-08 Subdivision C Date (mo / day / yr) 23 Apr 90Time (24 hr) 0830-0930 Biologist Lamon(A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder 10 (3) Cobble 40 (4) Pebble 20 (5) Sand 20 (6) Silt 0(B) Overall % cover of biota (% of segment): Dense Moderate 35% 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. ST/2/14Frames 9, 10

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: Bedded clams, Littorina eggs, fucus is reproductive and dead otter (see?) seal teeth, picture has speckles on bedrock. Bedrock did not extend into low zone.

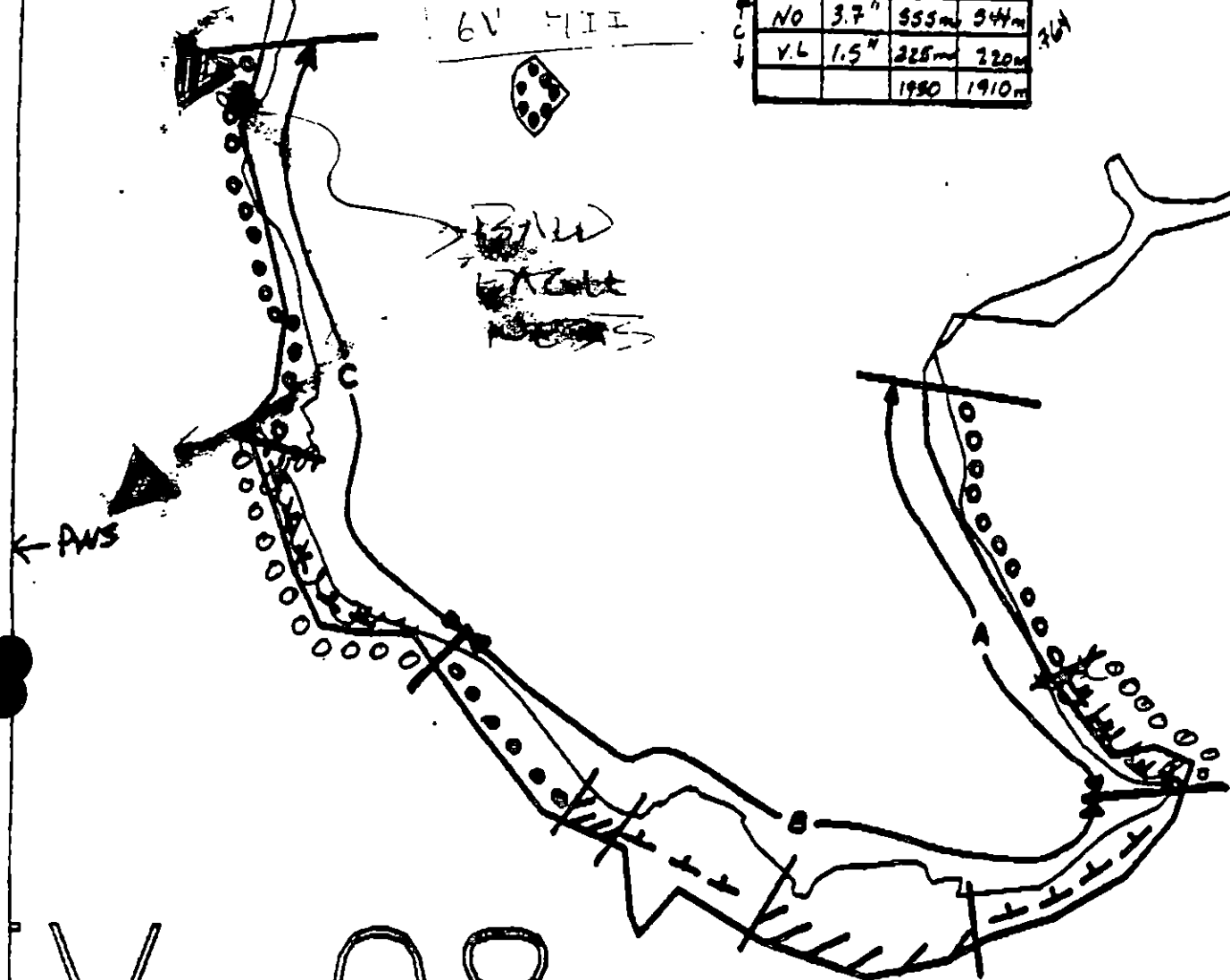
Ecological Considerations:

Eagle nests could not be confirmed; no eagles seen 23 Apr 90. Good anchorage and deer harvest area. Uplifted clam beds may indicate newer beds below. Another stream in this area may also be a spawning.

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| | | | |
|------|------|------|-------|
| No | 1.2" | 255m | 280m |
| V.L. | 0.9" | 135m | 128m |
| No | 1.2" | 180m | 176m |
| V.L. | 2.3" | 345m | 338m |
| Mod. | 1.7" | 255m | 250m |
| No | 3.7" | 555m | 544m |
| V.L. | 1.5" | 225m | 220m |
| | | 1980 | 1910m |

1A, 1B
ST()
6V FII



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

EV-8C

ADEC Segment Length: 1910m



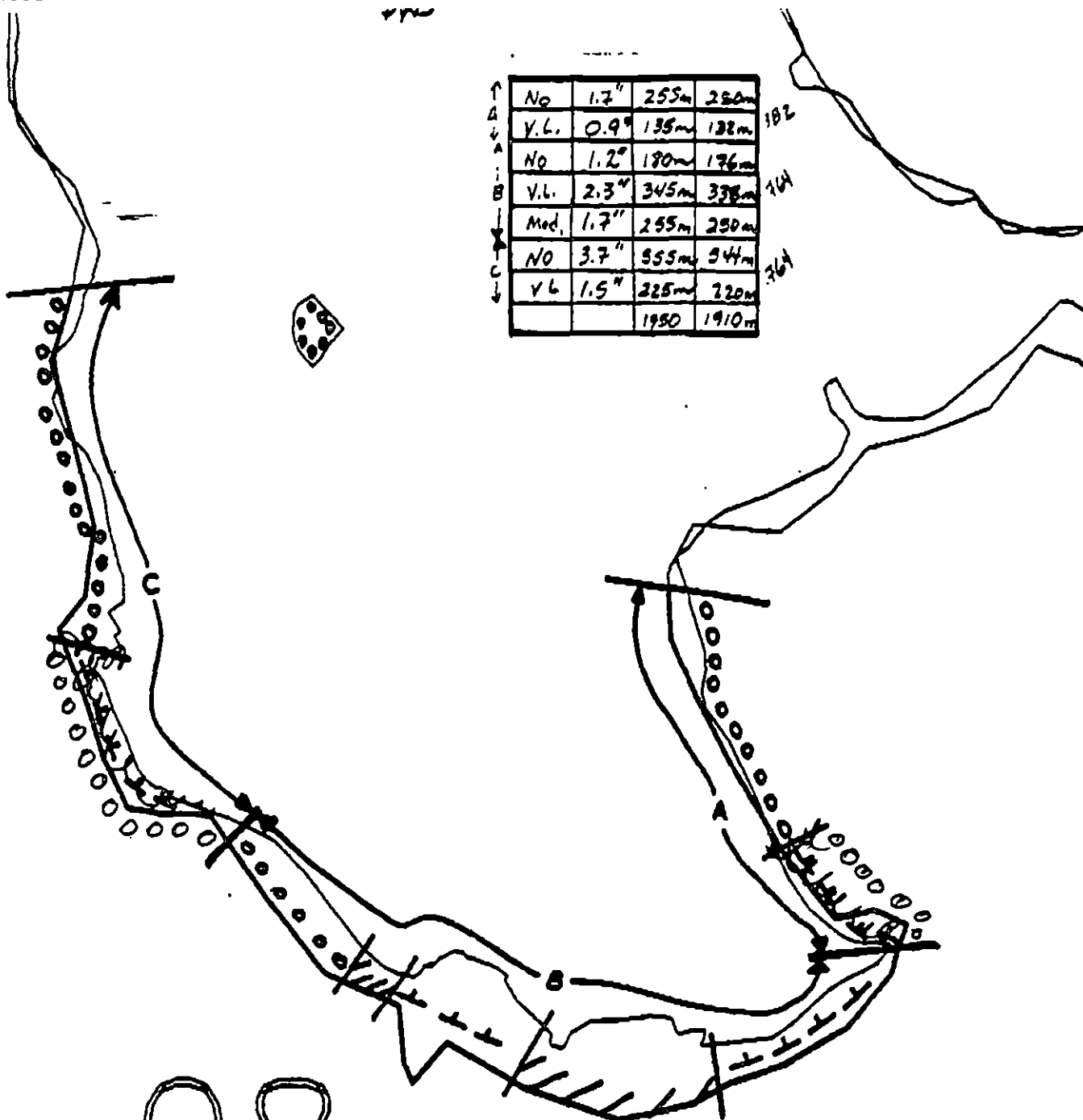
Map Key: PWS-273

Name: L. Marty

Date: 23 April 1990

Date Entered:

| | | | |
|------|------|------|-------|
| No | 1.7" | 255m | 250m |
| V.L. | 0.9" | 135m | 132m |
| No | 1.2" | 180m | 176m |
| V.L. | 2.3" | 345m | 338m |
| Med. | 1.7" | 255m | 250m |
| No | 3.7" | 555m | 544m |
| V.L. | 1.5" | 225m | 220m |
| | | 1950 | 1910m |



← PWS

V-08

26 of 59

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

EV-8

ADEC Segment Length: 1910m



Map Key: PWS-273

Name: L. Marty

Date: 23 April 1990

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ EV-09 SUBDIVISION A (1 OF 1) DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
Eagle nest within 400 M of segment
6V Recreation: Anchorages (6/1 to 9/15)
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Holmes DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 125 m: V.Light 347 m: No Oil 257 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>X</u> Tarmat Removal | <u> </u> Beach Cleaner |
| | <u> </u> Other (see comments) |

COMMENTS: Recommend manual pickup of scattered tar patties and removal of tarmats as shown on sketch map. Work should be conducted after 6/1 and with USFWS approval based on eagle nest constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/3/90

ADEC Art Weiner Dist/Weiner
EXXON Andy Tera
NOAA Gary Petras
USCG Kenneth Kerner

FOSC: DATE: 5-15-90
Assess need for bioremediation following TARMAT removal
Notify CVC 24 HRS. IN ADVANCE of work

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/1)
1E Main Bay Hatchery release (4/20 to 6/10)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
1G Cannery Creek Hatchery release (4/21 to 6/1)
1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (5/7 to 8/31)
1J Purse seine area (7/20 to 9/30)
1K Purse seine hook-off (7/20 to 9/30)
1L Set net sites (8/11 to 7/25)
Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
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 Evelyn Biggs 424-3235
- 4, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
2, 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. 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 Rothy 267-2208
- ✓ 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- ✓ 6U Recreation: Tent sites (5/1 to 9/15)
6W Anchorages (5/1 to 9/15)
6X Forest Service cabins (5/1 to 9/15)
6Y Lodge (5/1 to 9/15)
Special use destination
- 7Z Subestance area: Salmon harvesting (5/1 to 9/30)
7-HH Finfish harvesting
7W Deer harvesting (8/15 to 2/28)
7JJ Invertebrate harvesting
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 EVO 9 SUBDIVISION: A DATE 4/23/90

USCG

NAME SHAWN - MAAS SIGNATURE DC² Shawn A. Maas☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF TAR BALLS AND ASPHALT/PAVEMENT
IN POCKET BEACHS DETAILED ON DRAWINGS.

NTR ON COVER WHICH IS SPORADIC AND ON VERTICAL
ROCK FACE.

ADEC

NAME DAVE SAIR SIGNATURE David M. Sair☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

- ① SPLATTER ON 45-ANGLE ROCKS PROBABLY NOT REMOVABLE.
- ② ALL ASPHALT AND TAR PATCHES SHOULD BE REMOVED MANUALLY
AND ANY PENETRATION INTO SEDIMENTS BY MORE ^{FLUID} ~~MANUAL~~ _{ONE}
UNDERSIDES OF PATCHES & ASPHALT.

LAND MANAGER

NAME Don Kompkoff Jr. SIGNATURE Donal P. Kompkoff Jr.☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

37 of 59

RECEIVED HQ. 05/13/77

DATE 25 Aug 90

SEGMENT ST/ EV-07

SUBMISSION A

DATE 29 April 90

CHECKLIST

- ☐ N. Area
- ☐ Approx. Scale
- ☐ Sea/Side Boundary
- ☐ On Deck
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Ext. (N/A) (N/A)
- ☐ SSI
- ☐ Products (Leakage?)
- ☐ Products (Leakage?)
- ☐ Products (Leakage?)
- ☐ Products (Leakage?)

LEGEND

1 A

PM: No Substances On

2 A

PM: Substances On

CT/C

Continuous Underwater

CT/B

Broken Distribution

CT/P

Partial Distribution

CT/S

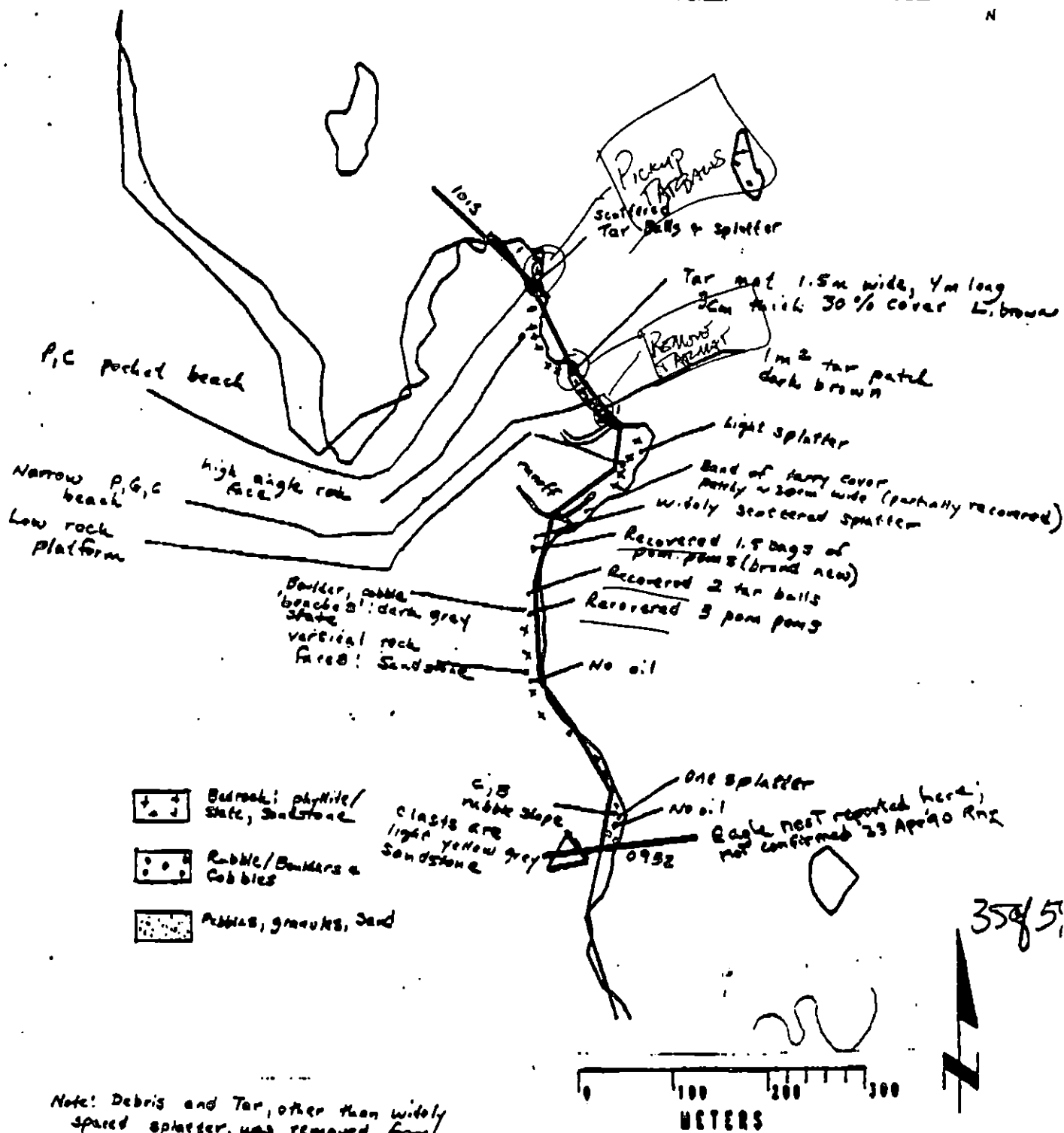
Scattered Distribution

CT/D

Dead Vegetation

CT/S

Photo location, direction, and number



Note: Debris and Tar, other than widely spaced splatter, was removed from area south of the 'run off' stream. Oil/Tar remains to the north of the stream.

OR Character Length (m): AP 100 PO CV/S 5M CT ST MS PT 4M TB FL NO 270

SHORELINE ECOLOGICAL SUMMARY

REVISION: 0000

Segment ST / EV-09 Subdivision A Date (mo / day / yr) 4 / 23 / 90
 Time (24 hr) 0930-1030 Biologist Lemon

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

(B) Overall % cover of biota (% of segment): Dense Moderate 50% 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. 5710 / 14

Frames 11, 12

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: many dead bedded clams, Fucus conceptacles swollen -
2 sea otters hatched on eggs

Ecological Considerations:

Eagle nest was not confirmed 23 Apr 90, no eagles seen. Over research was
done earlier and may have disturbed eagles.

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ECCLEBY WIT

BALD EAGLE NEST

| | | | |
|------|------|-----|-----|
| No | 1.75 | 263 | 280 |
| V.L. | 3.1 | 453 | 473 |
| L | 0.63 | 98 | 100 |
| | | 826 | 847 |

36459

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-9

ADEC Segment Length: 847m

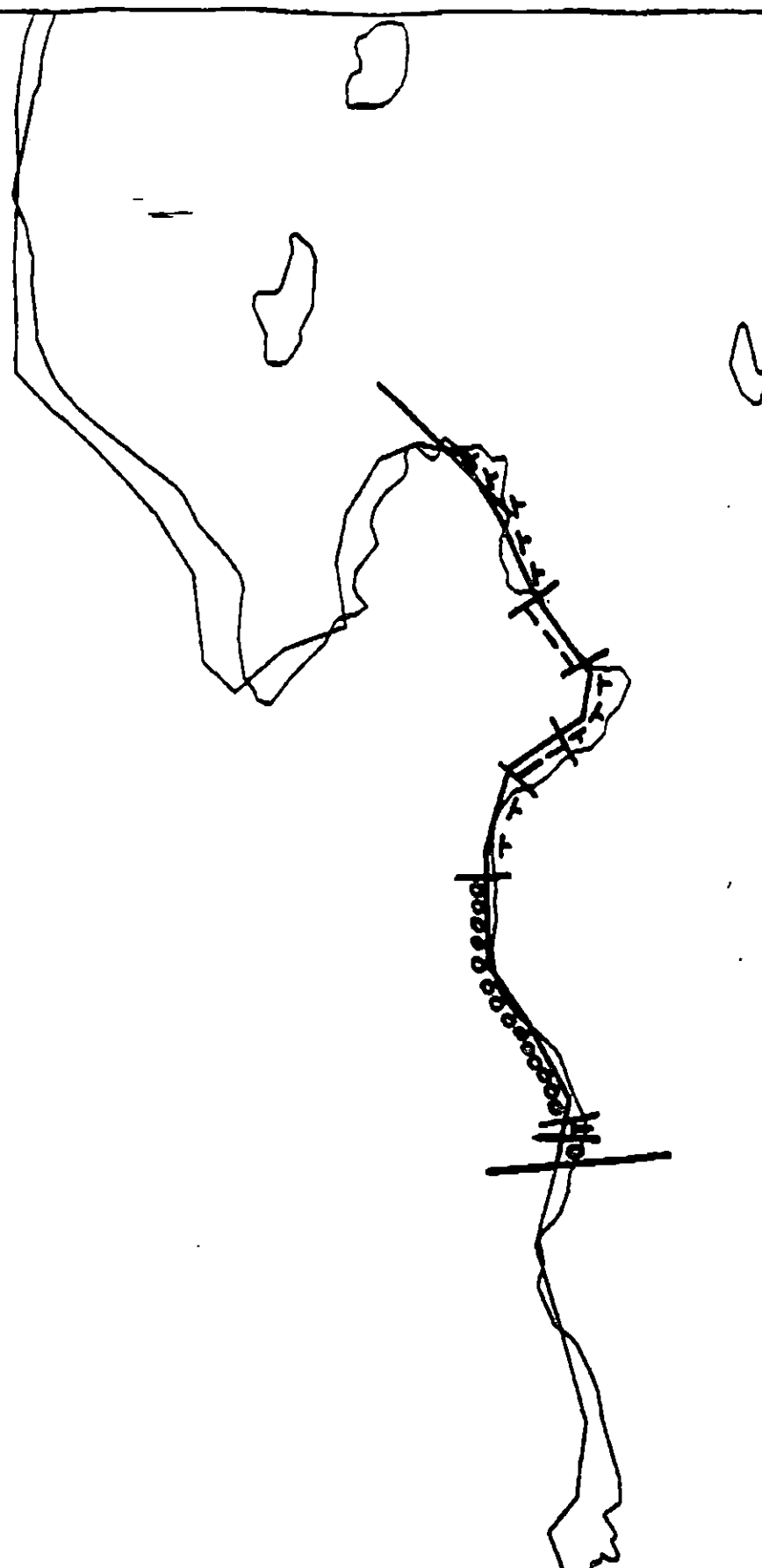


Map Key: PWS-283

Name: R. Marty

Date: 28 April 1990

Date Entered:



| | | | |
|------|------|-----|-----|
| No | 1.75 | 263 | 280 |
| Y.L. | 3.1 | 465 | 477 |
| L | 0.65 | 98 | 100 |
| | | 826 | 847 |

36459

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

EV-9

ADEC Segment Length: 847m



Map Key: PWS-283
 Name: R. Marty
 Date: 28 April 1990
 Data Entered:



ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-9 SUBDIVISION A (1 of 1)

WORK WINDOW

Manual Pickup
Tarmat Removal

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | | |
|-----|------------------------------|---|
| 1K | Purse Seine Hook-off | No constraint to manual pickup and tarmat removal. |
| 5T | Bald Eagle Nest | NO CONSTRAINT. Work areas are more than 400m from nest. |
| 7II | Subsistence: Deer Harvesting | No constraint to manual pickup and tarmat removal. |

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum after 7/20. Restrict beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

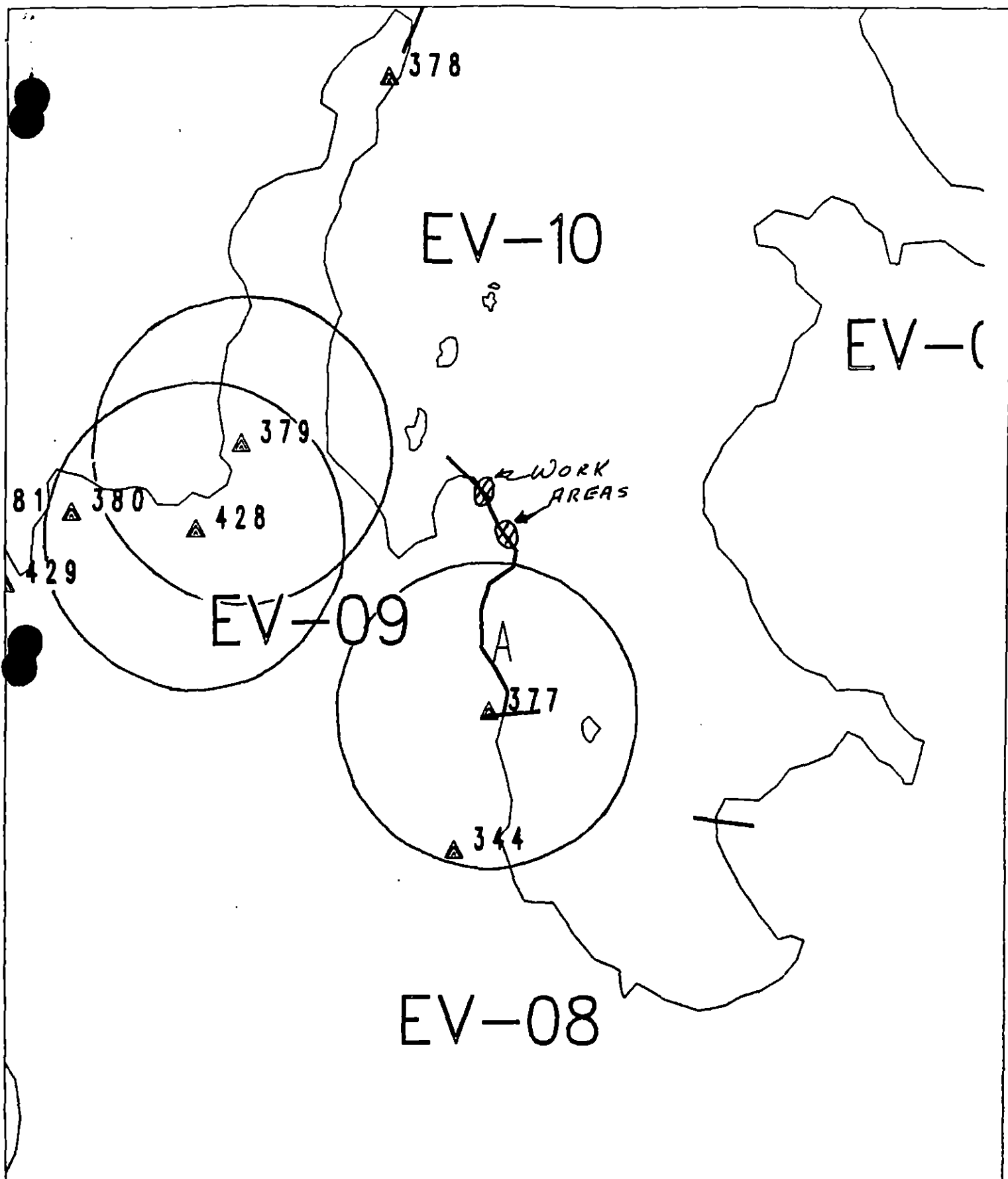
TAG APPROVAL DATE 5/29/90
ADEC ART WERNER
EXXON AMY TGAZ
NOAA Burke
USCG G.A. REITER

FOSC [Signature]

DATE MAY 29 1990

Prepared By: Andrea Meyer

Date 5/27/90



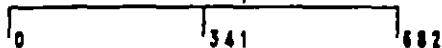
Exxon Company, USA

Map Key: PWS-EV-9

May 11, 1990



ECOLOGY MAP
SEGMENT EV-9
SUBDIVISION *A* (1 of 1)
METERS



Seabird Colony



Eagle Nest

1 inch = 1119 feet

SHORELINE EVALUATION

SEGMENT ST/ EV-10 SUBDIVISION A (1 OF 2) DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

3N,3P Harbor seal and sea lion pupping (5/15 to 7/1)
3O,3Q Harbor seal and sea lion molting (8/15 to 9/15)
5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. 5T within 400M.

SHPO SIGNATURE: Charles E. Holmes DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 121 m: V.Light 58 m: No Oil 161 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pickup of debris, tarballs and patties. Work should be conducted between 7/1 and 8/15 based on above listed constraints.

TAG COMMENTS: MONITORS TO CHECK SUITZ ON POCKET BEACHES AND OILED LOGS.

TAG APPROVAL DATE: 5/3/90.

ADEC ART WEINER Art Weiner
EXXON ANDY TEAL Andy Teal
NOAA GARY PATRICK Gary Patrick
USCG KENNETH KERRIN Kenneth Kerrin

FOSC: DATE: 5-15-90

*NOTIFY CVC 24 HRS. IN ADVANCE OF WORK

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (8/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unciled 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 Evelyn Biggs 424-3235
- 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 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. 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 (5/1 to 9/30)
 7H Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7J Invertebrate harvesting
 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

SEGMENT ST ELIU SUBDIVISION: A DATE 4/33/90

USCG

NAME Sharon Maas SIGNATURE DC - Sharon Maas

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

MANUAL REMOVAL OF PATTIES AND TARBALLS AND OILED DEBRIS.

BIOREMEDIATION OF THICKER COVER.

NO SUBSURFACE OILS NOTED

ADEC

NAME DAVE SALE SIGNATURE Dave Sale

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

- ① REMOVE HEAVIEST COAT FROM HI-ANGLE ROCK FACES
- ② REMOVE MANUALLY ALL TARBALLS, TARMAT AND/OR ASPHALT FROM SHELVES ON HIGH ANGLE ROCK, AND LOW-ANGLE BEACHES WHERE OILED BAND INTERSECTS.
- ③ REMOVE OILED DEBRIS, LOGS AND GRASSES IN SUPRATIDAL ZONE
- ④ REMOVE OIL FROM OVER ^{→ FOR REMOVAL + WASTEWATER} ANY SEDIMENTS COATED WITH OIL

LAND MANAGER

NAME Don Homphoff Jr. SIGNATURE Donald P. Homphoff Jr.

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

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SHORELINE OILING SUMMARY

REVISION NO. 25/13 98

OG R. Marty USCG S. Alas SEGMENT ST/ EV-10
 BIO B. Lema LAND REP D. Kamp SUBDIVISION A (A OF B)
 EXXON J. Caspary ADEC D. Sals TIME 16:15 to 17:45
 TEAM NO. 10 TIDE LEVEL +1.64m → +0.10m DATE 23 April 1990
 EST. SUBDIVISION LENGTH: 246 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 50 % B 25 % C 10 % P 10 % G 5 % S 0 % M 0 % V 0 %
 SLOPE: Long 30 % Hang 20 % Vert — % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 94 m VL 32 m NO 120 m

SURFACE OIL

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

PAVEMENT H F S None sq. m by 0 cmPATTIES / TARBALLS 5 - 20 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | X | | |
| Vegetation | | | |
| Trash | X | | |
| Debris | X | | |

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐TYPE Misc.#BAGS 3

Photographs:

Roll No. ST/10/14Frames 13

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 | 1 | 2 | 3 | 4 | BU | M | U | U | | | |
| 1 | 20 | X | | | | | 0.2 | X | | | | X | | X | | | | N | N | CSP-36 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

COMMENTS Tar patties are quite abundant in this Subsegment. During the survey ~3 bags of debris and tar were removed, but additional patties remain. The STZ was snow covered on the pocket beaches during the survey & may contain additional debris and/or tar patties.

© Tides are for Chenega Island.

REVIEWED TwDATE 4/25/90

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SHORELINE ECOLOGICAL SUMMARY

REVISION: 08/8/90

Segment ST/EV-10 Subdivision A Date (mo/day/yr) 4/23/90Time (24 hr) 600-1700 Biologist Lemon cloudy, wind 0(A) Substrate type and % of segments:
(1) Bedrock 50 (2) Boulder 25 (3) Cobble 10 (4) Pebble 10 (5) Sand 5 (6) Silt 0(B) Overall % cover of biota (% of segment): Dense Moderate 50% 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. ST/10/14Frames 13

BARNACLES

| Dense | | |
|-------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Moderate | | |
|----------|--------------|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Sparse | | |
|--------------|--------------|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Rare | | |
|------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

NOT PRESENT

MYTILUS

| Dense | | |
|-------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Moderate | | |
|----------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Sparse | | |
|--------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Rare | | |
|--------------|--------------|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

NOT PRESENT

GASTROPODS

| Dense | | |
|-------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Moderate | | |
|----------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Sparse | | |
|--------------|--------------|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Rare | | |
|------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

NOT PRESENT

FUCUS

| Dense | | |
|--------------|--------------|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Moderate | | |
|--------------|--------------|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Sparse | | |
|--------------|----|--------------|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

| Rare | | |
|------|----|----|
| 1U | 1M | 1L |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |

NOT PRESENT

Wildlife Observations/ General Comments: ^{eyed} reproductive Fucus, Egg cluster unknown fish origin.
 2 sea otter g. oligochaete worms living with oil at pit 1.
 1 cormorant

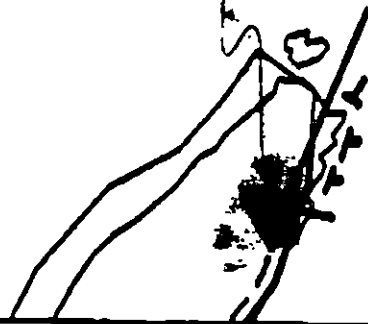
Ecological Considerations: deer harvest area.

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ECOLOGICAL
MAP (1 of 2)

5T
3NF, 30G
7II

BAUD EAGLE NEST



54 of 59

↓ PWS 177A

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177b

Name: R. Marty

Date: 23 April 1990

Date Entered:

↑ PWS 1778
ECOLOGICAL MAP
(2 of 2)

EV

BALD
EAGLE
NEST

| | | | | | |
|---|----|------|------|------|------|
| A | N1 | 0.95 | 143 | 120 | 246 |
| | VL | 0.15 | 58 | 32 | |
| B | L | 0.75 | 113 | 94 | |
| | N0 | 4.2 | 708 | 589 | |
| | VL | 10.7 | 1605 | 1342 | 1994 |
| | L | 0.5 | 75 | 63 | |
| | | | 2679 | 2240 | |

53 of 54

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177a

Name: R. Marty

Date: 23 April 1990

Date Entered:

↑
PWS 177B

EV



246

1994

53 of 54

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177c

Name: R. Marty

Date: 23 April 1990

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-10 SUBDIVISION A (1 of 2)

| WORK WINDOW | |
|---------------|------|
| Manual Pickup | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | | |
|----------|---|--|
| 3N,O,P,Q | Harbor Seal & Sea Lion
Pupping and Molting | NO TIME CONSTRAINT. Authorized per
memorandum dated 5/14/90 from Kathryn
Frost/ADF&G to Mark Kuwada/ADF&G. |
| 5T | Bald Eagle Nest | NO CONSTRAINT. Work area is more than
400m from nest. |
| 1K | Purse Seine Hook-off | No constraint to manual pickup. |
| 7II | Subsistence: Deer Harvesting | No constraint to manual pickup. |

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum after 7/20. Restrict beach disturbance to essential minimum after 8/15. 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. Avoid any unnecessary disturbance or damage to uncollected biota and substrate. Restrict air traffic and all disturbance to essential minimum. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests.

TAG APPROVAL DATE 5/29/90
ADEC Art Weiner
EXXON Andy Garz
NOAA B. Wasoyt
USCG G.A. BEITER

FOSC

[Signature]

Date MAY 29 1990

Prepared by

Anden Meyer UK

Date

5/24/90

EV-06

EV-60

EV-10

EV-

EV-09

EV-08

378

343

379

381

380

428

429

WORK
Area

377

344



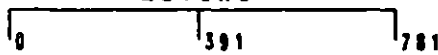
Exxon Company, USA
Map Key: PMS-EV-10
May 11, 1990



ECOLOGY MAP
SEGMENT EV-10

SUBDIVISION A (1-01-2)

METERS



- ★ Seabird Colony
- ▲ Eagle Nest

1 inch = 1282 feet

SHORELINE EVALUATION

SEGMENT ST/ EV-10 SUBDIVISION B (2 OF 2) DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

3N,3P Harbor seal and sea lion pupping (5/15 to 7/1)
 3O,3Q Harbor seal and sea lion molting (8/15 to 9/15)
 5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
 (one eagle nest within 400 M)
 7II Subsistence area: Deer harvesting (8/15 to 2/28)
 See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. (1 eagle nest within 400M)

SHPO SIGNATURE: J. David McMahon DATE: 5/8/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 104 m: V.Light 1354 m: No Oil 808 m
 Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

| | |
|--|---|
| <u>E</u> No Treatment Recommended | <u> </u> Snare/Absorbent Booms |
| <u> </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: MANUAL PICKUP OF TARBALLS + DEBRIS
SEE SKETCH ATTACHED TO EV-10-A

TAG COMMENTS:

TAG APPROVAL DATE: 5/3/90
 ADEC ART WENNER
 EXXON ANDY BELL
 NOAA CONNY PETROE
 USCG KENNETH KOTAK

FOSC: W L DATE: 5-18-90
NOTIFY CVC 24 HRS PRIOR TO WORK

SEGMENT ST EV10 SUBDIVISION: B DATE 4/23/90

USCG

NAME Shawn MAAS SIGNATURE DC2 Shawn Maas

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

COVER IS PATCHY SPORADIC ALONG VERTICAL ROCK
FACE. HARD TO GET AT.

NO SUBSURFACE PMS NOTED

ADEC

NAME DAVE SALE SIGNATURE Dave Sale

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

THERE IS A STAIN / COVER ON HI-ANGLE ROCKS THAT IS
SPOTTY AND PROBABLY CANNOT BE CLEARED OFF. SOME TARRY
COVER REMAINS IN BAND.

LAND MANAGER

NAME Don Kompkeff JR SIGNATURE Donald P. Kompkeff Jr

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

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REVISION NO. 04.12.99

DATE _____

DATE 4/25/90
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SHORELINE ECOLOGICAL SUMMARY

REVISION: 05/25/90

Segment ST / EV 10 Subdivision B Date (mo / day / yr) 4 / 23 / 90Time (24 hr) 1615 - 1900 Biologist Lemon(A) Substrate type and % of segments:
(1) Bedrock 50 (2) Boulder 30 (3) Cobble 10 (4) Pebble 5 (5) Sand 5 (6) SR 0(B) Overall % cover of biota (% of segment): Dense Moderate 50% 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. noneFrames

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: Littorine eggs, Mytilus (Nudibranch). Fucus is reproductive

13 gulls 1 river otter

Islands had lots of shell hash w/ bird droppings

4 sea otters including pup

Saxidomus shells and dig holes abundant in places

Eagle sound, none seen

live Protothaca dug from low zone

Ecological Considerations:

School of "minnows"

Reported eagle nest and pinniped haulout could not be confirmed 23 Apr 90
 however an eagle was heard during the survey. The largest offshore rock
 appeared to be developing a gull nesting area.
 This is a subsistence deer harvest area.

