

EL-~~013~~ 15A ASC 16906

UPPER PASSAGE ELEANOR ISLAND

ACE 1369537



Prince William Sound

DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

____ '89 Intertidal Assessment Survey, Sport/Com. Fish
____ '89 Shoreline Clean-Up Program (SAT)
____ '89 Anadromous Fish Stream Authorization, for instream work
____ '89 Stream Treatment Reports
____ '89 Demobilization Reports ____ Bioremediation ____ other
____ '89 RLS Sheet ____ Oil sed. sample ____ Egg sample
____ '89 Fall Walk-a-thon Survey, ADEC
____ '89 Winter Assess. Study Site ____ Winter Stream Survey Form
____ '89 Other Documents _____

____ '90 Pre-Anadscat Survey, multi-assessment form
____ '90 Anadscat Survey
____ '90 Anadromous Fish Stream Evaluation (work order)
____ '90 Anadromous Fish Stream Addendum to work order
____ '90 Shoreline Evaluation, SAT and work order for segment
____ '90 Anadromous Fish Stream Authorization, Title 16 permit
____ '90 Stream Treatment Report
____ '90 ADEC Demobilization Report for Bio
____ '90 ADF&G Oiling Condition Survey, for ASAP use (Aug. surv.)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (____)
____ '90 Other Documents _____

CATALOG NUMBER: 2261016906

STREAM NAME:

LOCATION: ELEANOR ISLAND, UPPER PASSAGE

SEGMENT NUMBER: EL015 A

SHORELINE TYPE:

DATE: 04/13/90 TIME: COVE -0822

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1					3		SURFACE	MS AP AP	west side of stream - UITZ

COMMENTS:

BANDS OF ASPHALT & MOUSSE AT UPPER INTERTIDAL BOTH SIDES CREEK. PENETRATION 2". SHOVEL/STEAM. OIL ON STREAM BANKS: YES OIL WITHIN 1 MILE OF STREAM: YES, UPPER INTERTIDAL

mousse patties across creek

CATALOG NUMBER: 2261016906

STREAM NAME:

LOCATION: ELEANOR ISLAND, UPPER PASSAGE

SEGMENT NUMBER: EL015 A

SHORELINE TYPE:

DATE: 04/23/90 TIME: COVE -1830

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	1	100		51-90	1cm		SURFACE	PT	north side of stream (west) - UITZ - intermittent
3	2				1-2cm		SURFACE	PT SOR PT	south side of stream (east) - M & UITZ - lightly oiled intermittent tar patties

COMMENTS:

OIL PRESENT INCLUDES A 100M X 1 M WIDE BAND OF INTERMITTENT TAR PATTIES RUNNING THE LENGTH OF THE UITZ ON NORTH SIDE OF STREAM. A 2M WIDE LIGHTLY OILED BAND IN M & UITZ ON SOUTH SIDE OF STREAM & OILED ORGANIC DEBRIS ON SOUTH SIDE IN SWASH ZONE, OILED LOG. RECOMMENDATIONS: MANUAL REMOVAL OF INTERMITTENT TAR PATTIES IN UITZ ON NORTH SIDE OF STREAM RSFDS AND ON SOUTH SIDE OF STREAM IN M & UITZ. REMOVAL OF OILED ORGANIC DEBRIS - INCLUDING SPRUCE NEEDLES & OILED LOG IN SWASH ZONE ON SOUTH BANK AND OILED GRASSES. REMOVAL OF OILED SAUSAGE BOOM ON NORTH SIDE OF STREAM IN SWASH ZONE. OIL ON STREAM BANKS: YES OIL WITHIN 1 MILE OF STREAM: YES

surface Org Debris - south side of stream (west) - STZ - band of piled organic debris (grasses, logs, needles, fucus etc...)



ADF&G MULTI-ASSESSMENT DATA FORM

AJW
Pre-ANADSCAT-901 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4-13-9015 HIGH TIDE TIMES: 121 TEAM RECORDER: R. Gustin4 START TIME: 081516 HIGH TIDE HTS: 122 OBSERVERS: B. Lemon5 STOP TIME: 082217 LOW TIDE TIMES: 123 AGENCY: Exxon/ADFTG AJW6 SEGMENT #: EL 01318 LOW TIDE HTS: 124 PHOTOS TAKEN: Y (1)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (1) TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (1) Number12 SOURCE: Map Loran13 LOCATION: Eleanor Is.14 DESCRIPTION: Southwest coast

011

Sediment

Biological

Water

EXTENT OF OIL

SHORELINE

STREAM

L

W

M²

%

L

W

M²

%

27 SURFACE COVERAGE

--	--	--	--	--	--	--	--

28 SURFACE THICKNESS

--	--	--	--	--	--	--	--

29 PENETRATION

			<u>(1)</u>				
--	--	--	------------	--	--	--	--

30 OVERALL OIL IMPACT: N VL L M H31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain32 OILED DEBRIS? Y N33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh34 WAVE EXPOSURE: High Moderate Low35 SUBSTRATE TYPE: Bedrock Boulder Cobble ✓
Gravel ✓ Sand Mud/silt36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: 226-10-16906 AJW

38 STREAM NAME:

39 OIL IN STREAM BED? Y (1)40 OIL ON STREAM BANKS? Y N41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y NWhere: Upper inter-tidal

43 ANADROMOUS FISH PRESENT? Y N

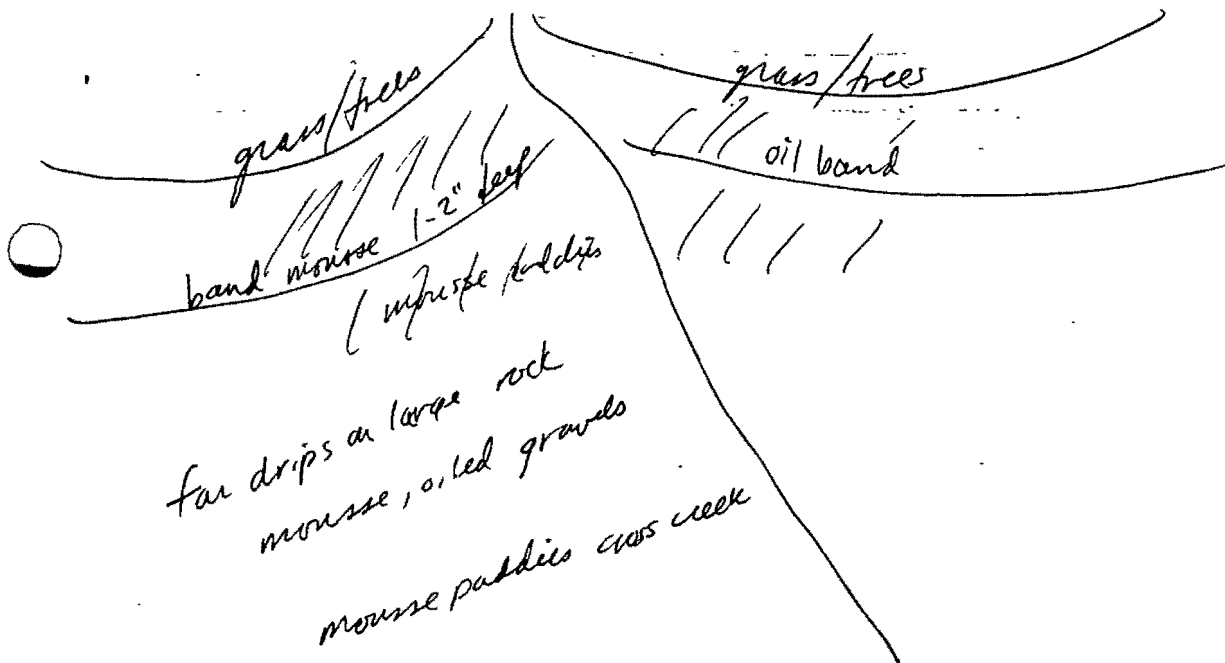
44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: bandy asphalt + mousse at upper inter-tidal
both sides creek. penetration 2"
shovel / steam

ACE 7237140+15

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

4/13/90

EL 013

ATW

226-10-16906

Sample taken
Photo frame # and
shot direction.

ACE 7237141-15

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER: 26-10-16906

SURVEY TYPE:

METHOD:

DATE: 4/13/90

START TIME:

STOP TIME:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1					.03		MS/AP
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:



ANADSC 91-90

27/34

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (SS) OS TS AVS SCHA MMHS PTA

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-23-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: Aimee Weseman

4 START TIME: 1800

16 HIGH TIDE HTS: 1

22 OBSERVERS: Rick Gustin

5 STOP TIME: 1830

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEGMENT #: EL013

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: (Y) N TAPE#: 90AJW002-S

9 STAT AREA:

20 USCG QUAD:

Start: 0 End: 10

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: Eleanor Island

Sediment

14 DESCRIPTION: SW side near Block I

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE		1m						

36 CATALOGED ANAD. FISH SREAM? (Y) N

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
28 SURFACE THICKNESS	1cm	2cm						
29 PENETRATION								

37 CATALOG #: 226-10-16906

38 STREAM NAME:

30 OVERALL OIL IMPACT: N VL (L) M H

39 OIL IN STREAM BED? Y (N)

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

40 OIL ON STREAM BANKS? (Y) N

32 OILED DEBRIS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? (Y) N

Where:

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove Lagoon Marsh

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

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

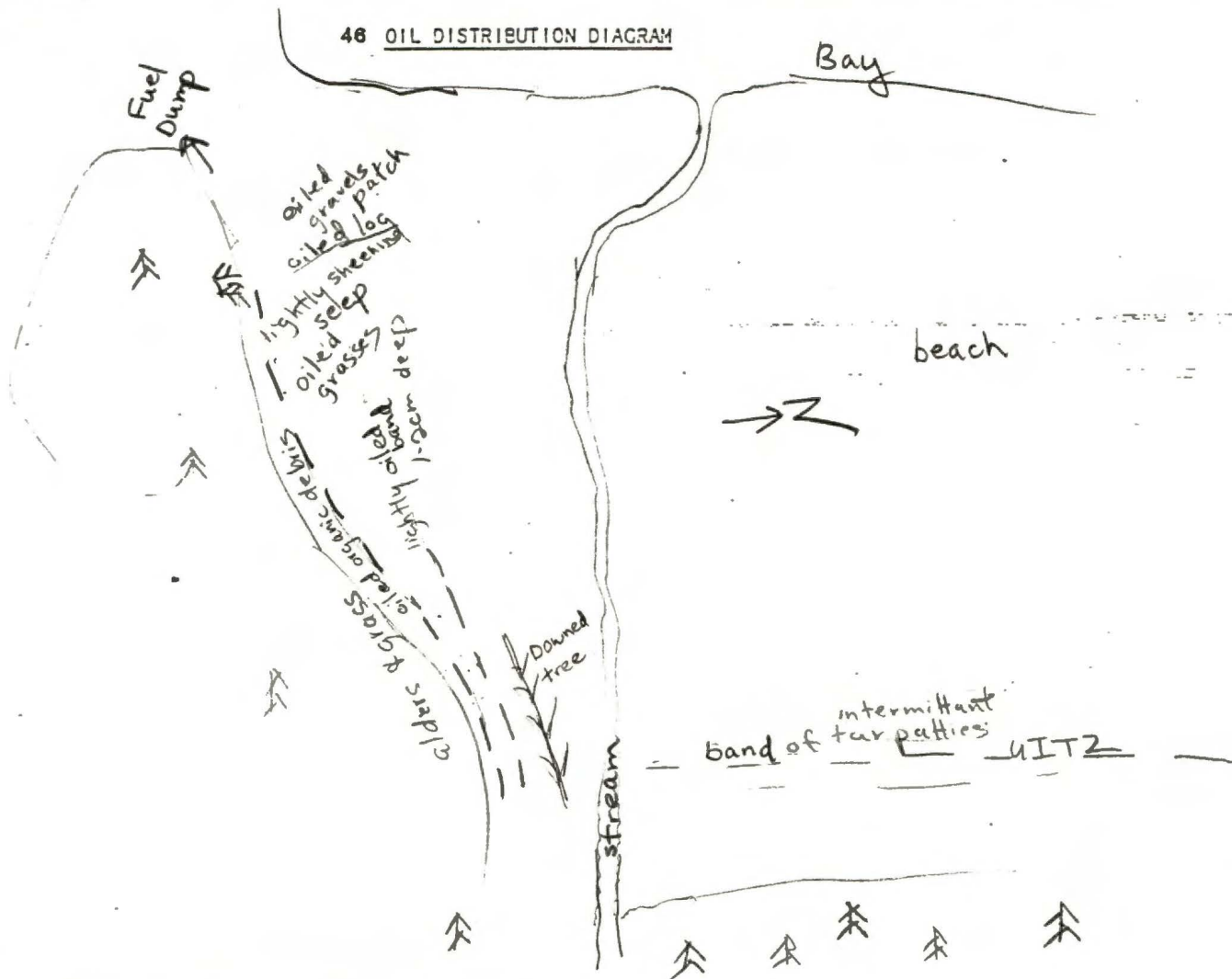
Species Aerial Ground

oil present includes
COMMENTS: a 100m x 1 meter wide band of intermittent tar patties running the length of the WTTZ on North side of stream
a 2m wide lightly oiled band in m & WTTZ on South side of stream & oiled organic debris on South side in wash zone, oiled log

ACE 7237104 +1S

[illegible]

46 OIL DISTRIBUTION DIAGRAM



treatment recommendations

Manual removal of intermittent tar patches in U1TZ on north side of stream
RSFDS and on south side of stream in M4U1TZ.

Removal of oiled organic debris - including spruce needles & oiled log in swash zone on south bank and oiled grasses

Removal of oiled sausage boom on north side of stream in swash zone

Sample taken

Photo frame # and
shot direction.

ACE 7237105

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER: 226-10-16906

SURVEY TYPE:

METHOD:

DATE: 1/23/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	100	1					TR
SITE 2		2				.01	AP/SOR
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:

OG SUPPLEMENTAL INFO TO MAD

RECORDER: Wesmar

RED-DATE: 10/4/91

PAGE

CATALOG NUMBER: 226-10-16906

STREAM NAME:

LOCATION: SW Eleanor I

SEGMENT NUMBER: EL015

SHORELINE TYPE:

DATE: 4/23/90 TIME:

mad records west side APband to 100m, OG stops much sooner. mad doesn't mention oiled log across stream

OG vs. MAD: debris on east side of stream & oiled

[illegible]

27/34

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (SS) DS TS AVS SCHA MMS PTA

2 REGION: (PWS) KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-23-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: Aimee Weseman

4 START TIME: 1800

16 HIGH TIDE HTS: 1

22 OBSERVERS: Pick Gustin

5 STOP TIME: 1830

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEGMENT #: ELO13

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: (Y) N TAPE#: 90ADW002-SSS

9 STAT AREA:

20 USCG QUAD:

Start: 0 End: 50

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: (Map) Loran

13 LOCATION: Eleanor Island

14 DESCRIPTION: SW side near Block I

Oil

Sediment

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE		1m						
28 SURFACE THICKNESS		1cm 2cm						
29 PENETRATION								
30 OVERALL OIL IMPACT:	N	VL	<u>(L)</u>	M	H			

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 226-10-16906

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

Where:

31 OIL TYPE: Pooled Mousse Tar (Asphalt) Sticky Stain

32 OILED DEBRIS? (Y) N

33 SHORELINE TYPE: Headland Low-lying Rocks Beach (Cove)
Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low

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

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

oil present includes
COMMENTS: a 100m x 1 meter wide band of intermittent tar patties running
the length of the UTTZ on North side of stream
a 2m wide lightly oiled band in m&uTTZ on South side of stream
oiled organic debris on South side in swash zone, oiled log

ACE 7237104 +15

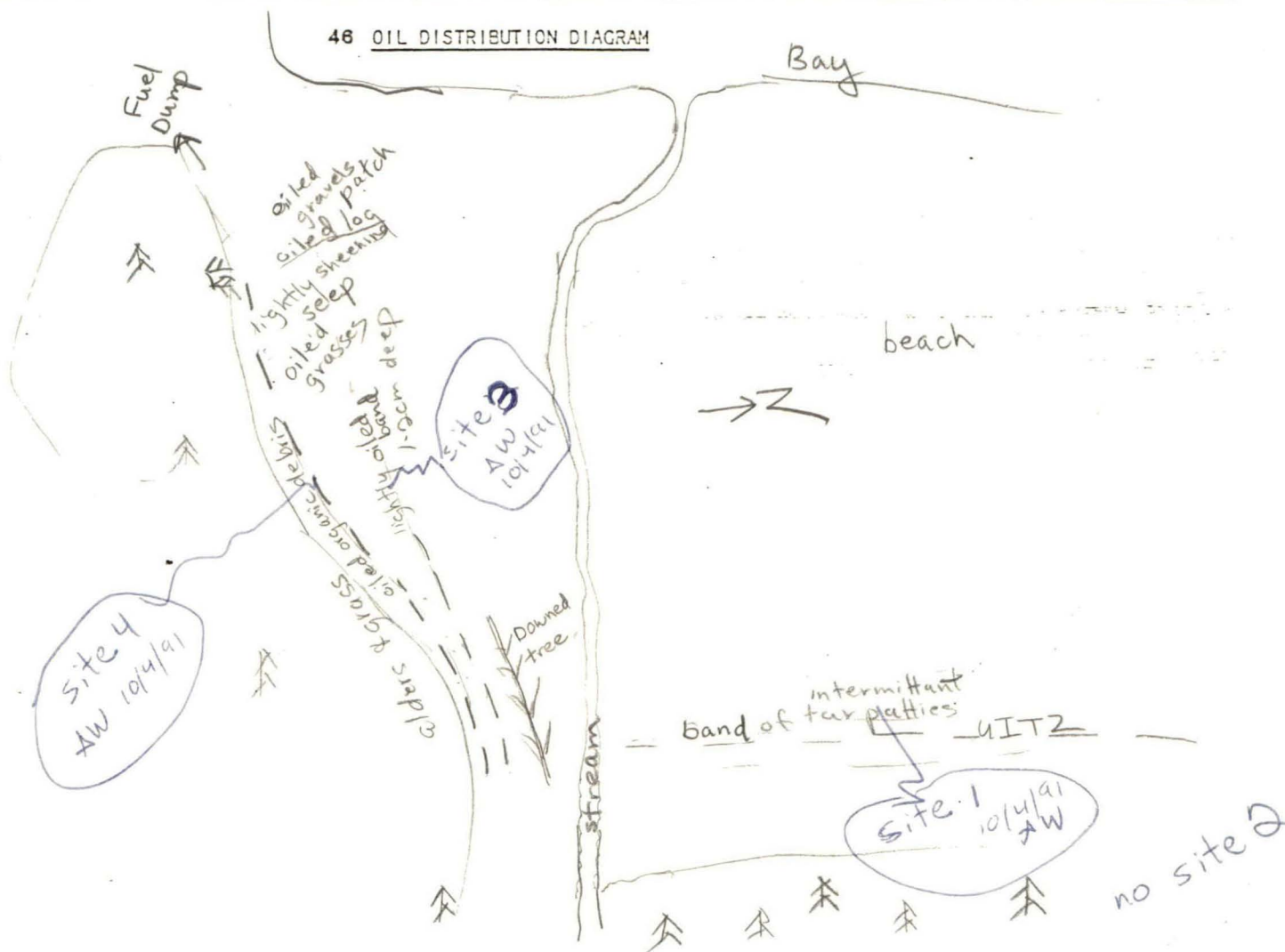
28/134
E2013

226-10-16906

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



treatment recommendations

Manual removal of intermittent tar patties in UITZ on north side of stream
RSFDS and on south side of stream in M+UITZ.

Removal of oiled organic debris including spruce needles & oiled log in swash zone on south bank and oiled grasses

Removal of oiled sausage boom on north side of stream in swash zone

Sample taken
Photo frame # and
shot direction.

ACE 7237105

SEGMENT ST/ EL13

MENT ST/ EL/3
STREAM 226-10-16906 MES.

DATE 4 123 90

CHECKLIST

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

LEGEND

- 1 ▲
PII - No Subsurface Oil
- 2 ▲
PII - Subsurface Oil

- CT/C
Continuous Distribution

- CT/B**
Broken Distribution

- [CT/P]

- ### Power Distribution

- CT/S

- ### Splashed Distribution

- Oil Vegetation

- 1 
- Photo location, direction,
and number

SKETCH MAP

Oil Character Length (m): AP 12 PO CV 10 CT 18 ST MS PT TB FL NO

REVISION: 8/24/99

ACE 7237106

8/13/94

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EL-018^{K210} SUBDIVISION: 226-10-16906^{ASC#} DATE 23 APR 90

USCG

NAME Kerwin L. Dreher SIGNATURE CWO 2 K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Agree.

ADEC → ADFG

NAME Aimee Weseman SIGNATURE Aimee Weseman

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

North side of stream - manual removal of intermittent tar patties
in the UITZ

South side of stream - manual removal of intermittent tar patties
removal of oiled organic debris - including spruce needles, grasses
and log in supra ITZ.

Removal of oiled sausage boom on North side in supra ITZ

LAND MANAGER → NONE

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Seg. ID: EL-013 Subdiv: 226-10-16906

Survey Date: 4/23/90

Comments of: Ken Critchlow

The UITZ on each side of this stream was coated, covered or had asphalt pavement. Exploratory scraping of surface sediments failed to reveal penetration of oil into sub-surface sediments.

This stream site can be cleaned by a small crew using shovels to remove asphalt pavement in the UITZ. Oiled debris in the UITZ can be picked-up and bagged. Oiled logs on east side may need to be removed or burned on-site. Oiled log across stream is best left in place and oiled surface scraped to remove coat/cover.

KR Critchlow

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD EL-013
STREAM ID # 226-10-16906
ANNOTATED MAP INCLUDED QIN

DATE 4-23-90
NAME DARRYL YATES
TEAM # 14

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
	Length	Width	Area	None	Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	10	4	40		Y	100	N	—	N	—
Medium Band										
Narrow Band										
Very Light										
TOTAL MANDAYS						1		—		—

SUBSURFACE OIL

Other (Describe)?	<u>NO SUBSURFACE OIL FOUND</u>

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	8	2	1			✓	40	—	2
Area #2	4	1	1			✓	10	—	1
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup	Manday
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width		Y/N	Estimate
"Pocket" #1			✓			1	Y	
"Pocket" #2		✓				40	Y	3
"Pocket" #3								
Random/Continuous								

OILED LOGS	Y/N	OILING	H/M/L	QUANTITY	L/M/S	BURN	Y/N
------------	-----	--------	-------	----------	-------	------	-----

Is there Other Debris on the Beach? QIN How Many Bags? 200 Is it mingled with the Oiled Debris Y (N)

GENERAL
Wave Exposure H/M/L Snow covering 0 % of the Supratidal Zone?
Access Limitations: LONG INLET COVE - 200 YDS FROM BAY
Snare Boom/Pom Poms Recommended? NO
Would the production Craft have to be relocated to complete work on this subdivision? QIN, # of Times 2
+ TIDE CYCLES

COMMENTS:
ALL WORK SHOULD BE PLANNED FOR PERIOD 5-15 -> 7-10
CONTACT ADF & G BEFORE STARTING WORK

OG CAL LARSON USCG DREHER, CWE EGMINT ST/EL13
 BIO KEN CLITCH LAND REP STREAM 220-10-169061 OF 93/14
 EXXON DARRYL YOE ADFG 21K GUSTIN-AIMEE WESEMAN TIME 17:50 to 18:25
 TEAM NO. 14 TIDE LEVEL +0.5 FT DATE 4/23/90
 EST. SUBDIVISION LENGTH: 40 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 5 % C 5 % P 20 % G 20 % S 20 % M 30 % V
 SLOPE: Lang 0% % Hang % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M 32 m N m VL m NO 8 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR							IMPACTED ZONES			
	C	B	P	S	SP	BR	FW	GY	SL	DR	TL	SU	U	M	L
ASPHALT PAVEMENT		✓					✓						✓		
POOLED															
COVER			✓				✓						✓		
COAT	✓						✓						✓		
STAIN															
MOUSSE															
PATTIES															
TARBALLS															
FILM															
NO OIL												✓		✓	✓

PAVEMENT H F (S) 20 sq. m by 1 cm

PATTIES / TARBALLS BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

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

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No.

Frames

SUBSURFACE OIL

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	SP	BR	FW	GY	SL	DR	TL	SU	U	M	L				

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION

REVIEWED DATE

GENERAL DATA

SEG ID: EL-013 SUBDIV: 226-10 16906 TEAM: 14 SURVEY DATE: 4/23/90
PAVEMENT: CHAR S AREA 20 THICKNESS 1 TARBALLS —
OILED: LGS MD VEG SM TRH SM DBR SM WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 40 OIL CATEGORY: W — M 32 N — VL — NO 8 U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 5 COB 5 PEB 20 GRN 20 SAN 20 MUD 30 VEG —

CHAR #: 1 OIL CHAR: AP OIL DIST: CONT — BRKN X PTCH — SPLH —
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 2 OIL CHAR: CV OIL DIST: CONT — BRKN — PTCH X SPLH —
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 3 OIL CHAR: CT OIL DIST: CONT X BRKN — PTCH — SPLH —
OIL CLR: SBL FILM CLR: BR TIDAL ZONE: SU — UI X MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

No Pits Dug

ANAD
SSAT DATA ENTRY FORM

3/8/34

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: EL-013 SUBDIV: 226-10
16906

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

PROBLEMS: —

ADF&G MULTI-ASSESSMENT DATA FORM

ATW
Pre-ANADSCAT-901 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4-13-9015 HIGH TIDE TIMES: 121 TEAM RECORDER: R. Gustin4 START TIME: 081516 HIGH TIDE HTS: 122 OBSERVERS: B. Leman5 STOP TIME: 082217 LOW TIDE TIMES: 123 AGENCY: Exxon/ADFTG ATW6 SEGMENT #: EL 01318 LOW TIDE HTS: 124 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number12 SOURCE: Map Loran

Oil

13 LOCATION: Eleanor Is.

Sediment

14 DESCRIPTION: Southwest Coast

Biological

Water

EXTENT OF OIL

SHORELINE

STREAM

L	W	M ²	%	L	W	M ²	%

27 SURFACE COVERAGE

36 CATALOGED ANAD. FISH STREAM? (Y) N37 CATALOG #: 226-13-ADW 16906

38 STREAM NAME:

28 SURFACE THICKNESS

39 OIL IN STREAM BED? Y (N)

29 PENETRATION

40 OIL ON STREAM BANKS? (Y) N

30 OVERALL OIL IMPACT: N VL L M H

41 OIL ON BEACH ADJACENT TO MOUTH? (Y) N
(within 50 meters)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? (Y) N32 OILED DEBRIS? (Y) NWhere: Upper intertidal33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Boulder Cobble

Gravel (check) Sand Mud/silt

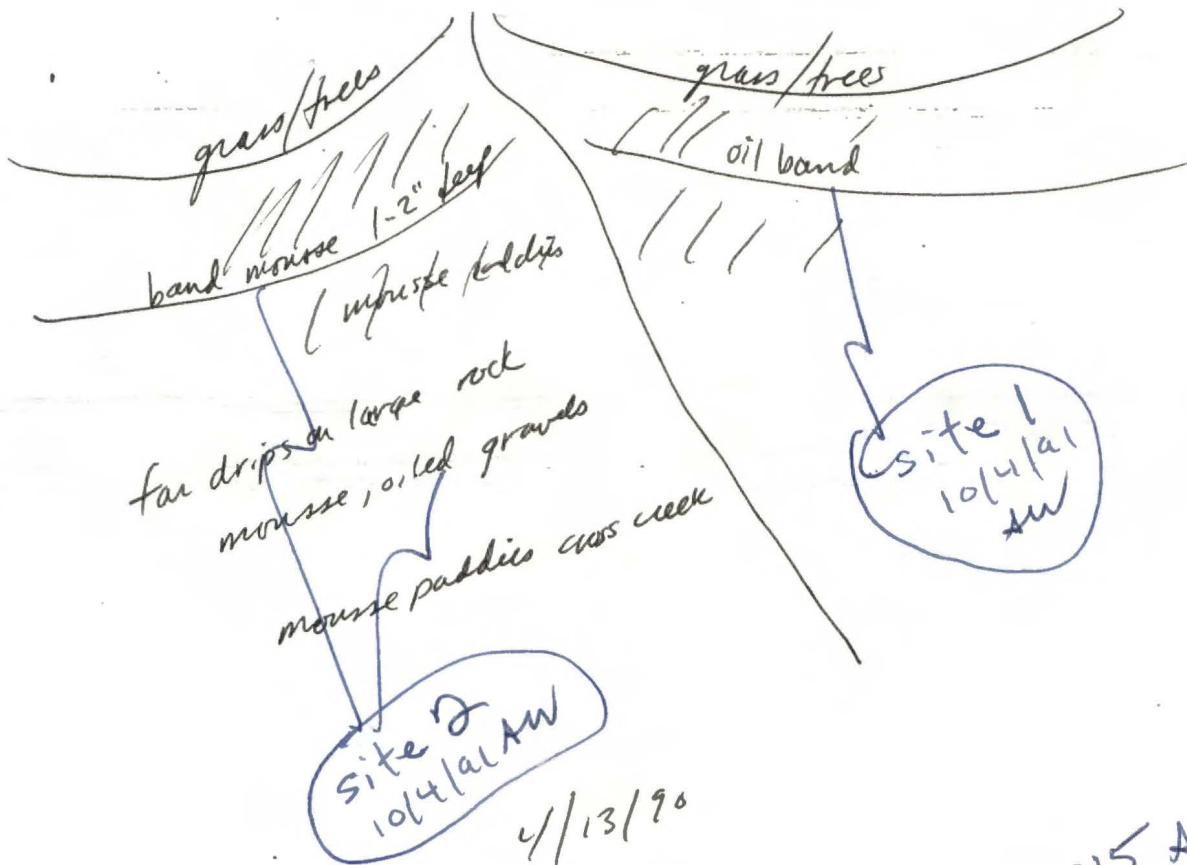
Species	Aerial	Ground

COMMENTS: bands of asphalt + mousse at upper intertidalboth sides creek. penetration 2"shovel / steam

ACE 7237140+15

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

ACE 7237141-15

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-10-16906

SEGMENT EL-15 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,1B Salmon Stream

ADF&G catalogued anadromous stream (226-10-16906) is in Subdivision A. No constraint to manual pickup and 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 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.

SEE SUBDIVISION CONSTRAINT ADDENDUM EL-15A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

Date

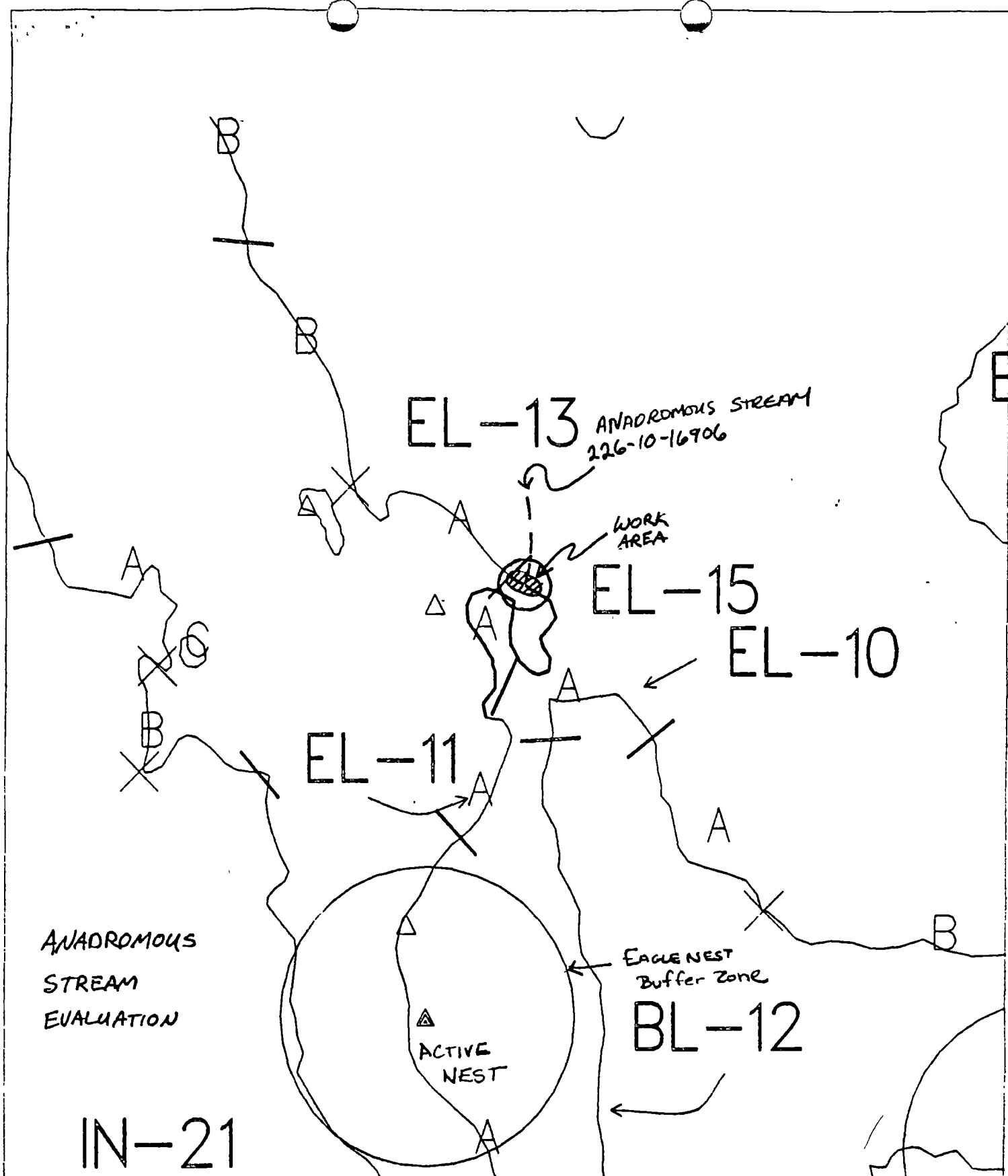
6-10-90

Prepared by

Date

6/10/90

ACE 7237080 +156



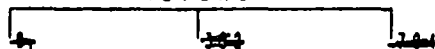
Exxon Company, USA

Map Key: PWS-EL-15

June 04, 1990



ECOLOGY MAP
SEGMENT EL-15
SUBDIVISION A (1 of 1)
METERS



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

ACE 7237081

ANADROMOUS FISH STREAM EVALUATION

15A

SEGMENT ST/ EL-13 STREAM NO: 226-10-16906 DATE 4/23/90

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-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
 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 exists at boundary of EL-13 and EL-15. [EL-13; Subdivision A (1 of 2)].