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CHECKLIST

- ☐ M Assets
- ☐ Aerial Study
- ☐ Satellite Study
- ☐ On Site
- ☐ Visual
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Ext. Habitat
- ☐ SRI
- ☐ Priority Location
- ☐ Priority
- ☐ Priority Location
- ☐ Priority Location

LEGEND

1 A

Pr. No Substratum CI

2 A

Pr. Substratum CI

CT/C

On/Offshore

CT/B

On/Offshore

CT/P

On/Offshore

CT/S

On/Offshore

CT/D

On/Offshore

CT/V

On/Offshore

CT/W

On/Offshore

CT/X

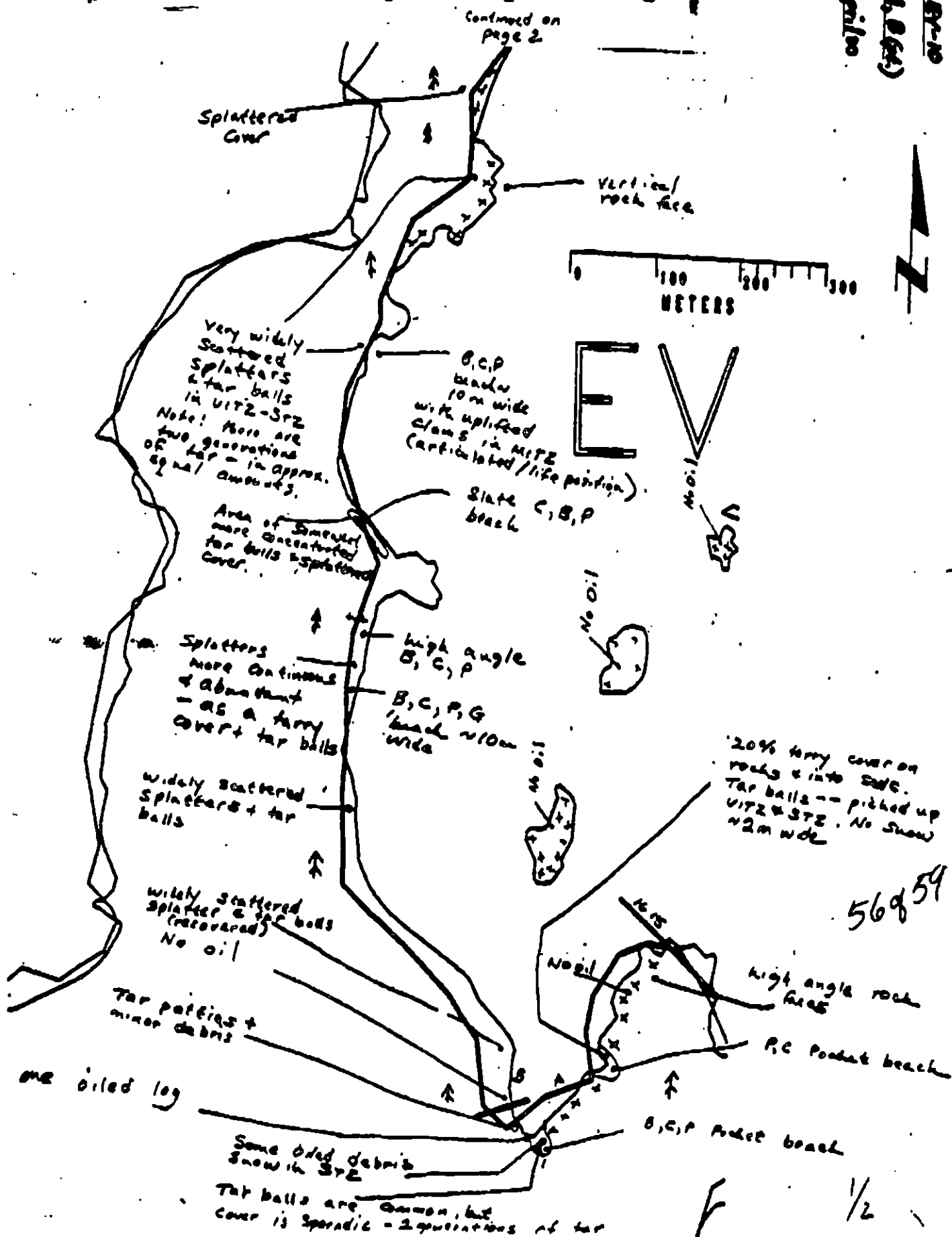
On/Offshore

CT/Y

On/Offshore

CT/Z

On/Offshore



On Character Length (m): AP

PO

CV

CT

ST

MS

PT

TR

FL

NO

NO

NO

NO

NO

NO

NO

SEGMENT ST/ EV-10

SUBDIVISION B (pt)

DATE 25 April 90

CHECKLIST

☐ N Area
☐ Aspect, Slope
☐ Seepage Rate
☐ On Dam
☐ Width
☐ Length
☐ % Cover
☐ Substrate Diagram
☐ Eel (FW/L/SL)
☐ SSL
☐ Pseudo Locusting
☐ Pseudo
☐ Pseudo Locusting
☐ Pseudo Locusting
☐ Pseudo Locusting

LEGEND

1 Δ

Pin - No Substrate OR

2 Δ

Pin - Substrate OR

CT/C

Confidence Distribution

CT/B

Broken Distribution

CT/P

Pseudo Distribution

CT/S

Specialized Distribution

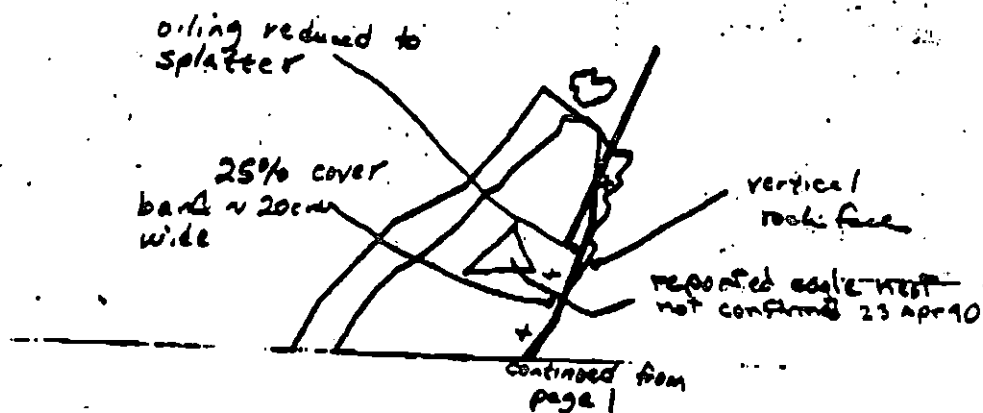
222

Other Vegetation

1 6+

Photo location, elevation,
and number

SKETCH MAP



2/2

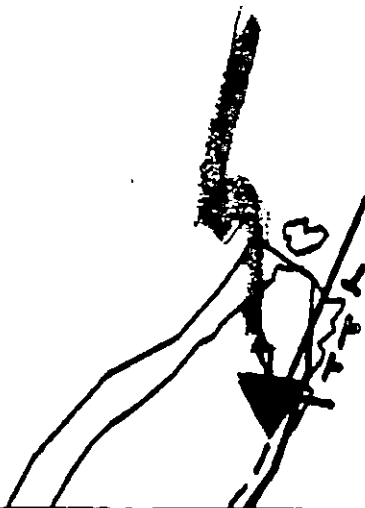
520/59

Character Length (m): A^o PO CV GT ST MS PT TB FL NO

ECOLOGICAL
MAP (1 of 2)

5T
3N1' 30Q
7II

~~Bad Deep Water~~



54 of 59

↓ PWS 177A

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177b

Name: R. Marty

Date: 23 April 1990

Date Entered:

↑ PWS 177B
ECOLOGICAL MAP
(2 of 2)

EV



| | | | | | |
|---|----|------|------|------|------|
| | N1 | 0.95 | 143 | 120 | |
| A | VL | 0.25 | 38 | 32 | 246 |
| | L | 0.75 | 113 | 94 | |
| | N0 | 4.7 | 705 | 509 | |
| B | VL | 10.7 | 1605 | 1342 | 1994 |
| | L | 0.5 | 75 | 63 | |
| | | | 2677 | 2240 | |

53 of 54

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

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177a
 Name: R. Marty
 Date: 23 April 1990
 Date Entered:

↑
PWS 177B

EV



| | | | | |
|---|----|------|------|------|
| A | N1 | 0.95 | 143 | 120 |
| | VL | 0.25 | 38 | 32 |
| B | L | 0.75 | 113 | 94 |
| | N6 | 4.2 | 705 | 589 |
| C | VL | 10.7 | 1605 | 1342 |
| | L | 0.5 | 75 | 63 |
| | | | 2677 | 2240 |

530/54

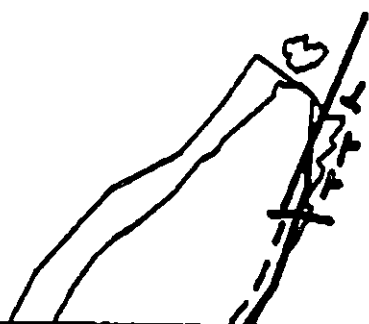
XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light
 0000 No Oil

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177c
 Name: R. Marty
 Date: 23 April 1990
 Date Entered:



54 659

↓ PWS 177A

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-10

ADEC Segment Length: 1876m



Map Key: PWS-177b

Name: R. Marty

Date: 23 April 1990

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-10 SUBDIVISION B (2 of 2)

| WORK WINDOW | |
|---------------|------|
| Manual Pickup | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | | |
|----------|--|--|
| 1K | Purse Seine Hook-off | No constraint to manual pickup. |
| 3N,O,P,Q | Harbor Seal & Sea Lion Pupping and Molting | NO TIME CONSTRAINT. Authorized per memorandum dated 5/14/90 from Kathryn Frost/ADF&G to Mark Kuwada/ADF&G. |
| 5T | Bald Eagle Nest | NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision B work site. |
| 7II | Subsistence: Deer Harvesting | No constraint to manual pickup. |

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum after 7/20. Restrict beach disturbance to essential minimum after 8/15. 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. Avoid any unnecessary disturbance or damage to unrolled blots and substrate.

TAG APPROVAL DATE

ADEC Ran Morris R. Morris
EXXON ANDY TEAL W. Kelly
NOAA _____
USCG _____

FOSC W. Kelly

DATE 8 June 90

Prepared By: J.P. Phillips

Date 6/7/90

EV-06A

EV-60

WORK
AREAS

EV-10

EV-

EV-09

EV-08



Exxon Company, USA
Map Key: PMS-EV-10



ECOLOGY MAP
SEGMENT EV-10
SUBDIVISION B (2 of 2)
METERS

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

SHORELINE EVALUATION

SEGMENT ST/ EV-11 SUBDIVISION A (1 OF 1) DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and
contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance, or damage to uncoiled biota and substrate. Bald eagle nest in adjacent segment.

SHPO SIGNATURE: Charles E. Brown DATE: 5/2/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 26 m: No Oil 223 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/2/90.

ADEC ART-WEINER *Art Weiner*

EXXON *Andy TGAZ [Signature]*

NOAA Gary P. Jones Gary P. Jones

USCG KENNETH KEANE

FOSC: DATE: 6-19-80.

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/1)
 1E Main Bay Hatchery release (4/20 to 6/10)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 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 Evelyn Biggs 424-3235
- Harbor seal and sea lion pupping (5/15 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 Rothy 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 6/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (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 (5/1 to 9/30)
 7HH Finfish harvesting
 7II Deer harvesting (8/15 to 2/28)
 7IU Invertebrate harvesting
 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/ EV-11 SUBDIVISION: EV-11A (101) DATE 4-20-90

NOAA

NAME Michael Buchman SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Majority of this segment (~90%) is a vertical rock wall with focus covered boulders at water line. Very light stain/splatters were seen from boat in this area. The small pocket beach of boulders/cobbles also had a band of light staining. (This beach was walked.)

ADEC

NAME John Hayes SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Light tar stain + random tar splashes observed on this segment. Segment is very lightly oiled no treatment recommended.

LAND MANAGER

NAME Steve Ward - Chenega Corp. SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Above information is accurate. I agree with above comments.

SHORELINE OILING SUMMARY

REVISION NO. 04/13/88

OG MIKE FUGET ~~NOAA~~ Michael Buckman SEGMENT ST/ EU-11
 BIO KATHLEEN Conlin LAND REP STEVE WARD SUBDIVISION A (1 OF 1)
 OXON Larry Olson ADEC John Hayes TIME 13:05 10/8:30
 TEAM NO. 11 TIDE LEVEL 2.4 DATE 4/20/90
 EST. SUBDIVISION LENGTH: 385 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☒ Rock very rocky cliff back shore
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 70 % B 25 % C 5 % P 0 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 20 % Hang 10 % Vert 70 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 20 m NO 365 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|----|----|----|----|----------------|---|---|---|
| | N | S | E | W | BR | BL | GY | OR | TR | SU | U | M | V |
| ASPHALT PAVEMENT | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | | |
| STAIN | | | | X | X | | | | | X | | | |
| MOUSSE | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | X | | X | X |

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

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE 0#BAGS 0

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 | | VO | VC | BR
/ R | BL
/ W | GY
/ L | OR
/ L | TR
/ L | SU | W | M | U | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | |

COMMENTS

No pits were excavated due to the nature of the shore zone, only some very light staining was observed in the H172 among the rock face. No oiling was observed underneath the cobble. Shore zone consists mostly of vertical rock face w/ a small pocket N/C bench at the southern end of the segment.

REVIEWED JWDATE 4-23-9

OG Mike Foget

SEGMENT ST/ EV-11

SUBDIVISION A

DATE 4, 20 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ E.M. HVL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PR Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

PI - No Subsurface Oil

2 ▲

PI - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

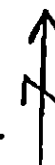
Splashed Distribution

Oiled Vegetation

1 ●→

Photo location, direction,
and number

SKETCH MAP



scale



100 m

Legend

/// - vert rock cliff

○ - Large Boulder

▲ - trees

10m vert rock
cliff

vert rock cliff w/ some
Large Boulders and
a 1m x 10m ST/S in the
HITZ on the rock face

Low angle D/C Beach
1m x 10m ST/S staining in
the HITZ



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 20 MS 0 PT 0 TB 0 FL 0 NO 365

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/ EU-11 Subdivision A (1 DE 1) Date (mo / day / yr) 4 / 20 / 90Time (24 hr) 1812-1825 Biologist KATHLEEN CONLAN

(A) Substrate type and % of segments:

(1) Bedrock 70 (2) Boulder 25 (3) Cobble 5 (4) Pebble 0 (5) Sand 0 (6) Silt 0(B) Overall % cover of biota (% of segment): Dense 90 Moderate 10 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 (O)

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:

3 BIRD EAGLES

Ecological Considerations:

EV-13

EV-11

E

F

EV-40

EV-11A

EV-11A

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

ADEC Segment Length: 249m



Map
Date

SHORELINE EVALUATION

SEGMENT ST/ EV-12 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Stream in segment not in ADF&G anadromous catalogue (USGS Seward A-3; Rev. 12/89).

SHPO SIGNATURE Charles Zeff

DATE: 4/25/90

OILING CATEGORIZATION:

Wide 147 m: Medium 47 m: Narrow 71 m: V.Light 30 m: No Oil 361 m
Subsurface Oil Observed: Yes X No Maximum Depth 15 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>X</u> Tarmat: <u>X</u> Removal | <u> </u> Beach Cleaner |
| | <u>X*</u> Other (see comments) |

COMMENTS: Recommended treatment includes 1) manual tarmat removal, 2) manual pick up of mousse and oiled pom pom, 3) bioremediation of cover and subsurface oil in areas around pit locations 1 and 2, 4) do not bioremediate around pits 4 and 5 due to the proximity to the stream unless approved by ADF&G and, 5) *Remove oiled logs if >10% coverage or burn in place if too numerous to remove. No specific time constraints identified.

TAG COMMENTS: ADF&G Approves P/O IN AREA OF PITS 4+5 AND UP TO THE STREAM

TAG APPROVAL DATE: 4/25/90

ADEC Art Weiner
EXXON Andrew
NOAA Joseph Talbot
USCG Kenneth Keane

FOSC: h L

DATE: 5-4-90

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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 Esther Hatchery release (4/15 to 6/1)
 1E Main Bay Hatchery release (4/20 to 5/10)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)
 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 (5/15 to 7/1)
 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 9/1)
 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 (5/1 to 9/30)
 7H-H Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7J Invertebrate harvesting
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EV -12 SUBDIVISION: _____ DATE 4/07/90

USCG
NAME R. H. HARRIS SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

I feel some type of minor cleanup be done to eliminate sporadic oil patch.

ADEC
NAME J. LYNN MARTIN SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

AGREE WITH EXXON OPS. RECOMMENDATION FOR MANUAL REMOVAL OF ASPHALT AND POOLED OILS AREAS. DUE TO THE SIZE OF BEACH I WOULD ALSO SUGGEST MANUAL REMOVAL OF SUBSURFACE OIL ON EAST SIDE OF STREAM. STREAM SHOULD ALSO BE REVIEWED BY AXAD SCAT. SUPER-TIDAL SHOULD REVIEWED AFTER SNOW MELT

LAND MANAGER
NAME Robert S. HARRIS SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Agree with ADEC

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Reimer USCG Hubbard SEGMENT ST/ EV-12
 BIO Zamora LAND REP Salamoff (CWC) SUBDIVISION
 EXXON Garcia ADEC Martin TIME 18:30 to 19:20
 TEAM NO.: 16 TIDE LEVEL: +0.5 to +1 DATE 4/17/90
 EST. SUBDIVISION LENGTH: 542 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock Shrub
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: East to West
 SURFACE SEDIMENTS: R 10 % B 30 % C 20 % P 10 % G 25 % S 5 % M - % V - %
 SLOPE: Long 40 % Hang 60 % Vert - % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 150 m M 15 m N 20 m VL 25 m NO 332 m

SURFACE OIL

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

PAVEMENT: H F (S) 10 sq.m by 3 cm

PATTIES / TARBALLS 1 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | X | |
| Vegetation | | | |
| Trash | | | |
| Debris | | X | |

DEBRIS COLLECTED
☐ YES ☐ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CMCM) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | A N A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|-----------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|-------|----------------------|
| | | OP | OR | OL | OF | NO | | VO | UC | 2C | 2B | 2P | 2R | 3C | 3B | 3P | 3R | | | |
| 1 | 10 | X | | | | | 5 - 10 | X | | | | | X | | X | | | | | PG B |
| 2 | 12 | X | | | | | 5 - 12 | X | | | | | X | | X | | | | | PG C |
| 3 | 30 | | | | | X | - | | | | | | | | | X | | | | PG |
| 4 | 50 | X | | | | | 7 - 15 | | X | | | | X | | X | | | | | PG |
| 5 | 15 | | X | | | | 5 - 10 | X | | | | | X | | | X | | | | PG |
| 6 | 30 | | | | | X | - | | | | | | | | X | | | | | PG |

COMMENTS

Small pocket beach with rocky headlands on either side and fresh water stream in center of bay. Sporadic oil cover on rocky headland on east side of segment. Asphalt mats along east rocky cliff in upper/super tidal zone and on beach just to west of stream. A sporadic cover of oil was found across most of beach (3-10%) in mid-upper tidal zone. From pit observations this oiling is heavier and wider on east side of stream. This subsurface band appears to connect with asphalt along rock cliffs.

SHORELINE ECOLOGICAL SUMMARY

REVISION: 00/2/90

Segment ST / EV 12 Subdivision 1870 on Date (mo / day / yr) 4 / 7 / 90
Time (24 hr) 1930 off Biologist TONY RAMORA

- (A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder 30 (3) Cobble 20 (4) Pebble 35 (5) Sand 5 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 5 Moderate 15 Low 80
- (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-16-6

Frames 1-10

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:

- OBSERVED 4 OTTERS, 1 CORNIFRANT
- EGGS - GASTRO UNID. IN MI, POLLINICES egg CASE
- LG CLAM SHELLS SEEN, PTEROPODIA IN LI

Ecological Considerations: 7II, 7JJ, 1A/B

(MAP ON REVERSE)

OG Rein

SKETCH MAP

SEGMENT ST/ EV-12

SUBDIVISION _____

DATE 4 / 7 80

CHECKLIST

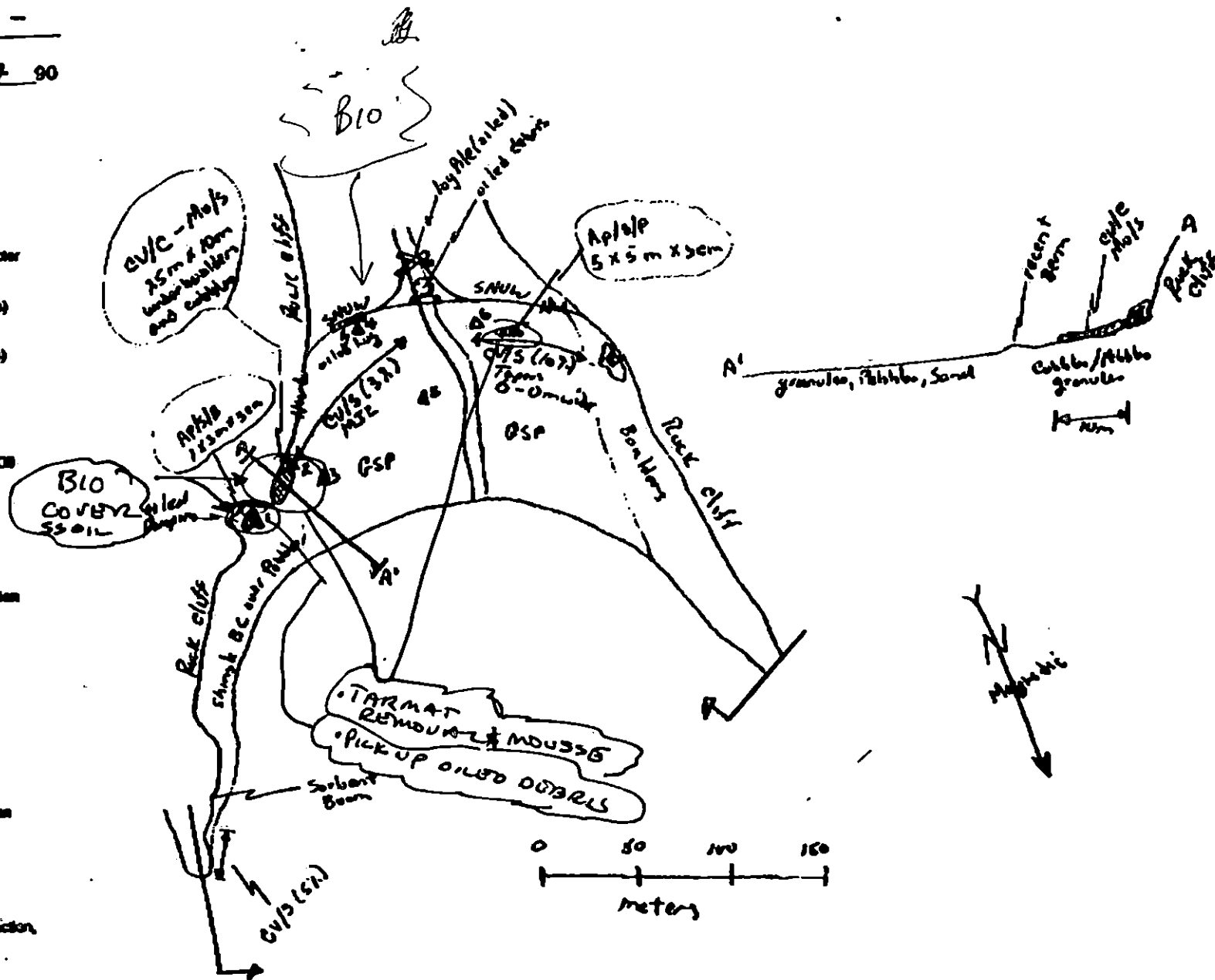
- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Of Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. MYLAWL
- ☒ SSR
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

- 1 
 P1 - No Subsurface Oil
- 2 
 P2 - Subsurface Oil

- CT/C
Continuous Distribution
- CT/D
Broken Distribution
- CT/P
Patchy Distribution
- CT/S
Splashed Distribution

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

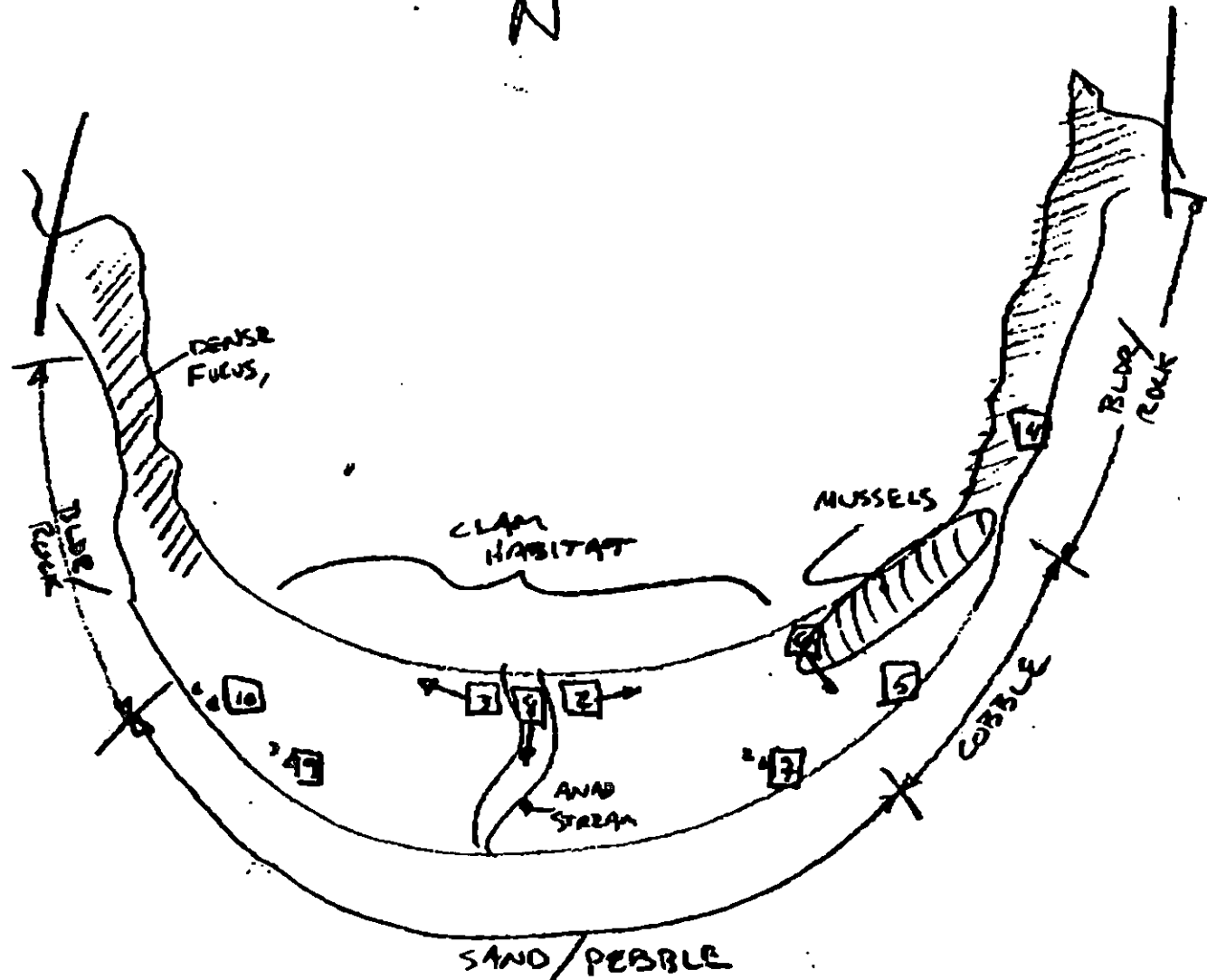


Oil Character Length (in): AP 8 PO — CV 185 CT — ST — MS 25 PT — TB — FL — NO 332

REVISION: 00-01-00

EU-12

PHOTO LOCATIONS



EV-13

EV-

V-12

EV-40

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

EV-12

ADEC Segment Length: 667m

0 100 200 300
METERS

Map Key: PWS-180

Name: Reimer

Date: 4/7/90

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS**SEGMENT EV-12 SUBDIVISION A (1 of 1)****WORK WINDOW**

| | |
|--|--|
| Manual Pickup
Tarmat Removal
Oiled Log Removal/Burning | OPEN |
| Bioremediation More Than 100m From Stream | WORK PRIOR TO 7/25 |
| Bioremediation Less Than 100m From Stream | WORK PRIOR TO 7/10
(ADF&G MONITOR REQ.) |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | |
|---|--|
| 1A,1B Salmon Stream | ADF&G uncatalogued anadromous stream is present in Subdivision A. This subdivision is closed to bioremediation less than 100m from stream 7/10 to 8/31. Before 7/10, bioremediation is permitted less than 100m from stream with on-site ADF&G monitor or ADEC alternate present. No constraint to bioremediation more than 100m from stream. No constraint to manual pickup, tarmat removal, and oiled log removal/burning. |
| 1K Purse Seine Hook-off | No constraint to manual pickup, tarmat removal, and oiled log removal/burning; closed to bioremediation after 7/25. |
| 7II Subsistence:
Deer Harvesting | No constraint to manual pickup, tarmat removal, and oiled log removal/burning; closed to bioremediation after 8/15. |

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. No flushing of pollutants or sediments into stream drainage. Restrict boat and air traffic to essential minimum after 7/25. Restrict beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

**SEE ANADROMOUS FISH STREAM EVALUATION ADDENDUM (SEGMENT EV-12)
FOR ADDITIONAL CONSTRAINT INFORMATION**

TAG APPROVAL DATE 6/04/90
 ADEC Ray Morris
 EXXON Amy TEAL
 NOAA Joseph Talbot
 USCG G.A. Reiter

FOSC

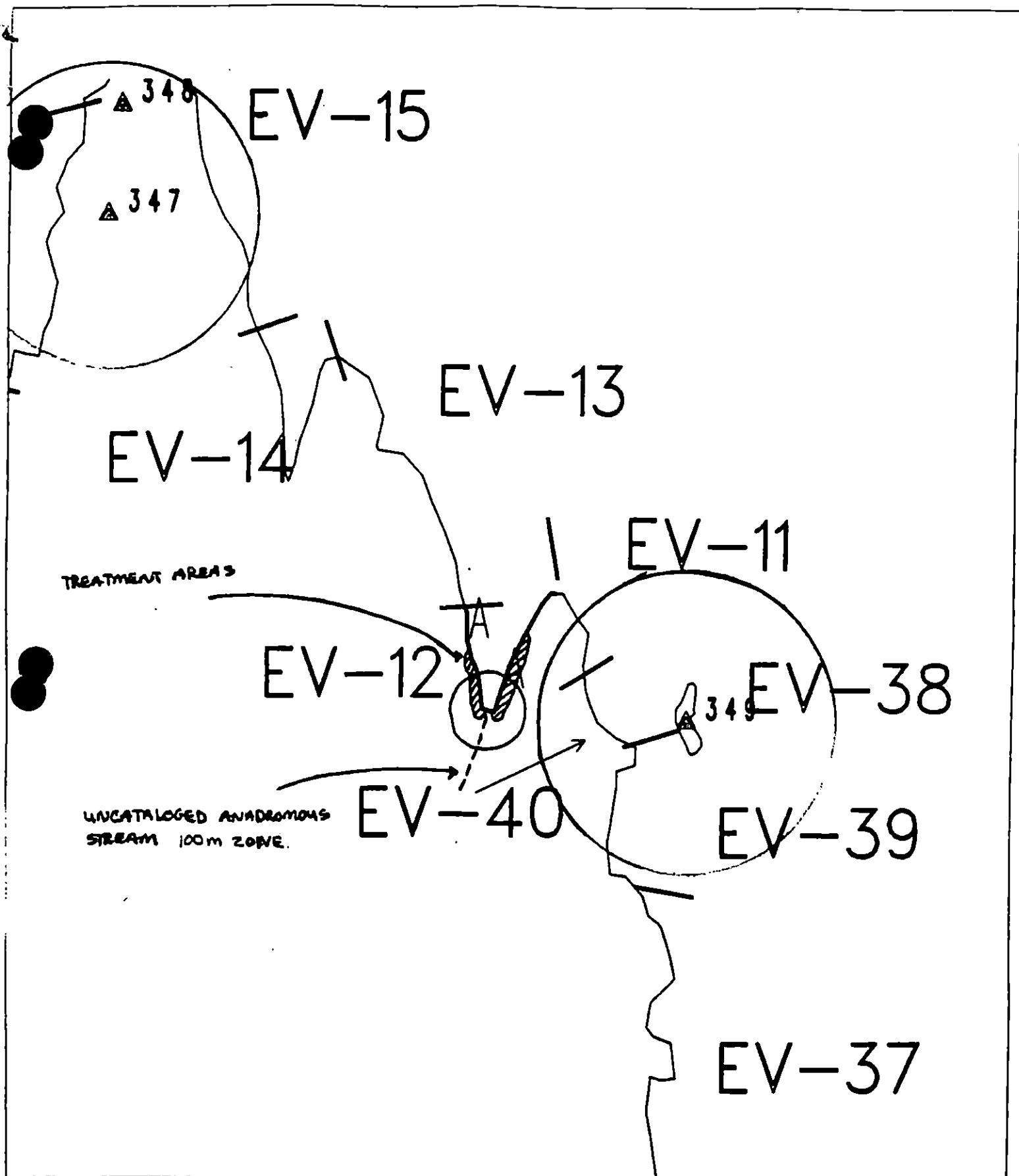
[Signature] Date 6/7/90

Prepared by

[Signature]

Date

6/3/90



Exxon Company, USA

Map Key: PMS-EV-12

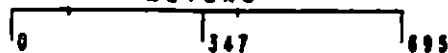
May 11, 1990



ECOLOGY MAP SEGMENT EV-12

SUBDIVISION A (_L_ of _L_)

METERS



- ★ Seabird Colony
- ▲ Eagle Nest

1 inch = 1139 feet

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. UNCATALOGUED

SEGMENT EV-12 SUBDIVISION A

WORK WINDOW

Manual Pickup

OPEN

Bioremediation and Manual Raking
Less Than 100m From Stream

WORK PRIOR TO 7/10
(ADF&G MONITOR REQ.)

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

An ADF&G uncatalogued anadromous stream is in Subdivision A. This subdivision is closed to bioremediation less than 100m from stream 7/10 to 8/31. Before 7/10, bioremediation is permitted less than 100m from stream with on-site ADF&G monitor or ADEC alternate present. No constraint to bioremediation more than 100m from stream. No constraint to manual pickup.

1K Purse Seine Area

Closed to bioremediation and manual raking after 7/25. No constraint to manual pickup.