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/9/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of oiled vegetation and cleanup debris, and 2) manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 6/1 and 7/10 with USFWS approval regarding eagle nest constraints.

SEE ADDENDUM dated 6/10/90 PDP
ANAD.FISH

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90
 ADEC ART WENGER
 EXXON ANDY TATE
 NOAA Burl Wescott
 USCG D.D. Rome

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

Assess need for customblend following treatment removal. Notify CUC 24 Hrs prior to work.

AMPHIBIOUS FISH STREAM EVALUATION

15A

SEGMENT ST/ EL-13 STREAM NO: 226-10-16906 DATE 4/23/90

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-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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 exists at boundary of EL-13 and EL-15. [EL-13; Subdivision A (1 of 2)].

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/9/90

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 oiled vegetation and cleanup debris, and 2) manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 6/1 and 7/10 with USFWS approval regarding eagle nest constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/9/90.
ADEC ART WEINER
EXXON ANDY TATE
NOAA Burl Wescott
USCG D.D. Rome

FOSC: [Signature] DATE: 5-18-90
Access need for customblend following treatment removal. notify CVC 24 Hrs prior to work.

ACE 7237083

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- ✓ 1A Salmon stream mouth fry outmigrant 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 (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 area (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
- ✓ 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)
 7HH Finfish harvesting
 7I 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

ACE 7237084

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / 54-013 ^{NAS} SUBDIVISION: 236-10-16906 ^{ASC#} DATE 23 APR 90

USCG

NAME Kerwin L. Dreher SIGNATURE CWO 2 K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Agree.

~~ADFG~~ → ADFG

NAME Aimee Weseman SIGNATURE Aimee Weseman

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

North side of stream - manual removal of intermittent tar patties
in the LITZ

South side of stream - manual removal of intermittent tar patties
removal of oiled organic debris - including spruce needles, grass
and log in supra ITZ.

Removal of oiled sausage boom on north side in supra ITZ

~~LAND MANAGER~~ → NONE

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 001

30

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ EL 13
 BIO REN CRITCHLOW LAND REP STREAM 220-10-169061 OF
 EXXON DARLHL YVES ADFG 22K DUSTON-ALPHEE WESEMAN TIME 17:50 to 18:25
 TEAM NO. 14 TIDE LEVEL +5 FT DATE 4/23/90
 EST. SUBDIVISION LENGTH: 40 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 5 % P 20 % G 20 % S 20 % M 30 % V
 SLOPE: Long 20 % Hang 5 % Vert 5 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 32 m M 32 m N 32 m VL 32 m NO 32

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	R	B	C	P	SW	GR	BR	BL	SW	GR	BR	BL
ASPHALT PAVEMENT		✓			✓				✓			
POOLED												
COVER			✓		✓				✓			
COAT	✓				✓				✓			
STAIN												
MOUSSE												
PATTIES												
TARBALLS												
FILM												
NO OIL									✓	✓	✓	✓

PAVEMENT H F 20 sq m by 1PATTIES / TARBALLS 0 BAGNEAR 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. 0Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SHEEN (%)	↓	SURFACE SUBSURFACE SEDIMENTS
		CP	OR	OL	OP	NO		SW	GR	SW	GR	BR	BL	SW	GR	BR	BL				

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATIONREVIEWED JWDATE 4-26-90

ACE 7237086

16906

DATE 4 123 90

CHECKLIST

- _____ N Arrow
 _____ Approx. Scale
 _____ Day/Tab Study
 _____ Off Dist.
 _____ Width
 _____ Length
 _____ % Cover
 _____ Substrate Character
 _____ Est. HAZ/LAM.
 _____ SBL
 _____ Profile Location(s)
 _____ Profile(s)
 _____ FI Location(s)
 _____ Photo Location(s)

LEGEND

- 1 Δ
FD - No Subsurface Oil
- 2 Δ
FD - Subsurface Oil

-  **CT/C** 
 Continuous Distribution
-  **CT/D**
 Broken Distribution
-  **CT/P**
 Patchy Distribution
-  **CT/S**
 Spotted Distribution

Dead Vegetation

1.  This location, direction, and number

Character Length (in): AP 12 PO CV 10 CT 18 ST MS FT TB FL NO

Keywords: child sexual abuse; disclosure; help-seeking; mental health

ACE 7237087

24/4
Seg. ID: EL-013 Subdiv: 226-10-16906

Survey Date: 4/23/90

Comments of: Ken Critchlow

The UITZ on each side of this stream was coated, covered or had asphalt pavement. Exploratory scraping of surface sediments failed to reveal penetration of oil into sub-surface sediments.

This stream site can be cleaned by a small crew using shovels to remove asphalt pavement in the UITZ. Oiled debris in the UITZ can be picked-up and bagged. Oiled logs on east side may need to be removed or burned on-site. Oiled log across stream is best left in place and oiled surface scraped to remove coat/cover.

KR Critchlow

ECOLOGICAL MAP

1A, 1B
5T(1)
1E
6Y, 6V

SUBDIVISION
B

EL-13

SUBDIVISION
A

BIRD
ENGLE
NEST

ANADROMOUS STREAM
226-10-16906

EL-13A

EL-13

ADEC Segment Length: 1359m



ADEC

ACE 7237089

ANADROMOUS FISH STREAM EVALUATION

15A

SEGMENT ST/ EL-13 STREAM NO: 226-10-16906 DATE 4/23/90

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-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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 exists at boundary of EL-13 and EL-15. [EL-13; Subdivision A (1 of 2)].

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/9/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of oiled vegetation and cleanup debris, and 2) manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 6/1 and 7/10 with USFWS approval regarding eagle nest constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90.
ADEC ART WENGER
EXXON ANDY TATE
NOAA Burl Wescott
USCG D.D. Rome

FOSC: [Signature] DATE: 5-18-90

Assess need for customblend following treatment removal. Notify CVC 24 Hrs prior to work.

✓ ACE 7237092 +/SG

1/2/5

SEGMENT ST/EL/3

STREAM 226-10-16906

DATE 4/23/90

CHECKLIST

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

LEGEND

1 Δ

PII - No Subsurface Oil

2 Δ

PII - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

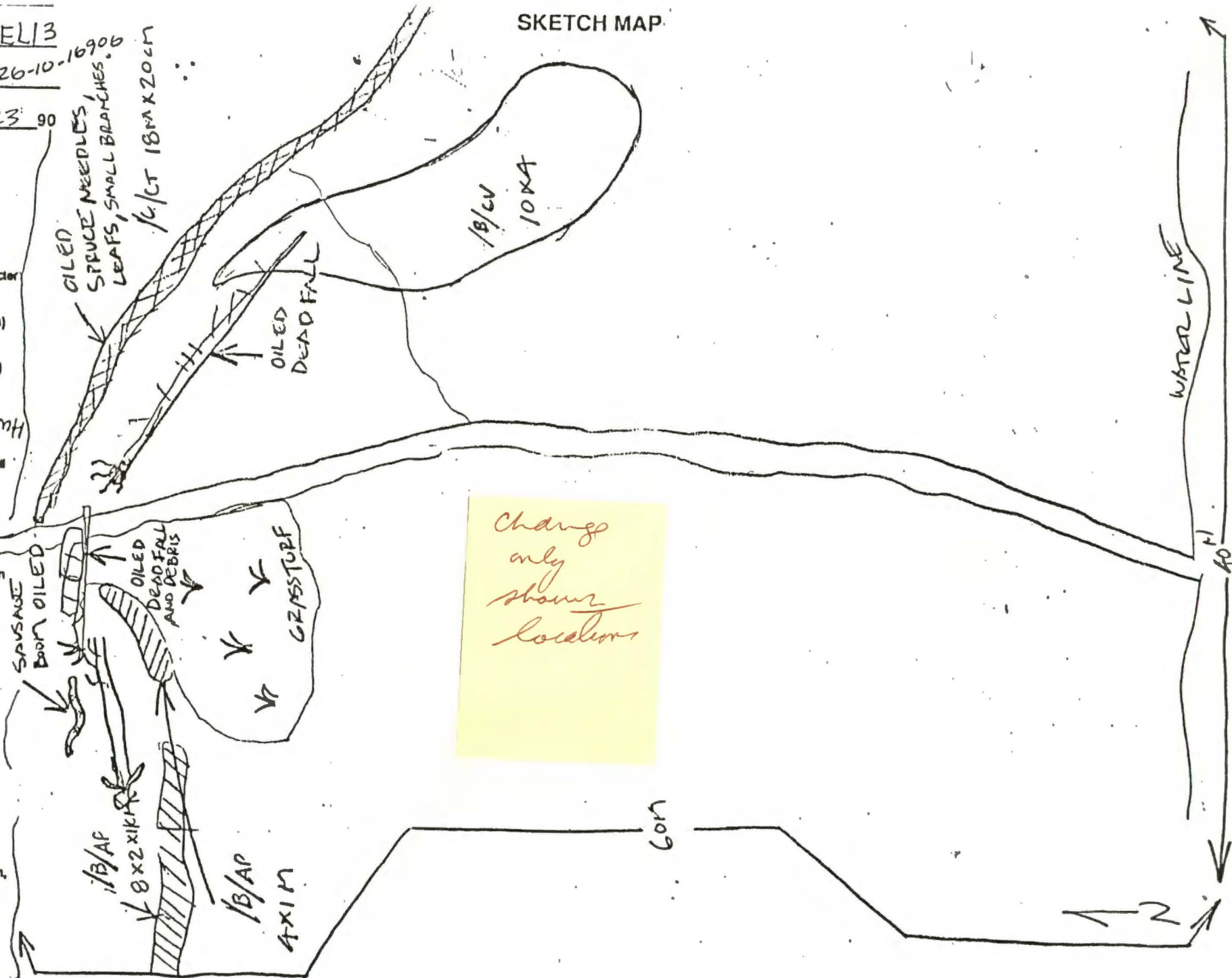
Oil Vegetation

1 ●

Photo location, direction, and number

ACE 7237093

SKETCH MAP



Factor Length (m): AP 12 PO CV 10 CT 18 ST MS PT TB FL NO

REVISION: 8/24/98

Processed
5/8/90
JRM

RECEIVED
MAY 05 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: EL-1⁵A

STREAM NO: 226-10-16906

CONCUR

ALTERED COMMENT ON A MAP
ORIGINAL

OK

ACE 7237094+15

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EL-1⁵₃ STREAM NO: 226-10-16906 DATE 4/23/90

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-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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 exists at boundary of EL-13 and EL-15. [EL-13; Subdivision A (1 of 2)].

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

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: _____ Wands
<u> X </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of oiled vegetation and cleanup debris, and 2) manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 6/1 and 7/10 with USFWS approval regarding eagle nest constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7237095

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

27

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EL-15 ^{NAS} EL-01 SUBDIVISION: ASC# 226-10-16906 DATE 23 APR 90

USCG
NAME Kerwin L. Dreher SIGNATURE CWO 2 K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Agree.

~~ADEG~~ → ADREG
NAME Aimee Weseman SIGNATURE Aimee Weseman

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

North side of stream - manual removal of intermittent tar patties
in the UITZ.

South side of stream - manual removal of intermittent tar patties
removal of oiled organic debris - including spruce needles, grass
and log in supra ITZ.

Removal of oiled sausage boom on North side in supra ITZ

~~LAND MANAGER~~ → NONE
NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SEGMENT ST/EL 5

MENT ST/ EL 3
STREAM 226-10-16906 MES.

DATE 4 / 23 / 90

CHECKLIST

- _____ N Arrow
 _____ Approx. Scale
 _____ Sdg/Seb Study
 _____ Of Dist.
 _____ Width
 _____ Length
 _____ % Cover
 _____ Substrate Character
 _____ E. F. HURL/URL
 _____ SBL
 _____ Profile Location(s)
 _____ Profile(s)
 _____ Tr Location(s)
 _____ Note Location(s)

LEGEND

- PH - No Subsurface Oil

- PA**
PR - Subsurface Oil

CT/C

Continuous Distribution

CT/01

Broken Distribution

CT/P

Pat. Distribution

CT/S

Refined Distribution

Stuffed Vegetarian

1. **Tide location, direction, and number**

ORIGIN MAP

ଅଲଗା

SPRUCE NEEDLES, 1906
LEAF, SMALL BRANCHES. 6

1/6/CT 18m x 20cm

OILED
DEAD FALL

10/24

SAVAGE
BERRY OILED

ONED
DEAD FOLL
AND DEATHS

13 OCT 1964

MANUALLY PICKUP &
REMOVE OILED GRASS,
OILED SAVANNAH BOOM,
OILED ~~VEGETATION~~ ^{VEGETATION}, AND
TARMATS

٧٥١

13/AP

LB/AP

31x4

Character Length (in): AP 12 PO _____ CV 10 CT 18 ST _____ MS _____ PT _____ TB _____ FL _____ NO _____

3

ACE 7237099

Seg. ID: EL-013⁵ Subdiv: 226-10-16906
Survey Date: 4/23/90
Comments of: Ken Critchlow

The UITZ on each side of this stream was coated, covered or had asphalt pavement. Exploratory scraping of surface sediments failed to reveal penetration of oil into sub-surface sediments.

This stream site can be cleaned by a small crew using shovels to remove asphalt pavement in the UITZ. Oiled debris in the UITZ can be picked-up and bagged. Oiled logs on east side may need to be removed or burned on-site. Oiled log across stream is best left in place and oiled surface scraped to remove coat/cover.

KR Critchlow

ECOLOGICAL MAP

1A, 1B
5T(1)
1E
6Y 6V

SUBDIVISION
B

5
EL-13

SUBDIVISION
A

FIND
ENGLE
NESTS

ANADROMOUS STREAM
= 226-10-16906

EL-13-A

EL-13

ADEC Segment Length: 1359m



ADEL

ACE 7237101

ADP&Q MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES (SS) OS TS AVS SCHM MMS PTA

2 REGION: PYS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-23-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: Aimee Wesema

4 START TIME: 1800

16 HIGH TIDE HTS: 1

22 OBSERVERS: Pick Gustin

5 STOP TIME: 1830

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG

6 SEGMENT #: EL015

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

ebb Slack Flood Slack

25 VIDEO TAKEN: (Y) N TAPES: 9045W00

9 STAT AREA: _____

20 USCG QUAD: _____

Starts: 0 Ends: 50

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN Y (N) NUMBER

12 SOURCE: Map Loran

Oil _____

13 LOCATION: Eleanor Island

Sediment _____

14 DESCRIPTION: SW side near Block I

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	H	N	L	V	H	N
27 SURFACE COVERAGE		1m						
28 SURFACE THICKNESS		1cm	2cm					
29 PENETRATION								

35 CATALOGED ANAD. FISH SKELET (Y) N

37 CATALOG #: 226-10-16906

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 30 meters)

42 OIL WITHIN 1 MILE OF STREAM? (Y) N

30 OVERALL OIL IMPACT: N VL (L) H H

31 OIL TYPE: Pooled Messy Tar Asphalt Sticky Stain

32 OILED DEBRIS (B) N

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

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

Species Aerial Ground

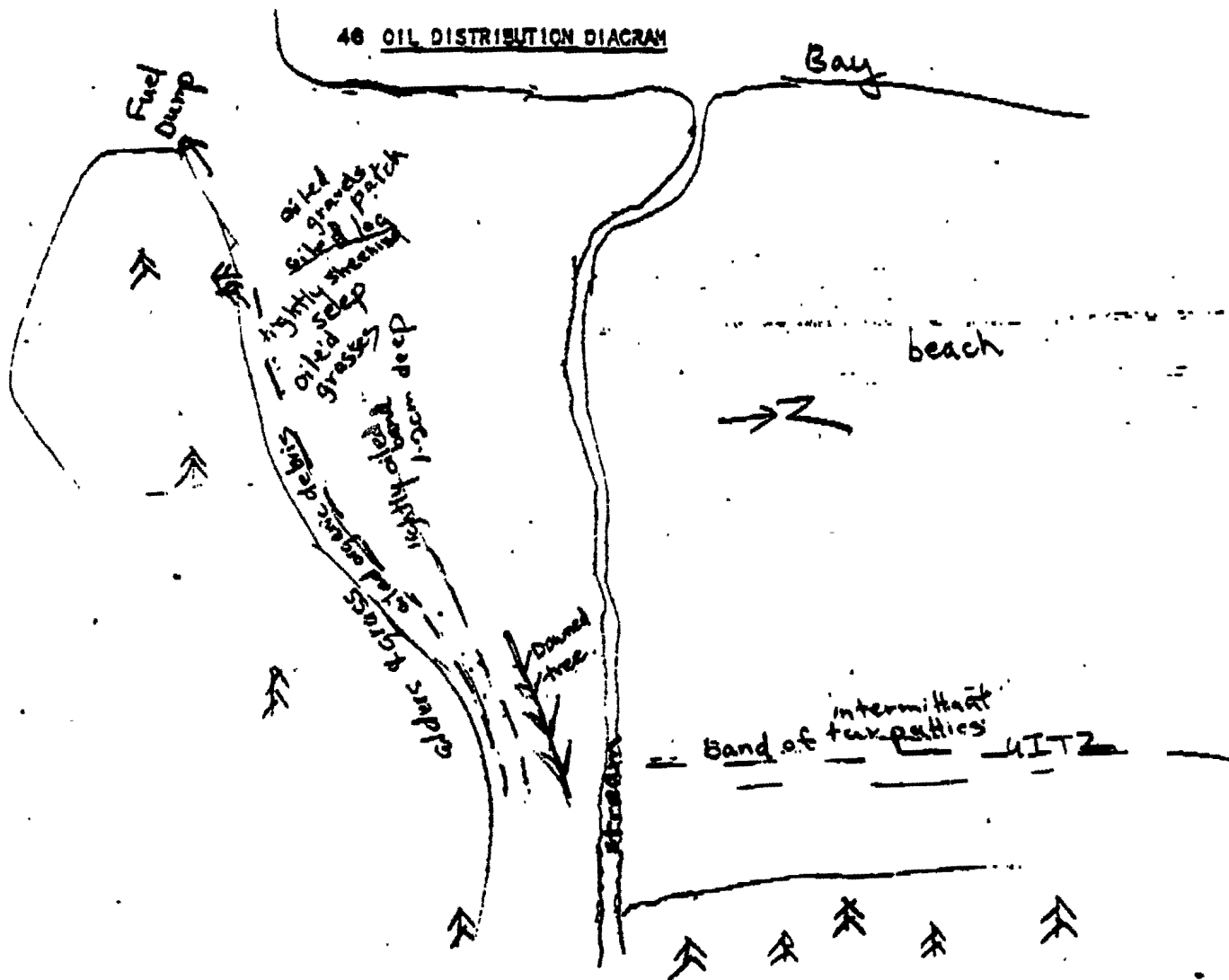
oil present includes
COMMENTS: a 100m x 1meter wide band of intermittent tar patties running the length of the 1st TZ on North side of stream
a 2m wide lightly oiled band in mid TZ on south side of stream
oiled organic debris on south side in wash zone, oiled log

48 PHOTOLOG

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



treatment recommendations

Manual removal of intermittent tar patties in UITZ on north side of stream
RSFDS and on south side of stream in mtUITZ.

Removal of oiled organic debris-including spruce needles & oiled log in swash zone on south bank and oiled grasses

Removal of oiled sausage boom on north side of stream in swash zone

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES (SS) OS TS AVS SCM PHS PTA

2 REGION: (PES) NP, CI KAP

METHOD: Aerial (Ground) Boat

3 DATE: 4-23-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: Aimee Wesem

4 START TIME: 1800

16 HIGH TIDE HTS: 1

22 OBSERVERS: Pick Gustin

5 STOP TIME: 1830

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG

6 SECTANT #: EL013

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Sho Stack Flood Stack

25 VIDEO TAKEN: (Y) N TAPES: 90AJW0

9 STAT AREA:

20 USCG QUAD:

Start: 0 End: 10

10 LAT:

11 LONG:

26 SAMPLES TAKEN: Y (N) INDEX

12 SOURCE: (Map) Loran

Oil

13 LOCATION: Eleanor Island

Sediment

14 DESCRIPTION: SW side near Black I

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	N	S	L	V	N	S
27 SURFACE COVERAGE		1m						
28 SURFACE THICKNESS		1cm	2cm					
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL (L) N N

36 CATALOGED ANNO. FISH SKELETS (Y) N

37 CATALOG #: 226-10-16906

38 STREAM NAME:

31 OIL TYPE: Pooled Residue Tar (Asphalt) Sludge Stain

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

32 OILED DEBRIS: (Y) N

41 OIL ON BEACH ADJACENT TO MOUTH? (Y) N

(within 30 meters)

42 OIL WITHIN 1 MILE OF STREAM? (Y) N

Shores

33 SHORELINE TYPE: Hardened Low-lying Rocks Beach (Cave)

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Sediment Shoulder Gravel (Y)

Gravel (Y) Sand (Y) Mud/silt (Y)

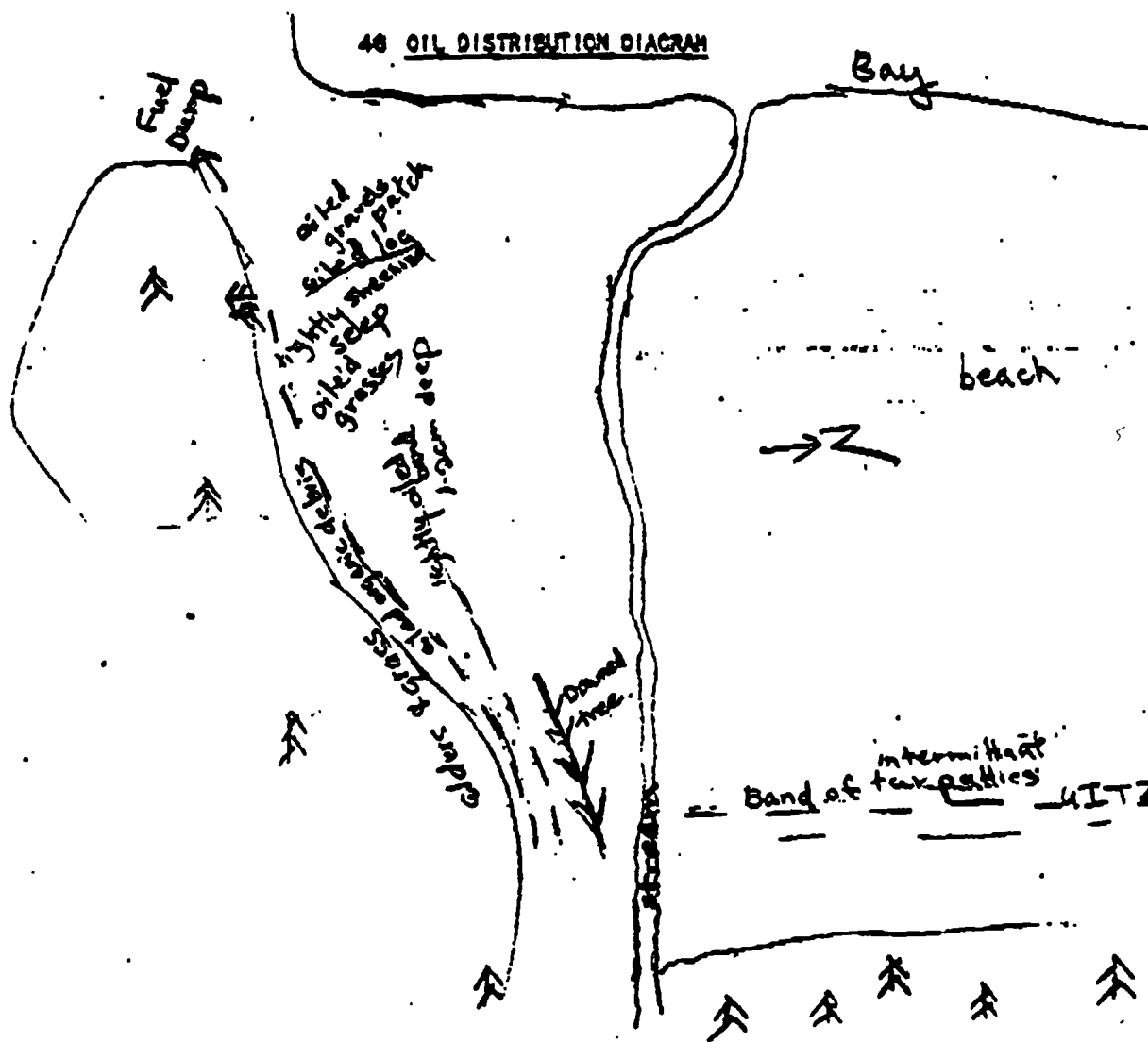
Species Aerial Ground

oil present includes
 COMMENTS: a 100m x 1 meter wide band of intermittent tar patches running
the length of the UT TZ on North side of stream
a 2m wide lightly oiled band in m4UTZ on south side of stream
oiled organic debris on south side in wash zone, oiled log

48 PHOTOLOG

FRAME(S)

DESCRIPTION



treatment recommendations

Manual removal of intermittent tar patties in UTZ on north side of RSFDS and on south side of stream in mtUTZ

ACE 7237091-15/SG

removal of oiled organic debris including spruce needles & oiled log in swash zone on south bank and oiled grasses

removal of oiled sausage boom on north side of stream in swash zone

Sample taken

EL15

SEGMENT SUMMARY

EL-10

NOVEMBER 6, 1989

DRAFT

Beach segment EL-10 is located on Eleanor Island in Prince William Sound. A transect was run on this segment on April 30, 1989 by Erich Gundlach, Clay Robinson and Teresa Svancara. At that site there was an average coverage of 100%, an average thickness of 40mm and an average penetration of 9cm.

This segment was SCAT'ed on April 15. The treatment plan was approved by the FOSC on May 9, 1989. It was specified to not dislodge mussels or rockweed.

Treatment began on this segment on May 23. Treatment methods recommended were header hose flood, cold water/high pressure wash, warm/hot water/moderate pressure wash and Omni boom. According to ADEC observers Laurie Keefer, Dianne Munson, Ken Smith, Dennis Harwood, Bonnie Schwann and Jan Jackson, treatment methods used were header hose flood, cold water/high pressure wash, warm/hot water/moderate pressure wash, hot/steam water/high pressure wash Omni boom and Maxi barge. Containment consisted of snare boom, sorbent boom and containment boom. Egmapol skimmers and pom poms were used to recover the oil.

There is no record of this segment ever having been signed off by ADEC or the USCG.

Another transect was run on this segment (station#7) on August 5, 1989 by Erich Gundlach, Clay Robinson and Gene Pavia. At that site there was an average coverage of 2%, an average thickness of 0mm and an average penetration of 10cm.

A post-treatment assessment was conducted on this segment on September 15, 1989 by Lyle Gresehover and Brian Fitzsimons. At that time there was heavy, moderate and very light oil in the form of sticky oil, tar, asphalt and stain. There was a maximum thickness of 5mm with a maximum penetration of 25cm. There was debris left on this segment.

This segment contains a 1989 winter study site.

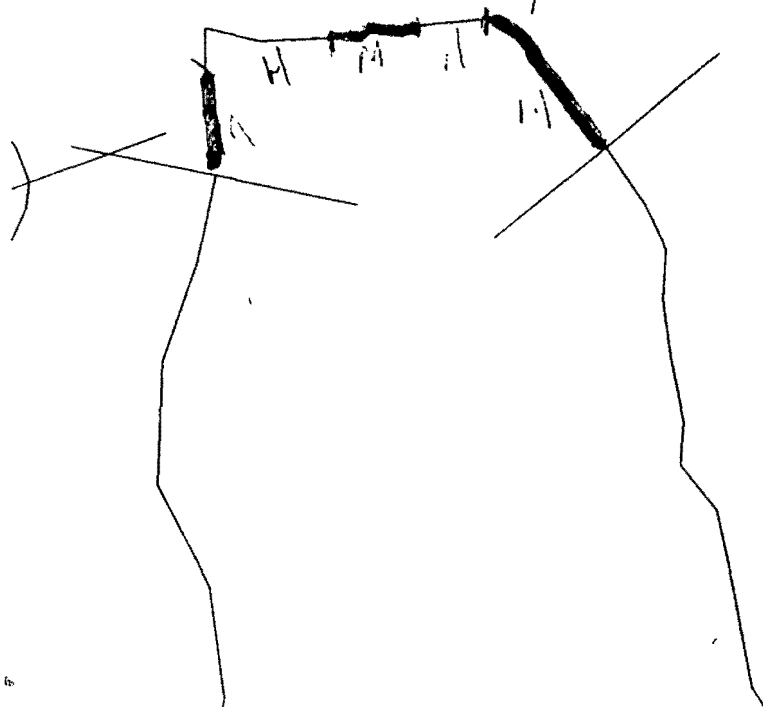
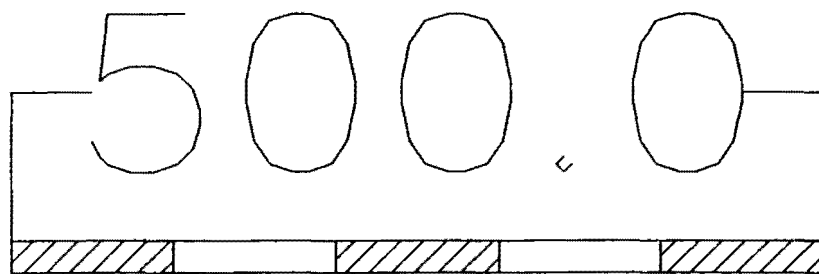
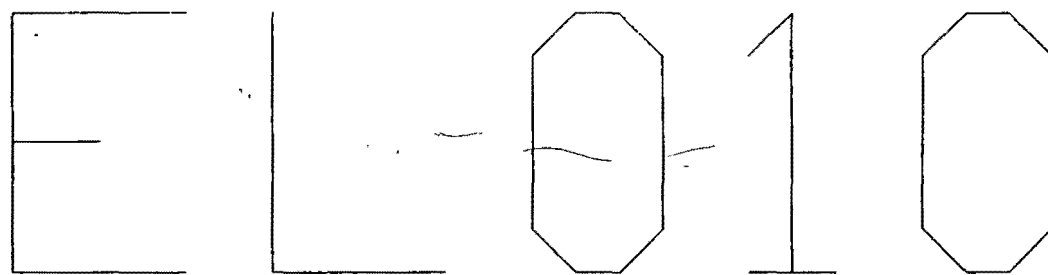
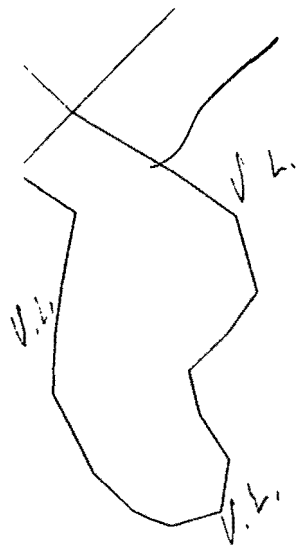

Lea Ann Robinson

Full
walkathon
DEC 89

Habitat calls it ELØ15 - has also be ELØ13

9/10/89

ASCI 226-10
16907



VERY LIGHT

M

MEDERATE

HEAVY

2006-10-10

ADEC Post-Treatment Survey Form

SEGMENT SURVEY (# E2-010)

Date: 9-15-87 Time: 1037 Location: Eleanor Island

Team members Lyle 223000101

Survey type: boat / ground / helicopter / floatplane

WEATHER / SEA CONDITIONS

Low tide: (time/height) 0742/-1.5 High tide: (time/height) 1907/13.7
Weather: (sunny - cloudy - rain - fog - snow)
Sea: (rough - moderate - calm) Wave height: < 1 ft.
Wind direction: (N-NE-E-SE-S-SW-W-NW) Knots: (0-15) 16-30 30+)

SHORELINE DESCRIPTION

Type: (headland - low lying rocky beach - cove - lagoon - marsh)
Exposure to waves: (high - medium - low)
Sediment type: (bedrock - boulder - cobble - gravel - sand - silt)

OIL CHARACTERISTICS

Degree of oiling:

<u>heavy</u> = > 50% coverage of the intertidal zone	> 6m
<u>moderate</u> = 10 - 50%	3-6m
<u>light</u> = < 10%	1-3m
<u>very light</u> = < 1%	< 1m
none	

Area of impact: (supratidal - high - mid - low - subtidal)

Surface coverage, continuous: (y/n)

Max. thickness: 2-5 mm Max. penetration: H 25 cm M cm L cm

Average oil coverage: 100% Oiled drift debris: (y/n)

Oil type: pooled - mousse - sticky - tarry - asphalt - stain

BIOLOGICAL DAMAGE

Fucus (algae): (oiled) - damaged - cooked - normal)

Mytilus (mussels): (dead/live - oiled - tarred - stained - normal)

Balanus (barnacles): (dead/live - oiled - tarred - stained - normal)

Mammals: (dead) Birds: (dead)

SOLID WASTE LEFT ON SHORE:

(none - one locality - few localities - many localities)
(boom-cleanup debris-garbage-signs-paint marks-other)

Number of bags collected:

SAMPLE INFORMATION

station # (i.e. KN012/1; Knight Island, segment 012, sample 1)
 ((oss = oil surface sediment obs = oil bulk sediment))

1. EL-010/1+2 (oss-obs)
2. _____ (oss-obs)
3. _____ (oss-obs)
4. _____ (oss-obs)

PHOTO INFORMATION

station# (i.e. KN012/01) 89//who//s/p//roll#/frame(89GPs23/1-8)

- | | |
|----------------------------|-----------|
| 1. <u>Photo RE 1/14+15</u> | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

COMMENTS (Be specific, where, what, etc.)