7II Subsistence: Deer Harvesting

Closed to bioremediation and manual raking after 8/15. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. No flushing of pollutants or sediments into stream drainage; do not allow Inipol to enter stream flow. On-site examination and consultation by ADF&G monitor is required prior to bioremediation in order to authorize a setback distance from the stream during chemical application; if ADF&G monitor's presence is impossible, authorization may be given by the ADEC monitor. Restrict boat and air traffic and beach disturbance to essential minimum after 7/20. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-12A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

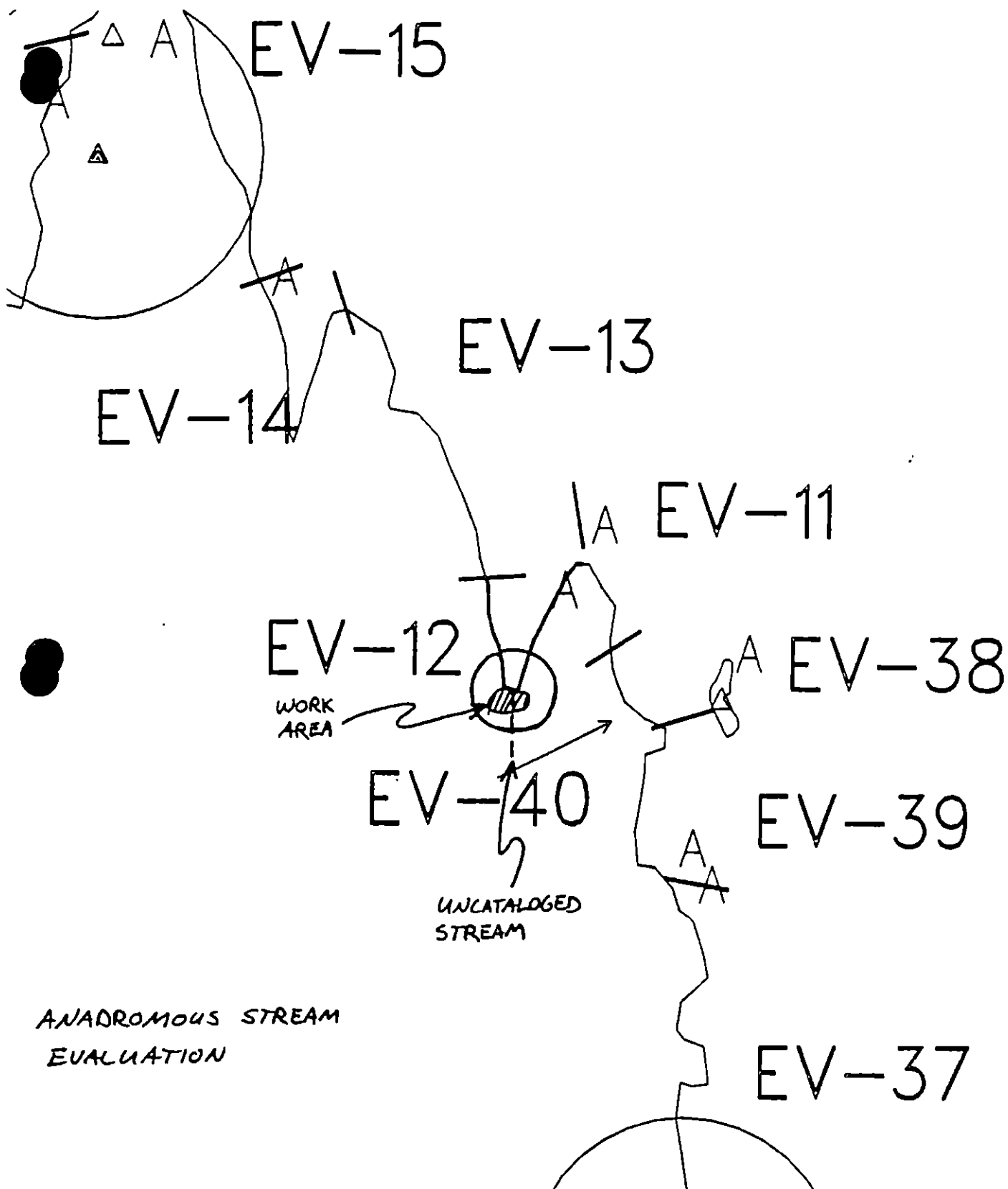
Prepared by

Date

Date

6/14/90

6/14/90



ANADROMOUS STREAM
EVALUATION



Exxon Company, USA

Map Key: PWS-EV-12

June 04, 1990



ECOLOGY MAP
SEGMENT EV-12
SUBDIVISION A (1 of 1)

METERS



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

1 inch = 1130 feet

ASAP FOLLOWUP RECOMMENDATIONS

Segment: AS/ EV-12 Subd.: A (ANAD.) Site: _____ Date: 8-7-90 1990

Conditions Observed: On west side of stream is an area of AP, SOR left after Summer '90 treatment. On east side of stream is an area approx 15m x 3m of AP and OR/OR from 15m-20m surface penetration.

Followup Recommendations: ASAP/ Survey crew recommends the manual removal of surface AP and subsurface OR and heavier oil to a depth of 15cm-70cm. Area on EAST side of stream should be thoroughly tilled and bioremediated as should area requiring manual removal.

Completed by Pickup Crew: ☐ YES ☒ NO

Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC

BOB MCCREARY
(name)

Robert G. McCreary
(signature)

Comments: For area East of stream the mechanical removal of small boulders covering oil and OR sediments would greatly facilitate treatment.

Exxon

JOHN DEAN
(name)

John Dean
(signature)

Comments: PREVIOUS WORK IN AREA RATHER INTENSIVE. RE-DIGGING ~~THE~~ SOURCE SEEMS TO BE UNDER LARGE COBBLE / SMALL BOULDERS. MANUAL CREW SHOULD BE ABLE TO ROLL ROCKS ADEQUATELY TO REMOVE THIS SOURCE AND BIO REMEDIATE

USCG

DON OREIS LM
(name)

Don Oreis
(signature)

Comments: MANUAL REMOVAL OF OILY GRAVEL IN AFFECTED AREA BY WORK CREW WITH EXPOSED IN PIT ONLY BY ASAP TEAM SHOWED ONLY LIGHT FILM. REAPPLICATION OF "BIO" FOLLOWING MANUAL WORK REQUIRED.

Land Rep.

Steve WARD CUC
(name)

Steve Ward
(signature)

Comments: Agree with local comments and recommendations above

SEGMENT AS / EV-012 SUBDIVISION: A SITE: 1 DATE 8-7-90

LOG

NAME David Lee NOAA SIGNATURE David Lee
Don Davis, GM, USCG☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Area to east of stream was broken up by ASAP crew and contains little free oil. In contrast, a 3x15m area to the west of the stream contains a large amount of mobile oil despite earlier work efforts. This area should be treated (manual removal, bio, raking) in 1990 and checked in 1991.

DEC

NAME Rob McCreedy SIGNATURE Rob McCreedy☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

An area east of stream approx 3m x 20m light AP and OR oil requires storage, tillage, distributing down beach, and bioremediation. An area west of stream requires manual removal of surface AP and subsurface oil to 20cm followed by storage, tillage and bioremediation. An ASAP Followup Recommendations form was submitted calling for these treatment recommendations.

AND MANAGER

NAME Steve Ward CU SIGNATURE Steve Ward☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Enough oil west of the stream to need more manual in '90. Check Sub Surface oil.

XXON

NAME John Dean SIGNATURE John Dean☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

THE AREA WEST OF STREAM JUSTIFIES ADDITIONAL WORK IN '90 PER "ASAP Follow-up Recommendations" & REASSESSMENT IN '91

1. CURSOR WAS LOCATED ON BOTH SIDES OF THE
STREAM. THE SOR WAS LOOSE, GRANULAR MATERIAL THAT WAS BROKEN
IN THE FIELD BY THE CREW. THE CU WAS SET IN BOUNCERS IN THE
S/E PORTION OF THE SITE. THIS AREA SHOW SIGNS OF PREVIOUS
TREATMENT. THE STREAM WAS NOT CATALED AS PER THE AVAL. MAP/SUM. FORM

GENERAL DATA

SEG ID: EV012 SBOV: 1A SITE: 1 TEAM: 3 DATE: 8/7/90
SITE LGTH 667 OIL CATEGORIES: W - M 15 N - VL 15 NO 637 U -
1991 REASSESSMENT: USCG: Y ADEC: Y LONGR: Y EXXON: Y

SURFACE DATA

CHAR #: 1 OIL CHAR: SOR OIL DIST: CONT - BRKN - PTCH - SPLH 15
TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 2 OIL CHAR: CV OIL DIST: CONT - BRKN 15 PTCH - SPLH -
TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 3 OIL CHAR: ST OIL DIST: CONT - BRKN - PTCH - SPLH 15
TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 4 OIL CHAR: NO OIL DIST: CONT - BRKN - PTCH - SPLH -
TIDAL ZONE: SU X UI - MI X LI X

CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
TIDAL ZONE: SU UI MI LI

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TIDAL ZONE: SU UI MI LI

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TIDAL ZONE: SU UI MI LI

CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
TIDAL ZONE: SU UI MI LI

ASAP DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: EV012 SUBDIV: A SITE: 1PIT # 1 PIT DEPTH 20 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 7
CLEAN BELOW: Y PIT ZONE: SU - UI X MI - LI -SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN X MUD - VEG -PIT # 2 PIT DEPTH 20 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 17
CLEAN BELOW: Y PIT ZONE: SU - UI X MI - LI -SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN X SAN X MUD - VEG -PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

OG Reim

SEGMENT ST/F

SUBOMISIO

DATE

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LEGEND

1 A

Pl - Site Suburban

2 A

Pl - Suburban Old

CTAC

Controlled Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Spotted Distribution

Cold Vegetation

1

Place location, direction, and number

EVANS ISLAND

Access & remove
AP 1 OP 1 SOR/H
+ BIO

8/7/90
SOR/I
10X11
ST/S

8/7/90
PTI

8/7/90
SOR/S
ST/S
5X11
BROKEN BY
FIELD CREW

8/7/90
PT2

5/7/90
CU/B
15X3M

8/7/90
STREAM
UNCATALOGED
AS PER ANNO SUMMARY

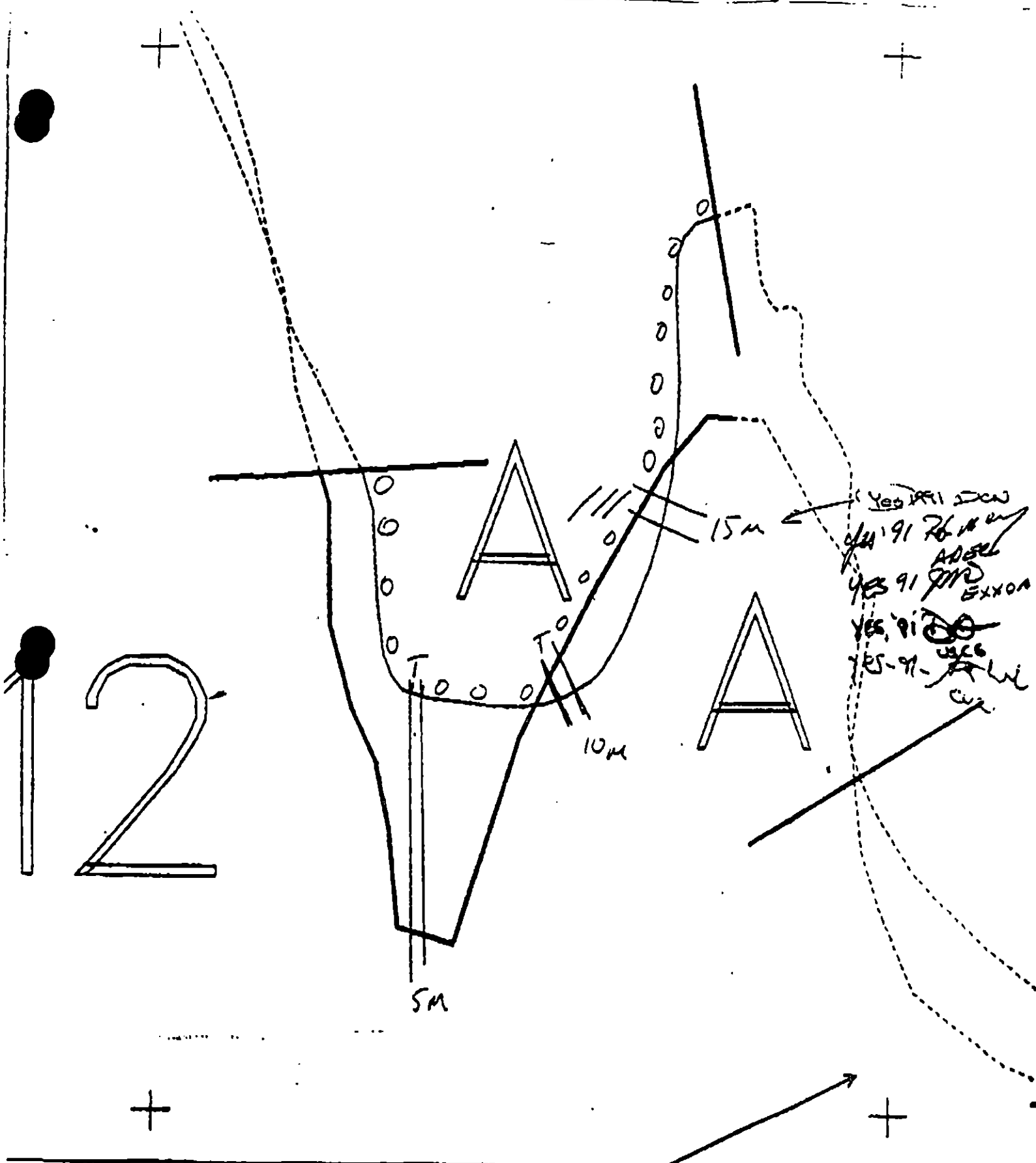
PWS

60 100 150
meters

N
direction

inches (length) AP 8 PO CV 185 CT BT MS 25 PT TB FI NO 332

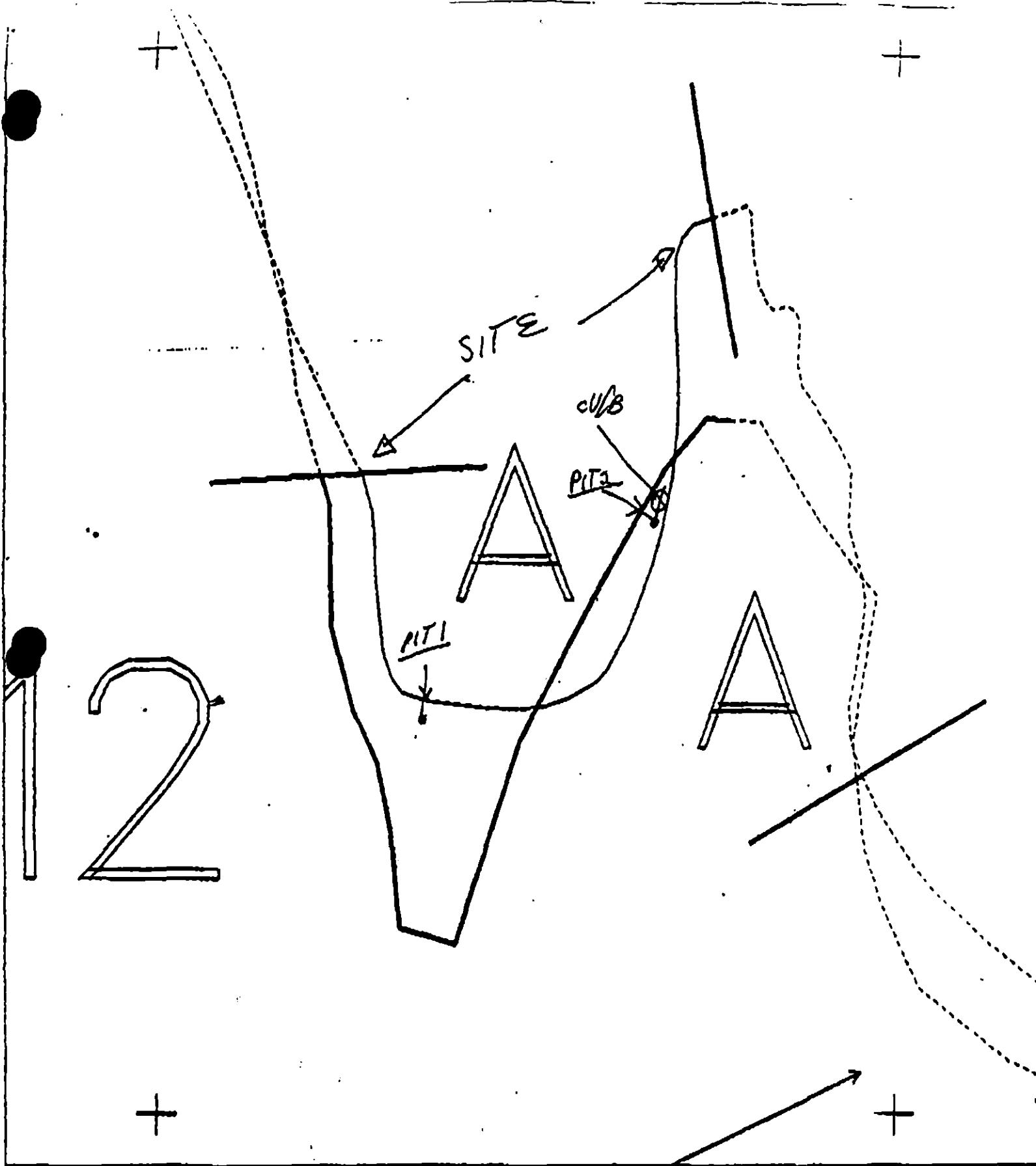
REVISION 03-10-00



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

EV-12 A
 ADEC Subsegment Length: 667m
 METERS
 0 70 152
 AK State Plane Zone 4 1:2000
 dev-120

Subdivision Field Map
 Map Key: PWSEV-12A
 Name: NAKASHIMA
 Date: NAKASHIMA
 Date Entered:



XX
 / / /

 TTTT
 0000

Wide
 Medium
 Narrow
 Very Light
 No Oil

EV-12 A
 ADEC Subsegment Length: 667m
 METERS

0 176 152
 AE State Plane Zone 6 1:2500
 EV-12A



Subdivision Field Map
 Map Key: PWSEV-12A
 Name: NAKASHIMA
 Date: 8/7/90
 Data Entered:

ASAP TAG REVIEW SHEET

Segment: EV12 Subd: A Site: 1 Date
PRE-Review 11 AUG 90

Priority For Addressing In 1990

☒ HIGH ☐ MEDIUM ☐ LOW ☐ NTR

Treatment

Recommended: MANUALLY REMOVE - POOLED OIL / AP / SQR
and BIO

NO OG SHEET PROVIDED

Priority Site For Reassessment In 1991

YES ☒ NO ☐ YES ☒ NO ☐ YES ☒ NO ☐ YES ☒ NO ☐
☒ CG ☐ ADEC ☐ EXXON ☐ LAND MGR ☐
☒ NOAA

TAG 13 AUG 90
Access AP/OP/HOR & BIO
see sketch

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-12 STREAM NO: UNCATALOGUED DATE 4/22/90

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)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/7/90

Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X Manual Pickup

X 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 includes 1) manual pickup of tar
patties and debris, 2) bioremediation of areas of surface and subsur-
face oil shown on attached sketch map. Work should be conducted be-
tween 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS: IN AREA INDICATED ON THE SKETCH: MANUAL PICKING SURFACE
MATERIAL TO EXPOSE SUBSURFACE MOUSSE, MANUALLY REMOVE
MOUSSE IN THIS BECM, FOLLOWUP WITH BIOREMEDIATION.

TAG APPROVAL DATE: 5/7/90

ADEC ART WETTER

EXXON ANDY TCH

NOAA GARY POTTS

USCG G.A. REITER

FOSC: [Signature] DATE: 5-18-90

NOTIFY CVC 24 HRS PRIOR TO WORK

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)

1E Main Bay Hatchery release (4/20 to 6/15)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (8/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (8/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

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

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3P Harbor seal and sea lion pupping (5/15 to 7/1)

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. 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)

7HH Finfish harvesting

7JJ Deer harvesting (5/15 to 2/28)

Invertebrate harvesting

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

16/53

FIELD SHORELINE COMMENT SHEET

SEGMENT ST EV 012 SUBDIVISION: NO ASCA DATE 4/22/98

USCG

NAME Cmdr J. MC MAHON SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED1. MANUAL CLEAN-UP; REMOVAL TAR BALLS
+ ASPHALT.2. BIOREMEDIATION OF LEFT BERM (LOOKING
ON SHORE)ADFC ~~ADFC~~ Michael WiedmerNAME AD Team member SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

BIOREMEDIATION NOT SUGGESTED.

LAND MANAGER

NAME AD Team member SIGNATURE _____☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY (ANAD.) 19/55

DO WILLIAM LEID USCG McMAHON SEGMENT ST/ EVO12
 BIO MICHAEL FAWCETT LAND REP TOM CROWE ADPC: 5 STRAIN No NUMBER 1 OF
 EXXON GUS GARCIA ADPC MIKE VIERBERG TIME 16:00 to 12:15
 TEAM NO. 15 TIDE LEVEL 2 FT DATE 22 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % S 0 % C 2.5 % P 75 % G 0 % M 0 % V 0
 SLOPE: Long 90 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 10 m N 50 m VL 0 m NO 30

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0PATTIES / TARBALLS 10 BUNEAR SHORE SHEEN? NO BR RW SL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | X | | |
| Vegetation | X | | |
| Trash | | | |
| Debris | | | |

Did You COLLECT
 DEBRIS
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL * OILED INTERVAL < 5cm IN PIT 5 DOES NOT CONSTITUTE SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL | BELOW | | | | OIL / FILM COLOR | | | | PIT ZONE | | | | A | N | A | V | SURFAC. SUBSURF. SEDIMENT |
|---------|----------------|--------------------------|----|----|----|----|----------------|-------|---|---|----|------------------|---|---|----|----------|---|---|----|---|---|---|---|---------------------------|
| | | OF | CR | CL | OF | NO | | W | M | N | VL | W | M | N | VL | W | M | N | VL | | | | | |
| 1 | 35 | | | X | | | 5-10 | X | | | | X | | | | X | | | | | N | | | P/G/L |
| 2 | 30 | | | | | X | . | | | | | | | | | X | | | | | N | | | P/G/L |
| 3 | 20 | | | X | | | 5-10 | X | | | | X | | | | X | | | | | N | | | P/G/L |
| 4 | 35 | | | | | X | . | | | | | | | | | X | | | | | N | | | P/G/L |
| * 5 | 25 | X | | | | | 0-10 | X | | | | X | | | | X | | | | | Y | | | P/G/L |
| 6 | 40 | | | | | X | . | | | | | | | | | X | | | | | N | | | P/G |

COMMENTS

REVIEWED JWDATE 4-28-90

SKETCH MAP

SEGMENT 8T/ EY012

STREAM ~~NO NUMBER~~

DATE 22/ APR 90

CHECKLIST

_____ RI Access
 _____ Approx. Depth
 _____ Depth/In. Study
 _____ Off Dist.
 _____ Width
 _____ Length
 _____ % Cover
 _____ Substrate Character
 _____ Est. HML/LYR
 _____ SBL
 _____ Profile Location(s)
 _____ Profile(s)
 _____ Pin Location(s)
 _____ Photo Location(s)

LEGEND

Fig. 10. Surface of

Fig. 2. Surface Oil

CT/C
Our 100% U.S. production

CT/D
Custom Distortion

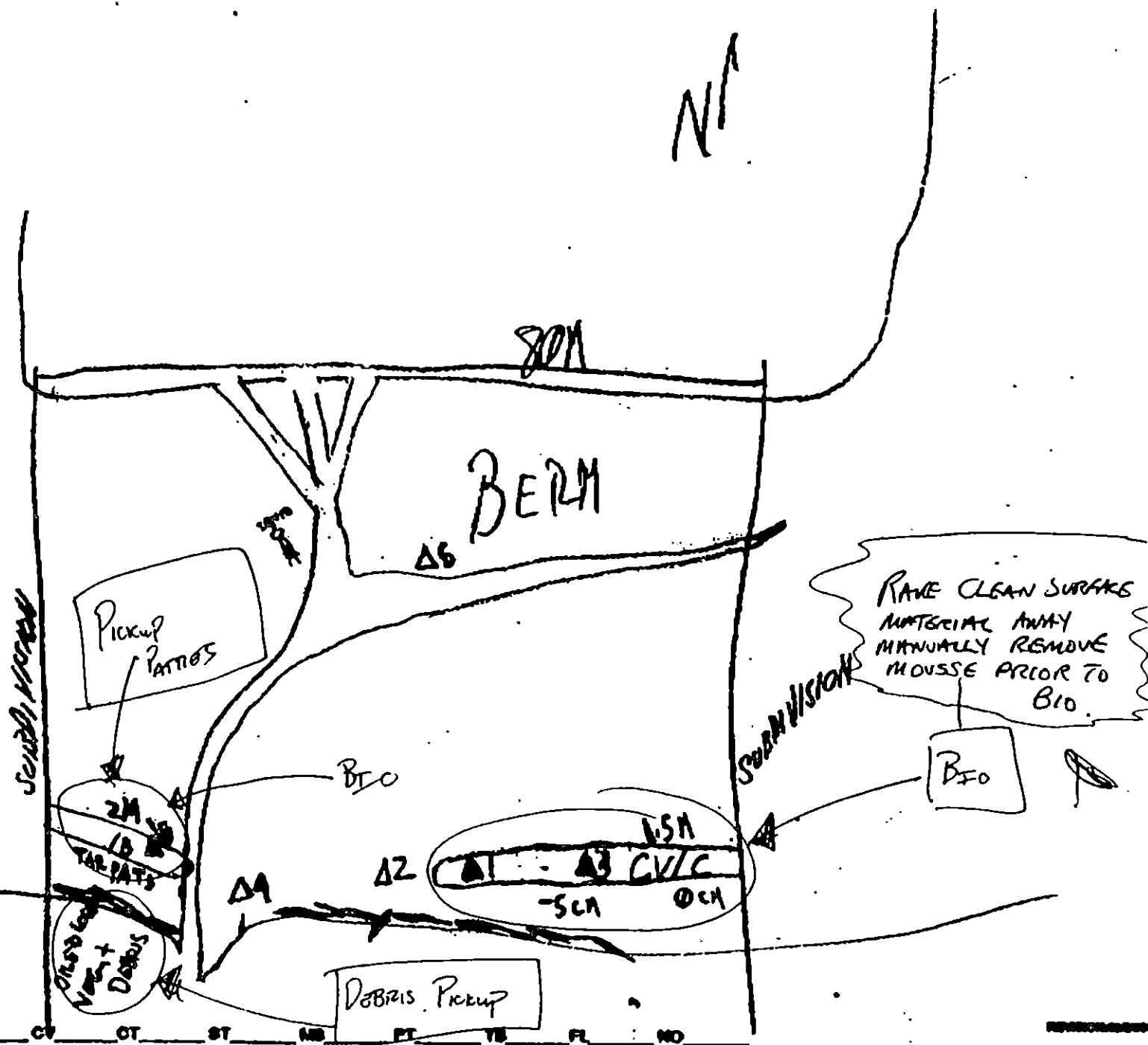
SECRET
Policy Classification

ST/2
Technical Specifications

eee
Old Vegetation

1. **State number, direction, and number**

Oil Character Length (in): AP PO CV OT ST MB PT TE FL



17/55

ADPEC MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS CS DS TS AVS SCA MMB PTA 2 REGION: PNS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90 15 HIGH TIDE TIMES: 1205 1 — 21 TEAM RECORDER: M. WISNER

4 START TIME: 1645 16 HIGH TIDE HTS: 10.0' 1 — 22 OBSERVERS: T. CROW

5 STOP TIME: 1710 17 LOW TIDE TIMES: 0603 1 1814 23 AGENCY: ADPEC

6 SEGMENT #: EV-012 18 LOW TIDE HTS: 1.0' 1.0-7' 24 PHOTOS TAKEN: Y N

7 STATION #: EV-012A 19 TIDE HT AT SURVEY: 1:50' Roll #: _____ Frame: _____

8 K-UNIT: _____ 20 USCG QUAD: SEWARD A3 25 VIDEO TAKEN: Y N TAPES: _____

9 STAT AREA: _____ 26 SAMPLES TAKEN: Y N Number _____

10 LAT: _____ 11 LONG: _____

12 SOURCE: Map Loran Oil _____

13 LOCATION: NORTHEAST END, LARSEN EVANS IS. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

| SHORELINE | | | | STREAM | | | |
|-----------|----|---|---|--------|---|---|---|
| L | V | H | S | L | V | H | S |
| 100 | 75 | | 1 | 75 | 3 | | 1 |

28 SURFACE THICKNESS

| | | | | | |
|-----|-----|-----|---|---|---|
| 5mm | 5mm | 0mm | 0 | 0 | 0 |
|-----|-----|-----|---|---|---|

29 PENETRATION

| | | | | | |
|-----|-----|------|---|---|---|
| 5cm | 5cm | 10cm | 0 | 0 | 0 |
|-----|-----|------|---|---|---|

30 OVERALL OIL IMPACT: N Y L H H

31 OIL TYPES: Pooled Residue Tar Asphalt Sticky Seals

32 OILED DEBRIS? Y N

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 25

Gravel 50 Sand 25 Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? Y N
NOMINATED, NOT CATALOGED

37 CATALOG #: NONE

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

| Species | Aerial | Ground |
|---------|--------|--------|
| | | |
| | | |
| | | |

COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW
EXPOSURE BEACH. TAR MATS 20M X 2M N.W. OF STREAM.
PAILED HOUSE: LENS (5-15 CM BELOW SURFACE; 5-10 CM DIA)
E OF STREAM (25M X 1M). TAR MATS IN SMALL GRAYEL

18/55

45 PHOTOLOG

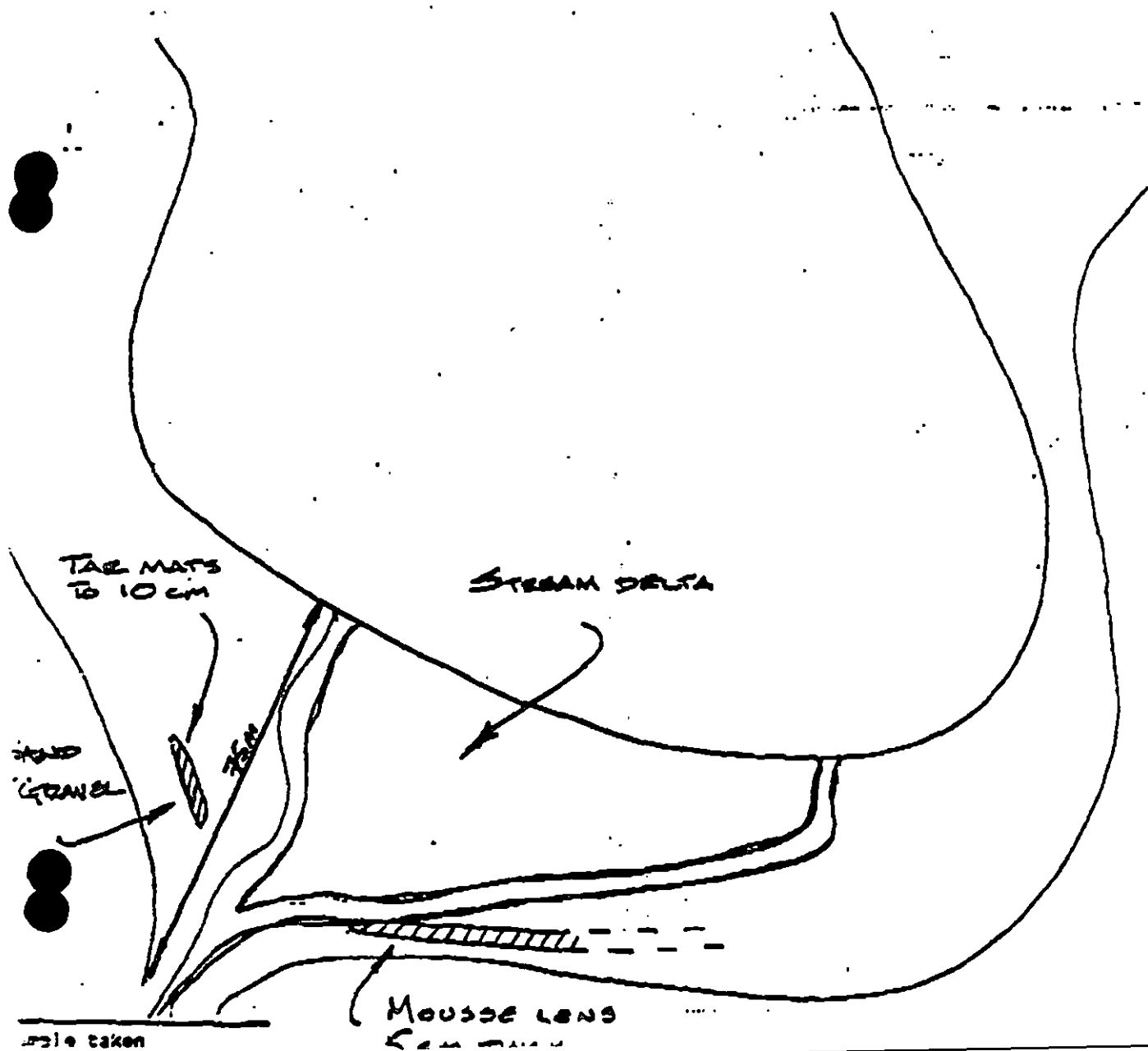
S(S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE
TAR MATS. MANUALLY REMOVE BUBBLED MOUSSE LENS
(REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN)

I agree with recommendations.

M. H. FURNESS

46 OIL DISTRIBUTION DIAGRAM

23/55

Segment EV 012

4/22/90

no stream number

Michael Fawcett

Ecological Summary

This small stream enters via a biologically barren boulder/cobble/pebble/gravel beach in a small cove. More stable sediments and boulders on either end of cove have healthy community of Fucus, barnacles, mussels, etc. Two or three harbor seals were hauled out on rocky point at east end of cove when we arrived. One sea otter and a pair of red-breasted mergansers were also seen.

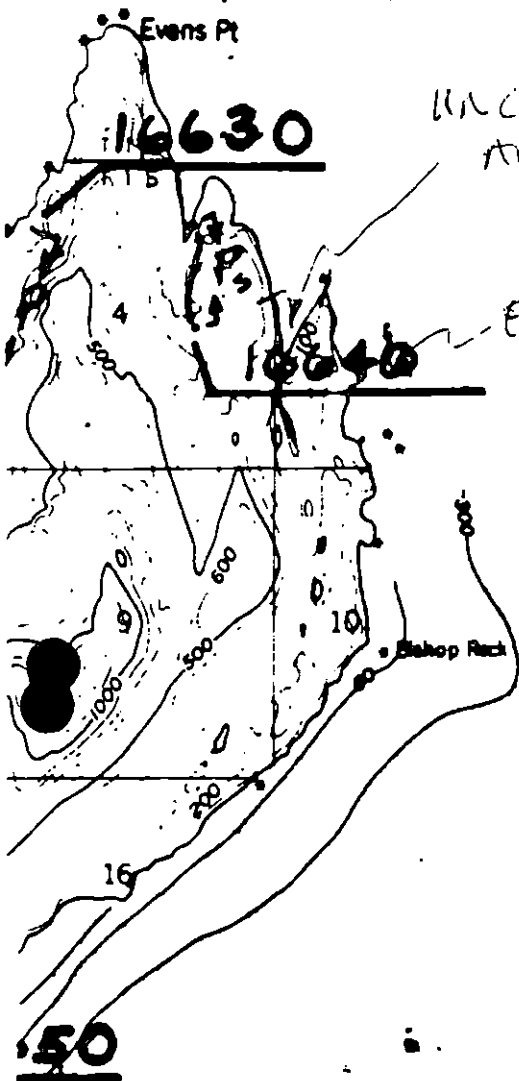
No ecological constraints re: cleanup procedures

M. Fawcett

ECOLOGICAL
MAP

EV-012

P
A
S
S
A
G
E



EV-13

EV-

EV-12

SUBJECT SITE
WITHIN EV-12 A
(1 OF 2)

EV-40

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-12

ADEC Segment Length: 667m



Map Key: PWS-180

Name: Reimer

Date: 4/7/90

Date Entered:

SHORELINE EVALUATION

SEGMENT ST/ EV-014 SUBDIVISION A (1 OF 1) DATE 4/6/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth no. (226-40 #16640)

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

5T All bald eagle nest (3/1 to 6/1)-Active eagle nest (3/1 to 9/1)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint Sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Johnson DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 98 m: Narrow 48 m: V.Light 39 m: No Oil 591 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> </u> Manual Pickup | <u> </u> Absorbents (pads, rolls, etc) |
| <u>X</u> Bioremediation | <u> </u> Spot Washing: <u> </u> Wands |
| <u>X</u> Tarmat: <u> </u> Breakup | <u> </u> Beach Cleaner |
| <u> </u> <u>X</u> Removal | <u> </u> Other (see comments) |

COMMENTS: The recommended treatment activities are as follows: 1) Bioremediation of area shown on attached sketch map, 2) Removal of tarmat along stream (see map) and, 3) Manual pick up of oiled vegetation. Treatment activities should be conducted 5/15 to 7/10 based on above anadromous stream constraints.

TAG COMMENTS:

AFT TIME OF TREATMENT MONITORS TO ASSESS SUITZ.

TAG APPROVAL DATE: 4/17/90.

ADEC Art Weimer Art Weimer
EXXON Arvo Teal Arvo Teal FOSC: DATE: 5-1-90
NOAA Burl Wescott Burl Wescott
USCG KENNETH KEANE Kenneth Keane
Do not bioremediate IAW km's desire.

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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 Esther Hatchery release (4/15 to 6/1)
- 1E Main Bay Hatchery release (4/20 to 5/10)
- 1F Sawmill Bay Hatchery release (4/15 to 6/1)
- 1G Cannery Creek Hatchery release (4/21 to 6/1)
- 1H Remote release site
- 1I Gill net area (6/7 to 8/31)
- 1J Purse seine area (7/20 to 9/30)
- 1K Purse seine hook-off (7/20 to 9/30)
- 1L Set net sites (6/11 to 7/25)
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)
 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 (5/15 to 7/1)
 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 9/1)
 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 (5/1 to 9/30)
- 7HH Finfish harvesting
- 7H Deer harvesting (8/15 to 2/28)
- 7JJ Invertebrate harvesting
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

0

SEGMENT ST SV-14 SUBDIVISION: _____ DATE 4-6-90

USCG

NAME Randolph Hubbard SIGNATURE Randolph Hubbard

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

1. AREA APPEARS TO BE FAIRLY FREE OF OIL DAMAGE, MAYBE IN SMALL SPOT WHERE OIL STAIN OCCURRED I BELIEVE NATURAL ENVIRONMENT WILL DECAY WITH SUBSTANCE REMAINING.

ADEC

NAME J. LYNN MARTIN SIGNATURE J. Lynn Martin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

AGREE WITH EXXON OPS. RECOMMENDATION TO ONLY USE MANUAL CLEANUP TECHNIQUES AROUND STREAM BED TO REMOVE TARMATS AND OIL COATED GRASS.
NO TREATMENT RECOMMENDED FOR LIGHT BANDS OF OIL FOUND IN ROCKY HEADLANDS ON EITHER SIDE OF SEGMENT, DUE TO ACCESSIBILITY.
SUPER-TIDAL NEEDS TO BE LOOKED AT AFTER SNOW MELT

LAND MANAGER

NAME PATRICK SELWAGE SIGNATURE Patrick Selwage

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

BECAUSE OIL WAS FOUND SO FAR UP THE STREAM, I WOULD RECOMMEND THE SUPER-TIDAL ZONE BE REMOVED COVERED OVER.
IF OIL IS FOUND, I WOULD RECONSIDER MY RECOMMENDATION DECISION, IF IT IS A SENSITIVE SALMON CREEK.

SHORELINE OILING SUMMARY

REVISION NO. 08/23/90

OG Reimer USCG Hubbard SEGMENT ST/ EV-14
 BIO Zamora LAND REP Selanoff (CVC) SUBDIVISION A
 EXXON Garcia ADEC Martin TIME 17:27 to 18:25
 TEAM NO.: 16 TIDE LEVEL: +1 to +2.5 DATE 4/16/90
 EST. SUBDIVISION LENGTH: 382 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock Snow
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: East to West
 SURFACE SEDIMENTS: R 10 % B 30 % C 20 % P 20 % G 15 % S 5 % M - % V - %
 SLOPE: Long 80 % Hang 20 % Vert - % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m MA8 m N 140 m VL 50 m NO 192 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|---|---|---|----------------|---|---|---|
| | C | N | E | S | 1 | 2 | 3 | 4 | 5 | SU | U | M | L |
| ASPHALT PAVEMENT | | | X | | X | | | | | X | | | |
| POOLED | | | | | | | | | | | | | |
| COVER | | X | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| COAT | | X | | | | | | X | | X | | | |
| STAIN | | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | - | | X | X |

PAVEMENT: H F (S) / sq. m by 1' cr.

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | X | | |
| Trash | X | | |
| Debris | | | |

DEBRIS COLLECTED
☒ YES ☐ NO

TYPE Pom pom

#BAGS 1

Photographs:

Roll No. ST-16-5

Frames 32-36

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 | | UO | UO | 1 | 2 | 3 | 4 | 5 | SU | U | M | L | | |
| 1 | 20 | | | | | X | . | | | | | | | | | | X | | | GPC |
| 2 | 30 | | | | | X | . | | | | | | | | | X | | | | GP |
| 3 | 25 | | | | | X | . | | | | | | | | | X | | | | GP |
| 4 | 25 | | | | | X | . | | | | | | | | | X | | | | GP |
| 5 | 30 | | | | | X | . | | | | | | | | | | X | | | GPC |
| 6 | 20 | | | | | X | . | | | | | | | | | | X | | | GP |

COMMENTS Pocket beach with rocky headlands on either side, wide tidal flats at stream mouth. Broken oil cover under and around boulders and rock on the east and west side of segment along UIZ. Small (1x3m. x 1cm) pavement patch in UIZ along east side of stream, oiled grass along sides of stream in the backshore. No oil was found on the tidal flats, Super-tidal cover with snow.

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 02/23/90

SEGMENT ST/ EV-14 SUBDIVISION A

SUBSURFACE OIL (CONTINUED)

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM-CH) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A
N
A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|---|---|---|-------------|----------------------|
| | | OP | OR | OL | OF | NO | | UO | UC | BR | BL | GR | GL | OR | OL | OT | ST | SU | U | M | U | | |
| 7 | 30 | | | | | X | . | | | | | | | | | | | | | | X | | CSP |
| 8 | 30 | | | | | X | . | | | | | | | | | | | | | | X | | CSP |
| 9 | 30 | | | | | X | . | | | | | | | | | | | | | | X | | CPS |
| 10 | 35 | | | | | X | . | | | | | | | | | | | | | | X | | CPS |
| | | | | | | | . | | | | | | | | | | | | | | | | |
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| | | | | | | | . | | | | | | | | | | | | | | | | |

COMMENTS

REVIEWED 7W DATE 4/9/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST / EV-14 Subdivision — Date (mo / day / yr) 4 / 6 / 90

Time (24 hr) 1927 ON 1825 OFF Biologist TONY FAMORA

(A) Substrate type and % of segments:
(1) Bedrock 6 (2) Boulder 30 (3) Cobble 20 (4) Pebble 35 (5) Sand 15 (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: ST-16-5
Roll No. —

Frames 32-36

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

- BEDROCK OVERALL ALGA COVERING IS DENSE, FUCUS ~50% WITH PALMARIA, FIL. GRN. (FILAMENTOUS GREEN ALGAE)
- BIOTA DENSE ONLY ON ROCKY POINTS BORDERING SAND/PEBBLE BEACH.
- LITTLE SEEN ON BEACH EXCEPT: FEW LAMINARIANS ANCHORED TO PEBBLES AND BARNACLES ON LG. PEBBLE.
- 30% MORTALITY OBSERVED OF OIL COATED BARNACLES
- UNDER COBBLE IN LOW TIDE: LEPASTEREIDS, URCHIN, ALMARIDS, BRYOZOANS, GU. SPIROBIDS, OLIGOCHATES, NEMERTANS, AMPHIPODS
- WILDLIFE: SEA LION.
- ECOLOGICAL COMMENTARY: 1 A/R 2 TT C.I.

DATE 4 / 6 90

CHECKLIST

- ☒ Answer
- ☒ Approx. Scale
- ☒ Substr. Binary
- ☒ Oil Dist.
- Width
- Length
- % Cover
- ☒ Substrate Character
- ☒ Est. HML/LWL
- S/L
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- Photo Location(s)

LEGEND

1 A
FR - No Substance Of

2 ▲
Fig. Subsurface Oil

CT/C
Controlled Distribution

CT/B
Freien Distribution

CT/P

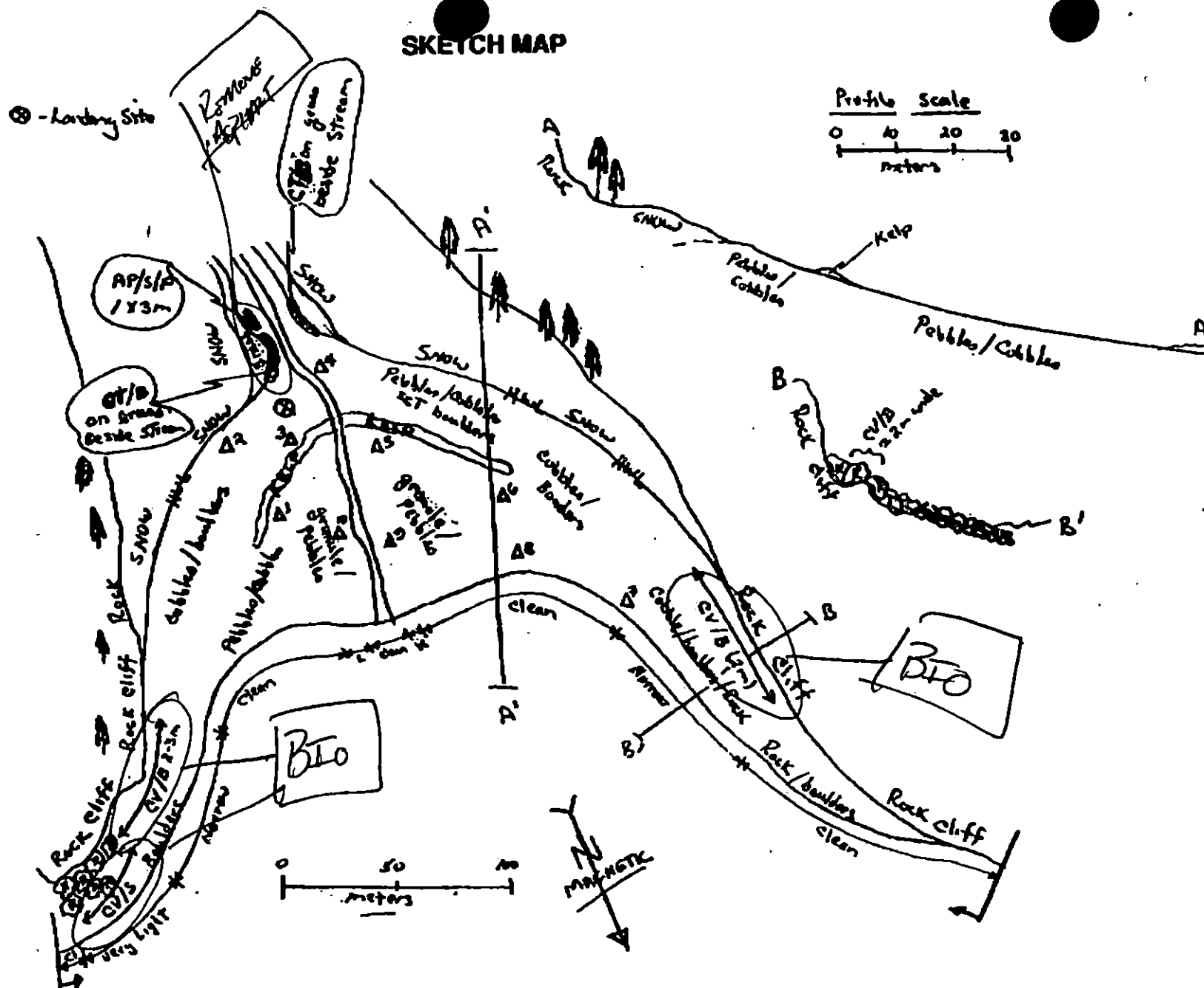
Patchy Distribution

CT/S
Selected Distribution

Oiled Vegetation

Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP 1 PO 0 CV 190 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 101

NEW YORK, NY 10000

EV -

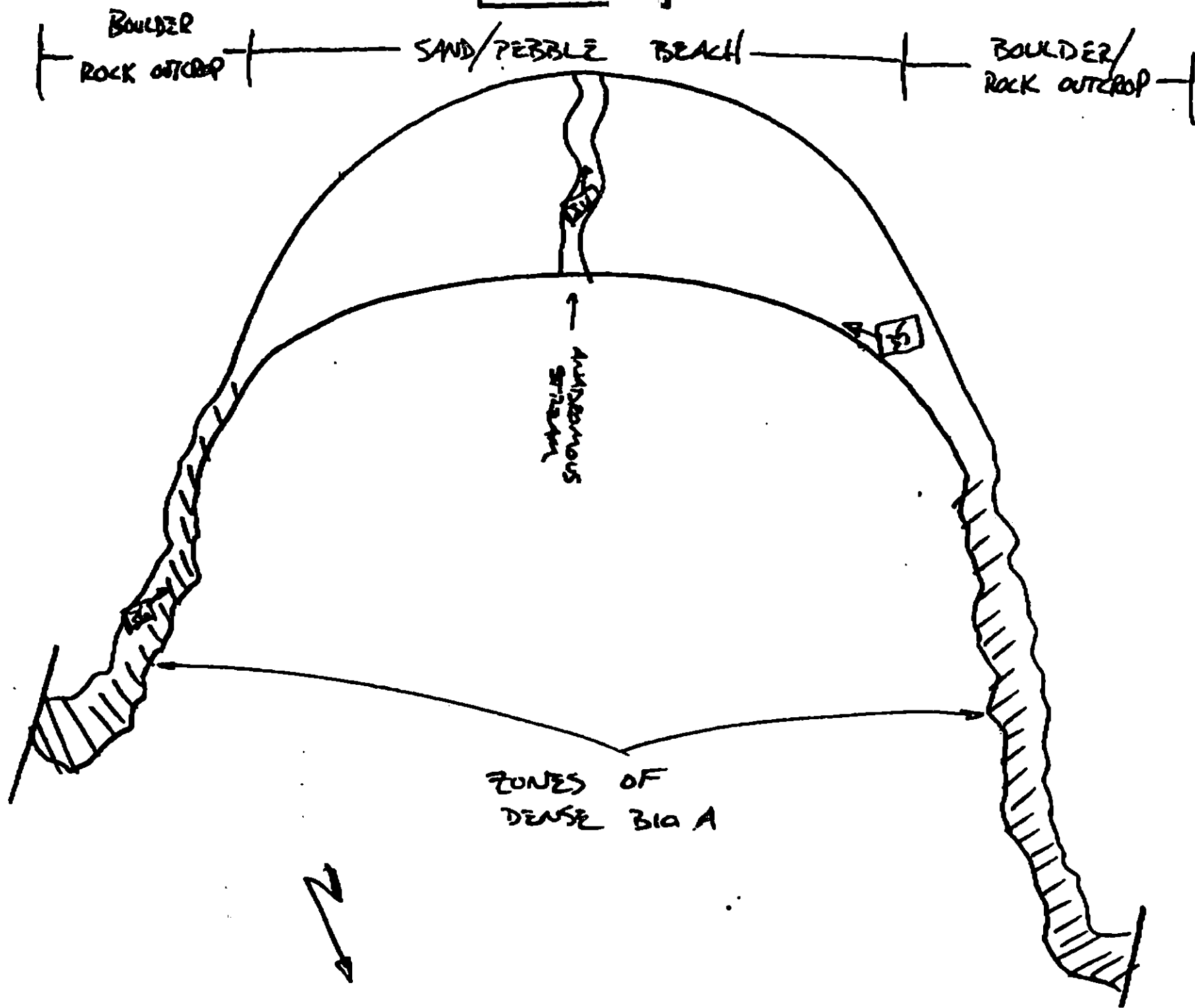


Figure 1.10: A hand-drawn geological cross-section diagram of a beach area. The diagram is bounded by two vertical lines at the top, labeled "BOULDER ROCK OUTCROP" on the left and "BOULDER/ROCK OUTCROP" on the right. The central area is labeled "SAND/PEBBLE BEACH". A wavy line representing a stream or river flows from the top center down into the beach area. An arrow points to this line with the label "Autogenous strata". On the right side of the beach, a small box contains the number "35". At the bottom of the diagram, two arrows point to the left and right sides of the beach area, with the label "ZONES OF DENSE BIOA" below them. A north arrow is located in the bottom left corner, pointing towards the bottom right.

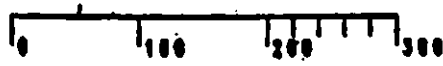
EV-14 EV

EV 12

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

EV-14

ADEC Segment Length: 777m



Map Key: PWS-182

Name: Reimer

Date: 4/6/90

Note Entered:

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-14 STREAM NO: 226-40-16640 DATE 4/22/90

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)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unopened biota and substrate. Subject stream located in Subdivision A (1 of 1).

SHPO SIGNATURE: *J. David M. Baker* DATE: 5/8/90

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> </u> Manual Pickup | <u> </u> Absorbents (pads, rolls, etc) |
| <u> </u> Bioremediation | <u> </u> Spot Washing: <u> </u> Wands |
| <u>X</u> Tarmat Removal | <u> </u> Beach Cleaner |
| | <u> </u> Other (see comments) |

COMMENTS: Recommend manual removal of tarmats as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/17/90

ADEC *Art Wenger*

EXXON *Andy*

NOAA *Gary Petrac*

USCG *G.A. Reiter*

FOSC: *W L*

DATE: 5-18-90

Access need for ~~custodian~~
following TARMAT removal. Notify CVC
24 Hrs prior to work.

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

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, prior to July 31 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 Esther Hatchery release (4/15 to 6/1)

1E Main Bay Hatchery release (4/20 to 6/10)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (6/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (6/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

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

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3P Harbor seal and sea lion pupping (5/15 to 7/1)

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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2206

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation: Tent sites (8/1 to 9/15)

6V Anchorages (8/1 to 9/15)

6W Forest Service cabins (8/1 to 9/15)

6X Lodge (8/1 to 9/15)

6Y Special use destination

7Z Subsistence area: Salmon harvesting (5/1 to 9/30)

7HH Finfish harvesting

7HJ Deer harvesting (8/15 to 2/28)

7HJ Invertebrate harvesting

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

34/53

FIELD SHORELINE COMMENT SHEET

SEGMENT ST EV 014 SUBDIVISION: 16640 DATE 9/22/90

USCG

NAME CWO McMAHONSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE ASPHALT AT
RED STAKE.

~~ADFC~~
~~ADEC~~NAME Michael WiedmerSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

IN ADDITION TO ABOVE MANUAL CLEAN-UP OF
TAR PATCHES ON WEST SIDE OF CHANNEL
(SEE DIAGRAMS AND ADFC OBSERVATIONS AND
RECOMMENDATION
TREATMENT SUMMARY)

LAND MANAGER

NAME AD Team member SIGNATURE _____☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

3/55

ASC # None

Segment EV-012

Observations The intertidal zone surrounding the stream channel consists mostly of small-grained material. The site has low exposure to wind and waves. Northwest of the channel, in the upper-intertidal zone, tar mats are scattered within a 20 m x 2 m area. East of the channel is a 25 m x 1 m lens (5 - 10 cm thick) of mousse is buried beneath 5 - 15 cm of clean sand.

Treatment Recommendations Manually remove surface tar mats. Uncover subsurface mousse lens and remove oiled sand. Do not remove clean overburden above subsurface lens.

ASC # 226-40-16640

Segment EV-014

Observations This is a well-protected, sandy, gravelly beach. Northwest of the stream channel in the upper-intertidal zone are scattered tar patches. Tar mats and patties are scattered on the east bank of the stream, within the extreme upper-intertidal zone. At this point, there are some oiled gravels and cobbles within the submerged portion of the stream channel. No buried oil was observed.

Treatment Recommendations Manually remove all tar mats and patties from the beach adjacent to the channel, from the stream bank, and from the stream channel.

ASC # 226-40-16390

Segment EV-005

Observations This site is a small pocket cove confined on either side by bedrock walls. Tar patties are scattered in a ring around the high tide line on either side of the channel. The bedrock outcrop at the western entrance to the cove has significant surface coverage of tar. Some living biota remains or has re-invaded these areas, although in lower concentrations than in nearby clean areas.

Treatment Recommendations Manual removal of tar mats on the high tide line. No treatment is recommended for the bedrock outcrop.

SHELF OILING SUMMARY (ANAD.) 39/53

OG William Reid USCG McMAHON SEGMENT ST/ EY014
 BIO MICHAEL FAVCETT LAND REP TAM CROWL ADEC STATION 226-40-16401 OF
 EXXON Gus Garcia ADFG MIKE WILSON TIME 13:32 to 17:00
 TEAM NO. 15 TIDE LEVEL 4.0 DATE 22 / APR / 90
 EST. SUBDIVISION LENGTH: 300 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 40 % B 60 % C 40 % P 60 % G 40 % S 40 % M 40 % V 40
 SLOPE: Long 100 % Hang 40 % Vert 40 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hi
 OIL CATEGORY LENGTH: W 4.5 m M 4.5 m N 4.5 m V 4.5 m NO 2.5

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|---|---|----------------|---|---|---|
| | C | S | P | N | 1 | 2 | 3 | 4 | SW | W | M | U |
| ASPHALT PAVEMENT | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | |
| PATTIES | | | X | | | | X | | | X | | |
| TARBALLS | | | X | | | | | | | | | |
| FILM | | | | | | | | | | | | |
| NO OIL | | | | | | | | | X | X | X | |

PAVEMENT H F S 0 sq. m by 0PATTIES / TARBALLS 8NEAR SHORE SHEEN? ☒ NO BR RW SL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | X | | |
| Vegetation | X | | |
| Trash | | | |
| Debris | | | |

Did You Col
DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL | BELOW | | OIL / FILM COLOR | | | | PIT ZONE | | | | A N A | SHEEN (V/M) | ↓ | SURFACE SUBSURF. SEDIMENT |
|---------|----------------|--------------------------|----|----|----|----|----------------|-------|----|------------------|---|---|---|----------|---|---|---|-------|-------------|---|---------------------------|
| | | OP | OR | OL | OF | NO | | DO | VO | 1 | 2 | 3 | 4 | SW | W | M | U | | | | |
| 1 | 35 | | | | | X | . | | | | | | | X | | | | | N | | P/G-1 |
| 2 | 35 | | | | | X | . | | | | | | | X | | | | | N | | P/G-1 |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | |

COMMENTS

REVIEWED JW DATE 4-24-90

APR-23-1990 19:09 FROM EXON CMD CORDOVA TO SCAT TEAM P.48

WILLIAM REID

SKETCH MAP

SEGMENT ST/ E/01A

STREAM 226-10-16640

DATE 22 APR 00

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Desc
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HW/LA/VE
- ☐ SBL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ P/L Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

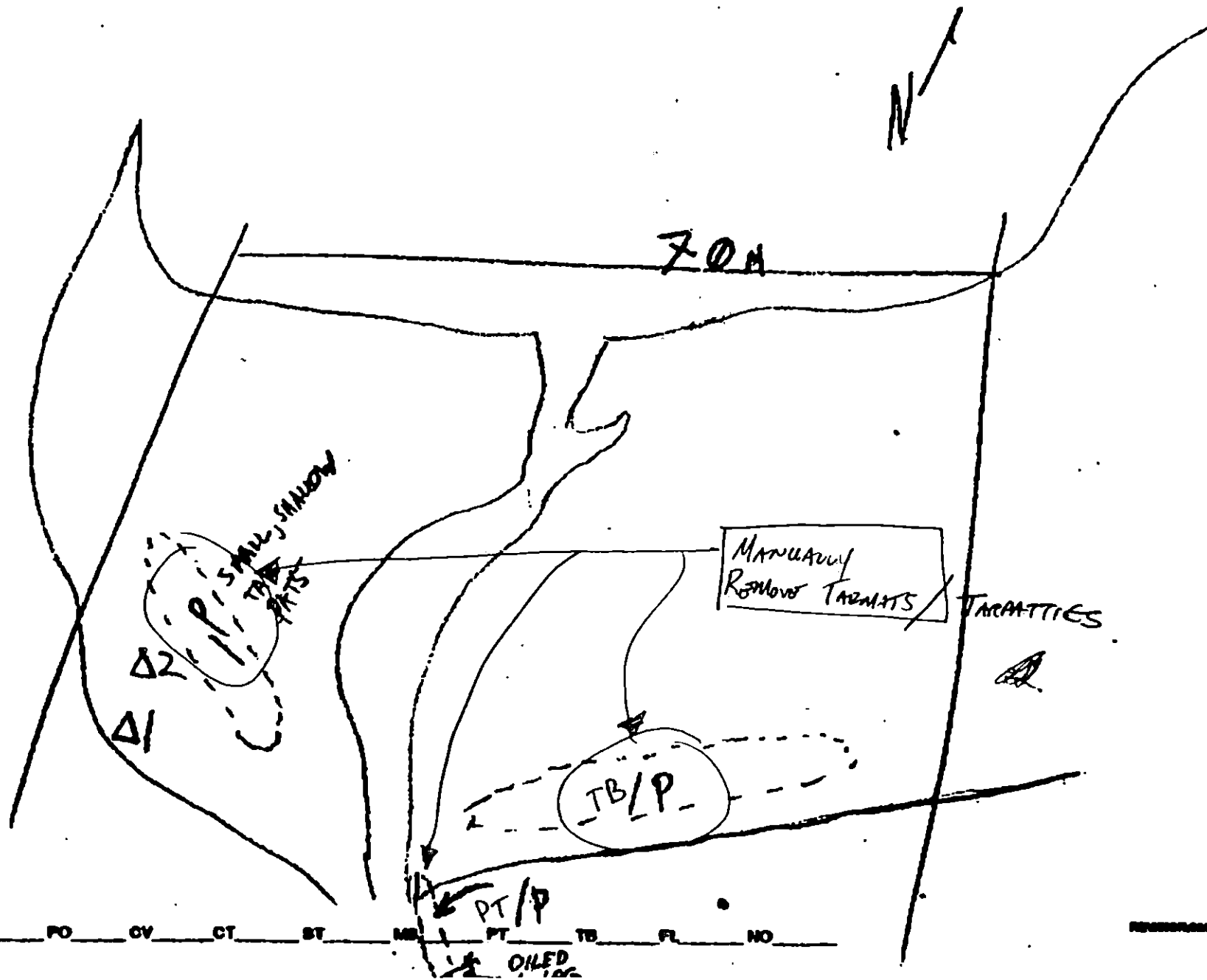
CT/S

Splashed Distribution

Oil Vegetation

1 ●→

Photo location, direction, and number



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

37/55

ADPAC MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES SS DS TS AVS SCM HPMS PTA 2 REGION: PYS IP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/22/90 16 HIGH TIDE TIMES: 1205.1 - 21 TEAM RECORDED: M. WEDMORE

4 START TIME: 1730 18 HIGH TIDE HTS: 10.0' 1 - 22 OBSERVERS: T. CROW

5 STOP TIME: 1755 17 LOW TIDE TIMES: 0603.1/814 23 AGENCY: ADPAC

6 SEGMENT #: EV-014 19 LOW TIDE HTS: 1.0' 10.7' 24 PHOTOS TAKEN: Y N

7 STATION #: 226-40-16640 15 TIDE HT AT SURVEY: 0.78' Roll #: _____ Frame: _____

8 K-UNIT: _____ 20 USCG QUAD: SEWARD A3 25 VIDEO TAKEN: Y N TAPES: _____

9 STAT AREA: _____ 11 LONG: _____ Starts: _____ Ends: _____

10 LAT: _____ 26 SAMPLES TAKEN: Y N NUMBER: _____

12 SOURCE: Map Loran Oil: _____

13 LOCATION: NORTH END EVANS IS. Sediment: _____

14 DESCRIPTION: _____ Biological: _____

EXTENT OF OIL

| | SHORELINE | | | | STREAM | | | |
|---|-----------|-----|-----|-----|--------|---|---|----|
| | L | Y | M | S | L | Y | M | S |
| 27 SURFACE COVERAGE | 100 | 75 | | <1 | 200 | 3 | | <1 |
| 28 SURFACE THICKNESS | 1cm | 1mm | 1mm | 1mm | <1mm | | | |
| 29 PENETRATION | 5cm | 2cm | 1cm | | | | | |
| 30 OVERALL OIL IMPACT: <u>N</u> <u>VL</u> <u>L</u> <u>M</u> <u>H</u> | | | | | | | | |
| 31 OIL TYPE: <u>Pooled</u> <u>Mousse</u> <u>Tar</u> <u>Asphalt</u> <u>Sticky</u> <u>Stain</u> | | | | | | | | |
| 32 OILED DEBRIS: <u>Y</u> <u>N</u> | | | | | | | | |
| 33 SHORELINE TYPE: <u>Headland</u> <u>Low-lying Rocks</u> <u>Beach</u> <u>Cove</u> | | | | | | | | |
| 34 WAVE EXPOSURE: <u>High</u> <u>Moderate</u> <u>Low</u> | | | | | | | | |
| 35 SUBSTRATE TYPE: <u>Bedrock</u> <u>Boulder</u> <u>10</u> <u>Cobble</u> <u>50</u> | | | | | | | | |
| <u>Gravel</u> <u>30</u> <u>Sand</u> <u>30</u> <u>Mud/silt</u> | | | | | | | | |

36 CATALOGED ANAD. FISH STREAM: Y N

37 CATALOG #: 226-40-16640

38 STREAM NAME: _____

39 OIL IN STREAM BED: Y N

40 OIL ON STREAM BANKS: Y N

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

42 OIL WITHIN 1 MILE OF STREAM: Y N

Where: _____

43 ANADROMOUS FISH PRESENT: Y N

44 ANADROMOUS FISH OBSERVATION

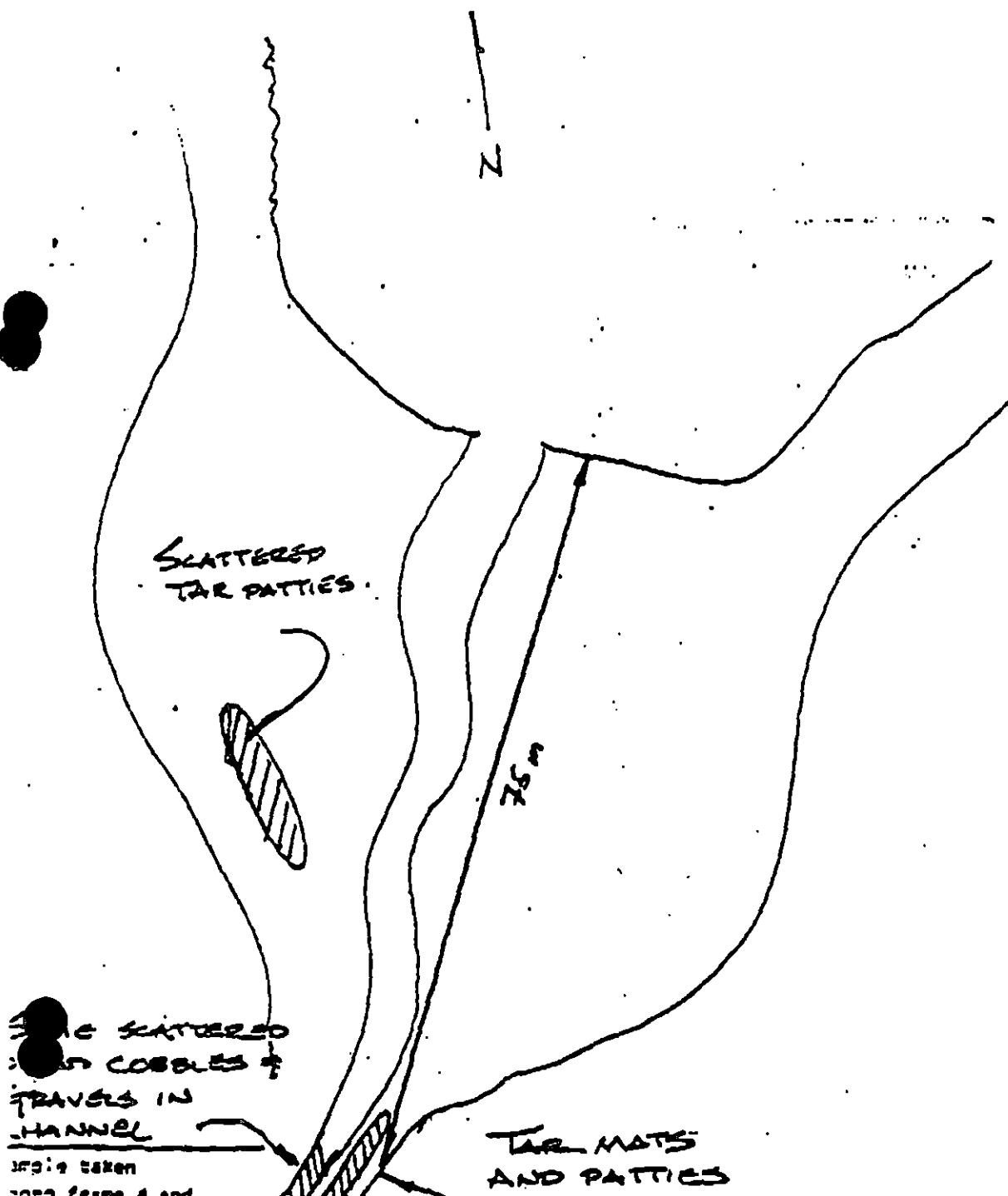
| Species | Aerial | Ground |
|---------|--------|--------|
| | | |
| | | |
| | | |
| | | |

COMMENTS: PREDOMINANTLY SMALL-GRAINED SHELTERED COVE.
SCATTERED TAR PATCHES 20 M N.W. OF CHANNEL
UPPER-MID INTERTIDAL 20 M X 4 M. BAND OF TAR MATS
& PATTIES ALONG EAST STREAM BANK. SOME TARBED

45 PHOTOLOG

| PAGE(S) | DESCRIPTION |
|---------|--|
| | <p>RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES AND MATS</p> <p>I agree with recommendations. NOT FOUND</p> |

46 OIL DISTRIBUTION DIAGRAM



43/55

Segment EV 014

4/22/90

Stream 226-40-16620

Michael Fawcett

Ecological Summary

This stream enters the sea in a small cove similar to EV 012 - sand/pebble/cobble beach with larger boulders at each end of cove.

Patches of Fucus, mussels, and barnacles occur on cobble around the stream mouth, and are more dense on boulders at either end of cove. Tar mats were found in VTZ on East and West sides of stream, manual removal recommended. No ecological constraints re: intertidal biota.

~~MH Fawcett~~

EV-14

EV

SUBJECT
ANADROMOUS
SILVER
IN EV-14-A (1 of 1)

EV-14

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

ADEC Segment Length: 777m



Map Key: PWS-102
Name: Reimer
Date: 4/6/90
Data Entered:

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-40-16640

SEGMENT EV-14 SUBDIVISION A

WORK WINDOW

Tarmat Removal

OPEN

Bioremediation Less Than 100m From Stream **WORK PRIOR TO 7/10***
(ADF&G MONITOR REQ.)

*Assess need for custom blend following tarmat removal (FOSC comment)

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

- | | | |
|-------|------------------------------|---|
| 1A,1B | Salmon Stream | ADF&G catalogued anadromous stream (226-40-16640) is in Subdivision A. This subdivision is closed to bioremediation less than 100m from stream 7/10 to 8/31. Before 7/10, bioremediation is permitted less than 100m from stream with on-site ADF&G monitor or ADEC alternate present. No constraint to bioremediation more than 100m from stream. No constraint to tarmat removal. |
| 1K | Purse Seine Area | No constraint to tarmat removal. |
| 5T | Bald Eagle Nest | NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision A work site. |
| 7II | Subsistence: Deer Harvesting | No constraint to tarmat removal. |

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. No flushing of pollutants or sediments into stream drainage; do not allow Injop to enter stream flow. On-site examination and consultation by ADF&G monitor is required prior to bioremediation in order to authorize a setback distance from the stream during chemical application; if ADF&G monitor's presence is impossible, authorization may be given by the ADEC monitor. Restrict boat and air traffic and beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-14A
FOR ADDITIONAL CONSTRAINT INFORMATION

FOSC

[Signature]

Date

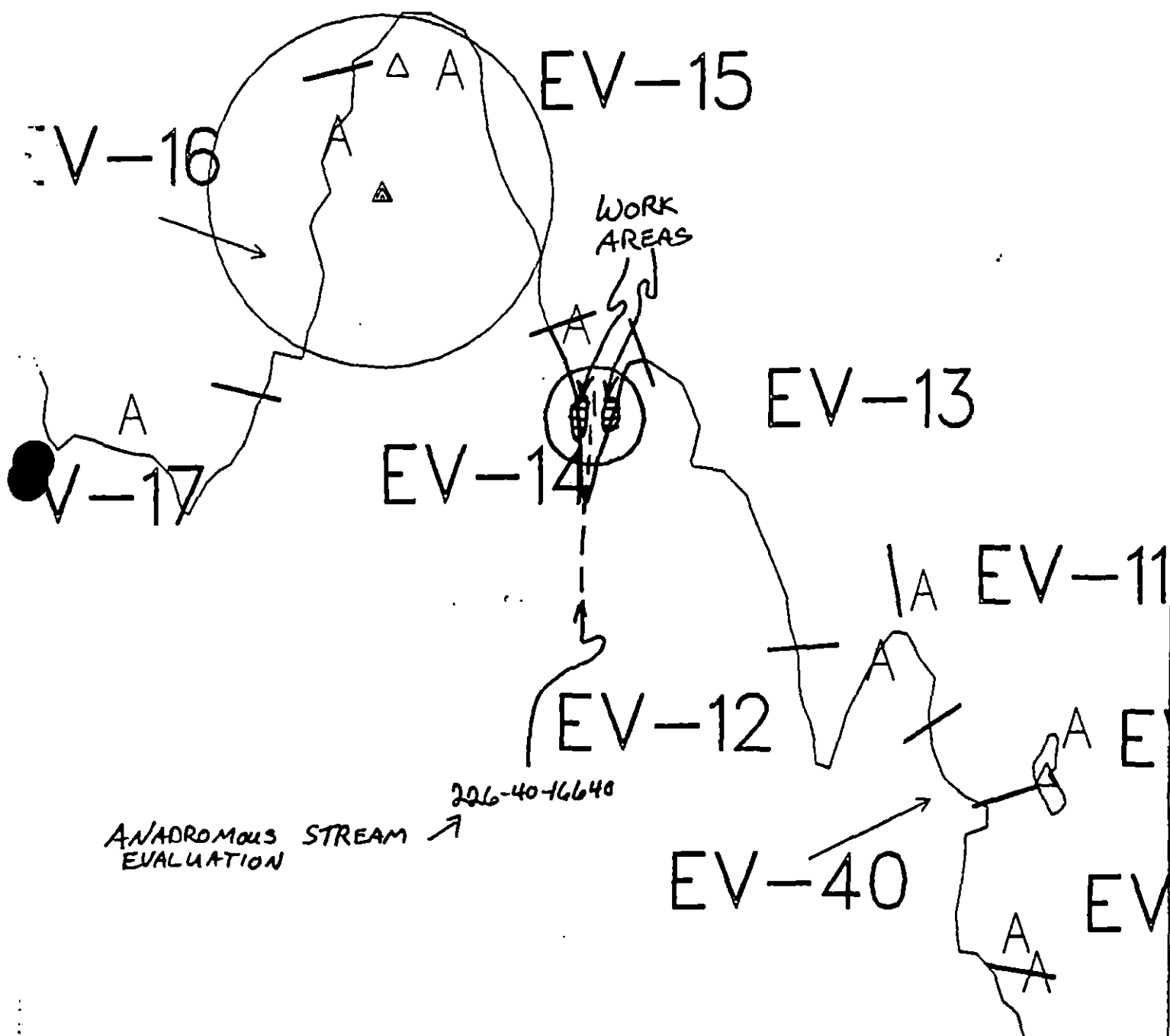
6/14/90

Prepared by

[Signature]

Date

6/14/90



Exxon Company, USA
Map Key: PWS-EV-14
June 04, 1990



ECOLOGY MAP
SEGMENT EV-14
SUBDIVISION A (1 of 1)
METERS



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



SHORELINE EVALUATION

SEGMENT ST/ EV-15 SUBDIVISION A (1 OF 1) DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
(an eagle nest located in adjacent segment)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles J. Hume DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 66 m: Narrow 62 m: V.Light 43 m: No Oil 884 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> </u> Manual Pickup | <u> </u> Absorbents (pads, rolls, etc) |
| <u>X</u> Bioremediation | <u> </u> Spot Washing: <u> </u> Wands |
| <u>X</u> Tarmat Removal | <u> </u> Beach Cleaner |
| | <u> </u> Other (see comments) |

COMMENTS: Recommend bioremediation in areas shown on sketch map (diffi-
cult access - safety concerns). Work should be conducted after 6/1 and
with USFWS approval regarding eagle nest constraint.