Direction walking along segment: Water on (left - right)

Distance: (if pacing - who, and #)

1. Exposure of EL-010 is exposed to
low to moderate wave action. The beach
had a wide band of black sticky tar
oil - At the high tide line was a storm
barren and wide stretch of sand
N.W. Exposure of EL-010 surrounded
a protected lagoon - wind
very light oiling

Signature

W. H. F. J. Date 1-15-77

SHORELINE CLEANUP PROGRAM

DATE: April 21, 1989

SHORELINE SEGMENT EL-13

LOCATION: (see enclosed map) North of Ingot Cove

ADEC No. 30

SHORELINE ASSESSMENT DATE: 4-15-89

Recommended Cleanup Activity(ies):

Washing/flooding
Warm water at moderate/high pressure
Low/high pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

Leave fucus and mytilus in place. No high pressure washing on spit - protect and preserve mytilus.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered, contact Exxon archaeologist C. Mobley immediately

Mark Z. Adams
State Historic Preservation Officer *

Date: 4/21/89

EXXON: Wm. Stuhling

Date: 5/4/89

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR Tideland Permits.

ECOLOGICAL EVALUATION

LOCATION Eleanor Is SITE #13 A5 OBSERVER D. H.

DATE 4 / 15 / 1989 TIME (HHMM) 1500 TIDE HT. (m)

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 30 Mytilus 5 Balanus 100 Littorina

Nucella Pagurus Limpets Halosaccion

Gelidium Other

Oil Damaged Biota all dying

Clean-up Precautions leave fucus and mytilus in place

OILED ZONE: SPLASH HIGH MED LOW

SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD

LIVE BIOTA / DENSITY (#/m² or %cover-algae):

Fucus 10 Mytilus 200-300 Balanus 20 Littorina

Nucella Pagurus Limpets Halosaccion

Gelidium Other many snails in water

Oil Damaged Biota all dying

Clean-up Precautions leave mytilus and fucus in place

1-2 high pressure washing on spit - protect and preserve mytilus

MAMMALS (#): OTTERS HARBOR DALL OTHER

OTHER

BIRDS:

GENERAL OBSERVATIONS: None observed

pop. of 4-5 E. H. 1-2

ACE 7236919

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 5 / 89Observer: Ken Heimbach / MattsonTime: 3:30 h m

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATIONLOCATION nearSITE North of Ingot CoveLOCATION PREFIX FLSEGMENT NUMBER 0LOCATION SUFFIX 13LATITUDE: 6 d m s LONGITUDE: 147 d m sLENGTH OF SHORELINE SEGMENT: 1500 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane**SHORELINE****SHORELINE CHARACTER:**Open Coast Sheltered Coast Rock Y/NVertical/High Angle/Low AngleSediment Y/N

BEach/SPit/COve

SEDIMENT TYPE: B / C / P / G / S / M / R**OIL**LOCATION OF OIL: SU / SP / H / M / L

3 to 10 m

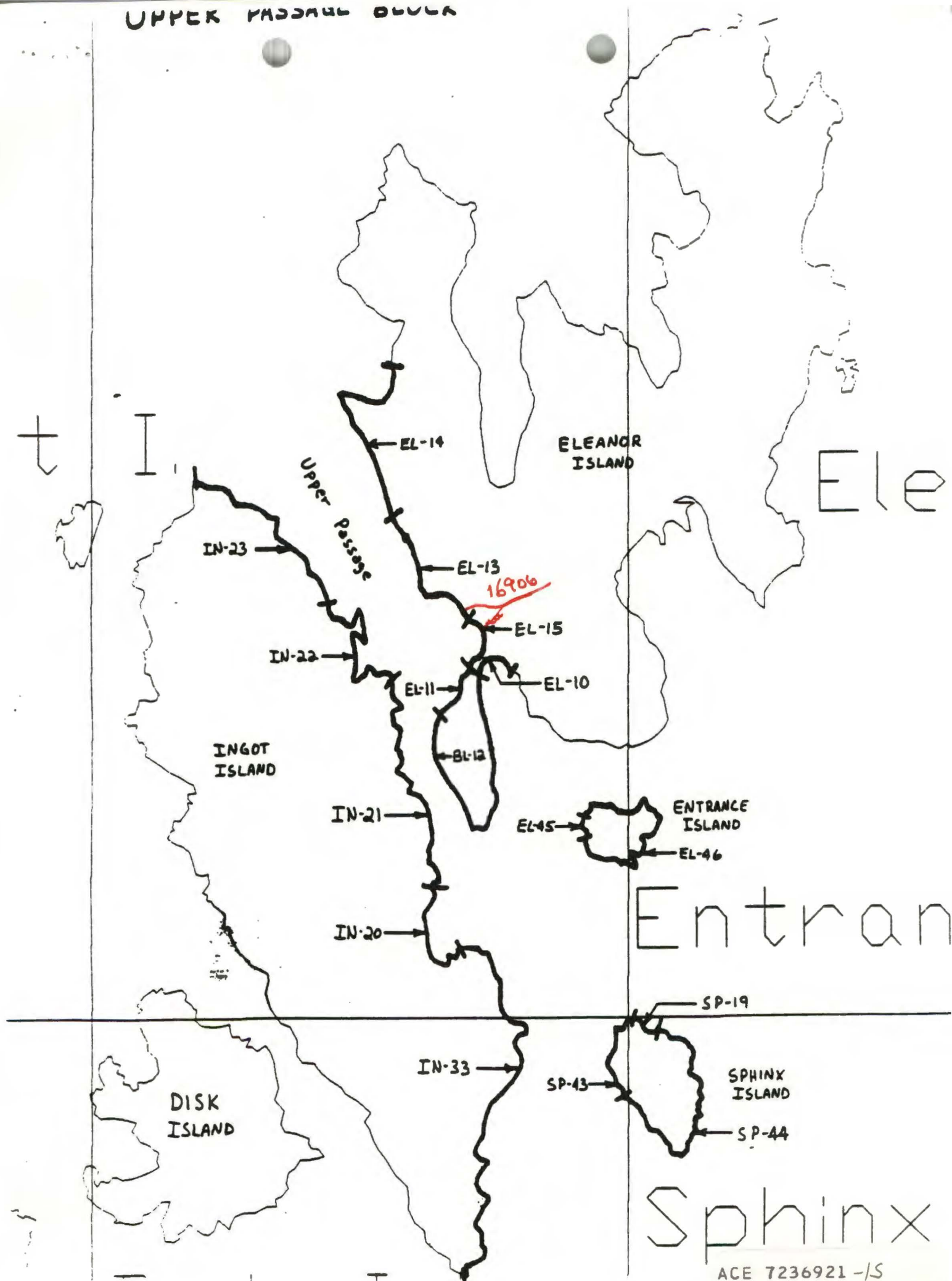
CONTINUOUS: Y/NWIDTH OF CONTINUOUS BAND: m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: 5+ cmEST. OIL PENETRATION: 12 cmPOOLED OIL: Y/N"FREE" OIL: Y/NWEATHERED: Y/N**DOCUMENTATION**VTR: Y/N Tape Number(s) PHOTOGRAPHY: Y/N Roll Number(s) SAMPLE NUMBERS COLLECTED:

ACE 7236920

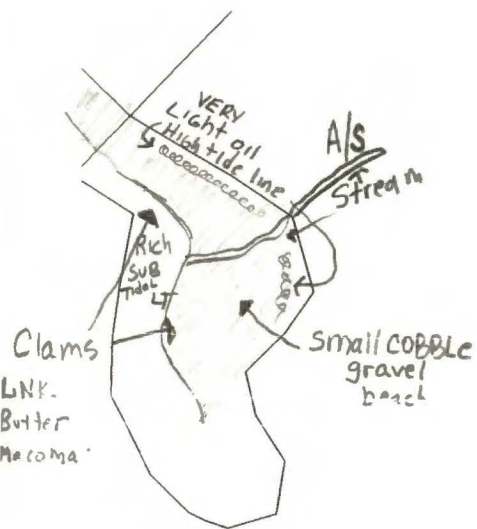
UPPER PASSAGE BLOCK



EL2

ADFG calls it ELØ15 - or ELØ13
ASC# 226-10-16906 in past

ELEANOR Island south side 9/14/89
VERY LIGHT OIL UN-CAT A/S
S/G P.S. Carcasses No-Live-P



EL 010

500.0

BLOCK I.

ACE 6725619-5

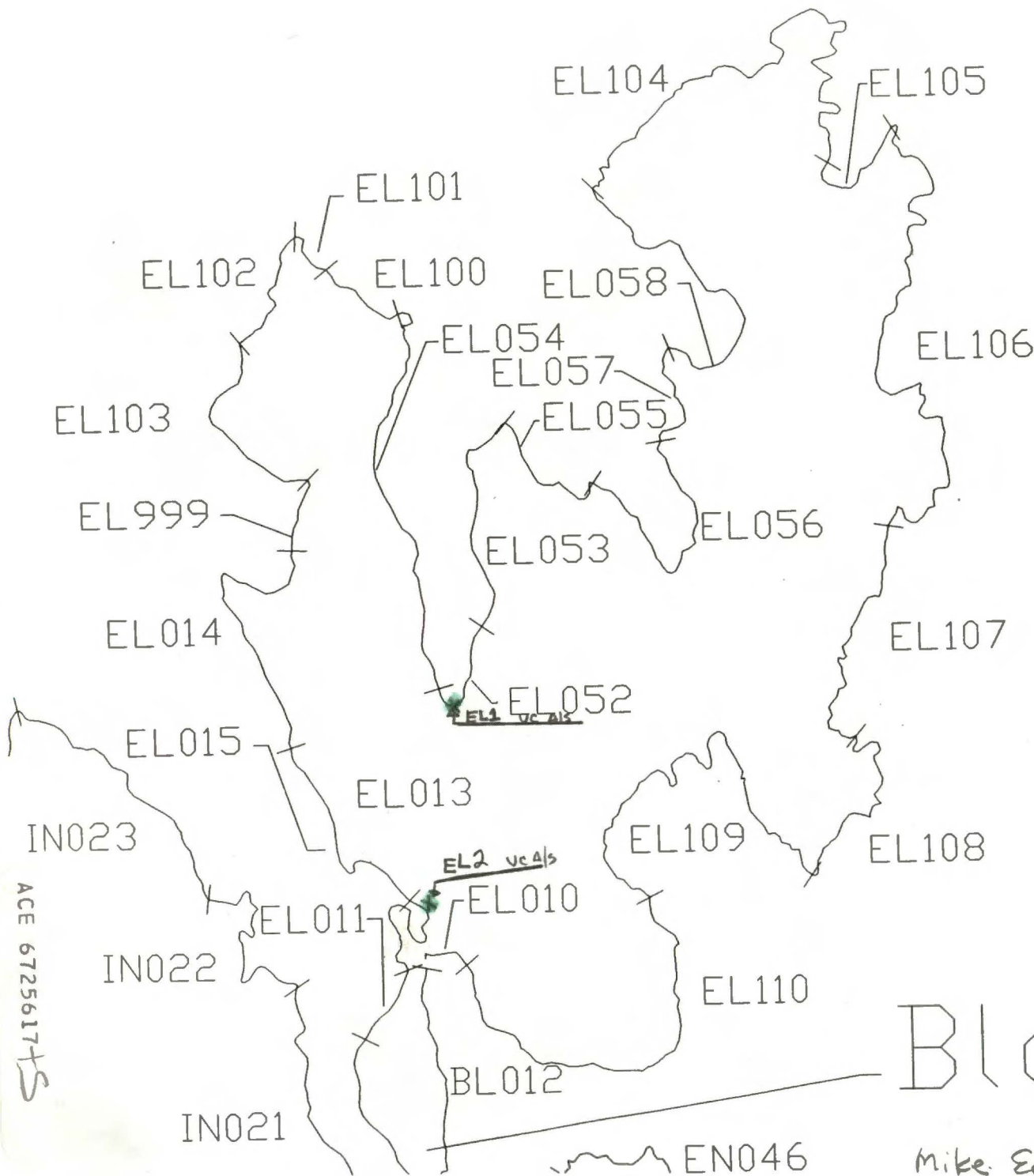
VIDEO 89ME0054



Low Tide - 2008 - 1.0
TIME OBSERVATIONS MADE
1835-1905

Eleanor Is.

X UN-CAT- A/S
X CAT A/S



Block Is

* MARKED ON
ANAD MAP

Mike East - ADF+G

9/14/89

ACE 6725617+5



OFFICIAL PHOTOGRAPH

ADEC

Date: 10/11/89 Time: _____

Location (segment #): EL 010

Eleanor Island

Reason for taking photo: Aerial intertidal.

Undoc. salmon spawning
stream

Taken by: Rick Gustin

Roll #: 89RLB010 Frame #: 1

ACE 7237076-11-1/pkt

**ASAP Follow-Up Recommendations
TAG Recommendations - August 22, 1990**

SEGMENT

MR-01	A Site 1	Manual pickup of pooled oiled accessible prior to second bioremediation application (M.P.)	ARCHAEOLOGICAL MONITOR REQUIRED
MR-01	B Site 1	Manual pickup of pooled oiled accessible prior to second bioremediation application (L.P.)	
PY-02	A Site 1	Manual pickup of accessible pooled oil and mousse (M.P.)	
	Site 3	Manual pickup of accessible pooled oil and mousse (M.P.)	
TB-02	A Site 1	Manual pickup of AP and accessible (L.P.)	
	Site 2	Manual pickup of AP and accessible (L.P.)	
	Site 5	Manual pickup of AP and accessible (L.P.)	
TB-06	A Site 2	Bioremediation reapplication and reassessment in 1991 (M.P.)	
EL-10	A Site 1	NTR - Reassessment in 1991	
EL-13	A Site 2	Manual till and bioremediate (L.P.)	
EL-15	A Site 3	Manual rake and bioremediate and reassessment in 1991 (L.P.)	Archaeological
	Site 4	Manual rake and bioremediate and reassessment in 1991 (L.P.)	Inspection constraint appl.

TAG APPROVAL DATE Aug 22 90.

EXXON Andy Tenz Real

ADEC Ray Monahan's R. Monahan

USCG G.A. REITER G.A. Reiter

NOAA Burl Wasscott Burl Wasscott

SHPO Rachel Jan One 8/28/90

ORIGINAL ARCHAEOLOGICAL CONSTRAINTS APPLY

FOSC _____

DATE _____

Final Anadromous Stream Treatment Information

Segment ID - Stream ID	NTR	Bio	Bio Start	Bio End	Man	Man Start	Man End
BA002 226-40-16450	X						
BA002 226-40-16451		X	6/22/90	6/23/90	X	6/22/90	6/23/90
BP004 226-20-16388					X	7/1/90	7/2/90
BP004 226-20-16392					X	7/2/90	7/3/90
BP004 226-20-16395					X	7/3/90	7/4/90
BP004 226-20-16397		X	7/7/90	8/27/90	X	7/4/90	7/7/90
CB003 242-20-10190					X	6/14/90	6/14/90
CH001 226-20-16280					X	6/16/90	6/16/90
CH002 226-20-16180		X	7/3/90	9/12/90	X	6/16/90	6/16/90
CH009 226-20-16182		X	7/4/90	9/12/90	X	7/4/90	7/4/90
CH014 226-20-16255					X	6/20/90	6/20/90
CH016 226-20-16258	X						
CH0900 226-20-16200					X	7/3/90	7/3/90
CU001 224-20-12995					X	5/18/90	5/23/90
CU007 224-20-13010	X						
CU013 224-20-13030					X	6/3/90	6/3/90
CU014 224-20-13034					X	6/21/90	6/21/90
CU014 224-20-13036					X	6/21/90	6/21/90
EI001 242-10-10270					X	7/1/90	7/1/90
EL015 226-10-16906					X	6/30/90	6/30/90
EL052 226-10-16902		X	6/28/90	9/4/90			
ER005 226-50-16432					X	6/21/90	6/21/90
ER006 226-50-16430					X	6/20/90	6/20/90
ER007 226-50-16428					X	6/20/90	6/20/90
ER019 226-50-16406	X						
EV003 226-40-16590					X	6/10/90	6/10/90
EV007 226-40-16559	X						
EV012 EV012-UNCAT		X	6/22/90	6/23/90	X	6/22/90	6/23/90
EV014 226-40-16640					X	6/23/90	6/23/90
EV017 226-40-16620					X	6/19/90	6/19/90
EV017 226-40-16630					X	6/19/90	6/19/90
EV025 226-40-16613		X	7/1/90	7/1/90	X	6/9/90	6/9/90
EV027 226-40-16610					X	7/8/90	7/8/90
EV070 226-40-16509		X	6/12/90	9/1/90	X	6/12/90	6/12/90
EV071 226-40-16484		X	7/5/90	9/1/90	X	6/21/90	6/21/90
FL002 226-40-16390	X						
FL005 226-40-16400	X						
GR007 GR007-UNCAT					X	6/27/90	6/27/90
GR013 227-20-17890	X						
GR103 227-20-17880					X	6/24/90	6/26/90
IN031 226-10-16916					X	7/5/90	7/5/90
K0101-SI008 251-81-10010	X						
K0101-SI014 251-82-10090					X	7/3/90	7/3/90
K0112-SS009 251-50-10045					X	7/2/90	7/2/90
K0201-SI013 251-81-812	X						
K0302-IB005 252-31-10020					X	6/5/90	6/5/90
K0911-CD018 262-10-10100					X	7/5/90	7/7/90
K0911-CD020 262-10-10040					X	7/3/90	7/8/90
K0911-CD020 262-10-10070	X						

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: EL013
LOCATION: UPPER PASSAGE

DATE: 09/15/89
TIME: 17:15

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

WEATHER AND SEA CONDITIONS

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

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

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

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

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

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: EL013-1 / EL013-2 / none / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: Few localities, signs, paint marks
Bags Collected: 0

Draft

Printed: 12/12/89 11:09

Walk-a-thon

ACE 7237072

ADEC BIOREMEDIATION DAILY REPORT

DATE: 8/29/90ADEC Monitor: Rowann Hudnall

TIDES:	TIME:	HEIGHT:	WEATHER: Cloudy Rain Fog	(Sun)
Low	_____	_____	TEMP: 65	SEA COND: calm
High	_____	_____	WIND DIR: N-NE-E-SE-S-SW-W-NW	
Low	_____	_____	WIND SPEED	0-15 16-30 30+
High	_____	_____		

USCG Dan Percy
OOPS James ByarsExxon Al Snook
Other _____OGS Dan Mann, Jim Connors

Segment	Sub	No. Sites	Inipol (gal)	Custom (lbs.)	Comments
---------	-----	--------------	-----------------	------------------	----------

EL15	A	1	17	36	1st treatment
EL13	A	5	5	95	1st treatment
NA06	C	2	66	83	1st treatment

\shorelin\rowann\biorept 8/7/90

ACE 7237077+1AC

**ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER**

To: Alaska Department of Environmental Conservation
Oil Spill Response Center
Anchorage, Alaska
Attn: John Bauer
FAX 265-4666, 265-4656

RE: SEGMENT NUMBER EL-15 SUBSEGMENT NUMBER A-226-10-16906

DEC REP Bob McCurdy USOC REP Larry Raymond

EXXON REP Randy Boyer BOAT NAME/SQUAD NUMBER Beulah - #6

Has work been completed as stated on the work order? If your answer is no please explain in detail how the work performed was different from the work order language.

yes, tarrest, tarball, and oiled grass removed from Aved. Stream segment

Is there additional oil remaining which can be removed with further physical/mechanical treatment? If yes what is the recommended treatment method.

No

Describe the amount of oil remaining (type, size of area and location).

Additional Comments (keep objective)

signature Robert L. McCurdy
Date and time of demobilization from segment 6/30/90
Shoremon\55 5-12-90

ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

To: Alaska Department of Environmental Conservation
Oil Spill Response Center
Anchorage, Alaska

Attn: John Bauer
FAX 265-4666

From: _____ (please print)
RE: SEGMENT NUMBER EL15 SUBSEGMENT NUMBER A

ADEC REP Rowann Hudnall USCG REP Dan Percy

EXXON REP Al Snook BOAT NAME/SQUAD NUMBER Don Bollinger
Squad 3

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
--------	---------------------------	------------------------	---------------------	----------------------

See daily report + OG report for details

Has work been completed as stated on the work order? If your answer is no please explain in detail how the work performed was different from the work order language.

yes. bio application. 1st treatment.

no inipol applied within 100m of Anad
Stream.

Describe the amount of oil remaining (type, size of area and location).

Broken coat in UITE, OR+OF subsurface

Additional Comments (keep objective)

ADF+G Aimee Weseman inspected site +
approved treatment. USCG rep monitored
application and reported no incident.

signature Rowann T. Hudnall
Date and time of demobilization from segment 8/29/90
Shoremon\Demob.bio 55/30/90

ANADROMOUS FISH STREAM EVALUATION

15A

SEGMENT ST/ EL-~~12~~ STREAM NO: 226-10-16906 DATE 4/23/90

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-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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 exists at boundary of EL-13 and EL-15. [EL-13; Subdivision A (1 of 2)].

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: *J. David McManis* DATE: 5/9/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of oiled vegetation and cleanup debris, and 2) manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 6/1 and 7/10 with USFWS approval regarding eagle nest constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90.
ADEC ART WENGER
EXXON ANDY TATE
NOAA Burl Wescott
USCG D. D. Rome

FOSC: DATE: 5-18-90.

Assess need for customblend following treatment removal. Notify CVC 24 Hrs prior to work.

✓ ACE 7237113

*Processed
4/24
RH*

RECEIVED

APR 21 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/EL-13

SUBDIVISIONS: A (1 OF 2)

*Cancun 10/14
Avoid 10/14
Cancun 10/14*

ACE 7237114+15

SHORELINE EVALUATION

SEGMENT ST/ EL-13 SUBDIVISION A (1 OF 2) DATE 4/8/90

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)

6U Recreation: Tent sites (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 unoiled biota and substrate. 2 eagle nests on small islands just offshore of Subdivision (see map). Do not damage mussel bed. Small stream shown on sketch is not identified as an anadromous fish stream.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 23 m: Narrow 0 m: V.Light 604 m: No Oil 0 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 15 cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual removal of tarmat and pooled oil, 2) bioremediation of area shown on attached sketch map. Treatment should be conducted in such a way as to avoid treatment or damage to mussel bed. Work should be conducted after 6/1 and with approval of USFWS due to eagle nest constraint.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7237115

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)
- 7HH 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 / EL-13 SUBDIVISION: A DATE 4/8/90

USCG

NAME CWO2 J. Mc MAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

1. There is a growing controversy with the mussel bed on to treat or not.
2. Area of concern is west of pit 5 and between pit 6.
3. Treatment of this sensitive area can be done either:
 - a. protecting mussel bed and treat polluted area (bio)
 - or
 - b. let the treatment lapse - area looks strong + healthy.

ADEC

NAME GREG WINTER SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

REMOVE SMALL AREA OF BROKEN OIL COVER (MAP A).

ON MAP B SHOWS A TOMBOLA, WHICH IS VISIBLE @ LOW TIDE, THAT HAS A RICH MUSSEL BED ESP. ON WEST SIDE, THERE IS CONSIDERABLE SURFACE AND SUBSURFACE OIL IN THE FORM OF A FRIABLE ASPHALT. THIS OCCURS JUST BELOW THE SURFACE.

DUE TO THE SENSITIVITY AND DEGREE OF OILING - I RECOMMEND STAG AG TEAM VISIT.

LAND MANAGER

NAME Mike Bennett SIGNATURE [Signature]
ADNR

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Treatment suggested on that portion of the saddle beach located on sketch map B that does not include the mussel bed. The existing bed should be protected - appears to be highly productive, and any treatment too close to the bed could cause more harm than good. If bio remediation can be used, its application should be selective ensuring a buffer between the bed. If bio would destroy the adjoining bed, then would recommend to perform no treatment w/ harm vs. good. Saw marine mammals w/ waterfowl + eegs in immediate area.

REVISION NO. 03/21/90

ACE 7237117

SHORELINE OILING SUMMARY

REVISION NO. 02/87

OG D. Fitzgerald USCG J. McMahon SEGMENT ST/ EL-13
 BIO D. Roider LAND REP M. Bennett SUBDIVISION B
 EXXON S. Nauman ADEC G. Winter TIME 9:00 to 10:30
 TEAM NO.: 215 TIDE LEVEL: to DATE Apr 18 1980
 EST. SUBDIVISION LENGTH: 750 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: South to North
 SURFACE SEDIMENTS: R 10 % B 30 % C 20 % P 20 % G 5 % S 5 % M - % V - %
 SLOPE: Long 20 % Hang 60 % Vert 20 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 5 m M 48 m N 5 m VL 35 m NO 24 m
702 76 0

SURFACE OIL

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

PAVEMENT: H (F) S 800 sq. m by 3 cr

PATTIES / TARBALLS < 1/4 bag BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE

#BAGS 0

Photographs:

Roll No. 7

Frames 16-37

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OF	OR	OL	OF	NO		VO	UC	1	2	3	4	SU	U	M	U		
1	20					X	-								X				Grav / Peb / Cob
2	25					X	-								X				Grav / Peb / Cob / Sand
3	25		X				5-7	X		X					X				Peb / Grav / Cob / Sand
4	25		X				5-7	X		X					X				Cob / Peb / Grav / Sand
5	25		X				5-15	X		X						X			Grav / Peb / Sand
6	40					X	-									X			Peb / Grav / Sand

COMMENTS

Priority 1.

- Most of the oiling of this beach occurs along the upper intertidal zone and consists of splatly coats and tar balls on boulders and bedrock.
- An exception to this trend is the asphalt pavement that occurs on the eastern portion of the tombolo area consisting of friable asphalt 2cm thick. Beneath the asphalt is sub-surface oil residue from 7-15 cm.
- There is a sensitive mussel bed adjacent to the asphalt

ADEC
 GW

GM 4/2/82

PRELIMINARY ECOLOGICAL SUMMARY

REVISION 08/22/90

Segment ST/EL 13 Subdivision A Date (mo/day/yr) 4/8/90

Time (24 hr) 8:45 Biologist DANIEL BAKER

(A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 30 (3) Cobble 30 (4) Pebble 25 (5) Sand 5 (6) Silt

(B) Overall % cover of biota (% of segment): Dense 40 Moderate 20 Low 40
 ↳ to none

(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. 7

Frames 16-33

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:

- Dense coverage of vegetation around the lagoon leads it to be quite sensitive; there are sections with a great amount of it, especially near those Mytilus edulis beds in above Eastern part of lagoon which should be cleaned up carefully. Areas thought must be given to the project with saving the lagoon and acting as a food source for the ocean which comes just beyond the lagoon.

Ecological Considerations:

Priority 1

6U Tent Site 6/1 - 9/15

7II Deer Harvesting 8/15 - 3/1

1B Stream mouth spawning (salmon) 7/10 - 9/1

ADK
(w)

ACE 7237119

OG Fitzgerald

SEGMENT ST/ FL-13

SUBDIVISION A

DATE Apr 18 90

CHECKLIST

☐ M Arrow
☐ Appr. Scale
☐ Seg/Sub Body
☐ Oil Dist.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. H/W/L/V/L
☐ SSL
☐ Profile Location(s)
☐ Profile(s)
☐ PH Location(s)
☐ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

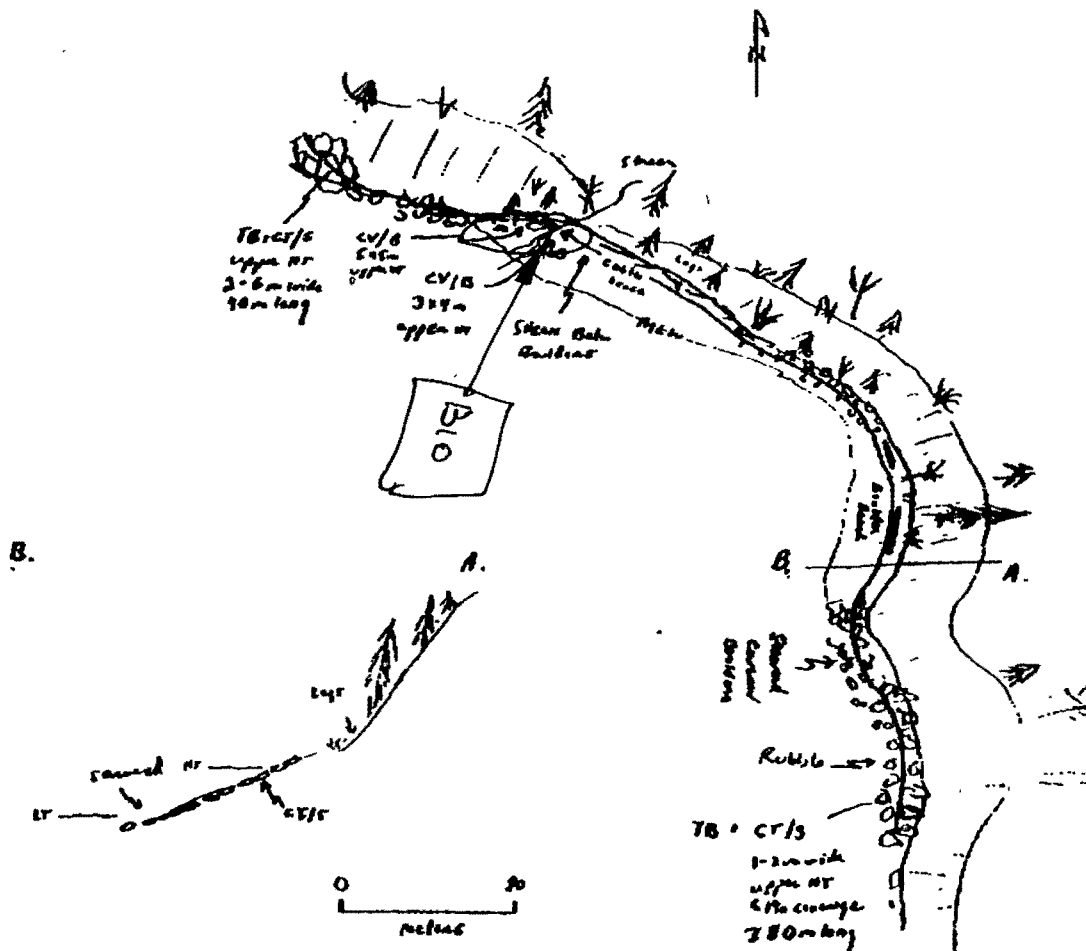
Splashed Distribution

Clad Vegetation

1 →

Photo location, direction, and number

SKETCH MAP A.