TAG COMMENTS: MANUAL PICKUP OF ASPHALT + ROUSSE FROM IN BETWEEN
BUILDERS IF FEASIBLE PRIOR TO BIO

TAG APPROVAL DATE: 5/3/90

ADEC ART WEINER Art Weiner

EXXON ANDY TGA Andy TGA

NOAA GARY PETRO Gary Petro

USCG KENNETH HEENE Kenneth Heene

FOSC: My L DATE: 5-18-90

NOTIFY CVC 24 HRS IN ADVANCE OF WORK

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 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 Evelyn Biggs 424-3235
- 4, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 5, 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. 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
- 6F 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)
 Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
 7HH Finfish harvesting
 7JJ Deer harvesting (8/15 to 2/28)
 Invertebrate harvesting
 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/ EV-15 SUBDIVISION: A (1011) DATE 4-20-90

NOAA

NAME Michael Buchman SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS NORTHERN TIP & AROUND TOWARD SE IS UPLIFTED SLATE OUTCROP WITH VERY SLIGHT SPALLING. ROCK WALLS ON EITHER SIDE OF NORTHERN POCKET BEACH HAD A BAND OF PATCHY COATING. POCKET BEACH HAD WINTER STORM BERM. NO OIL OBSERVED THERE. EASTERN SIDE OF SEGMENT IS ROUNDED PEBBLE, 10' SINGLE BEACH BARRIER BY NATURAL ROCK WALL. WINTER STORM BERM HERE TOO. NO SURFACE OIL OBSERVED. ROCK FISSURE OF TILED SHALE AT SOUTHERN END HAD 5" BAND OF COATING. A 1' ROCK OUTCROP JUST SOUTH OF THAT HAD COATING OF OIL ON BACK SIDE. AT VERY SOUTHERN END, 2 POCKETS OF 1' SLATE SLABS OVER GRAVEL & COBBLE SEPARATED BY A OUTCROP HAD A COAT TO COVER OF OIL ON SURFACE. CRACKS & FISSURES HAD GREATER OILING. ASPHALT PATCHES WERE SEEN IN UNDERLYING GRAVEL. SILVER TO RAINBOW GREEN WAS SEEN IN TIDE POOLS. SOUTHERN POCKET HAD NUMEROUS PATCHES OF MOUSSE AT BOTTOM OF CRACKS.

ADEC

NAME John Hoyer SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Most of segment is light to no oiling.

Two pocket beaches at southern end of segment need treatment. Oil is down below boulders + will be difficult to remove.

① Pom poms, shovels, trowels, sorbant pads rec. for treatment on pocket beaches. See sketch map #2

LAND MANAGER

NAME Steve WARD-Chenega Corp. SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Manual Cleanup? Hand Labor.

SHORELINE OILING SUMMARY

REVISION NO. 04

OG MIKE FOLET ^{NOAA} Michael Buchman SEGMENT ST/ EU-15
 BIO KATHLEEN CONLIN LAND REP STEVE WARD SUBDIVISION A (1 OF 1)
 EXXON LARRY OLSON ADEC John Hayes TIME 16:40:10:05
 TEAM NO. 11 TIDE LEVEL +1.5 DATE 4/20/90
 EST. SUBDIVISION LENGTH: 1055 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☒ Rock 3 meter rocky backshore forested
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: to
 SURFACE SEDIMENTS: R 60 % B 20 % C 15 % P 5 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 20 % Hang 20 % Vert 60 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 60 m N 50 m VL 40 m NO 905 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|---|---|----------------|---|---|---|
| | K | A | D | S | 1 | 2 | 3 | 4 | SU | U | M | V |
| ASPHALT PAVEMENT | | | X | | | X | | | X | X | | |
| POOLED | | | | | | | | | | | | |
| COVER | | | X | | | | X | | X | X | | |
| COAT | | | X | | | X | | | X | X | | |
| STAIN | | | | ✓ | | ✓ | | | | | ✓ | |
| MOUSSE | | | X | | | | X | | X | X | | |
| PATTIES | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | | X | X |

PAVEMENT H (F) S 2 sq. m by 10PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | X | | |

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐TYPE 17 ft 50 lb#BAGS 1

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 | | VO | UC | 1 | 2 | 3 | 4 | SU | U | M | V | | | | |
| 1 | 30 | | | | | X | - | | X | | | | | X | | | | N | - | | P, C |
| 2 | 40 | | | | | X | - | | X | | | | | X | | | | N | - | | P |
| 3 | 35 | | | | | X | - | | X | | | | | X | | | | N | 30 | | P, C |
| 4 | 25 | | | | | X | - | | X | | | | | | X | | | N | - | | P, B |
| 5 | 50 | | | | | X | - | | X | | | | | X | | | | N | - | | C, P, C |
| 6 | 30 | | | | | X | - | | X | | | | | X | | | | N | - | | C, P, B |

COMMENTS Some stain and coating occurred near the 1st beach located at the North Western end of the segment. A 1m x 20m CT/P coat was observed along a rock wall on the Southern end of the 1st beach. (map 1). No oil was observed for a majority of the segment. The shore zone consisted mostly of High angle Rock Boulder face w/ some low angle Boulder/ cobble beaches. The Southern end of the segment (South, eastern) contained some substantial oiling. This area consisted of 3-4 pocket B/C beaches. The Northern most of these beaches had a 5m x 30m CT/P coat among the R/B in the HITZ on the N. side of the beach.

REVIEWED JW DATE 4-23-90

11/15/2013

SUBSURFACE OIL (CONTINUED)

[illegible]

The other two pocket beaches (map 2) had some substantial oiling. They consisted of two Boulder Pocket coves separated by a 20m Rocky headland. Both coves have a CT/P tar coat on the exposed Boulder face but in the crevases between the boulders are asphalt patches, hardened mousse and tar cover. One cove has a 15m x 20m affected area; the other a 10m x 20m area. The rocky headland which separates the two coves has a 1m x 20m CT/P stain in the MITZ.

REVIEWED SW DATE 4-23-90

OG M1122 14961

SEGMENT ST/ EV-15

SUBDIVISION A

DATE 4 / 20 80

CHECKLIST

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

LEGEND

1 Δ
Ph - No Subsurface Oil

2 Δ
Ph - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oil Vegetation

1 ●
Photo location, direction,
and number

Legend

/// - steep Boulder/Rock
shore zone

↑ - trees

○ - boulders

SKETCH MAP 1

Scale

100 m

1m x 20m ST/S
On rock in HITZ

Pocket B/C Beach
w/ Pebble storm berm

1m x 20m CT/P on
Rock ledge HITZ on
Southern end of Beach

Pocket B/C Beach w/
Pebble storm berm

High angle
B/R shore zone

Low angle R/B shore
1m x 10m ST/S in the SW
ITZ

5m x 30m CT/P
among R/B in
HITZ

Pocket B/C High
angle Beach

15m x 20m CT/P

10m x 20m CT/P

See map 2

Oil Character Length (m): AP 5 PO 0 CV 5 CT 110 ST 40 MS 10 PT 0 TB 0 FL 0 NO 925

REVISED 02/0000

OG Mike Toget

SEGMENT ST/ EV-15

SUBDIVISION A

DATE 4, 20 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Grid
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAWAIIAN
- ☐ SGL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Photo Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
P11 - No Subsurface Oil

2 Δ
P11 - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Pachy Distribution

CT/S
Splashed Distribution

Oil Vegetation

1 ●
Photo location, direction, and number

Scale

10 m

Legend

↑ - trees

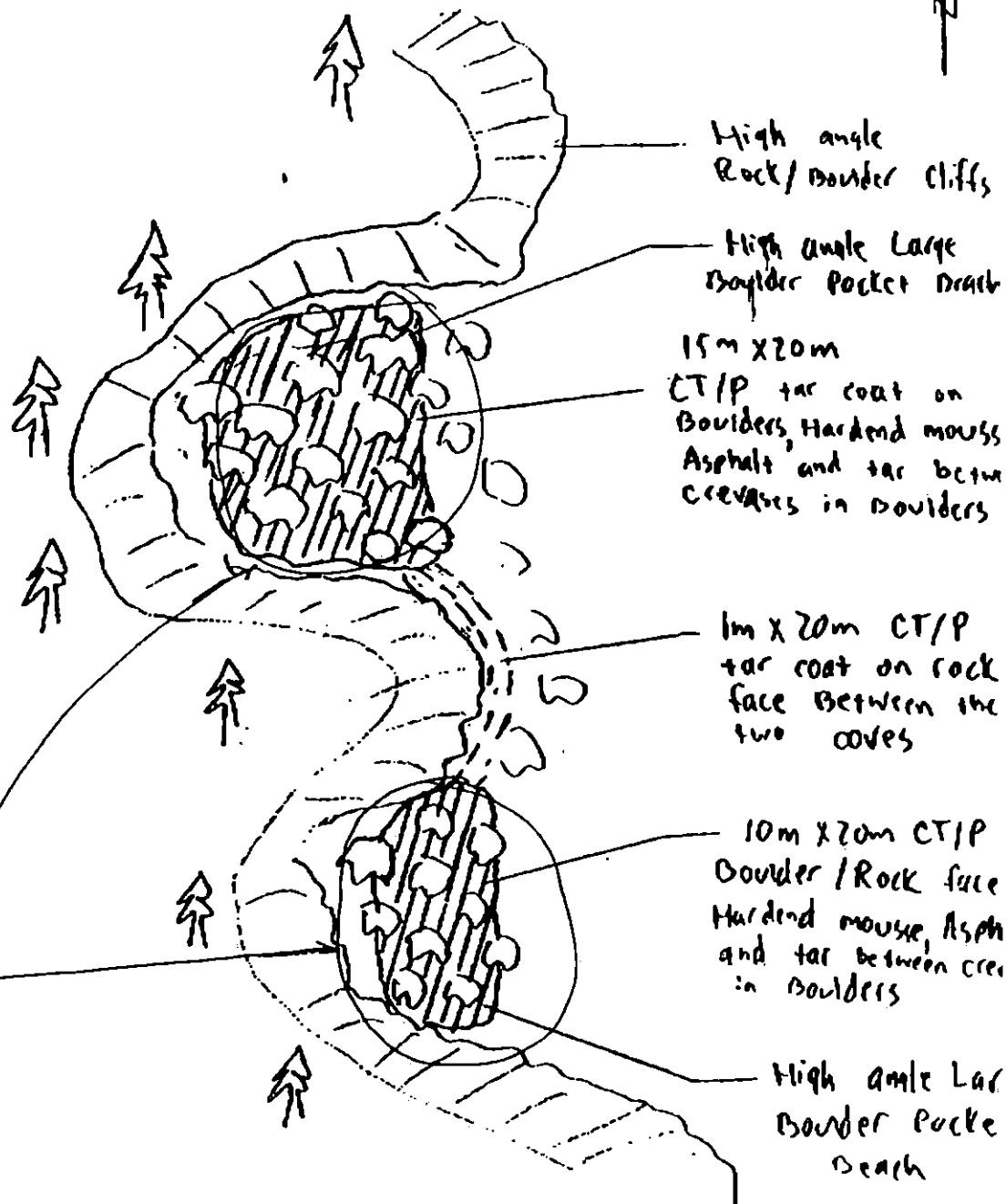
/// - steep Bedrock
Boulder Backshore

☐ - Large Boulder

▨ - mousse and
Asphalt

Bio

SKETCH MAP 2



See map 1

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

REVISION 23/2/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/81

Segment ST / FV-15 Subdivision A (1 OF 1) Date (mo / day / yr) 04 / 20 / 90

Time (24 hr) 1650-1800 Biologist KARLEEN COLLAN

(A) Substrate type and % of segments:
(1) Bedrock 60 (2) Boulder 20 (3) Cobble 15 (4) Pebble 5 (5) Sand 0 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 80 Moderate 20 Low 0

(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 11-3

Frames 11, 12, 13

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:

TIDEPOOL SCULPINS ABUNDANT

2 SEA OTTERS

3 SHORE BIRDS

1 BALD EAGLE

Ecological Considerations:

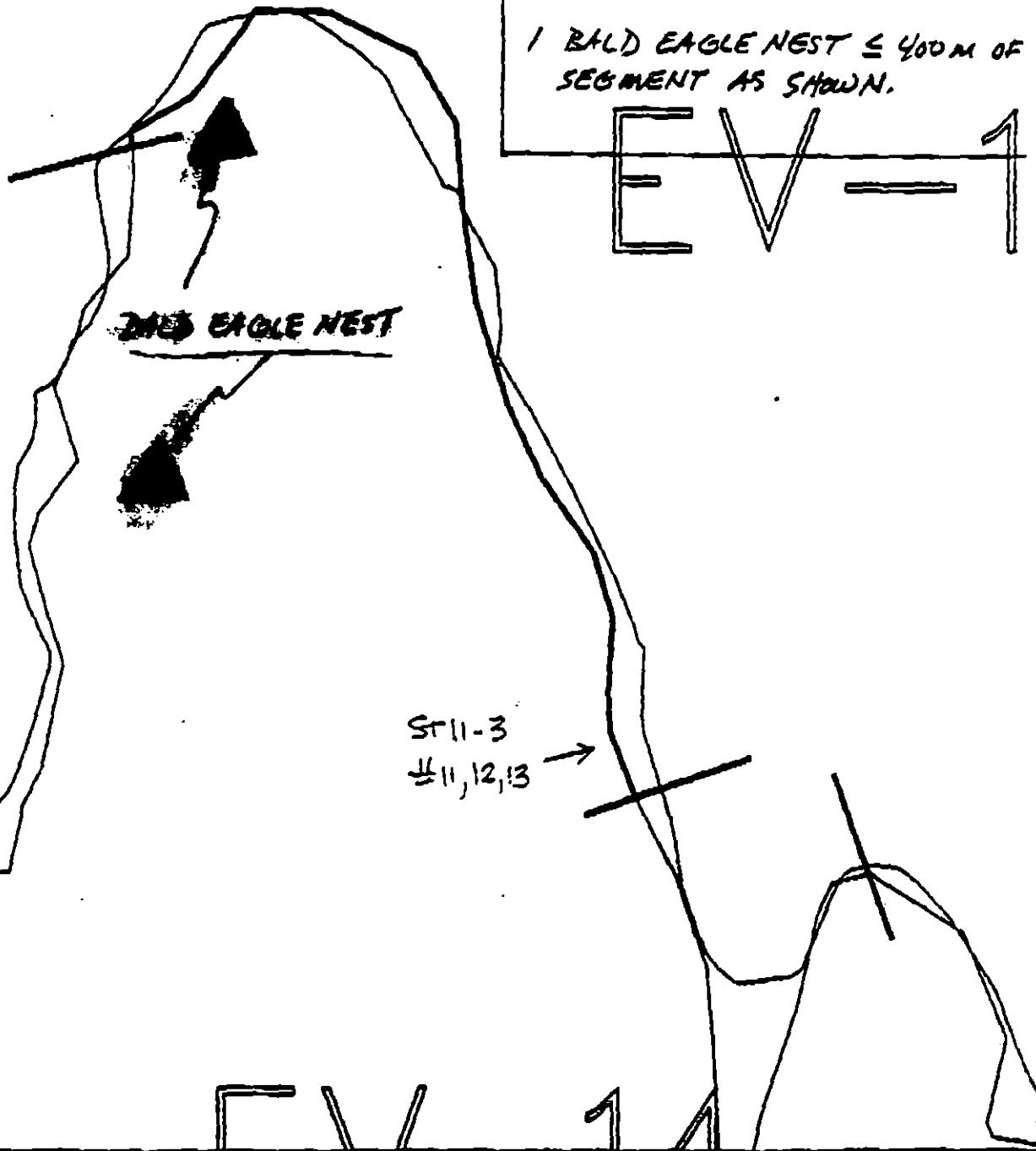
ECOLOGY MAP (1 OF 1)

RESOURCE CODES FOR ENTIRE SEGMENT:



1 BALD EAGLE NEST $\leq$ 400M OF SEGMENT AS SHOWN.

EV-1



XXXX Wide

//// Medium

--- Narrow

TTT Very Light

0000 No Oil

EV-15

AOEC Segment Length: 1055m



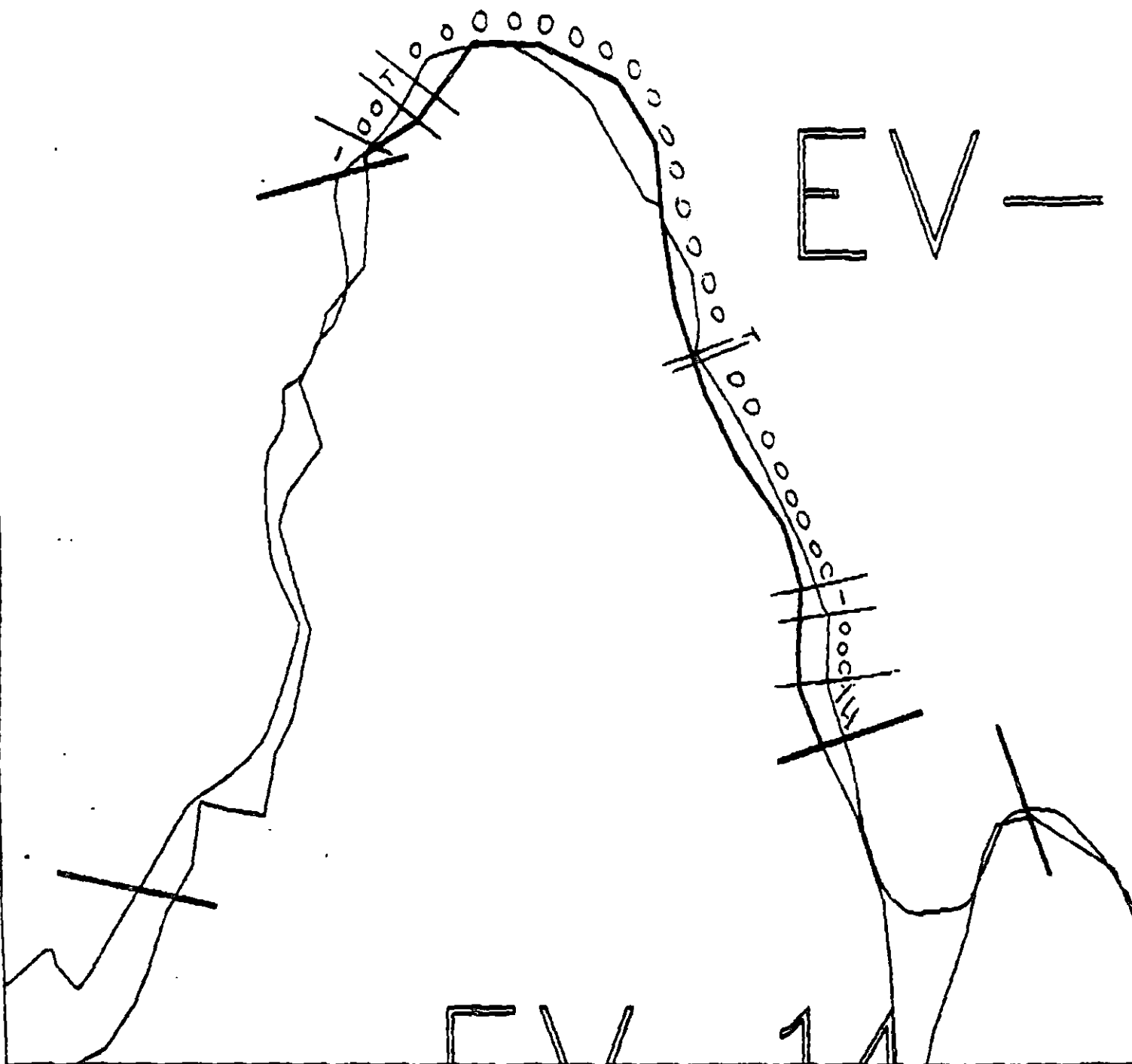
Map Key: PWS-183

Name: K. CONLAN

Date: 20 APRIL 1990

Date Entered:

EV -



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-15A

ADEC Segment Length: 1055m

0 100 200 300
METERS

Map Key: PWS-183

Name: Mike Egypt

Date: 4/20/90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-15 SUBDIVISION A (1 of 1)

| WORK WINDOW | |
|---------------------------------|------------------|
| Manual Pickup
Tarmat Removal | OPEN |
| Bioremediation | WORK BEFORE 7/25 |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | | |
|-----|------------------------------|---|
| 1K | Purse Seine Hook-off | Closed to bioremediation after 7/25. No constraint to manual pickup and tarmat removal. |
| 5T | Bald Eagle Nest | NO CONSTRAINT. Work area is more than 400m from nest. |
| 7II | Subsistence: Deer Harvesting | Closed to bioremediation after 8/15. No constraint to manual pickup and tarmat removal. |

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic to essential minimum after 7/25. Restrict beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

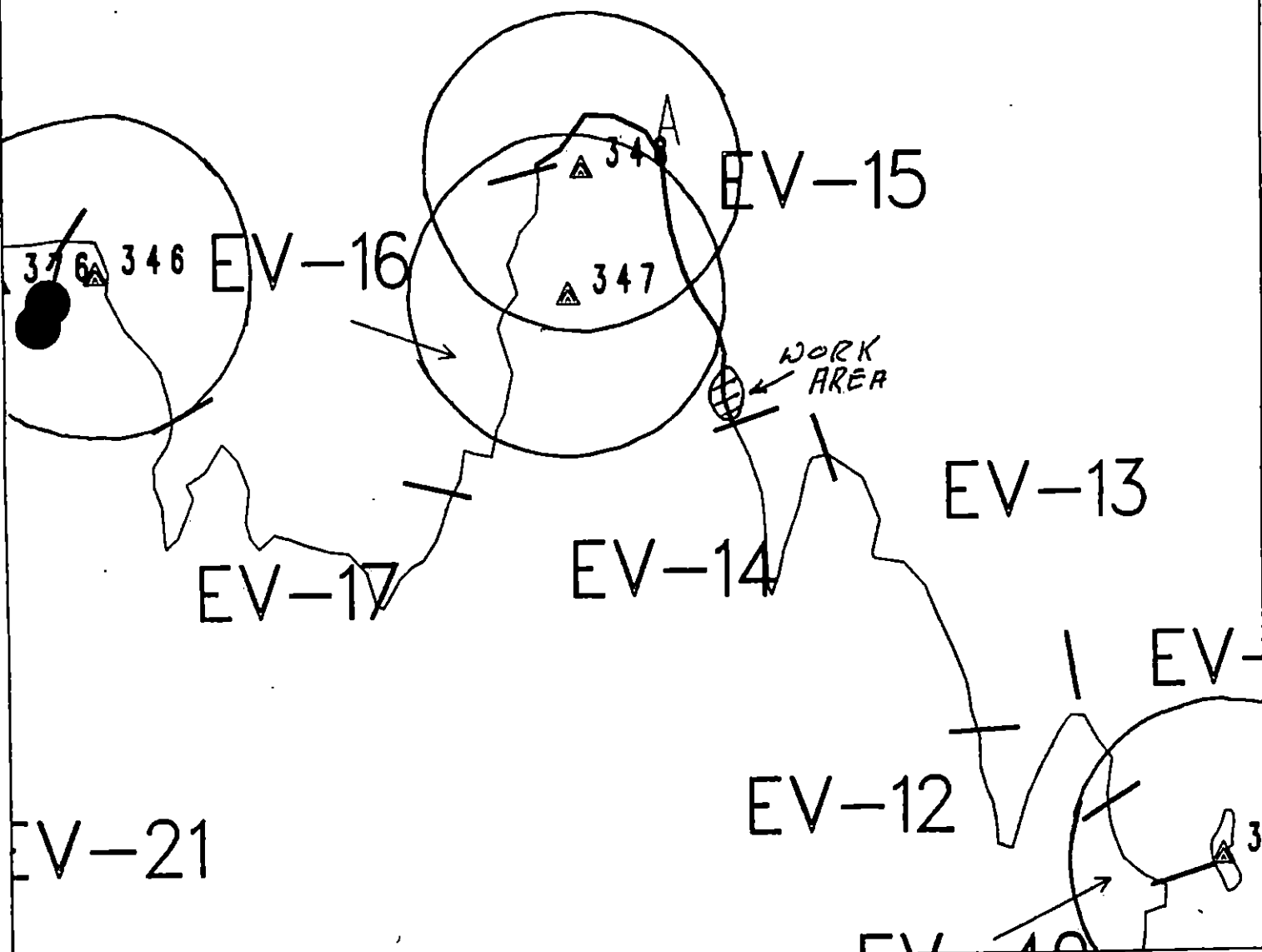
TAG APPROVAL DATE 5/29/90
ADEC Art Weimer Art Weimer
EXXON Andy TK Andy TK
NOAA Bullock Bullock
USCG G.A. Peter G.A. Peter

FOSC

DATE MAY 29 1990

Prepared By: Anders Meyer wm

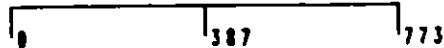
Date 5/27/90



Exxon Company, USA
Map Key: PWS-EV-15
May 11, 1990



ECOLOGY MAP
SEGMENT EV-15
SUBDIVISION H (1 of 1)
METERS



- ★ Seabird Colony
- △ Eagle Nest

1 inch = 1269 feet

ASAP FOLLOWUP RECOMMENDATIONS

Segment: AS/ E1-15 Subd.: A Site: _____ Date: 8-7-90 1990

Conditions Observed: Area is two boulders pocket located side by side. Several large areas of MS, AP, and OP and OR subsurface oil are located.

Followup Recommendations: Recommend removal of MS, AP, and OP and OR oil using tanks and shovels to be followed by manual picking where possible and decontamination.

Completed by Pickup Crew: ☐ YES ☒ NO Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC Bob McCann Robert E. McCann
(name) (signature)

Comments: _____

Exxon John Dean John Dean
(name) (signature)

Comments: 1 PAGE of RECOMMENDATIONS

USCG Don Davis GM Don Davis
(name) (signature)

Comments: Agree w/ above comments.

Land Rep. Steve Ward evc Steve Ward
(name) (signature)

Comments: Incomplete manual in 90 - go back and get the oil out
B.B. - check in 91 Above Recommendations good.

SEGMENT AS / EV-15 SUBDIVISION: A SITE: 1 DATE 8-7-90

CCG

NAME David Davis NOAA SIGNATURE David Davis

David Davis, GM, USCG

☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Oiling is pervasive in two small pocket beaches, with heavy accumulations found between large boulders and in bedrock cracks. Recommend additional treatment in 1990 and reassessment in 1991.

ADEC

NAME Bob McCready SIGNATURE Bob McCready☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

A substantial amount of MS, AP, and OP and OR subsurface oil remains on two boulder pocket beaches. Summer cleanup crews ('90) have been on site, but large amount of gross contamination remain. An ASAP Followup Recommendation Form has been submitted calling for the removal of all mousse, AP, and OP and OR.

LAND MANAGER

NAME Steve Wilson CUC SIGNATURE Steve Wilson☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Lots of oil remaining to pick up in '90. Check sub surface carefully in '91.

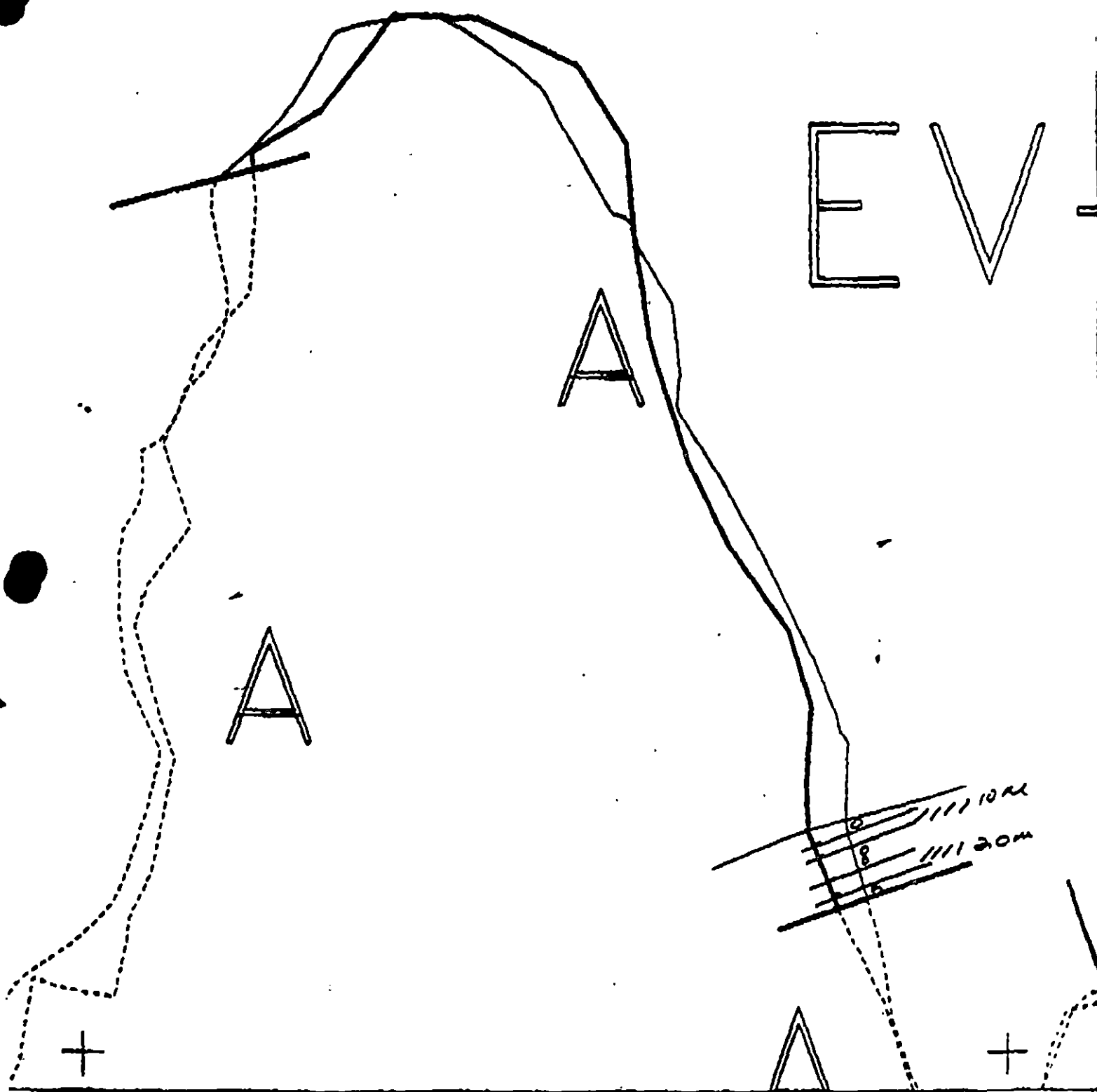
EXXON

NAME John Dean SIGNATURE John Dean☒ YES☐ NO

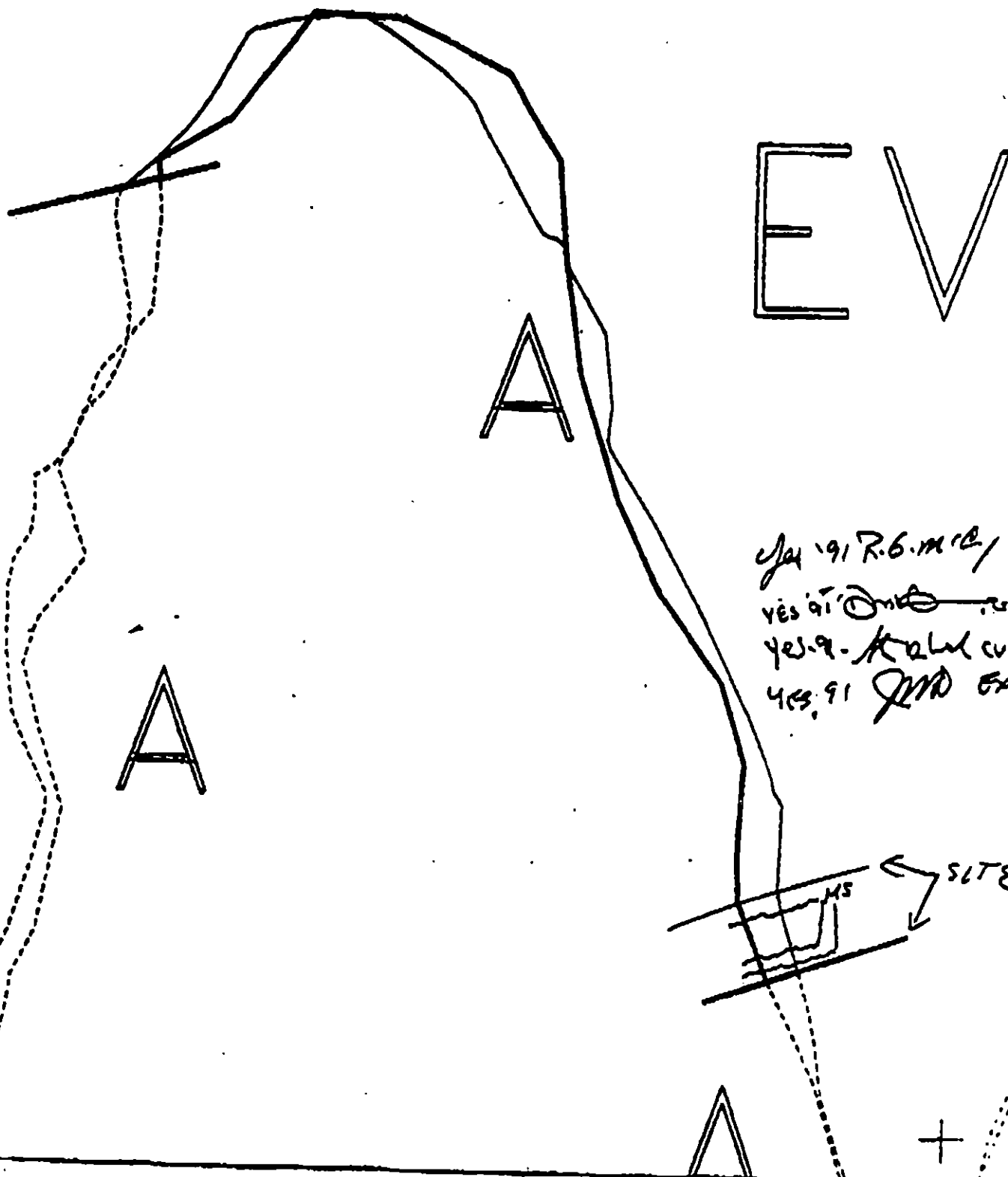
PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

CANDIDATE FOR EARLY '91, HIGH PRIORITY, ASSESSMENT. SEE FOLLOW UP RECOMMENDATION FOR '90



| | | | |
|-----|------------|-------------------------------|------------------------|
| XXX | Wide | EV-15 A | Subdivision Field Map |
| ● | Medium | ADEC Subsegment Length: 1055m | Map Key: PWSEV-15A |
| --- | Narrow | METERS | Name: <u>NAKASHIMA</u> |
| TTT | Very Light | 0 112 223 | Date: <u>8/7/90</u> |
| 000 | No Oil | AK State Plane Zone 4 1:4382 | Data Entered: |
| | | per-158 | |



Jan 191 R.G.M.C. / ADEC
 YES 91 ~~INT~~ ~~RESC~~
 YES 91 - K. L. L. C. U.
 YES 91 ~~INT~~ EXON

XXX Wide
 / Medium
 - - - Narrow
 TTT Very Light
 000 No Oil

EV-15 A
 ADEC Subsegment Length: 1055m
 METERS

0 112 223
 AK State Plane Zone 4 1:4302
 pev-15a



Subdivision Field Map
 Map Key: PWSEV-15A
 Name: NAKASHIMA
 Date: 8/7/90
 Date Entered:

GENERAL DATA

SEG ID: EUP15 SBOV: A SITE: 1 TEAM: 3 DATE: 8/7/90
SITE LGTH 35 OIL CATEGORIES: W — M 30N VL — NO 36 U 989
1991 REASSESSMENT: USCG: Y ADEC: Y LDMGR: Y EXXON: Y
NOIS 66

SURFACE DATA

CHAR #: 1 OIL CHAR: CT OIL DIST: CONT — BRKN 20 PTCH 10 SPLH —
TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 2 OIL CHAR: ST OIL DIST: CONT — BRKN 20 PTCH 10 SPLH —
TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 3 OIL CHAR: MS OIL DIST: CONT — BRKN — PTCH 30 SPLH —
TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 4 OIL CHAR: NO OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU X UI — MI X LI X

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
TIDAL ZONE: SU — UI — MI — LI —

ASAP DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: EV015 SUBDIV: A SITE: 1

PIT # 0 PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
CLEAN BELOW: PIT ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
CLEAN BELOW: PIT ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
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PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
CLEAN BELOW: PIT ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

ASAP TAG REVIEW SHEET

Segment: EVIS Subd: A Site: Date PRE-Review 11 Aug

Priority For Addressing In 1990

☒ HIGH ☐ MEDIUM ☐ LOW ☐ NTR

Treatment
Recommended:

WAVE Action → med.