Oil Character Length (m): AP _____ PO _____ CV 8 CT 280 ST _____ MS _____ PT _____ TB 140 FL _____ NO 102

ADDC GW
REVISED 03/09

ACE 7237120

OG Fiklerald

SEGMENT STI EL-13

SUBDIVISION A

DATE Apr 18 80

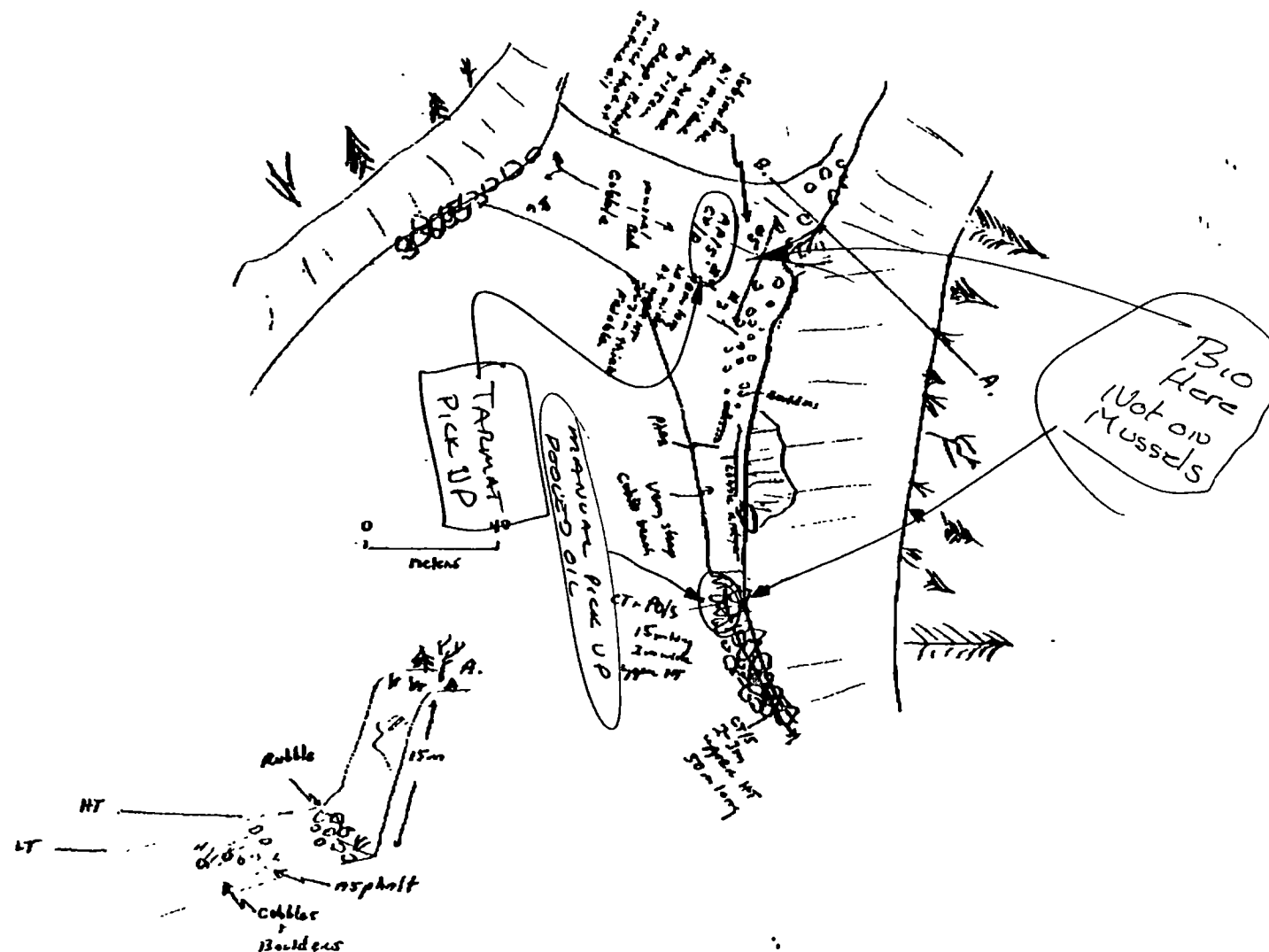
CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HMM/ALY
- ☐ SSL
- ☐ 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
- Splashed Distribution
- Oiled Vegetation
- 1 $\Rightarrow$
- Photo location, direction, and number

SKETCH MAP B.

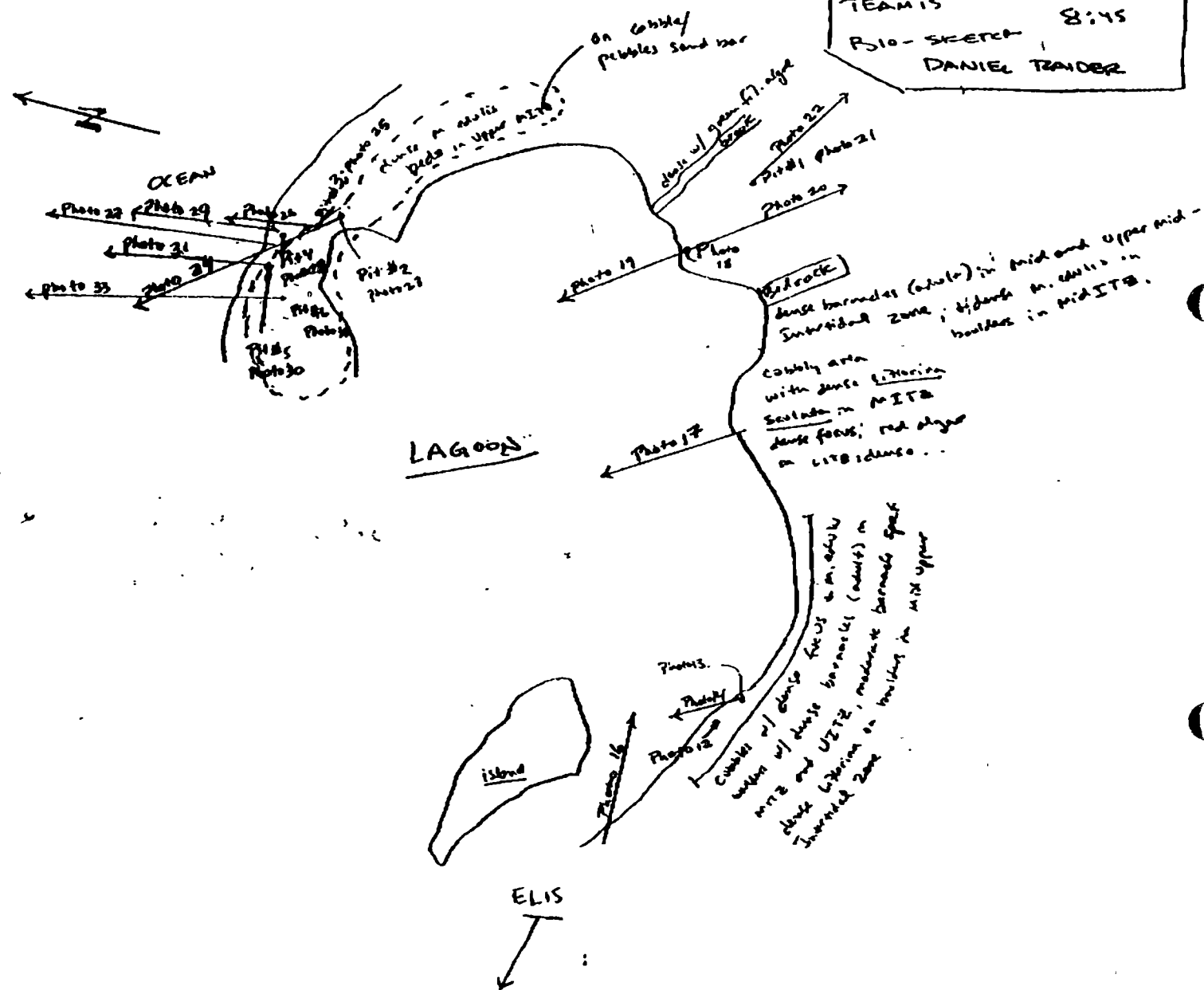


Oil Character Length (m) AP 30 PO 10 CV 10 CT 55 ST MS PT TB FL NO 115

REVISION 03/04/00

ACE 7237121

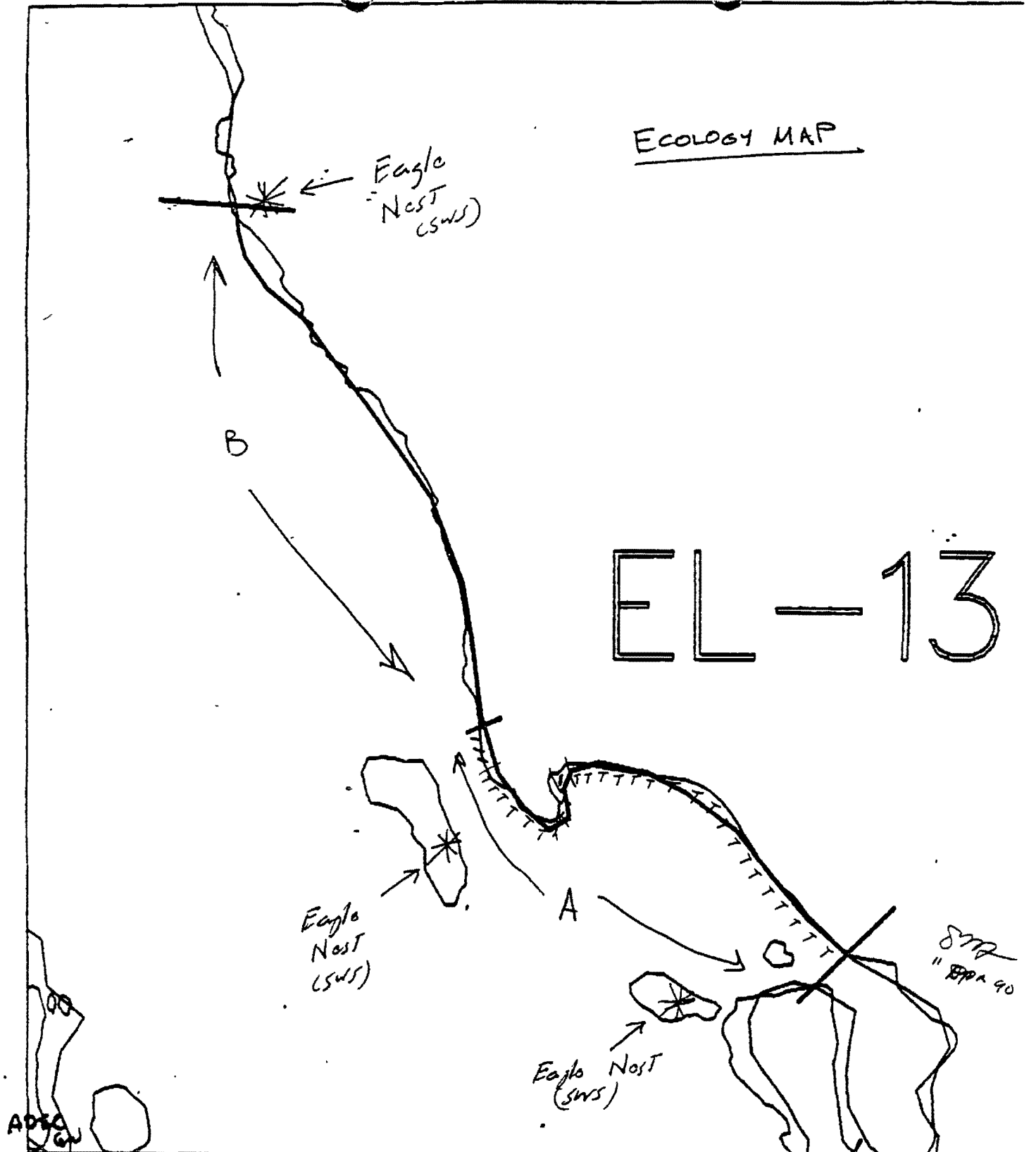
DANIEL TRANDER



ACE 723.712.2

ECOLOGY MAP

EL-13



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EL-13

ADEC Segment Length: 1359m



Map Key: PWS-132

Name: Fitzgerald

Date: 8 Apr 1990

Date Entered:

ACE 7237123

MAP LOCATIONS FOR EL-13-A

EL-13



EL-13

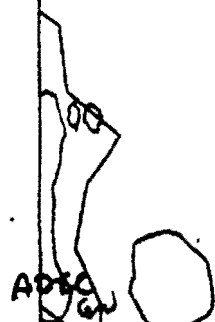
ADEC Segment Length: 1359m



ADEC
60

ACE 7237124

EL-13



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EL-13

ADEC Segment Length: 1359m



Map Key: PWS-132

Name: FitzGerald

Date: 8 Apr 1990

Data Entered:

ACE 7237125-15

*Processed
4/29
RA*

RECEIVED

APR 21 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/EL-13

SUBDIVISIONS: B (2 OF 2)

*no clean
Dump logs if
oil is not stockpiled
rotate barrels
to us.*

SHORELINE EVALUATION

SEGMENT ST/ EL-13 SUBDIVISION B (2 OF 2) DATE 4/8/90

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)

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

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

Eagle nest on or near border with EL-14. See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 24 m: Medium 709 m: Narrow 0 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of tarballs, oiled logs, and mousse
in areas indicated on sketch map. Bioremediation of surface oil in area
shown on attached sketch map. Work should be conducted after 6/1 and
with permission of USFWS due to eagle nesting constraint.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7237127

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 (6/11 to 7/25)
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Heming 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.
- 6I 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
- 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.

FIE SHORELINE COMMENT SHEET

(Helicopter did section A)

SEGMENT ST EL013 SUBDIVISION: B DATE 04-08-90

USCG

NAME AEC Vandepels SIGNATURE AEC Vandepels

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

I suggest manual pick up ^{of} mousse patties and asphalt patches along sub B. I observed enough patties + patches along entire sub. that they should be removed.

ADEC

NAME Michelle Baer SIGNATURE M Baer

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Most of sub-segment-B is B beaches with a B,C,P beach at the Southend. Manually remove the TB's, AP patches, and MS patties, in areas behind B's that have cover a CV on the pebbles or in underneath ps. spray fertilizer. To remove the CT's off the B's use hot water wash, also remove the oiled logs. The pits revealed NO and the area is low energy.

LAND MANAGER

NAME DAN LOGAN SIGNATURE Dan Logan

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

I RECOMMEND MANUALLY REMOVING THE TB'S AND ASPHALT PATCHES INDICATED ON SKETCH MAP. FERTILIZER SHOULD BE APPLIED TO THE PEBBLES/COBBLES UNDERLYING THE ROCKS AND BOULDER ON THE SM BAND.

SHORELINE OILING SUMMARY

REVISION NO. 08/23/88

OG J. Springer USCG R. Vandepels SEGMENT ST/ EL-13
 BIO P. Crank LAND REP D. Logan SUBDIVISION B (2 of 2) *
 EXXON T. Tamblin ADEC M. Baer TIME 17:20 18:45
 TEAM NO.: 1 TIDE LEVEL: +3 to +1 DATE 04/08/90
 EST. SUBDIVISION LENGTH: 742 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock Pillow lava & aa lava
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: SE to NW
 SURFACE SEDIMENTS: R 5 % B 70 % C 15 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 60 % Hang 40 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 40 m M 700 m N 1 m VL 0 m NO 0 m

SURFACE OIL

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

PAVEMENT: H F S 0 sq. m by 0 cmPATTIES / TARBALLS 15 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					- OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	1	2	3	4	5	6	7	8	SU	U	M	L		
1	20					X	.		X										X				CPG
2	15					X	.		X									X					P
3	20					X	.		X									X					PG
4	40					X	.		X									X					P
5	15					X	.		X										X				CP
6	30					X	.		X									X					P

COMMENTS * EL-13/A was done by the Helo team on 4/7/90.

SEGMENT ST/ EL-13 SUBDIVISION B

SUBSURFACE OIL (CONTINUED)

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-OM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SP	BP	BR	BL	BO	BU	UB	UM	UL			
7	30					X	.		X									X			P
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COMMENTS

REVIEWED _____ DATE _____

ACE 7237131

SURFLINE ECOLOGICAL SUMMARY

pg 10 of 20

REVISION: 02/22/78

Segment ST / EL13 Subdivision B Date (mo / day / yr) 4/8/90
 Time (24 hr) 1730-1845 Biologist Crank Length 740 m
 Tide Height +3 to +1 ft

- (A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 70 (3) Cobble 15 (4) Pebble 10 (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 20 Moderate 30 Low 50
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
 Roll No. ST-5-5

Frames 1

BARNACLES

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

Observations from Lewis Bay to EL13:
 8 Glaucous-winged Gulls 4 Otter
 2 Mergansers 3 Marbled Murrelets
 7 Cormorants 7 Crows
 Bear Tracks: no snow top bed is

Observations at EL13:
 3 Tufted Puffins
 1 Salmon Jumping
 1 Bald Eagle - Adult
 1 Harbor Seal

Observations from EL13 to Lewis Bay:
 3 Glaucous-winged Gulls
 2 Mergansers
 1 Cormorant?
 2 Bald Eagles - Adults over island
 1 Harbor Seal

Ecological Considerations:

711 - Deer Harvesting
 (64 - Tent sites: 16 - Salmon streams are in EL13A)

SEGMENT: ST/EL 13 SUBDIVISION B LENGTH BIOLOGIST Crank

pg 2 of 3

DATE 4/8/90 TIME 1730-1845

TIDE HEIGHT.

1 - BEDROCK 2 - BOULDER 3 - COBBLE 4 - PEBBLE 5 - SAND 6 - SILT

[illegible]

ACE 7237133

DATE 08 / 1 90

SKETCH MAP

CHECKLIST

- ☒ Arrow
☒ Approx. Scale
☒ Sig/Sub Entry
☒ On Chart
☒ Width
☒ Length
☒ Cover
☒ Substrate Character
☒ Gen. HW/L/W/L
☒ IOL
☒ Profile Location(s)
☒ Profile(s)
☒ Pin Location(s)
☒ Photo Location(s)

LEGEND

- 1 Δ**
Pit - No Subsurface Oil

- 2 ▲
FR - Subsurface Oil

CT/C
Continuous Distribution

CT/B

Broken Distribution

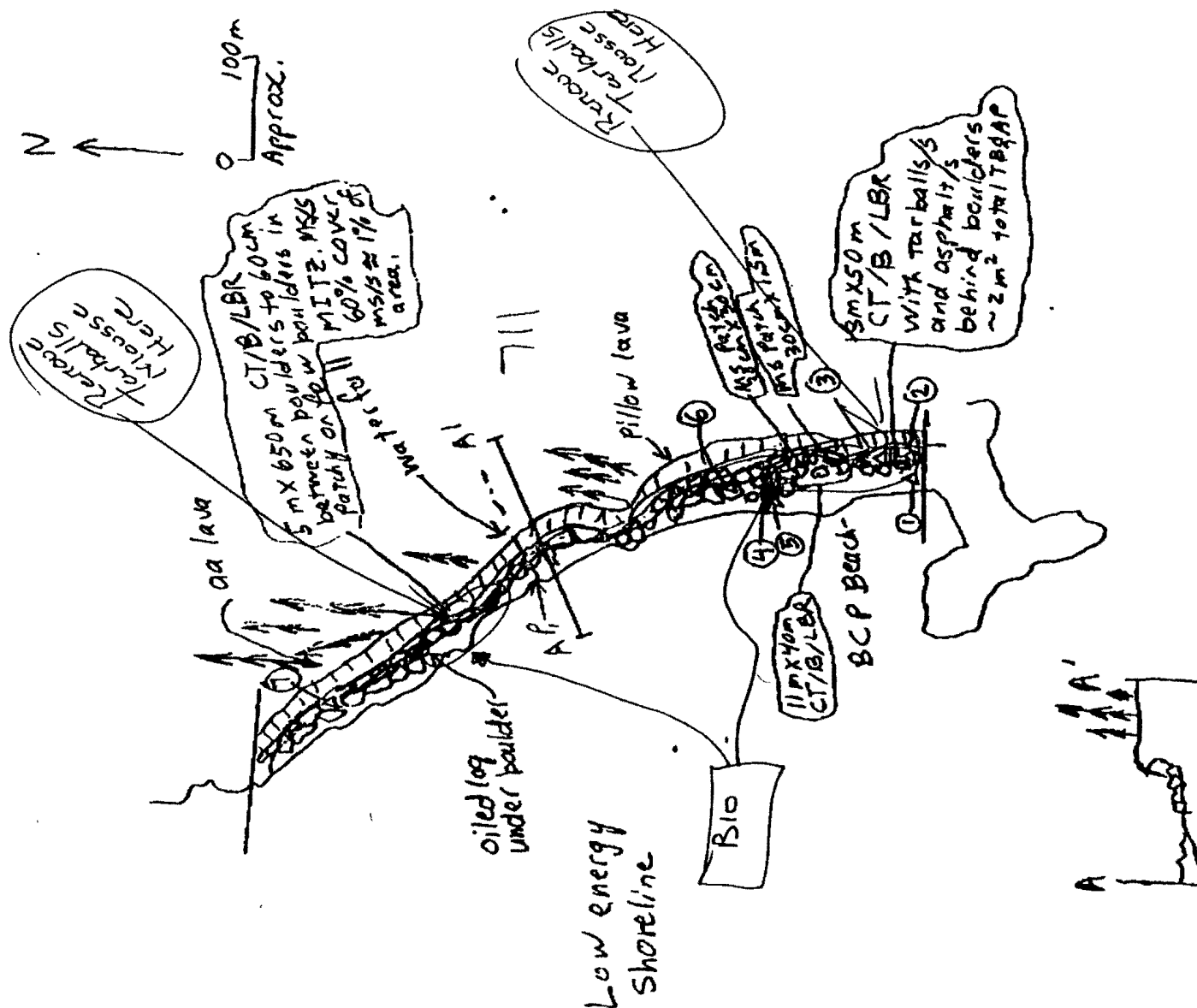
CT/P

Patchy Distribution

[CT/S]
Specialized Distribution

Cold Vegetation

Photo location, direction,
and number



Oil Character Length (m): AP PO CV CT 740 ST MS PT TB FL NO

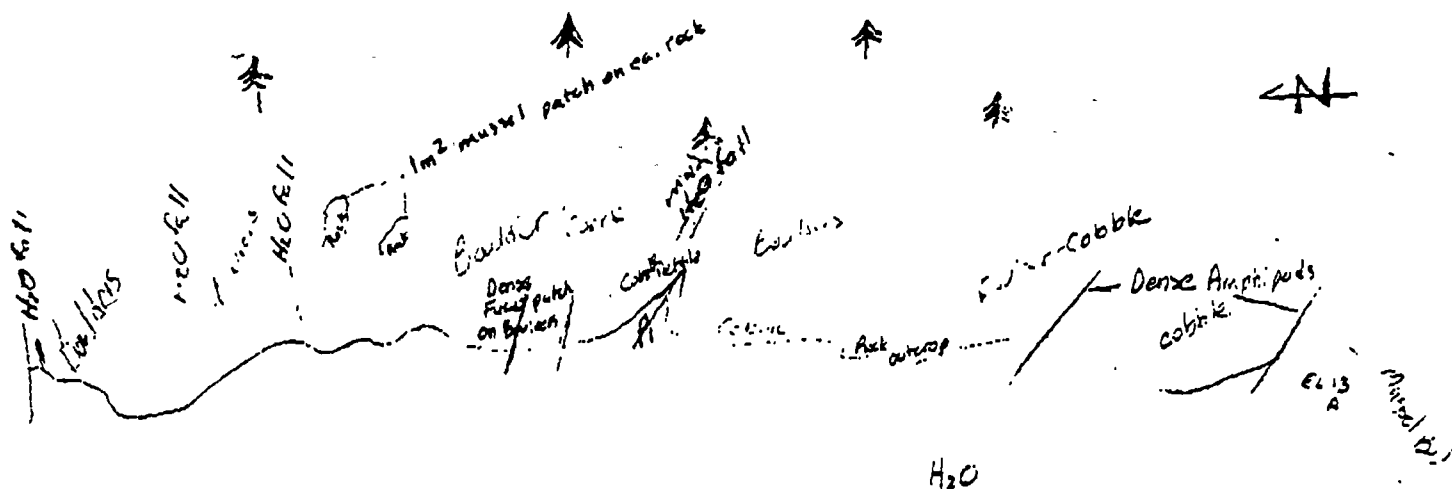
RECEIVED: 01/24/00

pg 3 of 5

Time: 1730-1845

Tide Height:

pg 3 of 5



Com rientes -

- MITZ cobble on the southern end of subdivision, filamentous green algae and diatoms cover the substrate. Under the cobble are dense concentrations of amphipods, *Fucus*, *Ulva* and limpets as well as *Mytilus* and snails. There were no visible barnacles.
- In MITZ southern end cobble, filamentous green still dominant, gastropods are moderate, no barnacles. On boulders, *Mytilus* and *Fucus* are sparse; gastropods moderate. On bedrock barnacles are rare. Barnacle scanning is present. *Mytilus* barnacle are also present in rare concentrations on MITZ rock, however *Ulva* is dense.
- MITZ remained unexposed; through H₂O like, *Knosmema pulvata*, filamentous green and sparse barnacles are present.
- Throughout the rest of the subdivision, filamentous green is present at moderate concentrations, amphipods are moderate with sparse amphipods. Barnacle concentrations increase with barnacle species, the most abundant faunal species.
- There is a small, dense *Fucus* bed on the boulders south of major waterfall. ($\approx 15m \times 3m$)
- Mussels are sparse throughout the segment. There are two *Mytilus* patches on separate boulders, the remaining mussels are found in small numbers on the underside of boulders and in rocky crevices.
- Recruitment for subdivision is low, except for barnacles which is high.

SEGMENT: ST/EL 13 SUBDIVISION B LENGTH BIOLOGIST Crank

pg 2 of 3

DATE 4/8/90 TIME 1730-1845

TIDE HEIGHT _____

1 - BEDROCK 2 - BOULDER 3 - COBBLE 4 - PEBBLE 5 - SAND 6 - SILT

FLORA:

[illegible]

FAUNA:

DATE 08/1 90

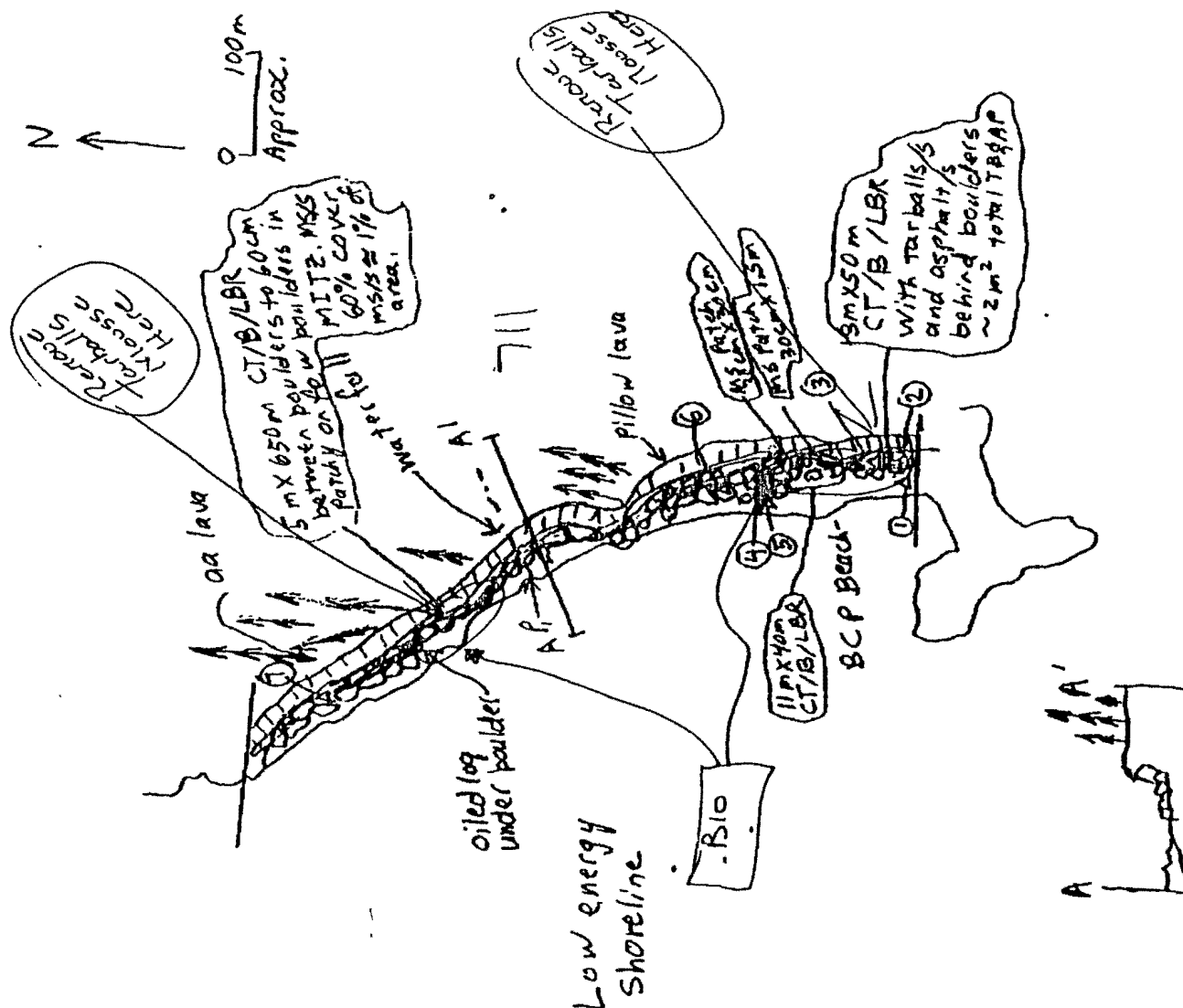
CHECKLIST

- ☒ Arrow
- ☒ Approx. Scale
- ☒ Sig/Sub Entry
- ☒ Off Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ 5 ft HWL/LWL
- ☒ PSI
- ☒ Profile Location(s)
- ☒ Ports(s)
- ☒ PH Location(s)
- ☒ Photo Location(s)

LEGEND

- 1 
 P11 - No Subsurface Oil
- 2 
 P11 - Subsurface Oil
- 
 CT/C
 Continuous Distribution
- 
 CT/B
 Broken Distribution
- 
 CT/P
 Patchy Distribution
- 
 CT/S
 Spotted Distribution
- Oiled Vegetation
- 1 
 Photo location, direction
 and number

SKETCH MAP



OW Character Length (m): AP _____ PO _____ CV _____ CT 740 ST _____ MS _____ PT _____ TB _____ FL _____ NO _____

THE VISION: ALCANTARA

ACE 7237137

EL-13

Eagle
- Nest
(SWR)

b

Eagle
Nest
(SW)

Eagle Nest
(SWS)

872
" 872A 40

XXXX Wide

//// Medium

----- Narrow

TTTT Very Light

0000 No Oil

EL-13.

ADEC Segment Length: 1359m

METERS

Map Key: PWS-132

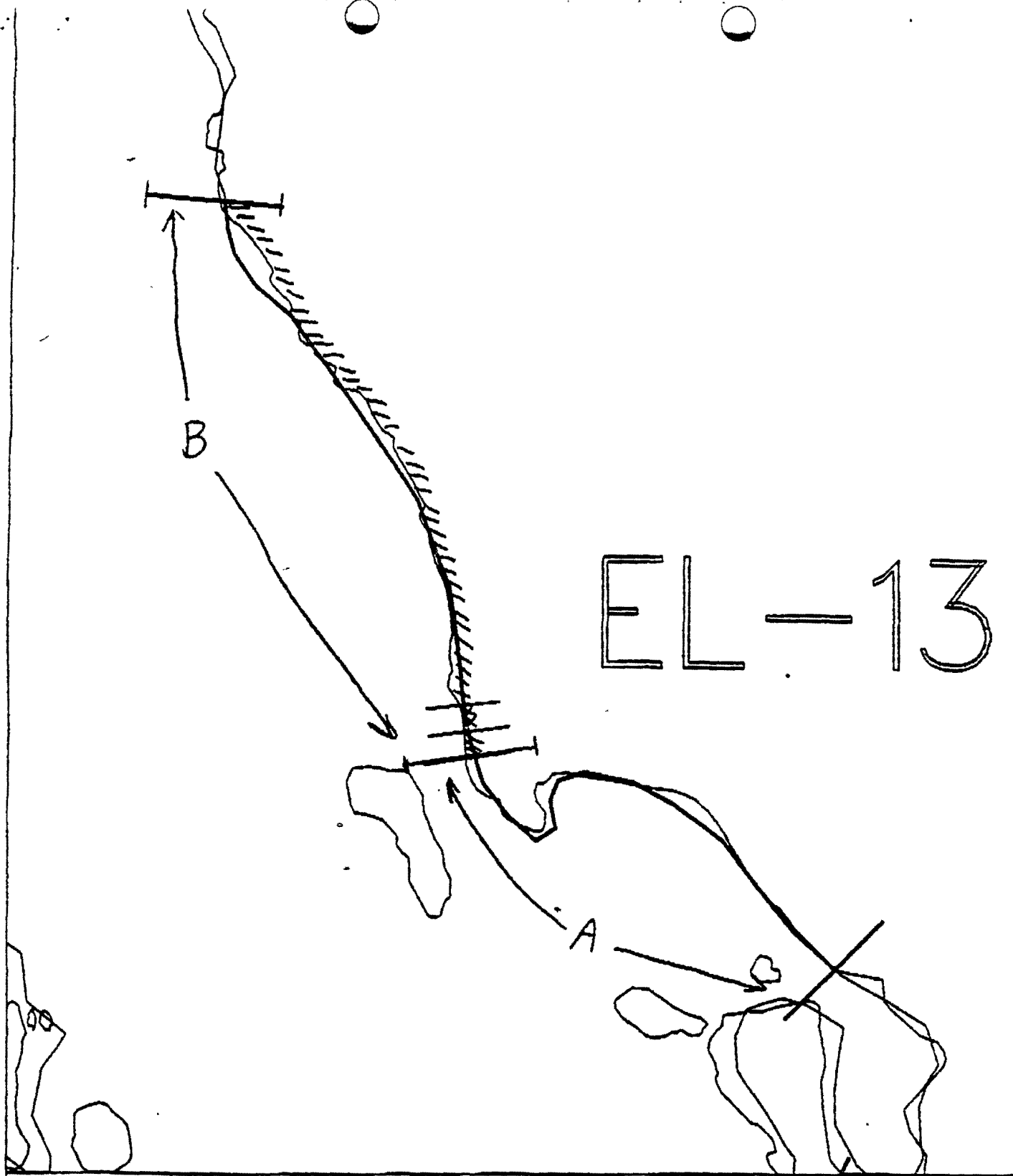
Name: Fitzgerald

Date: 3 Apr 1990

Data Entered:

ACE 7237138

EL-13



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EL-13

ADEC Segment Length: 1359m



Map Key: PWS-132

Name: James Springs

Date: 4/8/90

Data Entered:

ACE 7237139-15

500.0

EL 013

Loop

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

N