NTR

patch mouse met wave

NTR

Priority Site For Reassessment In 1991

YES ☒ NO ☐ CG ☒ YES ☒ NO ☐ ADEC ☒ YES ☒ NO ☐ EXXON ☒ YES ☒ NO ☐ LAND MGR ☐

TAB 13 AUG 90

Manual Remove Accessible Mouse.

+ BIO

SHORELINE EVALUATION

SEGMENT ST/ EV-16 SUBDIVISION A (1 OF 1) DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Dorman DATE: 5/3/90

OILING CATEGORIZATION:

Wide 0 m: Medium 141 m: Narrow 0 m: V.Light 742 m: No Oil 0 m
Subsurface Oil Observed: Yes X No Maximum Depth 45 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 Removal | <u> </u> Beach Cleaner |
| | <u>★</u> Other (see comments) |

COMMENTS: Recommended treatment includes 1) manual removal of patties,
2) rake down storm berm and, 3) bioremediation per sketch map. Work
should be conducted after 6/1 with USFWS approval based on eagle nest
constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/3/90
ADEC Art Weiner Art Weiner
EXXON Andy Tsch Andy Tsch
NOAA Gary Petrac Gary Petrac
USCG Bennett Korman Bennett Korman

FOSC: my L DATE: 5-18-90

NOTIFY CUC 24 HRS. IN ADVANCE OF WORK

PWS, SEWARD AND HOMERECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 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, prior to July 31 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 Esther Hatchery release (4/15 to 6/1)
1E Main Bay Hatchery release (4/20 to 6/10)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
1G Cannery Creek Hatchery release (4/21 to 6/1)
1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.
AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (8/7 to 8/31)
1J Purse seine area (7/20 to 9/30)
1K Purse seine hook-off (7/20 to 9/30)
1L Set net sites (8/11 to 7/25)
Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
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 Evelyn Biggs 424-3235
- 3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
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. 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
- ✓ 6B 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 Subistence area: Salmon harvesting (5/1 to 9/30)
7H1 Finfish harvesting
7H2 Deer harvesting (5/15 to 2/28)
7J Invertebrate harvesting
Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2350

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EV-16 SUBDIVISION: A (101) DATE 4-20-90**NDAA**NAME Michael Buchman SIGNATURE M Buchman☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS Entire Segment Alternates from rock walls to point beaches. All rock walls had bands of stain or coating. Beaches to the south were made of more angular cobble or pebbles (lower exposure), while those to north were more rounded. All beaches had light staining on cobble. Several had occasional asphalt patties. All beaches had significant winter storm berms at supra IZ. (Above current drift line). One beach was found to have a significant layer of relatively unweathered oil in pits dug in the winter storm berm. The storm berm at these pits was 25-30 cm thick.

ADECNAME John Hayes SIGNATURE J Hayes☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

① Manual pick up of asphalt patties (small) on s/d/cobble pocket beaches. Also map up of recoverable oil in bands with asphalt patties.

Three areas noted on sketch map N+5 ① 9x30m Band

② 5x60m Band ③ 6x40m Band.

The rest of segment is stain + VL oiling. NTR

LAND MANAGERNAME Shell/Wood-Chemical Corp. SIGNATURE Shell/Wood☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Manual pick up.

ADEC. One pocket beach had subsurface OP oiling in a 5cm lens below 30cm. of storm berm. Oil was mousse that had not weathered much. Reason a depth of oil lens ?'ible for treatment.

SHORELINE OILING SUMMARY

reviewed 4/23/90

REVISION NO. 04/13/90

OG MRS FOGET ^{NOAA} Michael Puckman SEGMENT ST/ EV-16
 BIO KATHLEEN CONLIN LAND REP STEVE WARD SUBDIVISION A (1 OF 1)
 EXXON LARRY OLSEN ADEC JOHN HAYES TIME 14:45 10/16/90
 TEAM NO. 11 TIDE LEVEL +2.6 DATE 4/20/90
 EST. SUBDIVISION LENGTH 826 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock Vertical Rock Backshore w/ some steps
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 30 % B 20 % C 25 % P 15 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 50 % Hang 20 % Ven 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 140 m N 0 m VL 686 m NO 0 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | IMPACTED ZONES | | | |
|-----------|--------------|----|----|----|------------------|----|----|----|----------------|---|---|---|
| | 1C | 1B | 1P | 1S | 2C | 2B | 2P | 2S | SU | U | M | U |
| ASPHALT | | | | X | X | | | | X | | | |
| PAVEMENT | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | |
| COAT | | | X | | X | | | | X | | | |
| STAIN | | | X | X | X | | | | X | | | |
| MOUSSE | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | |
| NO OIL | | | | | | | | | X | | X | X |

PAVEMENT H (F) S 3 sq. m by 2 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | X | | |
| Debris | | | |

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐TYPE Plastic#BAGS 0

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) | D | SURFACE - SUBSURFACE SEDIMENTS |
|--------|----------------|--------------------------|----|----|----|----|---------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|---|---|---|---|---|---|-------------|----|--------------------------------|
| | | OP | OR | OL | OF | NO | | VO | VC | 2C | 2B | 2P | 2S | 3C | 3B | 3P | 3S | SU | U | M | U | | | | | | |
| 1 | 30 | | | | | X | - | | X | | | | | | | | | X | | | | | | | N | - | P, G |
| 2 | 20 | | | | | X | - | | X | | | | | | | | | | X | | | | | | Y | 10 | P, G |
| 3 | 30 | | | | | X | - | | X | | | | | | | | | | X | | | | | | Y | 10 | P, C, P |
| 4 | 30 | | | | | X | - | | X | | | | | | | | | | X | | | | | | Y | 20 | C, P, S |
| 5 | 50 | X | | | | | 20-25 | | X | | | | X | | | | | X | | | | | | | N | - | P |
| 6 | 40 | | | | | X | - | | X | | | | | | | | | X | | | | | | | Y | - | P |

COMMENTS

The shore zone consists of bedrock/boulder w/ some pocket B/C beach that have pebble storm berms. The southern most pocket B/C beach has a 6m x 40m CT/P coat w/ some asphalt patches on the D/C outcrop at the northern end of the beach. The next pocket beach contains a 2m x 40m pebble storm berm with OL/OL subsurface oiling 30cm deep. The storm berm has a stream to the north and a moderate amount of drift logs to the south.

REVIEWED YW DATE 4-23-90

SHORELINE OILING SUMMARY (PAGE 2)

REVISION 04-1988

SEGMENT ST/ EV-16 SUBDIVISION A (1 OF 1)

SUBSURFACE OIL (CONTINUED)

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM-CM) | BELOW | | OIL / FILM COLOR | | | | | | PIT ZONE | | | | A N A | SHEEN (Y/N) | ▽ | SURFACE - SUBSURFACE SEDIMENTS | | |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----|----|----|----|----|----------|----|----|----|-------|-------------|---|--------------------------------|----|---------|
| | | OP | OR | OL | OF | NO | | UO | UC | SW | BR | OR | WH | GY | BL | SLT | FL | LR | SU | | | | | U | M |
| 7 | 40 | | | | | X | . | | X | | | | | | | | | X | | | | | N | 35 | C, P |
| 8 | 40 | | | | | X | . | | X | | | | | | | | | X | | | | | N | - | P, C |
| 9 | 60 | | X | | | | 25-45 | | X | | | | | X | | | X | | | | | | N | - | P |
| 10 | 50 | | | | | X | . | | X | | | | | | | | X | | | | | | N | - | P |
| 11 | 40 | | | | | X | . | | X | | | | | | | | | X | | | | | N | 35 | P |
| 12 | 35 | | | | | X | . | | X | | | | | | | | | X | | | | | N | 30 | P |
| 13 | 30 | | | | | X | . | | X | | | | | | | | | | | X | | | N | 20 | P, C |
| 14 | 30 | | | | | X | . | | X | | | | | | | | X | | | | | | N | - | P, C |
| 15 | 30 | | | | | X | . | | X | | | | | | | | | X | | | | | N | - | C, P, C |
| 16 | 25 | | | | | X | . | | X | | | | | | | | | X | | | | | N | 20 | C, P, C |
| 17 | 30 | | | | | X | . | | X | | | | | | | | X | | | | | | N | - | C, P, C |
| | | | | | | | . | | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | | | |

COMMENTS

At the Northern end of this pocket beach is a B/C outcrop which has a 3m X 60m CT/P degree of oiling w/ some asphalt patches. The rest of the shore zone has a ST/S distribution of stain in the 1-2T2.

REVIEWED _____ DATE _____

OG the fogel

SEGMENT ST/ EV-16

SUBDIVISION A

DATE 4 / 20 80

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Ext. HMA/LVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Photo 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

Oil on Vegetation

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

SKETCH MAP

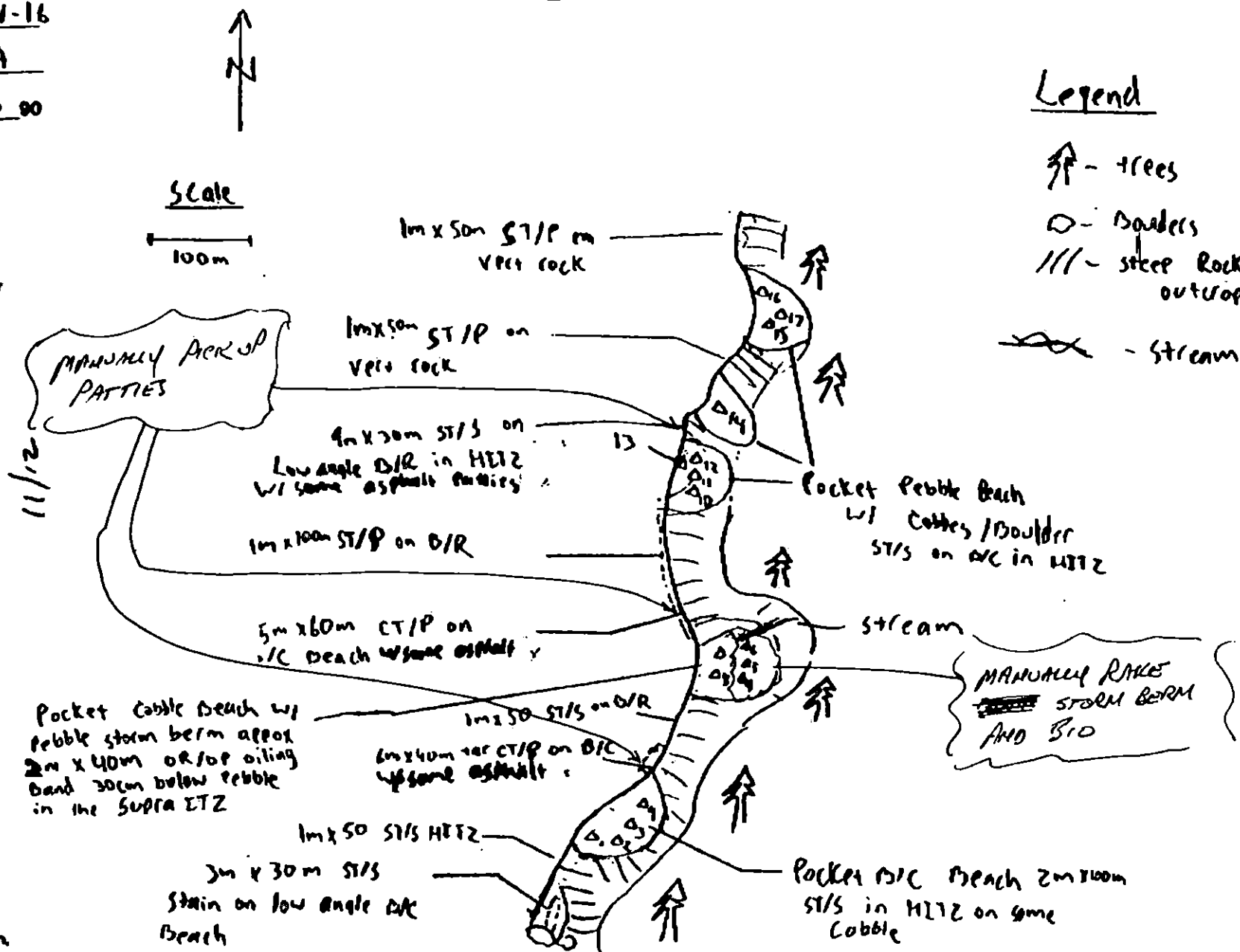
Legend

$\uparrow$ - trees

$\circ$ - boulders

/// - steep Rock/Boulder outcrop

--- - stream



Oil Character Length (m): AP 10 PO 0 CV 40 CT 100 ST 886 MS 0 PT 0 TB 0 FL 0 NO 0
 $\downarrow$ subsurface

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/23/88

Segment ST / EU-16 Subdivision A (1 OF 1) Date (mo / day / yr) 04 / 20 / 90Time (24 hr) 1448 - 1645 Biologist KATHERINE CONLAN

(A) Substrate type and % of segments:

(1) Bedrock 30 (2) Boulder 20 (3) Cobble 25 (4) Pebble 15 (5) Sand 10 (6) Silt 0(B) General % cover of biota (% of segment): Dense 10 Moderate 90 Low 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 (3)

Photographs:

Roll No. ST 11-3Frames 5-10

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

2 SHOREBIRDS: REDUCEDLY, AMPHIPODS AMONGST PEBBLES + COBBLES AT MID-TIDE LEVEL

Ecological Considerations:

V-16

ST 11-3

(PIT 5) #5,6
(PIT 9) #7,8
(STORM BERM) #9,10

WATER NEST

ECOLOGY MAP (1 OF 1)

RESOURCE CODES FOR ENTIRE
SEGMENT:

XXXX

////

EV-1

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-16

ADEC Segment Length: 883m

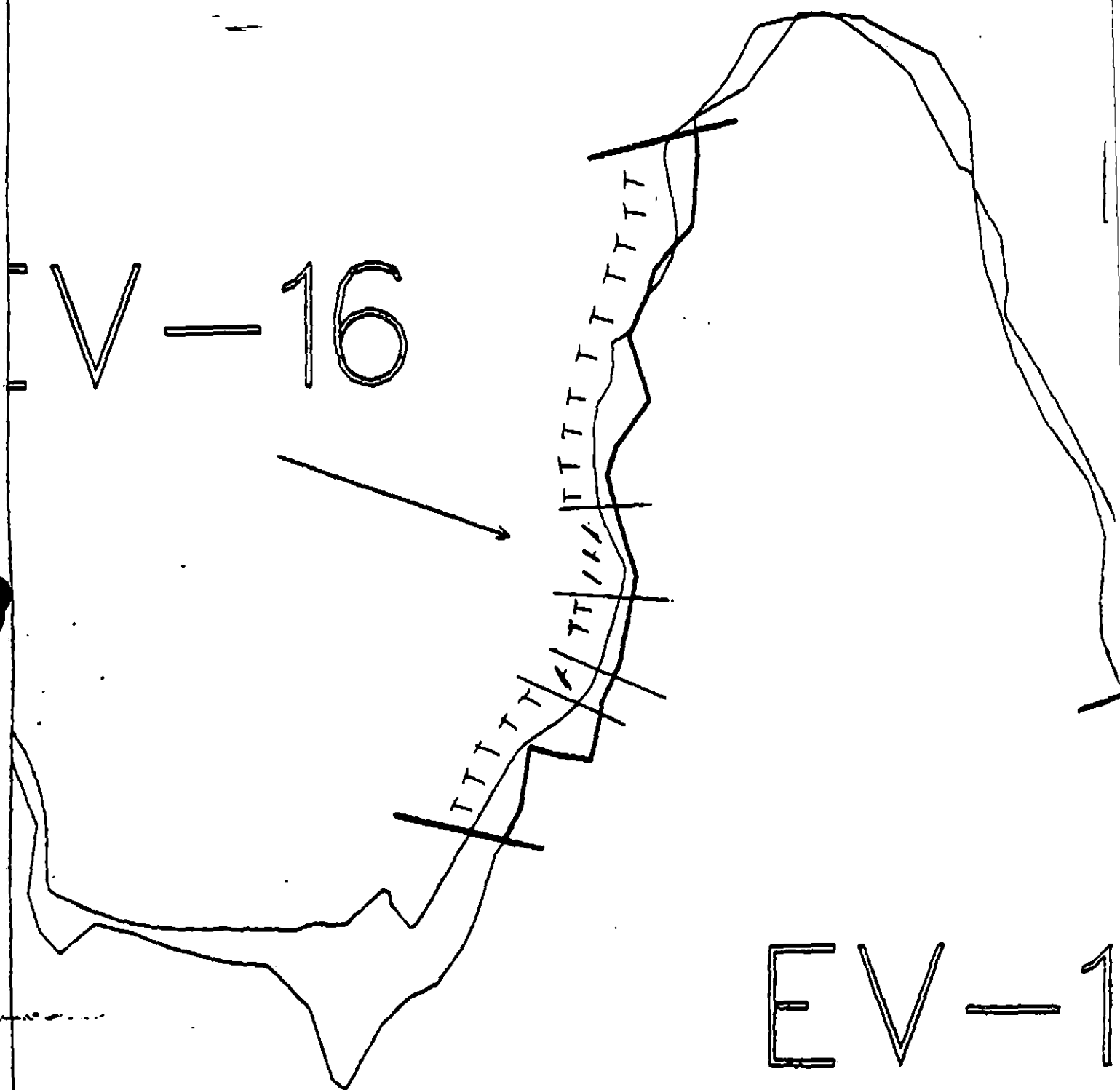
0 100 200 300
METERS

Map Key: PWS-184

Name: K.E. CONLAN

Date: 20 APRIL 1990

Date Entered:



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-16

ADEC Segment Length: 883m



Map Key: PWS-184

Name: Mike Fager

Date: 4/20/80

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

-SEGMENT EV-16 SUBDIVISION A (1 of 1)

| WORK WINDOW | |
|---------------------------------|--------|
| Manual Pickup | CLOSED |
| Bioremediation
Manual Raking | CLOSED |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

USFWS 6/1/90 map indicates an active nest in Subdivision A. Closed to manual pickup, manual raking, and bioremediation within 400m of active nest.

7II Subsistence: Deer Harvesting

Closed to bioremediation and manual raking after 8/15. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest constraint is removed, other ecological considerations will apply.

FOSC

DATE

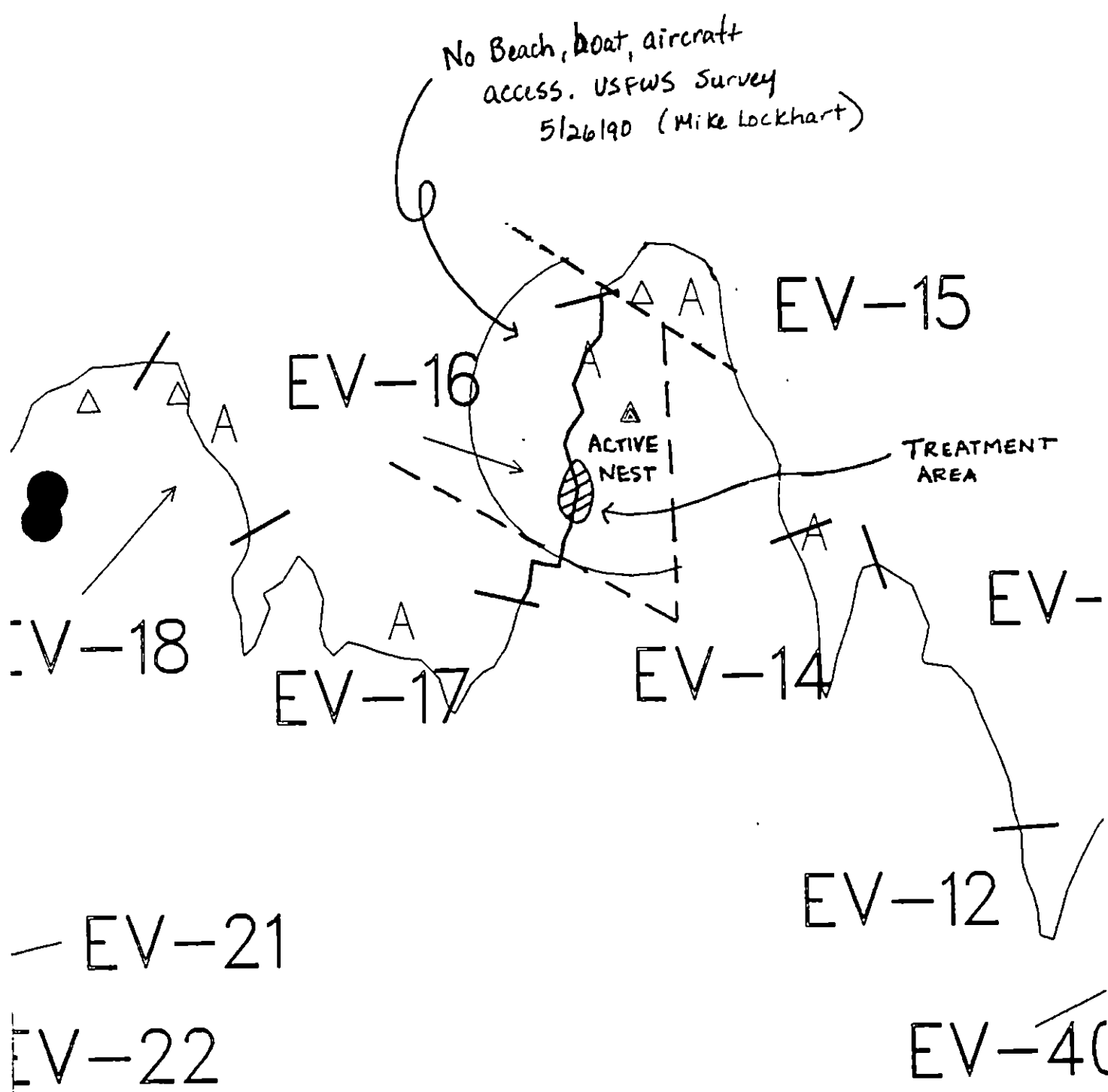
6-10-90

Prepared By:

J.P. Phillips

Date

6/9/90



SHORELINE EVALUATION

SEGMENT ST/ EV-17 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16620, 16630.

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature]

DATE: 4/23/90

OILING CATEGORIZATION:

Wide 74 m: Medium 0 m: Narrow 88 m: V. Light 773 m: No Oil 679 m
Subsurface Oil Observed: Yes X No Maximum Depth 20+ cm

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X Manual Pickup

X Bioremediation

X Tarmat: Breakup

X Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Recommended treatment includes 1) manual tarmat removal, 2) manual pick up of oiled debris, 3) bioremediation of surface and sub-surface oil in areas shown on attached sketch map. Work should be conducted between 5/15 and 7/10 based on salmon constraints. No bioremediation within 100m. of stream without permit from ADF&G.

TAG COMMENTS:

TAG APPROVAL DATE: 4/23/90

ADEC ART WEINER Art Weiner

EXXON ANDY TATE Andy Tate

NOAA Joseph Talbott Joseph Talbott

USCG KENNETH KEENE Kenneth Keene

FOSC: [Signature]

DATE: 5-1-90

Do not bioremediate F&W km's debris.

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
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 Esther Hatchery release (4/15 to 6/1)
- 1E Main Bay Hatchery release (4/20 to 5/10)
- 1F Sawmill Bay Hatchery release (4/15 to 6/1)
- 1G Cannery Creek Hatchery release (4/21 to 6/1)
- 1H Remote release site
- 1I Gill net area (6/7 to 8/31)
- 1J Purse seine area (7/20 to 9/30)
- 1K Purse seine hook-off (7/20 to 9/30)
- 1L Set net sites (6/11 to 7/25)
For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)
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 (5/15 to 7/1)
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 9/1)
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 (8/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
- 7HH Finfish harvesting
- 7JJ Deer harvesting (8/15 to 2/28)
- 7JJ Invertebrate harvesting
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

15

SEGMENT ST/ LV-17 SUBDIVISION: _____ DATE 4/10/90

USCG
NAME R. Hubbard SIGNATURE Randolph Hubbard

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED *on further*

1. Manual removal of oil tainted particles & fill under line area to allow natural process of nature.
2. Later cleanup to note process.

ADEC
NAME J. LYNN MARTIN SIGNATURE J. Lynn Martin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

AGREE WITH EXXON OPS. RECOMMENDATION FOR MANUAL REMOVAL OF ASPHALT AREAS THROUGH OUT SEGMENT.
ALSO AGREE WITH RECOMMENDATION FOR NO CLEAN UP ON NORTH END OF SEGMENT DUE TO ACCESSIBILITY OF AREA.
ON EAST SIDE OF BAY (SEGMENT) THE LIGHT SURFACE COVER AND HEAVY SUBSURFACE SHOULD OIL SHOULD BE FURTHER REVIEWED AND SCAT DUE TO ITS LOCATION TO A ACTIVE STREAM.

LAND MANAGER
NAME Patrick Selamoff SIGNATURE Patrick Selamoff

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Rifer to ADEC comment

SHORELINE OILING SUMMARY

REVISION NO. 02/28/90

OG Reimer USCG Hubbard SEGMENT ST/ EV-17
 BIO Zamora LAND REP Selamoff (CUC) SUBDIVISION A (1 of 1)
 EXXON Garcia ADEC MARTIN TIME/6 : 20 to 18 : 00
 TEAM NO.: 16 TIDE LEVEL: +5 to +2 DATE 4 / 9 / 90
 EST. SUBDIVISION LENGTH: 800 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock Snow
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: West to East
 SURFACE SEDIMENTS: R 5 % B 20 % C 20 % P 40 % G 15 % S 0 % M 0 % V 0 %
 SLOPE: Long 45 % Hang 5 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 75 m M 0 m N 20 m VL 381 m NO 413 m

SURFACE OIL

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

PAVEMENT: H (F) 8 2 sq. m by 4 cmPATTIES / TARBALLS 2 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | X | | |
| Debris | | | |

DEBRIS COLLECTED
☐ YES ☒ NOTYPE (C)#BAGS (C)

Photographs:

Roll No. ST-16-7,8Frames 31-37, 1-18

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 | | UO | UD | 1 | 2 | 3 | 4 | 5 | BU | U | M | V | | |
| 1 | 26 | | X | | | | 0 - 20 | | X | | | | X | | X | | | | | PG-B |
| 2 | 20 | | | | | X | - | | | | | | | | | X | | | | PG |
| 3 | 15 | | | | | X | - | | | | | | | | X | | | | | PG |
| 4 | 45 | | | | | X | - | | | | | | | | X | | | | | PG |
| 5 | 15 | | | | | X | - | | | | | | | | | X | | | | PGC |
| 6 | 15 | | | | | X | - | | | | | | | | X | | | | | PGC |

COMMENTS Series of fresh water streams with wide intertidal flats, separated by rocky headlands. The tidal flats are generally covered with pebbles, granules and scattered cobbles. Rocky areas typically have coarse substrate with cobbles and boulders. The majority of this segment has No to very light oiling in the form of sporadic clumps or bands on rocky areas and under boulders on coarse sediment beaches. There are two areas which have pavement, one of them which extends under the snow and should be further investigated. The only wide oiling is along the eastern shore of the segment where pits show a dark brown band 20 m wide. Stream beds appear clean.

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 08/23/90

SEGMENT ST/ EV-17 SUBDIVISION A

SUBSURFACE OIL (CONTINUED)

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (cm-08) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A N A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|---|----|---|-------|----------------------|
| | | OP | OR | OL | OF | NO | | UO | UC | Y | Y | Y | Y | Y | Y | Y | Y | BU | U | BU | U | | |
| 7 | 65 | | | | | X | - | | | | | | | | | | | X | | | | | PF |
| 8 | 45 | | | | | X | - | | | | | | | | | | | X | | | | | PG |
| 9 | 10 | | | | | X | - | | | | | | | | | | | | | X | | | PGC |
| 10 | 35 | | | | | X | - | | | | | | | | | | | X | | | | | PG |
| 11 | 45 | | | | | X | - | | | | | | | | | | | X | | | | | PG |
| 12 | 45 | | | | | X | - | | | | | | | | | | | X | | | | | PG |
| 13 | 20 | | | | | X | - | | | | | | | | | | | | X | | | | PGC |
| 14 | 25 | | | | | X | - | | | | | | | | | | | | | X | | | PGC |
| 15 | 20 | | X | | | | 0 - 20 | X | | | | X | | | | | | X | | | | | PGC |
| 16 | 20 | | | | | X | - | | | | | | | | | | | | X | | | | PGC |
| 17 | 10 | | X | | | | 0 - 10 | X | | | | X | | | | | | X | | | | | PC |
| | | | | | | | . | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | |
| | | | | | | | . | | | | | | | | | | | | | | | | |

COMMENTS

REVIEWED JW DATE 4/12/90

00 R erSEGMENT ST/ EV-17SUBDIVISION ADATE 4 / 9 90

CHECKLIST

- ☒ M Area
- ☒ Approx. Size
- ☒ Substrate Character
- ☒ E.g. INH/A/WL
- ☒ Profile Location(s)
- ☒ Photo Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
PI - No Subsurface Oil2 Δ
PI - Subsurface Oil

CT/C

 Continuous Distribution

CT/B

 Broken Distribution

CT/P

 Patchy Distribution

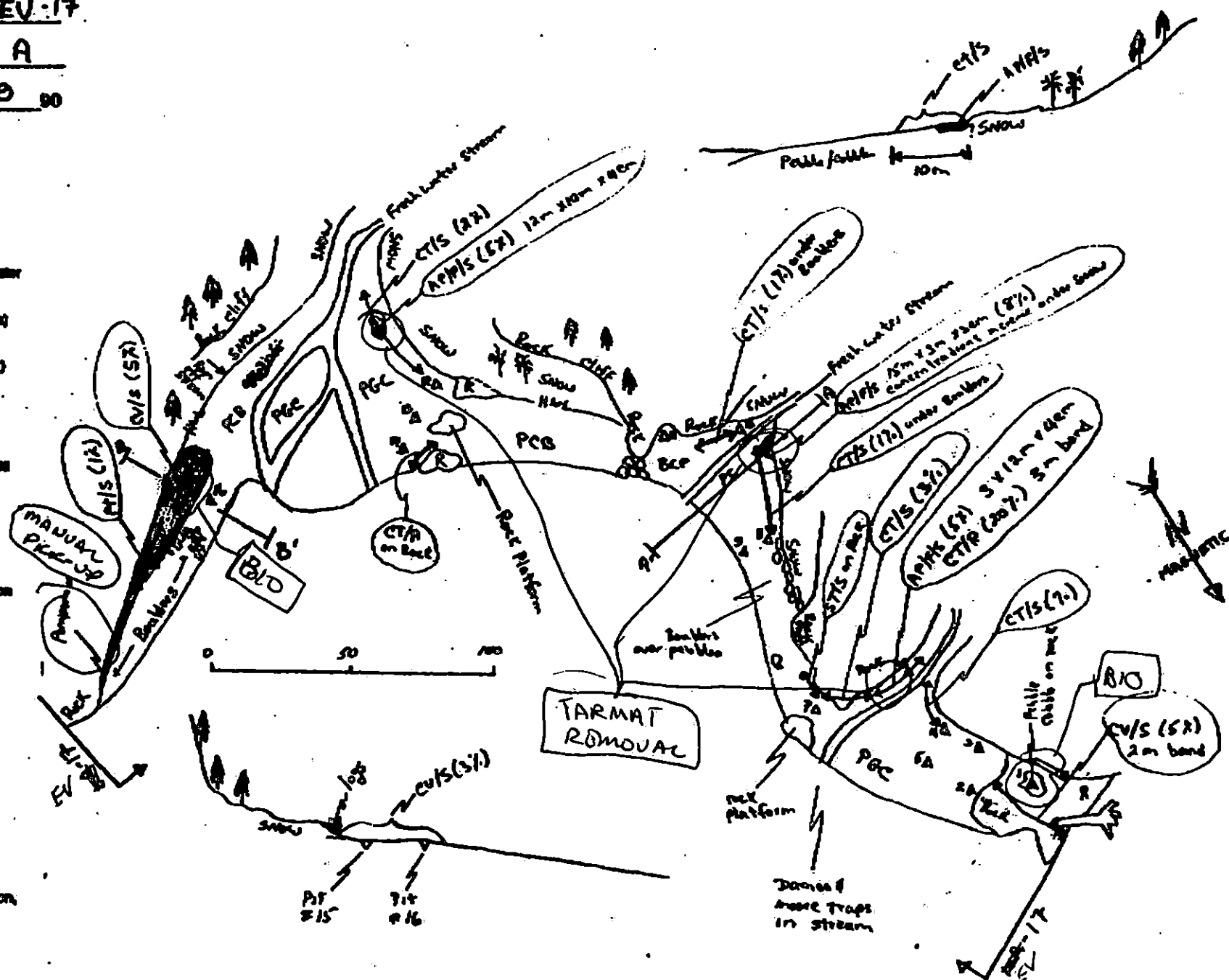
CT/S

 Splashed Distribution

Oil Vegetation

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

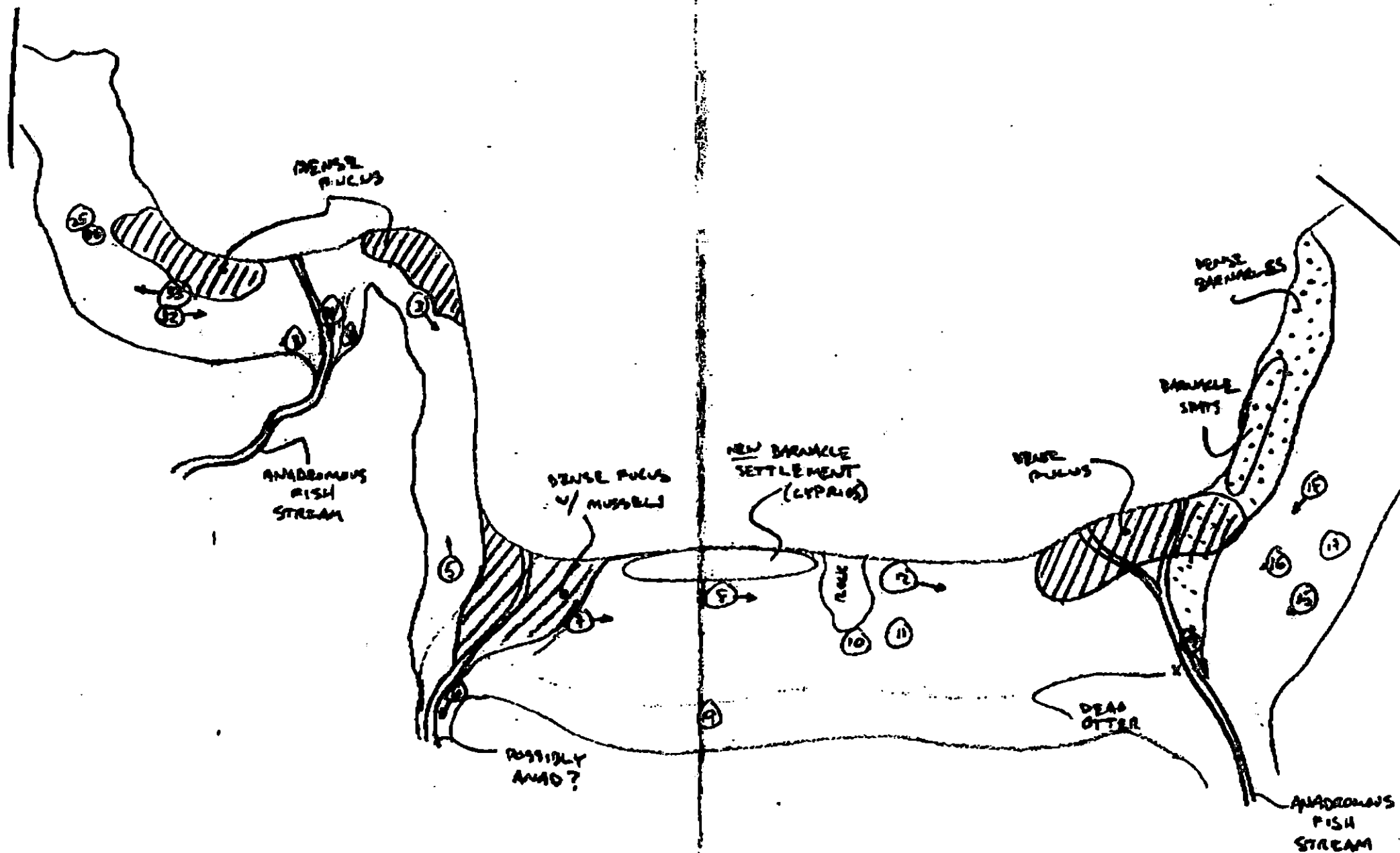
SKETCH MAP

Oil Character Length (m): AP 27 PO - CV 180 CT 300 BT 25 MB - PT 35 TB - FL - NO 413

REVENUE/000000

EV 17

BIOLOGY SKETCH
WITH
PHOTO LOCATIONS



SHORELINE ECOLOGICAL SUMMARY

REVISION 08/28/90

Segment ST EU 17 Subdivision 1000 Date (mo / day / yr) 4 / 9 / 90
Time (24 hr) 1500 off Biologist TONY RAMORA

- (A) Substrate type and % of segments:
(1) Bedrock 5 (2) Boulder 20 (3) Cobble 20 (4) Pebble 55 (5) Sand 15 (6) SR -
- (B) Overall % cover of biota (% of segment): Dense 60 Moderate 35 Low 5
- (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-14-718

Frames 31-37, 1-18

BARNACLES

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

MYTILUS

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

GASTROPODS

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

FUCUS

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

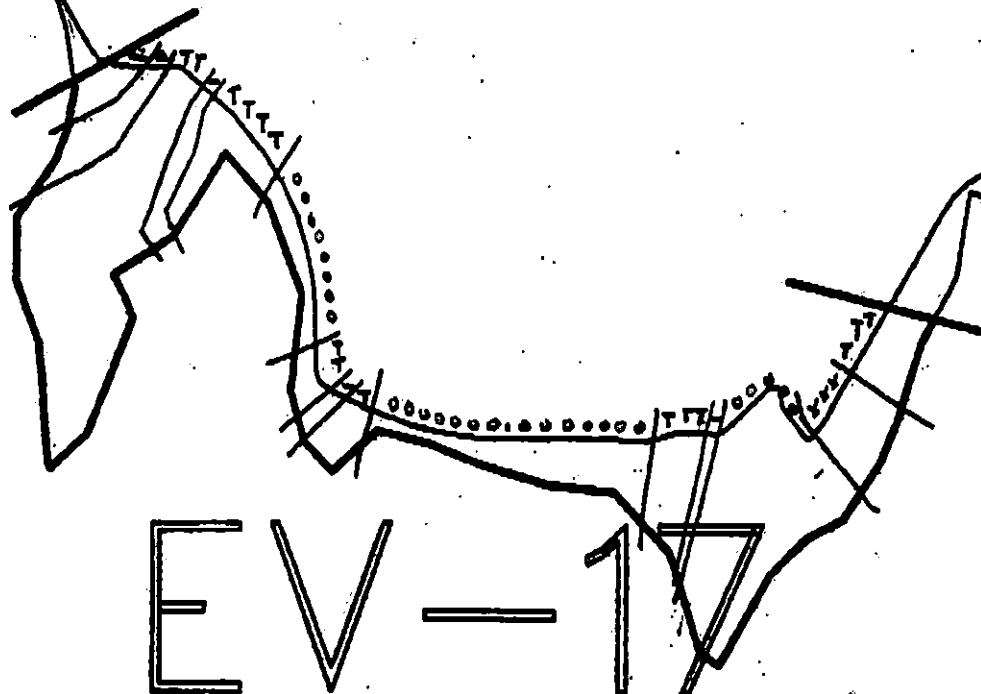
Wildlife Observations/ General Comments:

- SITES: GUILLEMOTS, DEER SCAT, OTTER
- BARNACLE SPATS ABUNDANT - INCLUDING ONE AREA OF UNMETAMORPHOSED EYED LARVAE.
- LOW BONE WAS UNEXPOSED DURING SURVEY. SHELLS FOUND (P. STANW SALICORNIA, POLLINICES) MAY INDICATE CLAM HABITAT IN LOW BONE

3 ANATROPHOUS STREAMS WITHIN SEGMENT - STREAM ON WEST SIDE HAS FRY TRAPS (DANES & MOORE)

ECOLOGICAL CONSIDERATIONS: 1A/B, 9TL

EV-16



EV-17

XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-17

ADEC Segment Length: 1614m



Map Key: PWS-185

Name: Reimer

Date: 4/9/90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-17 SUBDIVISION A (1 of 1)

| WORK WINDOW | |
|---------------------------------|------|
| Manual Pickup
Tarmat Removal | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

Two ADF&G catalogued anadromous streams (226-40-16620 and 226-40-16630) are in Subdivision A. No constraint to manual pickup and tarmat removal.

7II Subsistence: Deer
Harvesting

No constraint to manual pickup and tarmat removal.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Restrict boat and air traffic and beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to unrolled biota and substrate.

SEE ANADROMOUS FISH STREAM EVALUATION ADDENDUM (STREAM NOS. 226-40-16620 and 226-40-16630)
FOR ADDITIONAL CONSTRAINT INFORMATION

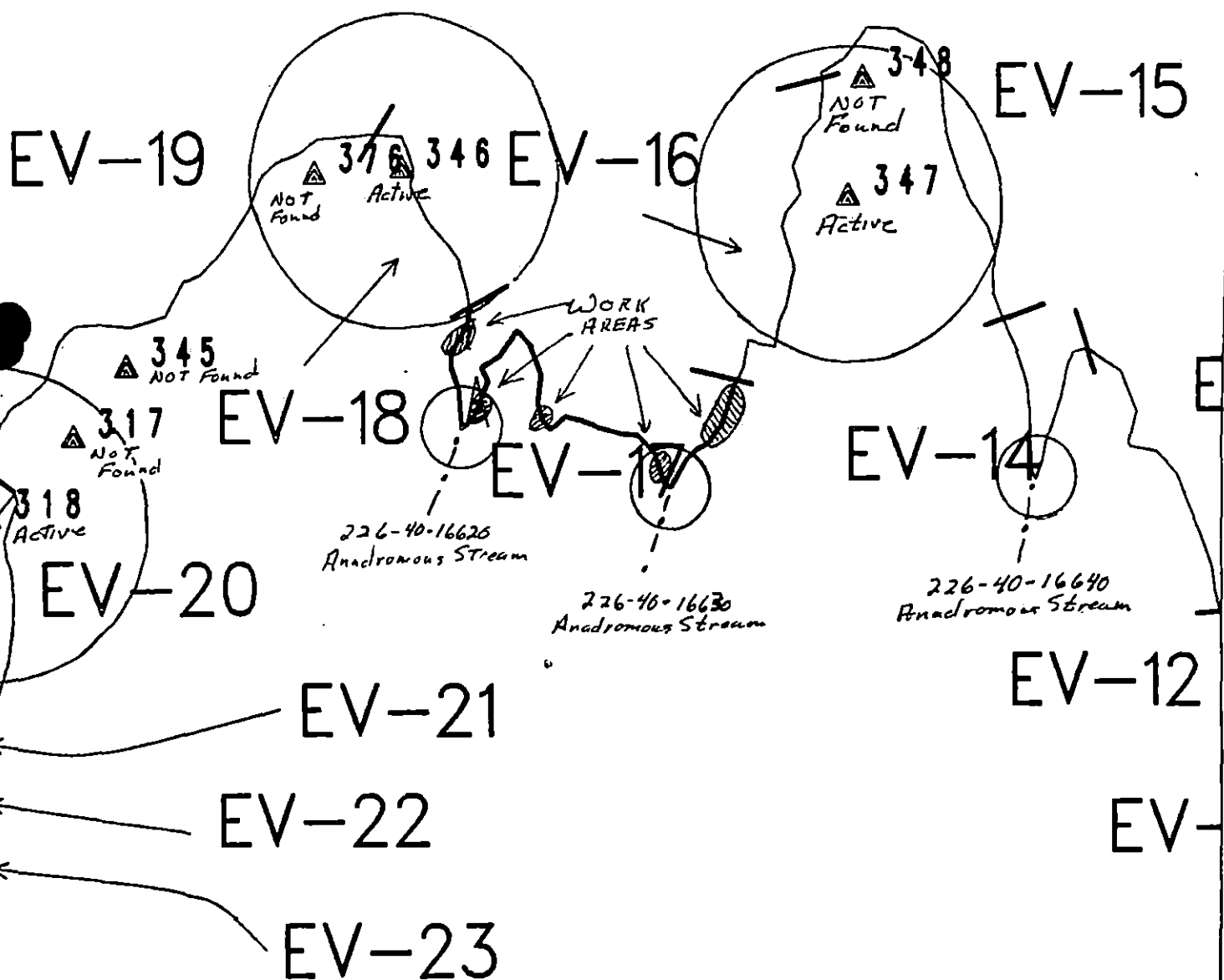
TAG APPROVAL DATE 6/01/90
ADEC Ray Monicoes Ray Monicoes
EXXON Amoy Tse Amoy Tse
NOAA Carl A. Heister Carl A. Heister
USCG Carl A. Heister Carl A. Heister

FOSC DD Rome, CDR, USCG DATE 6/2/90

Prepared By: Anders Thompson

Date 5/31/90

Incorporates information from
USFWS bald eagle surveys
5/12 & 5/26/90.



Exxon Company, USA
Map Key: PMS-EV-17
May 11, 1990



ECOLOGY MAP
SEGMENT EV-17
SUBDIVISION A (1 of 1)

0 413 827 METERS

1 inch = 1356 feet

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-17 A STREAM NO: 226-40-16620 DATE 4/21/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two anadromous streams are in EV-17: 226-40-16620, 226-40-16630.

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located in Subdivision A (1 of 1). No ecological constraints re: intertidal biota.

SHPO SIGNATURE: J. David McElhiney DATE: 5/18/90

Subsurface Oil Observed: Yes ☐ No ☒ Maximum Depth ☐

RECOMMENDATIONS:

☐ No Treatment Recommended

☒ Treatment Recommended

☐ Manual Pickup

☐ Bioremediation

☒ Tarmat Removal

☐ Snare/Absorbent Booms

☐ Oil Snares (pom poms)

☐ Absorbents (pads, rolls, etc)

☐ Spot Washing: ☐ Wands

☐ Beach Cleaner

☐ Other (see comments)

COMMENTS: Recommended treatment includes manual removal of small tarmat as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on above listed constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/10/90

ADEC Art Wehner
EXXON Andy Katz
NOAA Burt Wescott
USCG D.D. BOME

FOSC: [Signature] DATE: 5-18-90

Access need for custodial following TARMAT removal. Notify CVC 24 hrs in advance.

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

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, prior to July 31 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 Esther Hatchery release (4/15 to 6/1)

1E Main Bay Hatchery release (4/20 to 6/10)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (8/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (8/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

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

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3P Harbor seal and sea lion pupping (5/15 to 7/1)

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. 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 (8/15 to 2/28)

Invertebrate harvesting

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

44/52

FIELD SHORELINE COMMENT SHEET

SEGMENT ST EV 017 SUBDIVISION: 16620 DATE 4/21/90

USCG

NAME CWO J. MC NATHAN SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

1. MANUAL REMOVAL OF THE MATS (ASPHALT).

ADFG Michael Wiedner

ADEG

NAME No Team member SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTEDREFER TO ADFG OBSERVATIONS AND
RECOMMENDATIONS FOR THIS DATE.

LAND MANAGER

NAME No Team member SIGNATURE _____☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

OG William Reid USCG McMahon SEGMENT ST/ EV 012
 BIO Michael Fawcett LAND REP Tom Crowe STRAIN 46-40-1622 OF
 EXXON Gus Garcia ADPG Mike Viether TIME 17:40 to 18:00
 TEAM NO. 15 TIDE LEVEL 1 FT DATE 21 / APR / 90
 EST. SUBDIVISION LENGTH: 0.5 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 70 % P 30 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 100 % Hang 0 % Ven 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ HI
 OIL CATEGORY LENGTH: W 0 m M 2 m N 0 m VL 60 m NO 27

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 0

NEAR SHORE SHEEN? (NO) BR RW SL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

Did You Col DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. AS-15-2

Frames 27-32

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) | V | SURFAC SUBSURF. SEDIMEN |
|---------|----------------|--------------------------|----|----|----|----|---------------------|-------|----|------------------|---|---|---|---|----------|---|---|--|-------|-------------|---|-------------------------|
| | | OP | OR | OL | OF | NO | | BO | UC | 1 | 2 | 3 | 4 | 5 | SU | M | U | | | | | |
| * 1 | 20 | X | | | | | 0-4 | X | | X | | | | | | X | | | | N | | P/G/C |
| 2 | 20 | | | | | X | | | | | | | | | | X | | | | N | | G/P/C |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

COMMENTS

* OILED INTERVAL < 5 cm IN PIT NO. 1 DOES NOT CONSTITUTE SUBSURFACE OIL

REVIEWED JW DATE 4-23-90

48/52
 WILLIAM REID
 SEGMENT ST/ EVQ17
 STREAM 226-10-16620
 DATE 21 APR 80

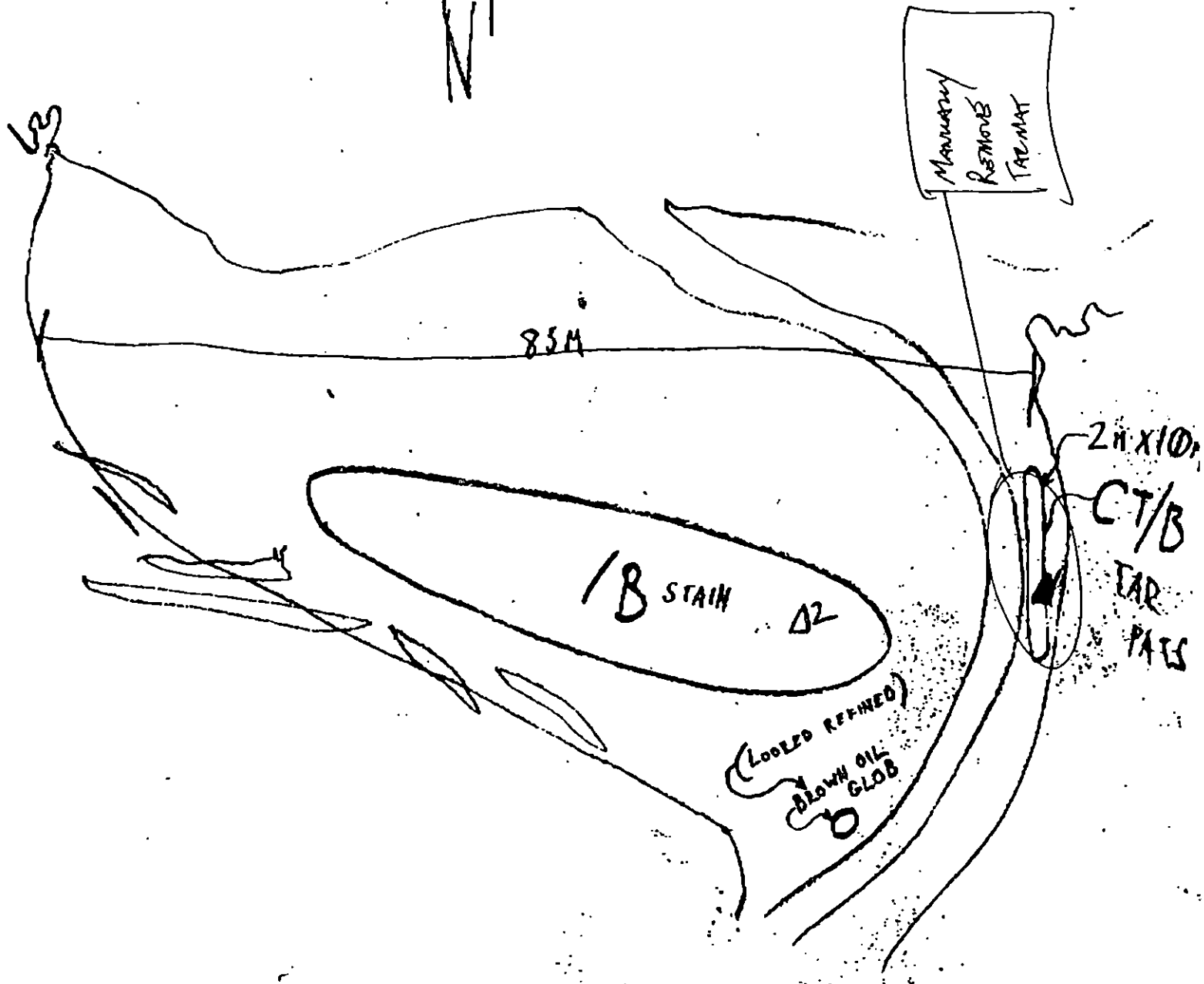
SKETCH MAP

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Dist Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWM/LWM
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PR Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
PR - No Subsurface Oil
- 2 Δ
PR - Subsurface Oil
- CT/C
Continuous Distribution
- CT/B
Broken Distribution
- CT/P
Patchy Distribution
- CT/S
Speckled Distribution
- eee
Oil Vegetation
- Photo location, direction, and number



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

APR-22-1990 11:54 FROM EXON CMD CORDOVA
 SCAT TEAM P.48 TO

45/52

ADPAC MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS OS TS AVS SCH MOHS PTA 2 REGION: PWS XP,CI K,AP
 METHOD: Aerial Ground Boat
 3 DATE: 4/21/90 15 HIGH TIDE TIMES: 1109, 1234 21 TEAM RECORDED: M. Wiedmeyer
 4 START TIME: 1720 16 HIGH TIDE HTS: 9.4, 10.3 22 OBSERVERS: T. Crowe
 5 STOP TIME: 1748 17 LOW TIDE TIMES: 0512, 1730 23 AGENCY: ADFG
 6 SEGMENT #: EV-017 18 LOW TIDE HTS: 2.9, 1.1 24 PHOTOS TAKEN: Y N
 7 STATION #: 226-40-16620 TIDE HT AT SURVEY: 1.11' Roll #: _____ Frame: _____
 8 X-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPES: _____
 9 STAT AREA: _____ 20 USCG QUAD: SEWARD A3 Starts: _____ Ends: _____
 10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN: Y N Number: _____
 12 SOURCE: Map Loran Oil: _____
 13 LOCATION: NORTH END EVANS IS. Sediment: _____
 14 DESCRIPTION: _____ Biological: _____
 Water: _____

EXTENT OF OIL

27 SURFACE COVERAGE

| SHORELINE | | | | STREAM | | | |
|-----------|-----|---|---|--------|---|---|---|
| L | V | H | N | L | V | H | N |
| 100 | 100 | | 5 | 100 | 3 | | 0 |

28 SURFACE THICKNESS

| | | | | | |
|------|------|---------|---|---|---|
| 2 mm | 5 mm | <0.1 mm | 0 | 0 | 0 |
|------|------|---------|---|---|---|

29 PENETRATION

| | | | | | |
|------|------|--|---|---|---|
| 4 cm | 0 cm | | 0 | 0 | 0 |
|------|------|--|---|---|---|

30 OVERALL OIL IMPACT: N VL L M H
 31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain
 32 OILED DEBRIS: Y N
 33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cave
 Lagoon Marsh
 34 WAVE EXPOSURE: High Moderate Low
 35 SUBSTRATE TYPE: Bedrock Boulder 30 Cobble 35
Gravel 35 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH BREAST? Y N
 37 CATALOG #: 226-40-16620
 38 STREAM NAME: _____
 39 OIL IN STREAM BED? Y N
 40 OIL ON STREAM BANKS? Y N
 41 OIL ON BEACH ADJACENT TO MOUTH? Y N
 (within 50 meters)
 42 OIL WITHIN 1 MILE OF STREAM Y N
 Shores: _____
 43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED
 44 ANADROMOUS FISH OBSERVATION:
 Species Aerial Ground

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

COMMENTS: TAR MAT BAND ALONG E. SIDE OF STREAM - VERY
SPORADIC STAINING OF Boulders AND COBBLES ON W SIDE OF
STREAM.

EV-017 46/52

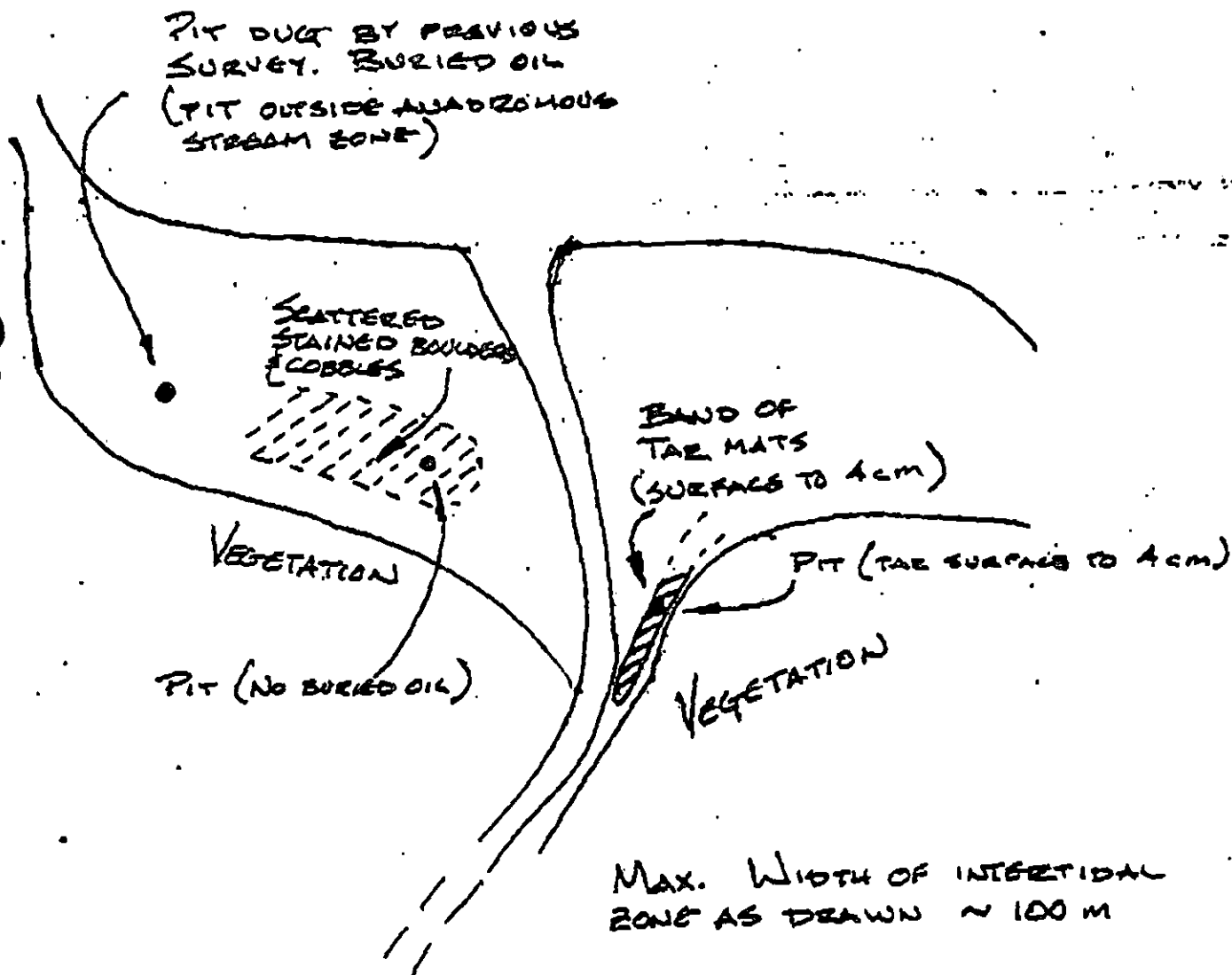
226-40-16620

48 PHOTOLOG

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF TAR MATS ON EAST SIDE OF STREAM.

48 OIL DISTRIBUTION DIAGRAM



5/52

Segment EV 17

4/21/90

Stream 226-40-16620

Michael Fawcett

Ecological Summary

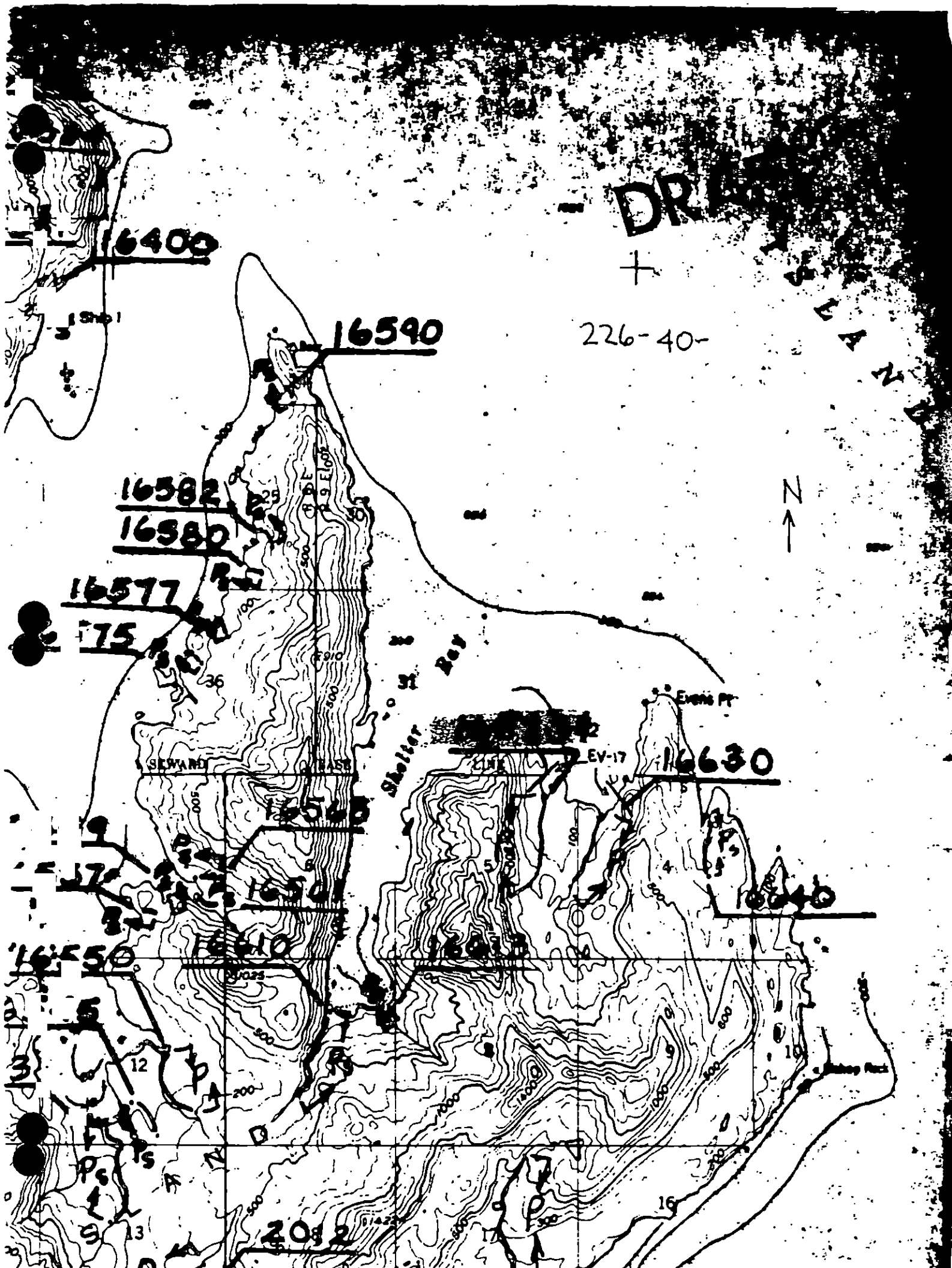
This stream enters an unstable gravel/pebble beach, with sparse biota (scattered barnacles, mussels, and Fucus). Light oil stains scattered in one area of UTZ, and some light surface tar mats were found in a 2 x 10m area on NW stream bank. Six James and Moore smolt traps are installed in the stream.

No ecological constraints re: intertidal biota. If manual cleanup of tar mats is conducted, crews should avoid causing stream bank to slump.

M Fawcett

DRAWN

226-40-



EV-16

SUBJECT
ANADIRHUS
SIREAM
EV-17A (1 of 1)

EV-17

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-17

ADEC Segment Length: 1514m



METERS

Map Key: PWS-185

Name: Reimer

Date: 4/9/90

Date Entered:

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-40-16620

SEGMENT EV-17 SUBDIVISION A

| WORK WINDOW | |
|----------------|------|
| Tarmat Removal | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous streams (226-40-16620 and -16630) are in Subdivision A. No constraint to tarmat removal.

7II Subsistence: Deer Harvesting

No constraint to tarmat removal.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Restrict boat and air traffic and beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-17A
FOR ADDITIONAL CONSTRAINT INFORMATION.

TAG APPROVAL DATE 6/01/90

ADEC R. M. Mearns

EXXON AMY TEAL

NOAA G.A. Reiter

USCG G.A. REITER

FOSC D. P. Rome CD, USCG DATE 6/2/90

Acting

Prepared By: Andrea Meyer

Date 5/31/90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-17 STREAM NO: 226-40-16630 DATE 4/21/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two catalogued anadromous streams are in EV-17:

226-40-16630 and 226-40-16620

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Avoid trampling and disturbance below the oiled areas in the dense beds of fucus and mussels.

SHPO SIGNATURE: [Signature] DATE: 5/8/90

Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended

 X Treatment Recommended

 X Manual Pickup

 Bioremediation

 X Tarmat Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Recommended treatment includes 1) manual removal of tarmat and debris. Work should be conducted between 5/15 and 7/10 based on salmon constraints.

TAG COMMENTS: FOLLOWING MANUAL REMOVAL OF ASPHALT + SMALL
ASPHALT PATCHES MONITORS TO ASSESS THE NEED TO RAKE
IN CUSTOMERLEN FOR ANY REMAINING OILED AREAS.

TAG APPROVAL DATE: 5/7/90.

ADEC ART WEINER Art Weiner

EXXON Andy [Signature]

NOAA Gary Petrac Gary Petrac

USCG G.A. REITER G.A. Reiter

FOSC: [Signature] DATE: 5-18-90

NOTIFY CUC 24 HRS IN ADVANCE
OF WORK

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

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, prior to July 31 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 Esther Hatchery release (4/15 to 6/15)

1E Main Bay Hatchery release (4/20 to 6/15)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (5/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (8/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unrolled 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 Evelyn Biggs 424-3235

3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)

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. 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)

7HH Finfish harvesting

7H Deer harvesting (8/15 to 2/28)

7JJ Invertebrate harvesting

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

52/52

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV 017 SUBDIVISION: 16630 DATE 4/21/90

USCG

NAME Mike J. McMahon SIGNATURE J. McMahon☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

1. BIOREMEDIATION (SELECTED AREAS PER MAP)

ADFG
ADESNAME Michael Wiedmer SIGNATURE Michael Wiedmer☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

MANUAL REMOVAL ONLY. NO BIOREMEDIATION
RECOMMENDED. SEE ADFG OBSERVATIONS
AND RECOMMENDATION SUMMARY FOR THIS
DATE. (EXXON REP. CONCURS WITH ADFG'S
RECOMMENDATION)

LAND MANAGER

NAME No team member SIGNATURE _____☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ EV017
 BIO MICHAEL FAWCETT LAND REP STRAHM 235-40-16592 OF
 EXXON GUS GARCIA ADPG MIKE WIEDNER TIME 15:30
 TEAM NO. 15 TIDE LEVEL + 2 FT DATE 21 / 1 / 90
 EST. SUBDIVISION LENGTH: 150 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 1 % C 50 % P 40 % G 9 % S 0 % M 0 % V 0
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 10 m M 35 m N 0 m VL 0 m NO 105

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|---|----|----------------|---|---|---|
| | C | R | P | N | W | M | N | VL | W | M | N | U |
| ASPHALT PAVEMENT | X | X | | | X | | | | | | X | X |
| POOLED | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | |
| NO OIL | | | | | | | | | X | X | | |

PAVEMENT H (F) S 625 sq. m by 10

PATTIES / TARBALLS 0 BA

NEAR SHORE SHEEN? NO BR RW SL 1

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

Did You Collect DEBRIS ☐ YES ☒ NO
 TYPE _____
 #BAGS _____

Photographs:
 Roll No. A5-15-2
 Frames 17-26

SUBSURFACE OIL X OILED INTERVAL < 5 CM IN PITS 2 AND 5 DOES NOT CONSTITUTE SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL | BELOW | | OIL / FILM COLOR | | | | PIT ZONE | | | | A N A | SHEEN SHEEN (Y/N) | Y | SURFACE SUBSURFACE SEDIMENT |
|---------|----------------|--------------------------|----|----|----|----|----------------|-------|----|------------------|---|---|----|----------|---|---|---|-------|-------------------|----|-----------------------------|
| | | CP | OR | OL | GP | NO | | NO | OC | W | M | N | VL | W | M | N | U | | | | |
| 1 | 35 | | | | | X | . | | | | | | | | X | | | | N | | G/P |
| * 2 | 35 | X | | | | | 0-10 | X | | X | | | | | X | | | | Y | 15 | G/P |
| 3 | 30 | | | | | X | . | | | | | | | | X | | | | N | | G/P |
| 4 | 35 | | | | | X | . | | | | | | | | X | | | | N | | G/P/C |
| * 5 | 25 | X | | | | | 0-5 | X | | X | | | | | | X | | | Y | 20 | G/C/P |

COMMENTS

REVIEWED JW DATE 4-25-9

SKETCH MAP

OG **AM REID**
 SEGMENT ST/ **E V017**

STREAM **226-40-16630**

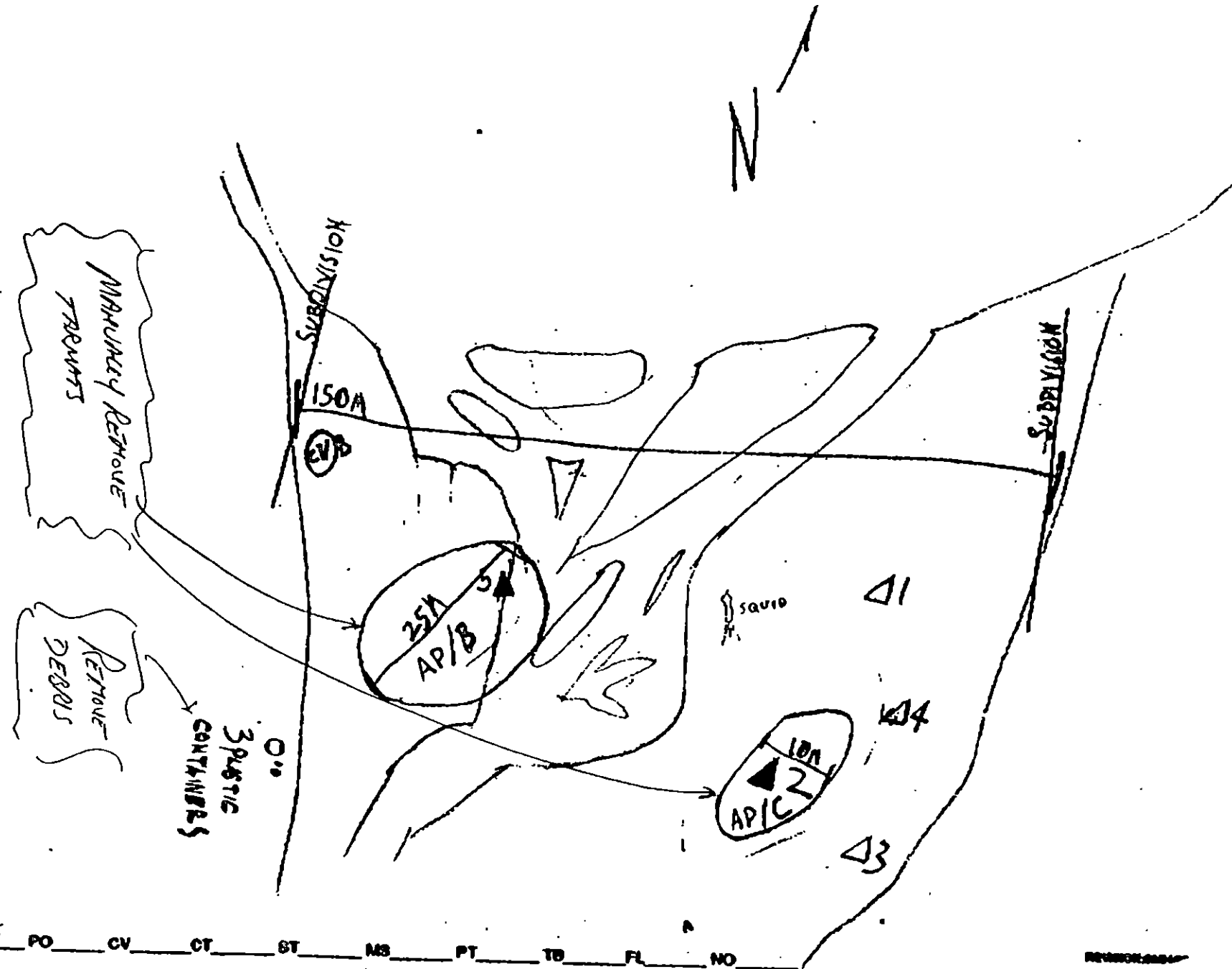
DATE **21 APR 90**

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Sec/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LVL
- ☐ SBL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ P/L Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- FR - No Subsurface Oil
- 2 Δ
- FR - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/D
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Splashed Distribution
- eee
- Oil Vegetation
- 1 ●
- Photo location, direction, and number



Oil Character Length (m): AP **45** PO CV CT ST MS PT TB FL NO

SCAT TEAM P.38 TO EXXON CMD CORDOVA FROM APR-22-1990 11:49

35/52

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCIA HONS PTA2 REGION: PWS XP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/21/9015 HIGH TIDE TIMES: 1109, 234421 TEAM RECORDER: M. WIDMER4 START TIME: 160016 HIGH TIDE HTS: 9.4, 10.322 OBSERVERS: T. CROWE5 STOP TIME: 170017 LOW TIDE TIMES: 0512, 173023 AGENCY: ADFG6 SEGMENT #: EV-01718 LOW TIDE HTS: 2.9, 1.124 PHOTOS TAKEN: Y (N)7 STATION #: 226-40-1663019 TIDE HT AT SURVEY: 2.31'

Roll #: _____ Frame: _____

8 K-UNIT: _____

20 USCG QUAD: Ebb SEWARD A325 VIDEO TAKEN: (Y) N TAPES: 90THK001.ANS

9 STAT AREA: _____

26 STAT AREA: _____

Start: 0824 End: 1108

10 LAT: _____

11 LONG: _____

28 SAMPLES TAKEN: Y (N) Number: _____

12 SOURCE: Map Loren

Oil

13 LOCATION: SHELTER COVE, N. END EVANS IS.

Sediment

14 DESCRIPTION: _____

Biological

Water

EXTENT OF OIL

| | SHORELINE | | | | STREAM | | | |
|---------------------|-----------|-----|----------------|----|--------|----|----------------|---|
| | L | W | H ² | S | L | W | H ² | S |
| 27 SURFACE COVERAGE | 300 | 150 | | 15 | 200 | 10 | | 2 |

36 CATALOGED ANAD. FISH SKEWT (Y) N37 CATALOG #: 226-40-16630

38 STREAM NAME: _____

| | 2mm | 1mm | <1mm | 1mm | | |
|----------------------|-----|-----|------|-----|--|--|
| 28 SURFACE THICKNESS | 2mm | 1mm | <1mm | 1mm | | |
| 29 PENETRATION | 5cm | 5cm | 10cm | 3cm | | |

39 OIL IN STREAM BED? (Y) N40 OIL ON STREAM BANKS? (Y) N30 OVERALL OIL IMPACT: N VL L M (N)41 OIL ON BEACH ADJACENT TO MOUTH? (Y) N
(within 30 meters)42 OIL WITHIN 1 MILE OF STREAM? (Y) N

31 OIL TYPE: Pooled House Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y (N)

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove43 ANADROMOUS FISH PRESENT? (Y) N

FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

34 WAVE EXPOSURE: High Moderate Low

Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Boulder 30 Cobble 30

| Species | Aerial | Ground |
|---------|--------|--------|
| | | |
| | | |
| | | |

Gravel 30 Sand 10 Mud/silt _____

THIS IS A LARGE INTERTIDAL ZONE WITH WIDELY DISTRIBUTED
PATCHES OF OILED SUBSTRATE. THE OIL THAT REMAINS IS PREDOMINANTLY
TAR SOAKED GRAVELS AND SAND UNDERNEATH AND BETWEEN
RELATIVELY CLEAN COBBLES AND BOULDERS. TREATMENT AT
THIS SITE WILL BE DIFFICULT. A LOW CONCENTRATION OF OIL IS

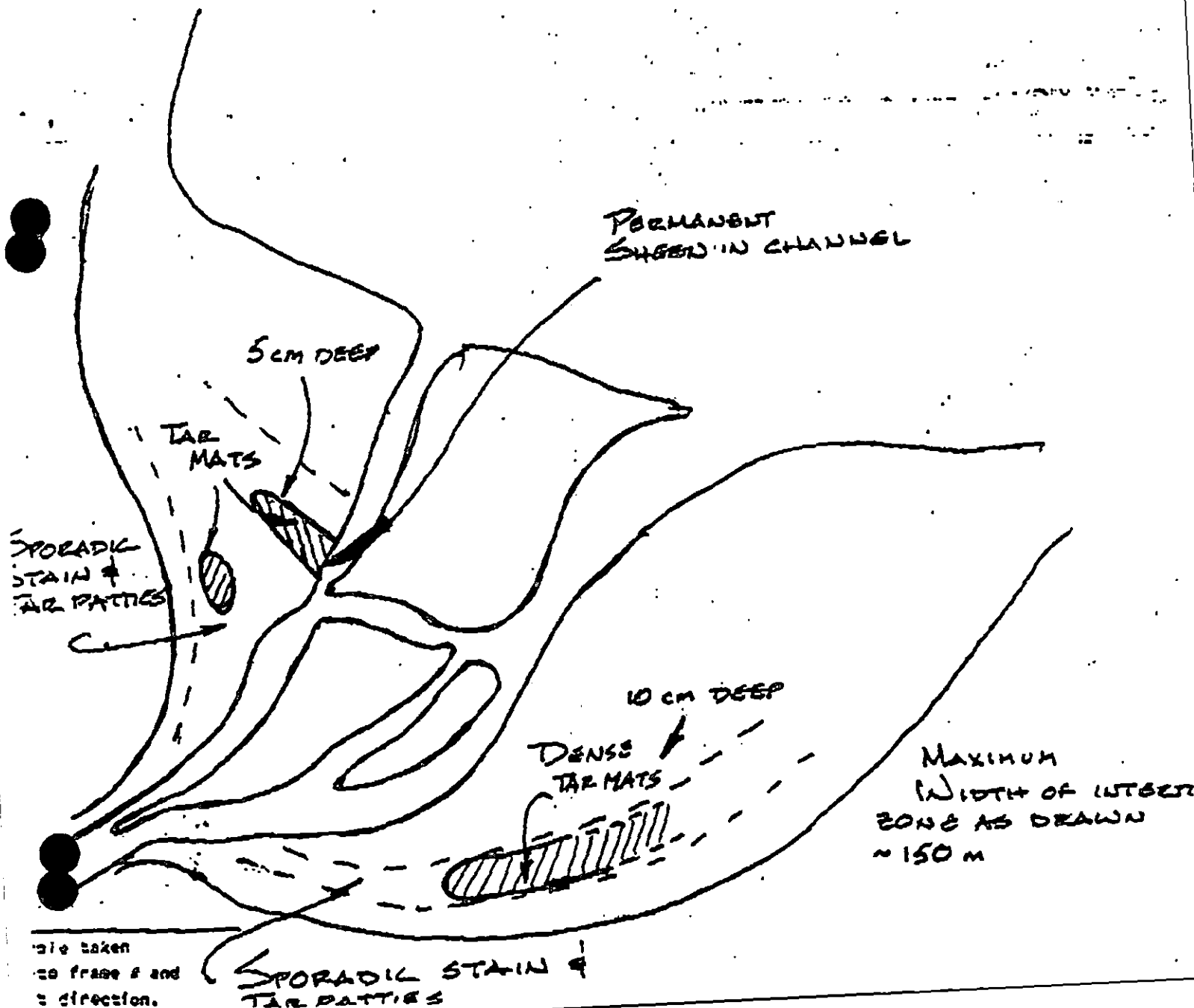
EV-017 36/52
226-40-16630

48 PHOTOLOG

MANUAL DESCRIPTION

RECOMMENDATIONS: ~~THE~~ REMOVE SURFACE TAR MATS WHERE SHOWN IN DIAGRAM. BAG AND REMOVE ONLY OILED SUBSTRATE SMALLER THAN 5 CM. MANUALLY TILL LARGER SUBSTRATE TO SPEED WEATHERING.

48 OIL DISTRIBUTION DIAGRAM



ole taken
to frame 2 and
direction.

4/52

Segment EV 17
Stream 226-40-16630
Ecological Summary

4/24/90
Michael Fawcett

This stream has a fairly broad delta composed of shale cobbles/pebbles/sand, with dense beds of Fucus and mussels near the mouth, with clams and other infauna beneath the mussels in MTZ and LTZ. Splatters, stains, and surface tar mats were found in a wide area of UTZ among boulders and cobbles on SE side of the stream. Other intermittent surface oil and sheen was found among cobbles and sand in the MTZ of the stream delta, on north side of stream, directly above dense Fucus and mussel beds. Two sea otters were seen feeding nearshore. Manual pickup and bio-remediation recommended, with avoidance of trampling and disturbance below the oiled areas.

M. Fawcett

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-40-16630

SEGMENT EV-17 SUBDIVISION A

WORK WINDOW

Manual Pickup
Tarmat Removal

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,B Salmon Stream

ADF&G catalogued anadromous streams (226-40-16620 and -16630) are in Subdivision A. No constraint to manual pickup and tarmat removal.

7II Subsistence: Deer Harvesting

No constraint to manual pickup and tarmat removal.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Restrict boat and air traffic and beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-17A
FOR ADDITIONAL CONSTRAINT INFORMATION.

TAG APPROVAL DATE 6/01/90

ADEC Ray Monrois Ray Monrois

EXXON AWAY TAD Ray

NOAA B.A. Reiter

USCG B.A. Reiter B.A. Reiter

FOSC

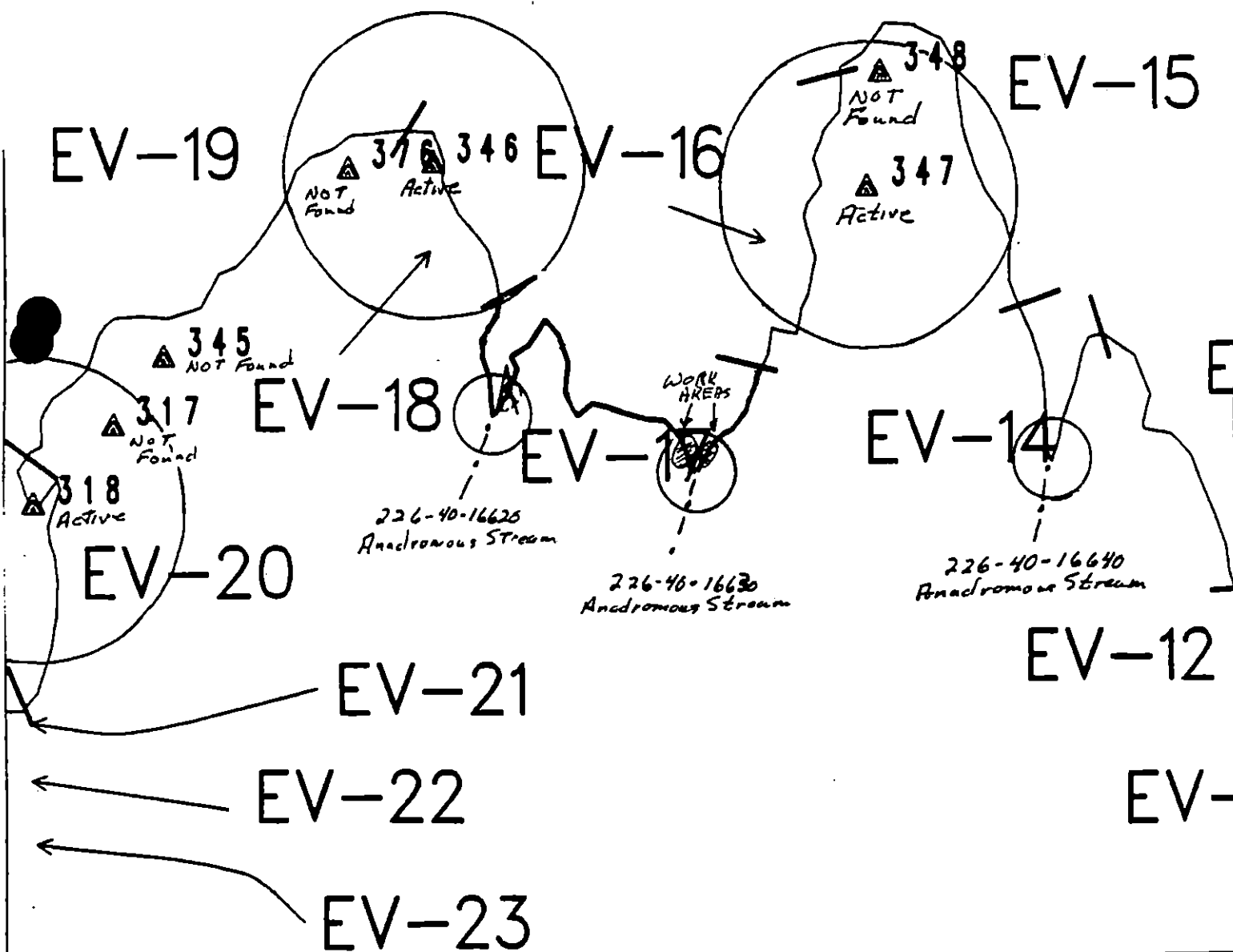
D. Rome, COB, USCG DATE 6/2/90

Acting

Prepared By: Anders Meyer wrk

Date 5/31/90

Incorporates information from
USFWS bald eagle surveys
5/12 & 5/26/90.



Exxon Company, USA
Map Key: PMS-EV-17
May 11, 1990



ECOLOGY MAP
SEGMENT EV-17
SUBDIVISION A (1 of 1)
METERS
0 413 827

| | |
|---|----------------|
| ★ | Seabird Colony |
| ▲ | Eagle Nest |

1 inch = 1356 feet

SHORELINE EVALUATION

SEGMENT ST/ EV-18 SUBDIVISION A (1 OF 1) DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and
contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: A. David McKen DATE: 5/1/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 270 m: V.Light 270 m: No Oil 0 m
Subsurface Oil Observed: Yes X No Maximum Depth 30 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 includes bioremediation of area of subsurface and surface oil as shown on sketch map. Work should be conducted after 6/1 based on above constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/1/90.
 ADEC Art Weiner
 EXXON Andy Tan
 NOAA Gary Petrone
 USCG Kenneth Keane

FOSC: W L DATE: 5-8-80
CVC ~~to~~ does not object to bioremediation

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

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, prior to at least July 1 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 Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

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, prior to July 31 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 Esther Hatchery release (4/15 to 6/1)

1E Main Bay Hatchery release (4/20 to 6/10)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. 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 or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (8/7 to 8/31)

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

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (8/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. 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 James Brady 424-3212

2M Herring spawning (4/1 to 6/15)

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

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)

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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2206

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation: Tent sites (8/1 to 9/15)

6V Anchorages (8/1 to 9/15)

6W Forest Service cabins (8/1 to 9/15)

6X Lodge (8/1 to 9/15)

6Y Special use destination

7Z Subistence area: Salmon harvesting (5/1 to 9/30)

Finfish harvesting

Deer harvesting (8/15 to 2/28)

Invertebrate harvesting

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

SEGMENT ST/ EV 18 SUBDIVISION: A (101) DATE 4-20-90

NDAA

NAME Michael Buchman SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS NORTHERN END IS A raised shelf/platform outcropping with a Boulder/cobble beach behind. This beach had a coat on surface rocks, with a cover on the underside. One of small (~1/4 m²) patch of asphalt was observed here. Center of segment is a beach of dinner-plate sized shale/slt rocks with slivered shale/slt pebbles underneath, and a 1/2 rock outcrop on the northern end of the beach. An old oiled log was seen north of the outcrop. Pits in the winter storm berm south of the outcrop suggest a continuous layer of subsurface oil thru out the beach. A 15 m band of surface stain, with coat on underside of rocks, diminishes in intensity to the south. Southern end is a rock wall with some 1/2 boulders essentially below the focus zone. Light splattering was observed here. Rainbow sheens were observed on tide pools near the northern rock platform.

ADEC

NAME John Hayes SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Middle of segment has two areas with surface + sub surface oiling.

Extent of oiling is U.I.T.Z. + not a good candidate for Bio. Bedrock below ^{tidal zone} much of the cobble + gravel + no water flush for H₂O. /Recommend./

① Map up of any recoverable oil

② Monitor for sheens

S.S. oiling is primarily below 10-15 cm. of clean gravel + cobble.

LAND MANAGER

NAME Steve WARD - Chemagon Corp. SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

clean any loose oil that can be reached

Monitor for sheens.

SHORELINE OILING SUMMARY

REVISION NO. 04/13/90

OG MIKE FOLET ^{NOAA} Michael Buchanan SEGMENT ST/ EU-18
 ID KATHLEEN GONIA LAND REP STEVE WARD SUBDIVISION A (1 OF 1)
 XON LARRY OLSON ADEC John Hayes TIME 13:20:14:45
 TEAM NO. 11 TIDE LEVEL +5.1 DATE 4/20/90
 EST. SUBDIVISION LENGTH: 529 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock Rocky backshore
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N 10 S
 SURFACE SEDIMENTS: R 40 % B 20 % C 20 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 50 % Hang 10 % Vert 40 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 240 m VL 289 m NO 0 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|----|----|----|----|----|----|----|----------------|---|---|---|
| | C | R | P | S | SP | BR | OR | OL | OT | LT | BL | TL | SU | U | M | U |
| ASPHALT PAVEMENT | | | | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | | | | |
| COAT | | | X | | | X | | | | | | | X | | | |
| STAIN | | | X | X | | X | | | | | | | X | X | | |
| MOUSSE | | | | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | | | | |
| FILM | | | X | | | X | | | | | | | X | X | | |
| NO OIL | | | | | | | | | | | | | X | | | X |

PAVEMENT H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | X | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE Stained Logs#BAGS 0

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL * OILED INTERVAL < 5 CM IN PITS 1 AND 2 - DOES NOT CONSTITUTE 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 | OT | NO | | UO | UC | SP | BR | OR | OL | OT | LT | BL | TL | SU | U | M | U | | | | |
| * 1 | 15 | | | | X | | 0-10 | | X | | | | | X | | | | X | | | | | Y | 10 | G, C |
| * 2 | 4 | | X | | | | 0-4 | | X | ✓ | | | | X | | | | X | | | | | Y | 2 | G, R |
| 3 | 4 | | X | | | | 0-4 | | X | ✓ | | | | X | | | | X | | | | | Y | 2 | C, R |
| 4 | 10 | | | | | X | - | | X | | | | | | | | | X | | | | | N | - | P, G, R |
| 5 | 30 | | X | | | | 20-25 | | X | | | | | X | | | | X | | | | | U | - | G, C, G, C |
| 6 | 30 | | X | | | | 15-30 | | X | | | | | | | | | X | | | | | N | - | P, C |

COMMENTS

The Northern end of the segment contains low angle Rock outcrop w/ a 1m x 150m CT/S along the HITZ. The middle of the segment contain a long B/C Beach w/ a 15m x 230m CT/P (20% coverage) coat/stain in the HITZ and MITZ. In the HITZ is a 2m x 150m subsurface OR oiling about 20 cm below surface. The southern end of the segment contains 3 large rock outcrops w/ 2 cobble/boulder pocket. REVIEWED JW DATE 4-23-90
 0-10m oiling is a 1m x 175m CT/S in the HITZ.

SHORELINE OILING SUMMARY (PAGE 2)

REVISION 04/13/90

SEGMENT ST/ EV-18 SUBDIVISION A (1 OF 1)

SUBSURFACE OIL (CONTINUED)

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM-CM) | BELOW | | OIL / FILM COLOR | | | | | | PIT ZONE | | | | A
N
A | SHEEN (Y/N) | ! | SURFACE - SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|-----|----|-----|-----|----|----------|---|---|---|-------------|-------------|----|--------------------------------|
| | | OP | OR | OL | OF | NO | | VO | UC | BRN | BLK | WH | GRY | DRK | LT | SU | W | M | U | | | | |
| 7 | 30 | | X | | ✓ | | 15-20 | | | ✓ | | | | X | | X | | | | | Y | 25 | C, P, C |
| 8 | 25 | | | | | X | . | | | | | | | | | | X | | | | N | - | C, G, R |
| 9 | 30 | | | | | X | . | | | | | | | | | | X | | | | N | - | C, P, R |
| 10 | 25 | | X | | | | 10-15 | | | | | | | X | | X | | | | | N | - | C, P, C |
| 11 | 30 | | X | | | | 5-20 | | | | | | | X | | X | | | | | N | - | C, P, R |
| 12 | 25 | | | | | X | . | | | | | | | | | | X | | | | N | - | C, P, C |
| | | | | | | | . | | | | | | | | | | | | | | | | |
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COMMENTS

REVIEWED JW DATE 4-23-90

OG Mike Forget

SEGM 11 EV-18

SUBDIVISION A

DATE 4 / 20 90

CHECKLIST

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

LEGEND

1 Δ
P1 - No Subsurface Oil

2 Δ
P11 - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

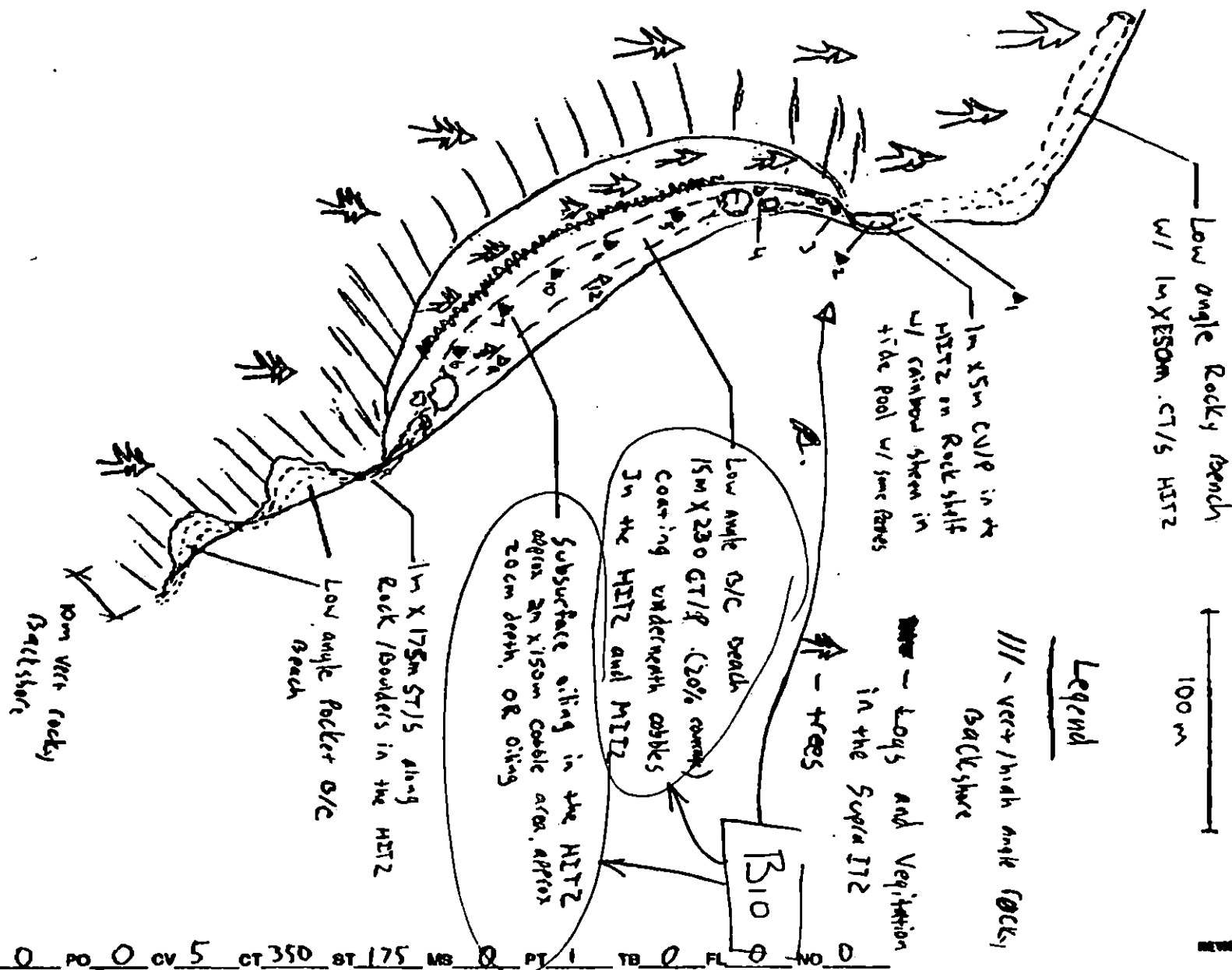
CT/P
Patched Distribution

CT/S
Splashed Distribution

Oiled Vegetation

1 ●
Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 5 CT 350 ST 175 MS 0 PT 1 TB 0 FL 0 NO 0

Scale

REVISIONS

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / EV-18 Subdivision A (1 of 1) Date (mo / day / yr) 4 / 20 / 90

Time (24 hr) 1328-1930 Biologist KATHLEEN CONLAN

(A) Substrate type and % of segments:
(1) Bedrock 40 (2) Boulder 20 (3) Cobble 20 (4) Pebble 20 (5) Sand 0 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 20 Moderate 80 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 11-3

Frames 3, 4

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:

OLIGOCHAETES, AMPHIPODS IN COBBLE, GASTROPOD EGGS

Ecological Considerations:

ECOLOGY MAP (1 OF 1)

RESOURCE CODES FOR ENTIRE SEGMENT:

XXXX

TTTT

1 BALD EAGLE NEST $\leq$ 400m OF SEGMENT
AS SHOWN.

EV-1

ST11-3

← #3

← #4

EV-18

EV-17

XXXX Wide

//// Medium

● --- Narrow

TTTT Very Light

0000 No Oil

EV-18

ADEC Segment Length: 533m

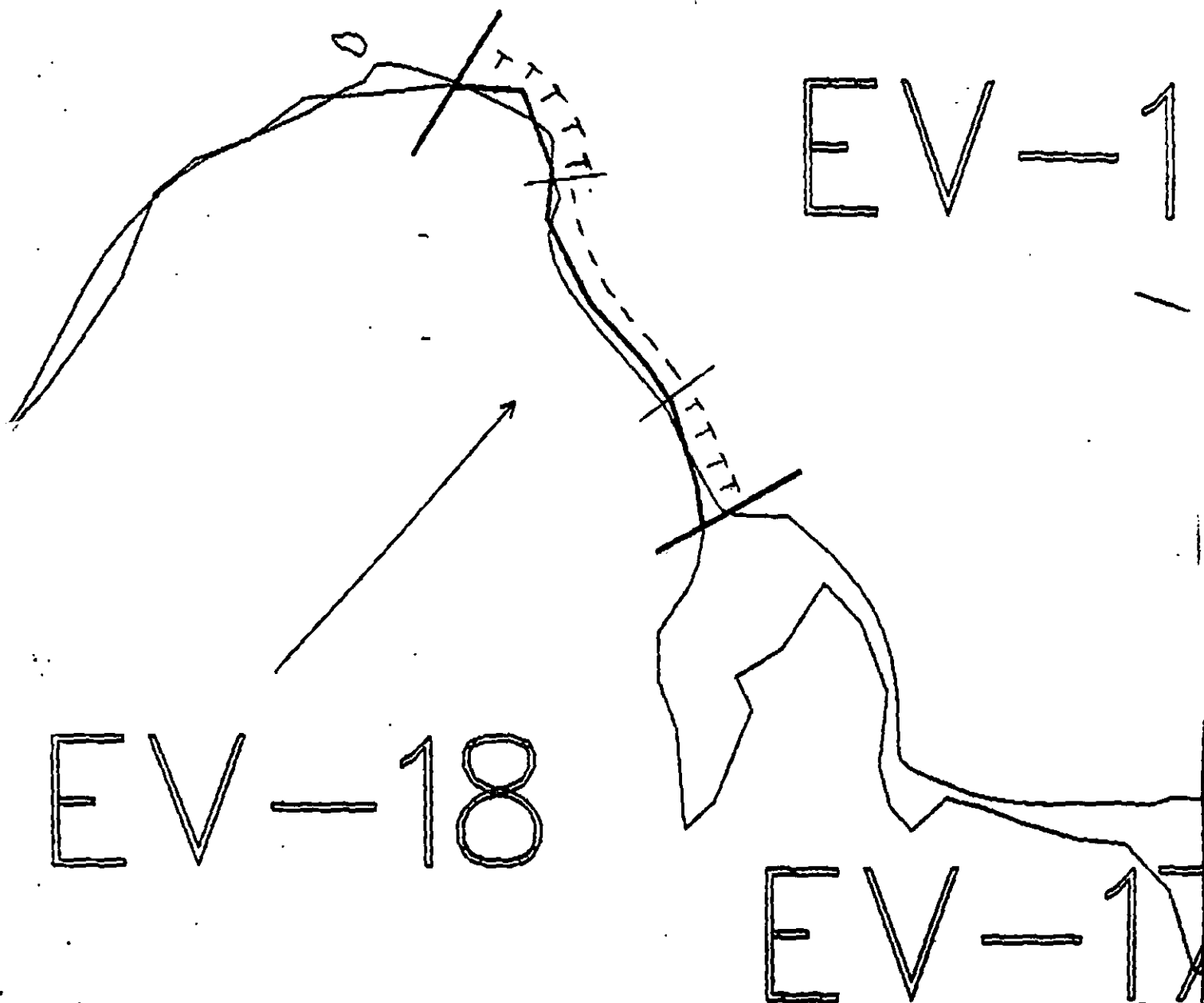
0 100 200 300
METERS

Map Key: PWS-186

Name: _____

Date: _____

Data Entered: _____



XXXX Wide

/// Medium

-- Narrow

TTTT Very Light

0000 No Oil

EV-18

ADEC Segment Length: 533m



Map Key: PWS-186

Name: Mike Foyet

Date: 4/20/90

Date Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT EV-18 SUBDIVISION A (1 of 1)

WORK WINDOW

Bioremediation

WORK PRIOR TO 8/15

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision A work site.

7II Subsistence: Deer Harvesting

Closed to bioremediation after 8/15.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic and beach disturbance to essential minimum after 8/15. Avoid any unnecessary disturbance or damage to uncolled biota and substrate.

TAG APPROVAL DATE

ADEC R. M. M. R. M. M.
EXXON ANDY TEAL Whitely
NOAA _____
USCG _____

FOSC [Signature]

DATE 8 June 90

Prepared By: [Signature]

Date 6/7/90

SHORELINE EVALUATION

SEGMENT ST/ EV-19 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
7II Subsistence area: Deer harvesting (8/15 to 2/28)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 93 m: No Oil 1337 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: 4/20/90.

ADEC ART WEINER Art Weiner

EXXON ANDY TAT Andy Tat

NOAA Burt Wescott Burt Wescott

USCG KENNETH KEANE Kenneth Keane

FOSC: [Signature] DATE: 5-1-90

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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 Esther Hatchery release (4/15 to 6/1)
- 1E Main Bay Hatchery release (4/20 to 5/10)
- 1F Sawmill Bay Hatchery release (4/15 to 6/1)
- 1G Cannery Creek Hatchery release (4/21 to 6/1)
- 1H Remote release site
- 1I Gill net area (6/7 to 8/31)
- 1J Purse seine area (7/20 to 9/30)
- 1K Purse seine hook-off (7/20 to 9/30)
- 1L Set net sites (6/11 to 7/25)
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)
 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 (5/15 to 7/1)
 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 9/1)
 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 (5/1 to 9/30)
- 7-H Finfish harvesting
- 7-I Deer harvesting (8/15 to 2/28)
- 7-J Invertebrate harvesting
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV-19 SUBDIVISION: _____ DATE 4/7/90

USCG NOAA

NAME GARY SHIGENAKA

SIGNATURE *Gary Shigenaka*

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

SEGMENT CONSISTED OF BOULDER AND ROCK OUTCROP SHORELINE ON EVANS ISLAND, AT THE NORTHEASTERN APPROACH TO SHELTER BAY. SOME EVIDENCE OF OILING WAS NOTED IN THE FORM OF COAT/COVER ON THE SEAWARD FACES OF ROCK OUTCROPS NOT DIRECTLY EXPOSED TO SURF (I.E., LOCATED BEHIND OTHER OUTCROPS). WEATHERED STAIN AND COAT WERE FOUND ON ANOTHER PORTION OF BEACH (CLOSER IN TO SHELTER BAY AND WITH A MORE WESTERLY ORIENTATION, IN THE UPPER INTERTIDAL ZONE. THIS STAIN AND COAT WAS SEEN ON LARGE BOULDERS, MOSTLY ON THE LEEWARD SIDE. IN ONE CASE, MOSS GROWING ON A BOULDER HAD BEEN COATED AND HAD DIED, BUT THERE WAS CLEARLY NEW MOSS GROWTH OVER THE WEATHERED OIL AND MOSS.

ALTHOUGH THE STAIN/COAT/COVER WAS OCCASIONALLY FOUND IN BANDS ON THIS SEGMENT, THIS WAS A SPORADIC OCCURRENCE. MUCH OF THE SEGMENT SHOWED NO SIGN OF OIL.

MUCH OF THE SUPRATIDAL THAT COULD BE DEFINED WAS COVERED WITH SNOW; THE UPPER PORTION OF BEACHES WERE FROZEN (AND SOMEWHAT DIFFICULT TO DIG IN!)

ADEC

NAME John Hayer

SIGNATURE *John Hayer*

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Oiling observed consisted of Lt. staining on boulders + bedrock in U.I.T.Z. No S.S. oiling observed.

Supratidal zone was mostly covered with snow.

Beach was frozen so S.S. holes were difficult to dig in some areas although no S.S. oiling was observed where holes were dug. Beach appeared to be free of mobile oil + well washed.

LAND MANAGER

NAME JAMES A BARKER

SIGNATURE *James A. Barker*

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

OBSERVED VERY LIGHT STAINING ON PROTECTED SIDES OF ROCKS, STAINS WEATHERED. SMALL BANDS OF WEATHERED OIL ALSO FOUND.

SHORELINE OILING SUMMARY

REVISION NO. 03/23/90

OG Mike Foget NOAA Gary Shigenaga SEGMENT ST/ EV-19 (1 of 1)
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION A
 EXXON Larry Olson ADEC John Hayes TIME 2:20 to 8:10
 TEAM NO.: 11 TIDE LEVEL: 1.5 to 2.8 DATE 4/7 / 90
 EST. SUBDIVISION LENGTH: 1414 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 35 % C 15 % P 5 % G 5 % S — % M — % V — %
 SLOPE: Long 20 % Hang 50 % Vert 50 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W — m M — m N — m VL 35 m NO 1374 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|----|----|----|----|----|----|----|----------------|---|---|---|
| | C | S | P | B | SP | BP | OP | BP | TP | LP | TP | LP | 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 — sq. m by — cmPATTIES / TARBALLS — BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | X | | |
| Debris | | | |

DEBRIS COLLECTED

☒ YES ☐ NOTYPE Pom pom / Plastic#BAGS —

Photographs:

Roll No. —Frames —

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM-DM) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A
N
A | SUBSURFACE SEDIMENTS | |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----------|---------|---------|---------|---------|----|----|----------|---|--|--|-------------|----------------------|---------|
| | | OP | OR | OL | OF | NO | | UO | UC | SP
BR | BP
TH | OP
X | TP
L | LP
T | LP
L | SU | UR | ME | U | | | | | |
| 1 | 60 | | | | | X | - | | X | | | | | | | X | | | | | | | | C, P, S |
| 2 | 20 | | | | | X | - | | X | | | | | | | X | | | | | | | | C, P, S |
| 3 | 25 | | | | | X | - | | X | | | | | | | X | | | | | | | | P |
| 4 | 10 | | | | | X | - | | X | | | | | | | X | | | | | | | | P, G, R |
| 5 | 25 | | | | | X | - | | X | | | | | | | X | | | | | | | | P, G |
| | | | | | | | - | | | | | | | | | | | | | | | | | |

COMMENTS Only some very light staining CT/S on the protected sides of rock outcrops and boulders was observed. The oil/tar appeared to be weathered (dull black tar stain). The oiling occurred in the HETZ. The shore zone consists mostly of boulder/rock shore line with some rock-cobble beaches.

00 Mi 1991

SEGMENT ST/ EV-19

SUBDIVISION A

DATE 4 / 7 90

CHECKLIST

☐ N Arrow
☐ Approx. Scale
☐ Seg/Sub Only
☐ Oil Dist.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. HWTZ/LTZ
☐ SSL
☐ (Viable 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

Other Vegetation

1 $\bullet$

Photo location, direction,
and number

SKETCH MAP

Very light CT/S 8m x 5m stain, HWTZ

Very light CT/S
10m x 5m stain
on protected side
of rock, HWTZ

Very light CT/S stain HWTZ
0.5m x 5m on protected
side of rock outcrop

Very light CT/S stain HWTZ
1m x 10m on protected
side of rock outcrop

Very light CT/S
stain HWTZ 0.5m x 5m
on protected side of
rock outcrop



Scale

100 m

Legend

|||| - snow covered supra ITZ

/// - Rock/Gravel shore zone

Oil Character Length (m): AP PO CV CT ST 35 MS PT TB FL NO 1379

REVISED 200408

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/23/90

Segment ST/ EVO19 Subdivision A Date (mo / day / yr) 4 / 7 / 90Time (24 hr) 0720 hrs Biologist Ambrose

(A) Substrate type and % of segments:

(1) Bedrock 40 (2) Boulder 35 (3) Cobble 15 (4) Pebble 5 (5) Sand 5 (6) Silt —(B) Overall % cover of biota (% of segment): Dense 20 Moderate 20 Low 60

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

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 |
| 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 |
| 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 |
| 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 |
| 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: ^{**} otter, mink, bald eagle, seal (hauled out on rock). Dense cover on bedrock walls in low to mid intertidal; on cobbles, dense filamentous algal cover in lower intertidal, otherwise fairly sparse.

Ecological Considerations:

711, ST: One mature bald eagle seen, but no nests.

* Additional wildlife observations: Pair of mature bald eagles with nest & immature nearby in EVO72, pair of mature eagles and nest in EVO05, plus 3 adult otters + 1 imm. 2 bufflehead, 1 magpie, 1 deer, pair of mature eagles and one solitary mature eagle, 1 cormorant, 5 gulls, 3 imm. ducks, and 6 surf scoters.

EV-19A

EV-18

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-19A

ADEC Segment Length: 1430m



Map Key: PWS-187

Name: Mike Foyle

Date: 4/7/90

Data Entered:

