

EB-002 22-5-39 ASC 15060
LOOMIS CREEK (ESHAMY BAY)

ACE 1369541 ★

- 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. (Fall)
____ '90 Other Documents _____

ACE 7237278
+FIS/PI/FFI-S/PI/t

OPERATIONS FIELD NOTES

See Back for Instructions

13/42

SEGMENT ID ANAD EB-0012 ANW
 STREAM ID # 226-20-15060
 ANNOTATED MAP INCLUDED Y(N)

DATE 4-26-90
 NAME GARCIA
 TEAM # 15

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	VERY	LIGHT AND		NONE						
Medium Band	SPORADICALLY									
Narrow Band	STAINED.									
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL - NONE

Other (Describe)?	

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

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

OILED LOGS <u>Y(N)</u>	OILING <u>H(M)/L</u>	QUANTITY <u>L/M/S</u>	BURN <u>Y/N</u>
------------------------	----------------------	-----------------------	-----------------

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

GENERAL Snow covering 0 % of the Supratidal Zone?

Wave Exposure H(M)/L Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

Would the production Craft have to be relocated to complete work on this subdivision? Y(N) # of Times —

COMMENTS:

NO TREATMENT RECOMMENDED FOR THIS STREAM.

ACE 7237279 +HS/AC

19/42

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EB 001 SUBDIVISION: 15060 DATE 4/26/90

USCG

NAME AND Mc NATION

SIGNATURE



☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFTG

ADEC

NAME TOM CROWE

SIGNATURE



☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME

SIGNATURE

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

15/42

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHM HHS PTA

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 9/26/90

15 HIGH TIDE TIMES: 1526

21 TEAM RECORDER: TOM CROW

4 START TIME: 0950

16 HIGH TIDE HTS: 11.2 FT

22 OBSERVERS: MIKE WIDOMER

5 STOP TIME: 1024

17 LOW TIDE TIMES: 0901

23 AGENCY: ADF&G (ANADSLAT)

6 SEGMENT #: EB001

18 LOW TIDE HTS: -3.6

24 PHOTOS TAKEN: Y AD

7 STATION #:

19 TIDE HT AT SURVEY: -3

Roll #: Frames:

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 Number

12 SOURCE: Map Loran

Oil

13 LOCATION: ACROSS FROM CRAFTON ISLAND

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H ²	%	L	M	H ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-20-15060

38 STREAM NAME: LOOMS CREEK

39 OIL IN STREAM BED? Y N

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 Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? 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
Species Aerial Ground

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

COMMENTS:

NO TREATMENT

Very LIGHT STAIN ONLY.

ACE 7237281

16/92

LIGHT
STAIN

RECOMMENDS: NO TREATMENT

I agree. M H Farnell

4-26-90
LOOMIS CREEK
226-20-15060
EBOO1
ANADSCAT TWC

SHORELINE OILING SUMMARY (CANAD.)

REVISION NO. 04/1

OG WILLIAM LEID OG McMAHON SEGMENT ST/ EBOO1 17/42
 BIO MICHAEL FAWCETT LAND REP TOM GOWE ADFG STREAM 226-20-1500 OF
 EXXON CUS GARCIA ADFG MIKE WIEDMER TIME 10:00 to 1500
 TEAM NO. 15 TIDE LEVEL -2 FT DATE 26 / APR / 90
 EST. SUBDIVISION LENGTH: 35 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 10 % C 30 % P 60 % G % S % M % V
 SLOPE: Lang 90 % Hang 10 % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 5 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	LC	RB	RP	RS	BR	BL	GR	GL	OR	OL	TR	LR	SU	U	M	L
ASPHALT																
PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				X		X							X			
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S _____ sq. m by _____

PATTIES / TARBALLS _____ BAG

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. A5-15-6

Frames 19-20

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR	BL	GR	GL	OR	OL	TR	LR	SU	U	M	L			
1	30					X	.													X			N	P/S/L
2	25					X	.													X			N	P/S/L
							.																	
							.																	
							.																	
							.																	

COMMENTS

REVIEWED _____ DATE _____

ACE 7237283

ACE 7237284

19/42

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-20-
SEG ID: EB001 SUBDIV: 15060 TEAM: AS-15 SURVEY DATE: 4/26/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 35 OIL CATEGORY: W 0 M 0 N 0 VL 5 NO 30 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 10 COB 30 PEB 60 GRN 0 SAN 0 MUD 0 VEG 0

CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: — 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 —

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 —

20/42

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: EB001 SUBDIV: 226-20-15060

PIT # 1 PIT DEPTH 30 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X MUD — VEG —

PIT # 2 PIT DEPTH 25 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X 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: —

ACE 7237286

Segment EB001

4/26/90

Stream 226-20-15060

Michael Fawcett

Ecological Summary

This is a medium-size stream with a shale boulder/cobble/pebble delta. A dense bed of mussels (100% cover) exists among pebbles and cobbles in the MTZ. Otherwise, biota are sparse, as the beach sediments are relatively unstable except where stabilized by the mussels. There are sparse Fucus and barnacles along the stream. ADF & G is presently operating a weir to catch outgoing smolts. Numerous pink salmon fry were seen in the trap. Remaining oil consists mostly of a few stains. No cleanup recommended.

M Fawcett

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS CS TS AVS SCHA MMS PTA

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/26/90

15 HIGH TIDE TIMES: 1526

21 TEAM RECORDER: Tom Crowe

4 START TIME: 0959

16 HIGH TIDE HTS: 11.2'

22 OBSERVERS: Mike Wilmer

5 STOP TIME: 1024

17 LOW TIDE TIMES: 0901

23 AGENCY: ADFG (ANADSCAT)

6 SEGMENT #: EBOON 2

18 LOW TIDE HTS: -3.6

24 PHOTOS TAKEN: Y (N)

7 STATION #: ASW

19 TIDE HT AT SURVEY: -3

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Stack Flood Stack

25 VIDEO TAKEN: Y (N) TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number _____

12 SOURCE: Map Loran

Oil _____

13 LOCATION: ACROSS FROM CRAFTON ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 226-20-15060

38 STREAM NAME: LOOMS CREEK

39 OIL IN STREAM BED? Y N

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 Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? 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
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock ✓ Boulder Cobble ✓

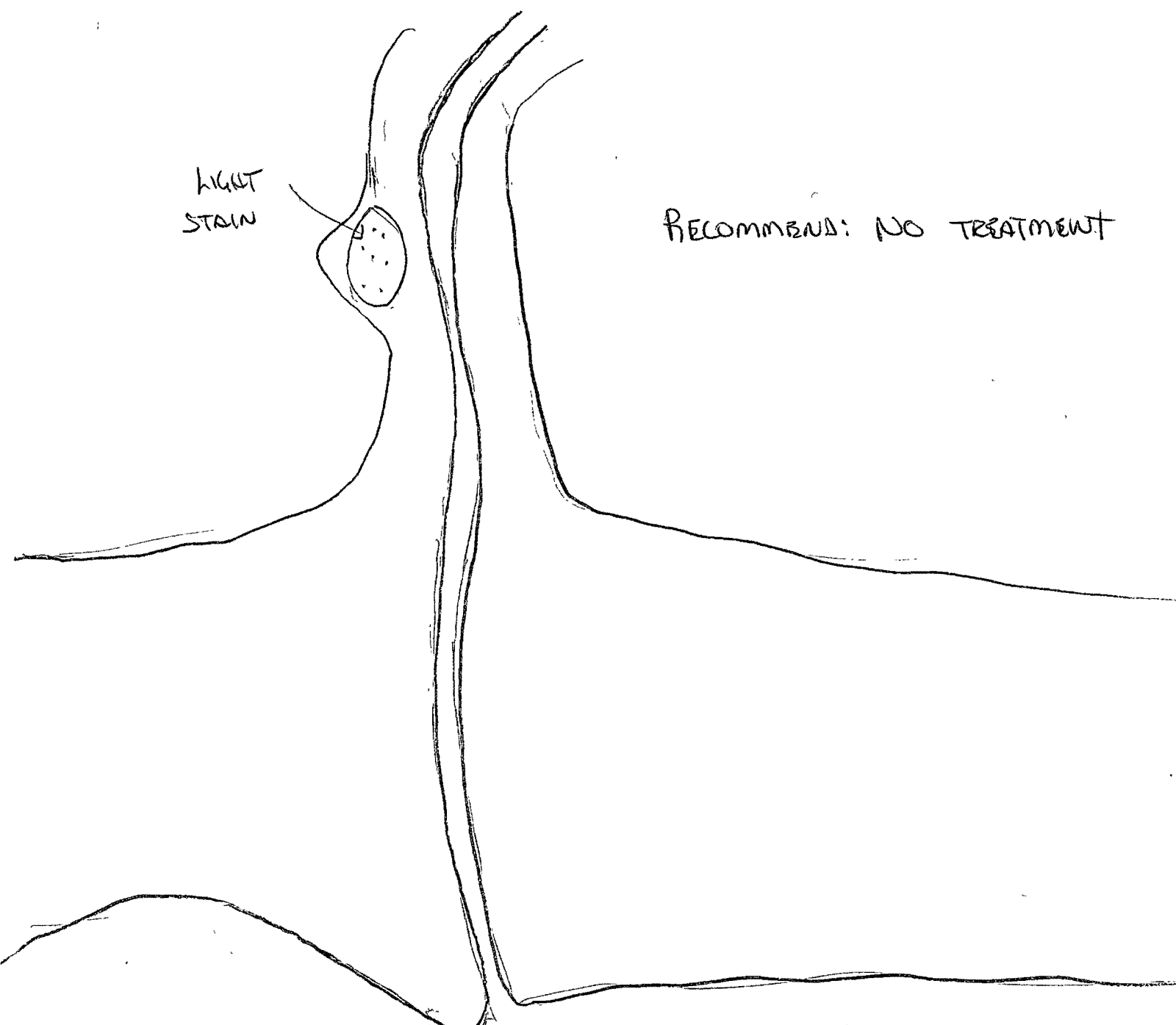
Gravel ✓ Sand Mud/silt

Species	Aerial	Ground

COMMENTS: No treatment

Very light stain only.

ACE 7237288+15



A hand-drawn sketch of a tree trunk. The trunk is vertical and has several horizontal lines branching out to the left and right, representing limbs or a cross-section. On the left side of the trunk, there is a small, oval-shaped area with several small dots inside, representing a light stain. A line points from the text 'LIGHT STAIN' to this area.

LIGHT
STAIN

RECOMMEND: NO TREATMENT

4-26-90
LOOMIS CREEK
226-20-15060
EBOO1
ANADSCAT TWC

U.S. FISH AND WILDLIFE SERVICE
BEACHED BIRD/SEA OTTER RETRIEVAL
T/V EXXON VALDEZ SPILL ZONE
SPRING AND SUMMER 1990

REVISED APRIL 3, 1990

COMPLETE ONE FORM PER ANIMAL EVEN IF ANIMAL IS NOT RETRIEVED. PUT COMPLETED FORM IN ZIPLOCK BAG FOR PROTECTION. IMPORTANT: PLACE ZIPLOCK-PROTECTED FORM IN THE BAG WITH THE CARCASS--ONE CARCASS PER BAG, DOUBLE BAG. RETURN BAGGED CARCASS WITH ENCLOSED FORM TO CONTACTS LISTED BELOW. IF CARCASS IS NOT RETRIEVED, OR IF SICK OR INJURED ANIMAL IS OBSERVED, COMPLETE FORM AND GIVE FORM TO NEAREST CONTACT PERSON OR SEND FORM TO USFWS-ATTN. T. ODENBAUGH, 1011 E. TUDOR RD. ANCHORAGE, AK 99503.

NAME AND ORGANIZATION OF OBSERVER: _____

DATE: _____

DEC BEACH SEGMENT NUMBER: _____

OR

SPECIFIC LOCATION NAME: (ie, beach, bay, island, lat\long) _____

SEA OTTER, BIRD: (circle one) BIRD SPECIES, IF KNOWN _____

TAG #, IF OBSERVED ON ANIMAL: _____

OILED: NONE, LIGHT, MODERATE, HEAVY, UNKNOWN (circle one)

CONDITION OF ANIMAL: ALIVE, FRESH DEAD, DECOMPOSING, OLD\DRYED,
SCAVENGED, UNKNOWN (circle one or more)

DATE AND TIME OF DEATH, IF OBSERVED: _____

ANIMAL RETRIEVED: YES, NO (circle one)

OIL ON BEACH: NONE, LIGHT, MODERATE, HEAVY, UNKNOWN (circle one)

NOTES: (Please add any information you feel is important)

DRIED OR SCAVENGED NON-OILED BIRD CARCASSES SHOULD BE LEFT ON THE BEACH TO BECOME PART OF THE FOOD CHAIN. FRESH NON-OILED AND ALL OILED BIRD CARCASSES SHOULD BE RETRIEVED. ALL SEA OTTER CARCASSES SHOULD BE RETRIEVED.

CONTACTS

ANCHORAGE: TINA ODENBAUGH 786-3479

HOMER: REFUGE STAFF 235-6546

KING SALMON: REFUGE STAFF 246-3339

SEWARD: NATL. PARK SERVICE 224-3175

VALDEZ: BARBARA WARD 835-5260

KODIAK: REFUGE STAFF 487-2600

CORDOVA: PWS SC. CTR 424-5800

WHITTIER: POLICE DEPT. 472-2340

ANSWER MACHINE (24-HR WEEKENDS AND 5pm-7am WEEKDAYS) 786-3479

ADDITIONAL FORMS ARE AVAILABLE THROUGH YOUR AREA CONTACT PERSON

ACE 7237290 -15

SEGMENT NUMBER: EB-001

STREAM NUMBER: 226-20-15060

This stream was surveyed during the Pre-ANAD survey by a cooperative effort of ADF&G and Exxon on April 13, 1990. During the pre-survey, no oil was found and no ADF&G survey form was completed. As a result of this pre-survey, the ANAD Fish Stream Team decided NOT to survey the stream. The FIELD SHORELINE COMMENT SHEET was prepared based on information provided to the team by Rick Gustin who had conducted the pre-survey.

The ANAD Fish Stream Team recommends: NO TREATMENT

TAG Concurrence Date:

ADEC	ART WEINER	<i>Art Weiner</i>
EXXON	ANNY TEAL	<i>Anny Teal</i>
NOAA	Burl Wescott	<i>Burl Wescott</i>
USCG	W. J. Hall	<i>W. J. Hall</i>

FOSC: *[Signature]*

Date: 5-24-90

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/30/89

SHORELINE SEGMENT EB-2

LOCATION: (see enclosed map) Eshamy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/22/89

Recommended Cleanup Activity(ies):

- Manually remove heavy oil which has penetrated to a depth of up to 30cm along the north end of the segment with flooding/hot water or other appropriate means. Flooding/flushing should occur at low to mid tide. *MAINTAIN BOOM BETWEEN WORK AREA AND FISH STREAM.*

Priorities Considerations:

Class 2: Heavy oil contamination

Class A: Resources present (salmon spawning stream)
Recreational cabins

Ecological Constraints (from site survey): Oiled fucus should be removed. Fish biologist should look at oiled delta. Manually remove oiled mussels. On beaches use large volume, low pressure hot water at mid to high tide. Very low tide operations not recommended. *ANADROMOUS FISH STREAM IS PRESENT. IF CLEANUP IN STREAM CHANNEL IS REQUIRED, AN ADFTO PERMIT MUST BE OBTAINED.*

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Douglas R. Peger
State Historic Preservation Officer *

ISCC Jaqueline Michel

EXXON: Edm. Adam

FOSC: C. S. Robbins

Date: 5/30/89

6/7/89

Date: 6/7/89

Date: 6/8/89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

ACE 7237292+15

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/30/89

SHORELINE SEGMENT EB-2

LOCATION: (see enclosed map) Eshamy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/22/89

Recommended Cleanup Activity(ies):

- Manually remove heavy oil which has penetrated to a depth of up to 30cm along the north end of the segment with flooding/hot water or other appropriate means. Flooding/flushing should occur at low to mid tide.

Priorities Considerations:

Class 2: Heavy oil contamination

Class A: Resources present (salmon spawning stream)
Recreational cabins

Ecological Constraints (from site survey): Oiled fucus should be removed. Fish biologist should look at oiled delta. Manually remove oiled mussels. On beaches use large volume, low pressure hot water at mid to high tide. Very low tide operations not recommended.

Anadromous fish species present. Maintain sediment 200ft. If cleanup is done, be careful of salmon. If cleanup is done, be careful of salmon.

Archeological Constraints (from site survey): *change of location*
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Douglas R. Peger
State Historic Preservation Officer *

Date: 5/30/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

ACE 7237293

SHORELINE OIL EVALUATIONDate: 5/22/89 Time: 10:24Observer: Rick GilieSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FogLOCATIONLOCATION ESHAMY BAY SEGMENT NUMBER EB-2LENGTH OF SHORELINE SEGMENT: 1,800 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float PlaneSHORELINE:Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B 20% / C 20% / P 20% / G 10% / S ___% / M ___% / R 30%Drift Debris on Beach: Yes/NoSupra/Upper/Mid/Lower TypeLOGS
FUELSOILDegree of Oiling: Heavy/Moderate/Light/No Oil/UnobservedArea of Beach Impact: SU / SP / H / M / LContinuous: Y/N% of Segment 95Width of Band: 20 m

Sporadic: Y/N

% of Segment _____

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: 20-30 cmPooled Oil: _____% "Free" Oil: _____% Coated: H 60% / M 30% / L 10%Fresh 100% Mousse _____% Tar Formation: _____%Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

- HEAVY OILING OF BEACHES AT NORTH END OF SEGMENT
ON LOW TIDE TO MID-TIDE

ECOLOGICAL EVALUATION

LOCATION: North of Eshamy SITE: on mainland Near S. Crafton I OBSERVER: Greg Chaney
 LOCATION PREFIX: EB SEG. NO.: 2 LENGTH: 1800 (M)
 DATE: May 22 / 89 TIME (HHMM): 11:00 AM TIDE HT.: ~ 0.0 (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Fucus grows high on rocky outcrops but limited to low tide region on beaches

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Mussels found in localized bands where outcrops are stable and at small stream outwash zone

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Barnacles are found in regions of stable outcrops

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Sea Snails pretty common in areas of un-oiled fucus

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets found in oiled zone are easily detached, on clean rocks they hold on tight.

OTHER OBSERVATIONS: Deer tracks observed on beach, small stream has oiled mussel bed on delta & oiled fucus on rocks at high tide line, bear scat at high water line
↳ Not observed

CLEANUP PRECAUTIONS: Oiled fucus should be removed. Fish biologist should

look at oiled delta. Remove mussels with shovel & crow. On beaches use large volume, low pressure hot water at mid to high tide. Very low tide operations not recommended.

MAMMALS: Otters — Harbor Seals — Sea Lions — Whales —
 Other Deer tracks and Bear scat

BIRDS: Eagle observed striking water trying water to catch fish

GENERAL OBSERVATIONS: Stranded Buoy ID# 10064/9D40F near south end of EB, oil sheen at water line, when sun shines & wind is calm strong oil smell present

Oil from mid to high tide:
patches and large patches - mod to heavy

Colide Boulder Bedrock

Fucus mid to high tide range
growth in large patches on bedrock
outcrops 50 to 75% heavily oiled
snails on non oiled Fucus, but missing
from oiled sections

Mussels and barnacles patchy

continuous, mostly closed.

Starfish and clam shells common in
lower tidal areas

Small needle fish found just above
tide water on beach. Lifeless but
no external markings ~ 1000 AM

Due to large # of clam & mussel
shells just above low tide line, may
be sea otter feeding location.

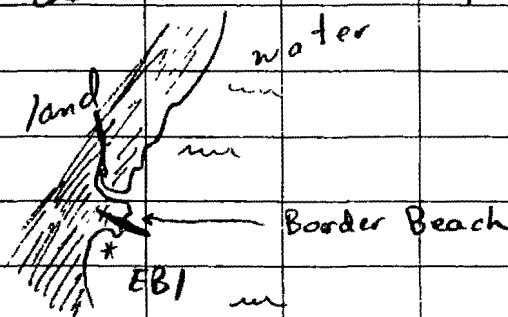
Rec. South portion of EB 1 shall
be cleaned at mid tide or higher

North portion has little biota
& oiling at lower tide reaches

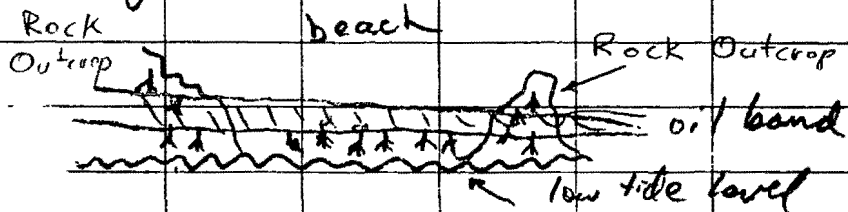
OK to conduct cleanup at low tides

EB 2

11:00 AM



Border Beach between headlands
oiling from mid to lower tide level
sea snails observed on lightly oiled
rocks - fucus on rocky outcrops
but on beach most fucus is
oil free



ACE 7237297

ACE 7237296

Leach, impact appears ~~minimal~~
but focus grows higher on rocky
outcrops and was heavily impacted
in adjacent head lands

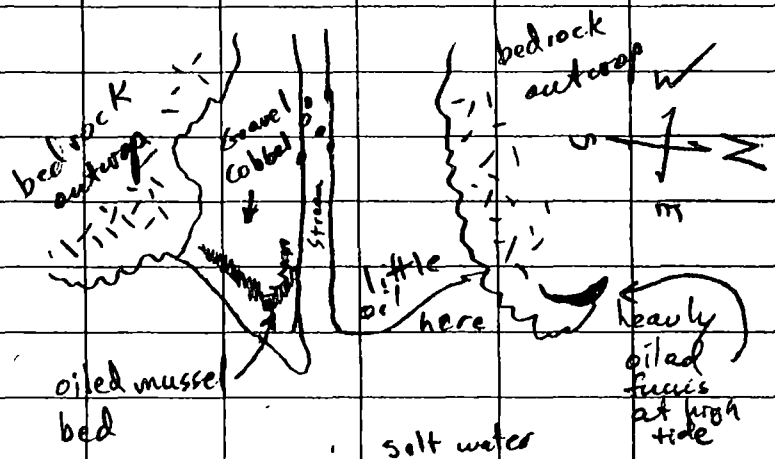
Tracks found on upper portion
of Leach

Stranded Bury I.D. 10064/9D40F
lightly oiled at high tide

Clean up not recommended at
very low tides due to danger
of oiling lowest portion of intertidal

Limpets found in oiled zone easily
detached

Stream at south end of EB 2
Sor bent boom across mouth of stream
mussel bed at stream mouth has
high concentration of oil coating



oil does not appear to have traveled
up stream channel but mussel beds
at delta, high concentration of snails
and limpets

recommended fish biologist examine stream
bed - hand shovel removal of oiled mussels
recommended

no insect tracks observed

TEAM 5

EB1 to FB1

Surveyed May 22 & 23, 1989

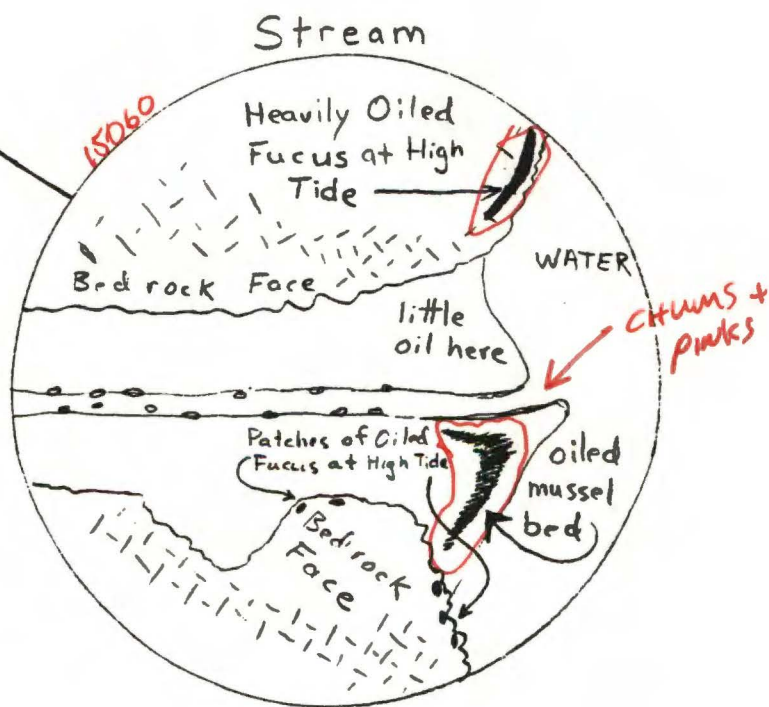
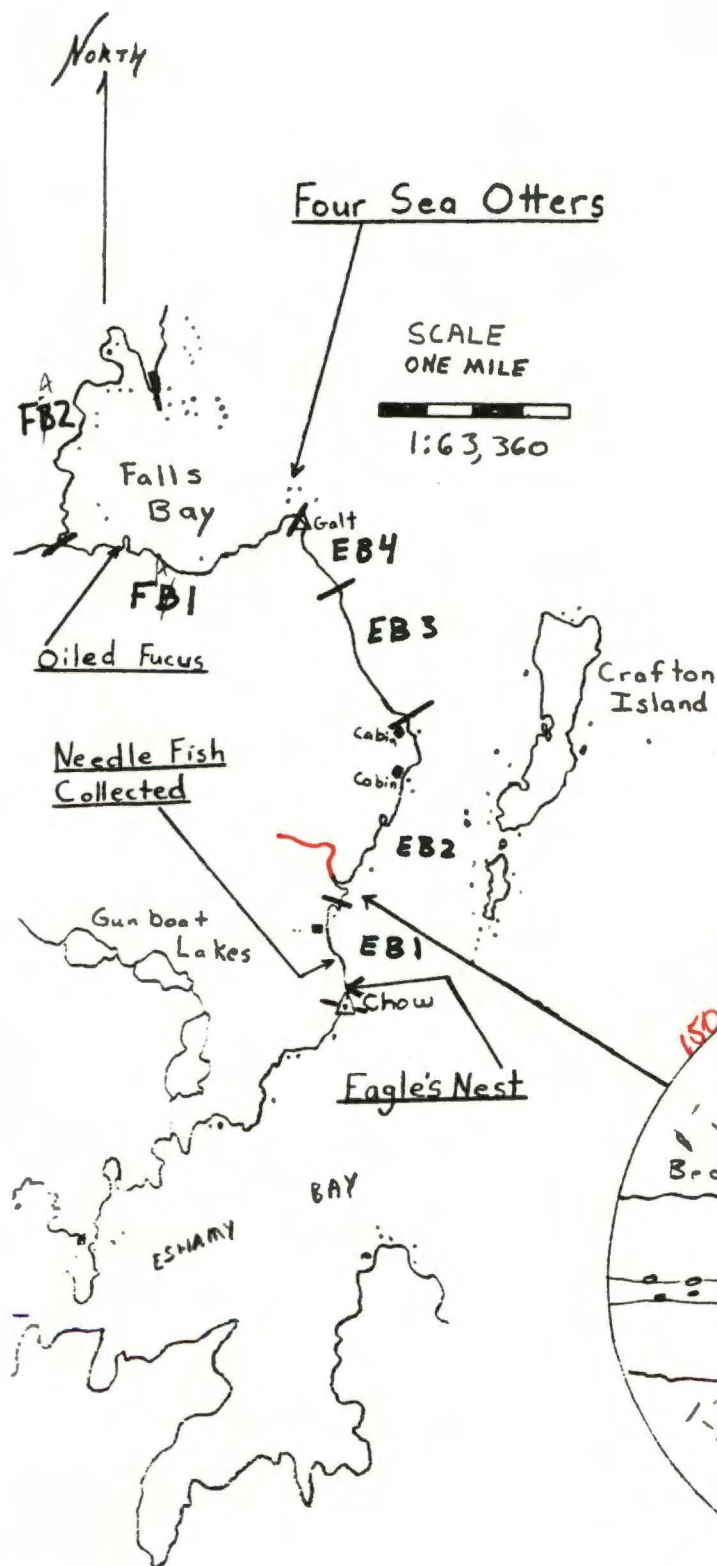
9:00 AM - 1:30 PM; 6:30 PM - 8:30 PM
8:00 AM - 11:30 AM

Scale 1:63,360

Sketch Map Compiled by
Greg Chaney May 22 1989

Base Maps USGS Quads

Seward (B-3) & Seward (C-3)

Based on Aerial Photography
Flown 1950, with updates
from 1982 photography

NORTH OF ESHAMY BAY

TEAM 5

EB1 to ~~FB1~~^A

Surveyed May 22 & 23, 1989

9:00 AM - 1:30 PM; 6:30 PM - 8:30 PM
8:00 AM - 11:30 AM

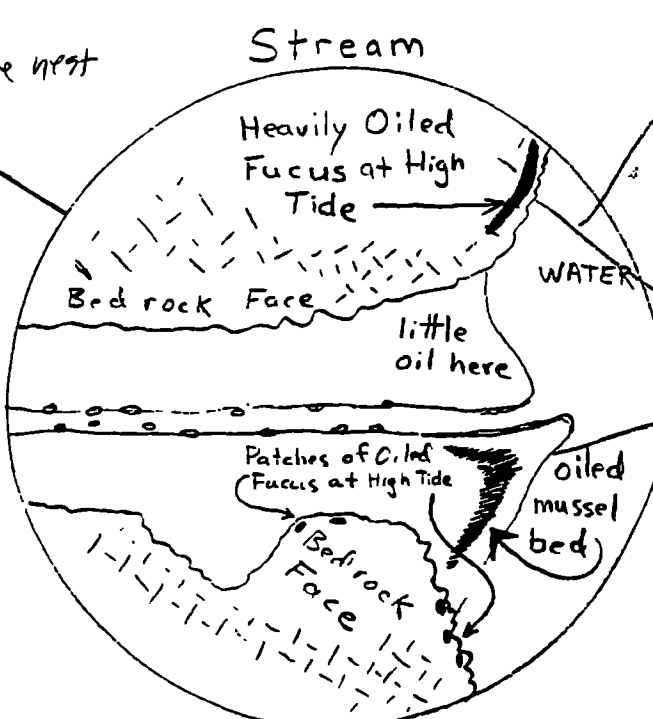
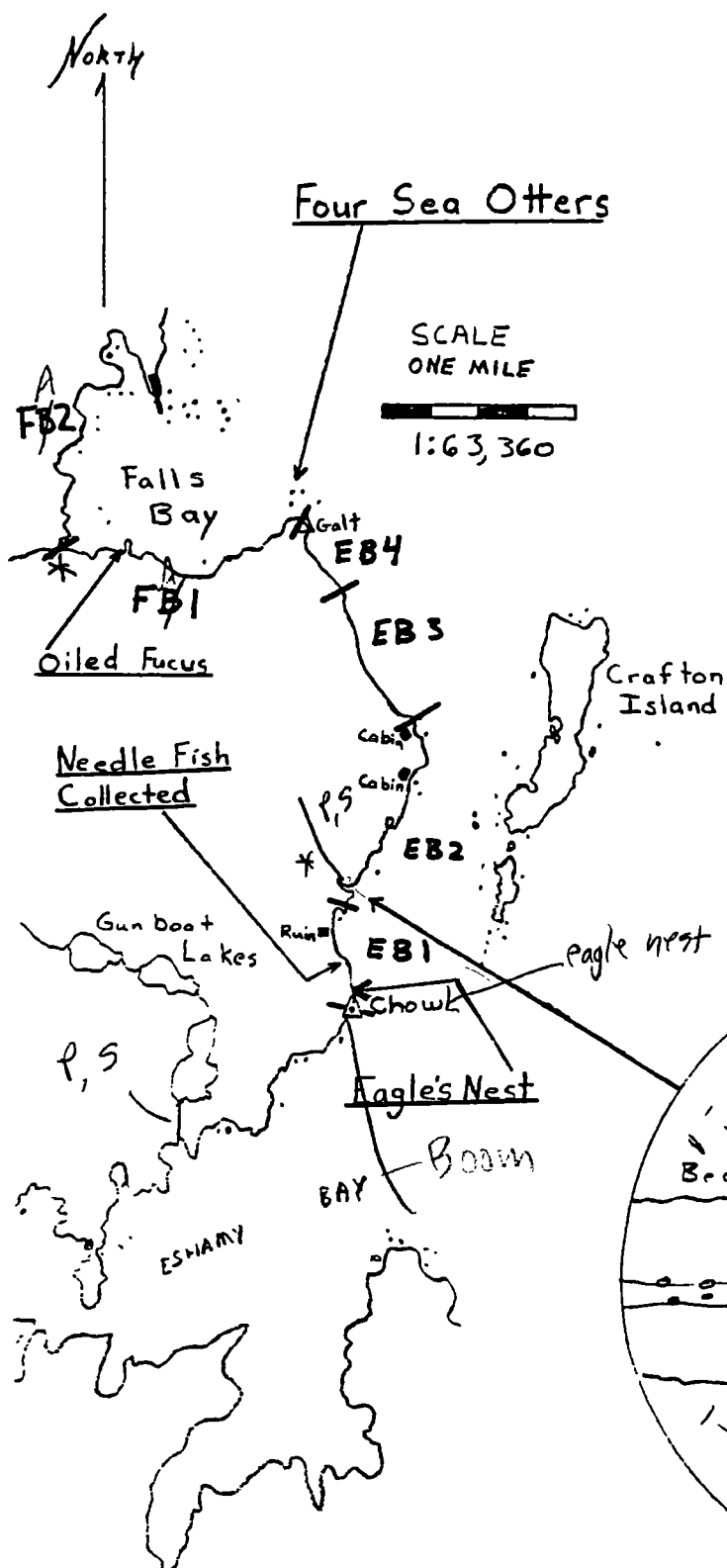
Scale 1:63,360

Sketch Map Compiled by
Greg Chaney May 22 1989

Base Maps USGS Quads

Seward (B-3) & Seward (C-3)

Based on Aerial Photography
Flown 1950, with updates
from 1982 photography



Move water back

No Obvious High Tide

ASSESSMENT OF INTERTIDAL SPAWNING AREAS AFFECTED

BY THE PRINCE WILLIAM SOUND OIL SPILL

NAME: *South Spit* *Crab Island Area* on *Mainland*

USGS MAP: *Seward B-3*

MAP #:

DATE: *4/15*

TIME OF SURVEY: *1425*

LOW TIDE *+2* TIME *1706*

COLLECTORS: *DR KD*

ASC# *225-30-15060*

OIL TYPES PRESENT (1) (2) (3) (4)

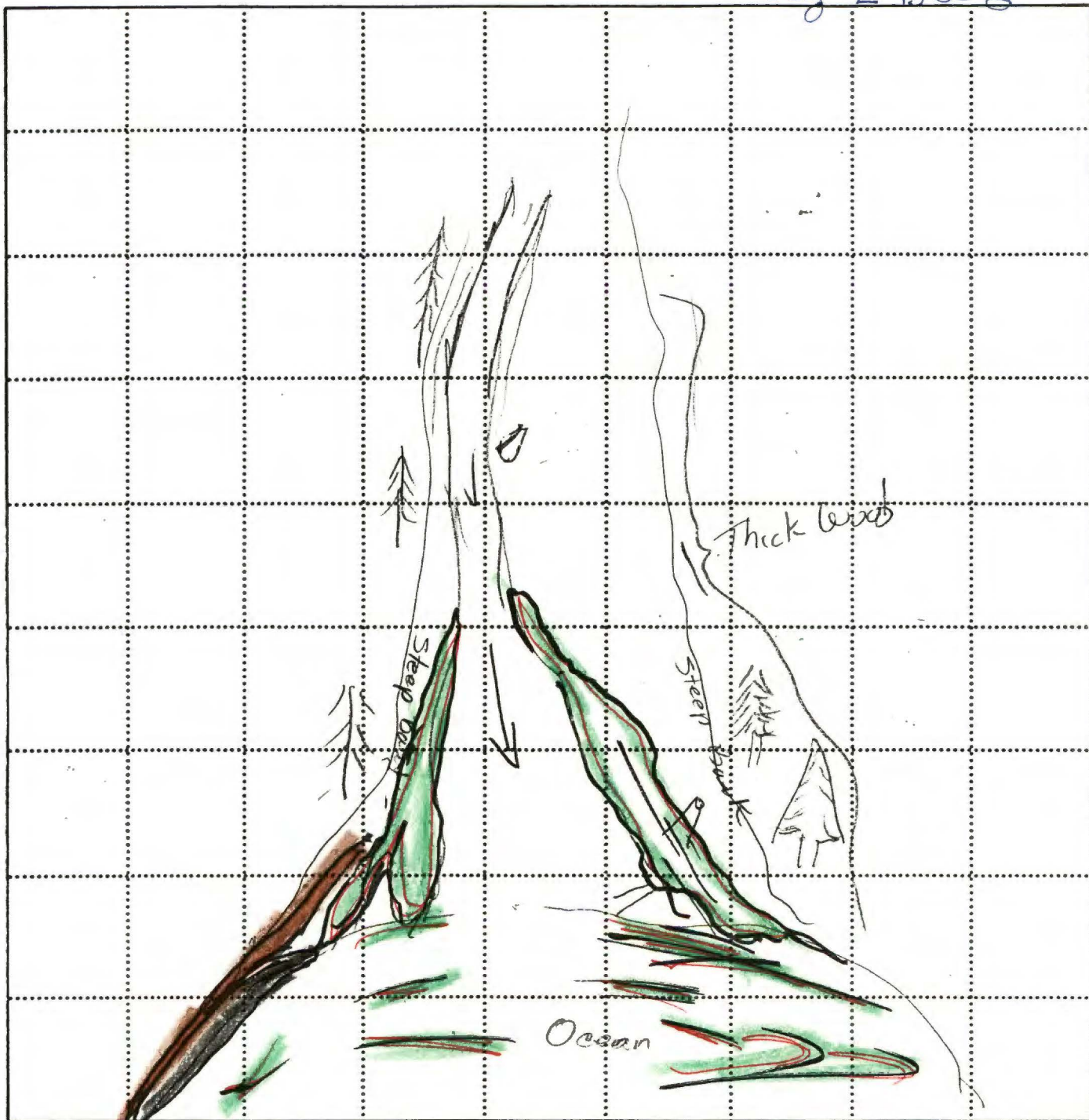
PHOTO #: *24, 25 Roll #2*

STREAM CATALOG #: *15060*

SCALE: ONE GRID EQUALS

seg E B002

NO OIL
SHEEN
MOUSSE
BLACK OIL



COLOR CODE: 1) NO OIL - BLANK 2) SHEEN - GREEN 3) MOUSSE - BROWN 4) BLACK OIL - BLACK

COMMENTS: *OIL Present*

EB-001A ASC: 226-20-15060
Across from Crafton Island
226-30-15060

ACE 1369540 ★

- 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. 5, 1990)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (Fall)
____ '90 Other Documents _____

CATALOG NUMBER: 2262015060
STREAM NAME:
LOCATION:

SEGMENT NUMBER:
SHORELINE TYPE:
DATE: 04/26/90 TIME: -1024

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1							SURFACE	ST	
COMMENTS:									

change to:
225.3015060
Louis Grest

15/42

ANADSCAT-90

ACF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCMA MMS PTA 2 REGION: P-4 KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 9/26/90 15 HIGH TIDE TIMES: 1526 21 TEAM RECORDER: TOM CROW

4 START TIME: 0959 16 HIGH TIDE HTS: 11.2 FT 22 OBSERVERS: MIKE WILSON

5 STOP TIME: 1024 17 LOW TIDE TIMES: 0901 23 AGENCY: ADFFG (ANADSCAT)

6 SEGMENT #: E3001 18 LOW TIDE HTS: -3.6 24 PHOTOS TAKEN: Y 20

7 STATION #: _____ 19 TIDE HT AT SURVEY: -3 Roll #: _____ Frames: _____

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 Number

12 SOURCE: Map Loran 011 _____

13 LOCATION: ACROSS FROM CRAFTON ISLAND Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SKEIN? Y N 15060

37 CATALOG #: 226-20-15060

38 STREAM NAME: LOOMIS CREEK

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: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: NO TREATMENT

Very little stain only.

ACE 7237257

16/42

LIGHT
STAIN

RECOMMENDS: NO TREATMENT

I agree. M H Faurst

4-26-90
LOOMIS CREEK
226-20-15060
EBOO1
ANADSCAT TWC

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: 226-20-15060

SURVEY TYPE:

METHOD:

DATE: 4/26/90

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							ST
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS:

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: EB001
LOCATION: N OF ESHAMY BAY

DATE: 09/11/89
TIME: 13:30

Survey Type: Boat, Ground
Team: G. Pavia, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Fog
Sea State: Calm

Wind Direction: NE
Knots: 0-15

Low Tide: 5:12	Feet: 1.87	High Tide: 11:46	Feet: 9.02
Low Tide: 17:07	Feet: 5.31	High Tide: 23:07	Feet: 11.3

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

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

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 60%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: EB001-1 / EB001-2 / none / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:08

Walk-a-thon

ACE 7237254 +/AC

OPERATIONS FIELD NOTES

See Back for Instructions

13/42

SEGMENT ID ANAD EB-001
 STREAM ID # 226-20-15060
 ANNOTATED MAP INCLUDED Y/N

DATE 4-26-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
	Length	Width	Area		Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY LIGHT AND			NONE						
Medium Band	SPORADICALLY									
Narrow Band	STAINED.									
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL - NONE

Other (Describe)?	

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

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
"Pocket" #1								
"Pocket" #2	NONE							
"Pocket" #3								
Random/Continuous								

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

Is there Other Debris on the Beach? Y/N How Many Bags? — Is it mingled with the Oiled Debris Y/N

GENERAL

Snow covering 0 % of the Supratidal Zone?
 Wave Exposure H/M/L Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

Would the production Craft have to be relocated to complete work on this subdivision? Y/N, # of Times —

COMMENTS:

NO TREATMENT RECOMMENDED FOR THIS STREAM.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EB 001 SUBDIVISION: 15060 DATE 4/26/90

USCG

NAME and McNallen SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFT4

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

15/42

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA KMS PTA

2 REGION: PXS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 9/26/90

15 HIGH TIDE TIMES: 15:26

21 TEAM RECORDER: Tom Crowe

4 START TIME: 0959

16 HIGH TIDE HTS: 11.2 ft

22 OBSERVERS: Mike Wilmer

5 STOP TIME: 1024

17 LOW TIDE TIMES: 0901

23 AGENCY: ADFG (ANADSCAT)

6 SEGMENT #: E8001

18 LOW TIDE HTS: -3.6

24 PHOTOS TAKEN: Y 10

7 STATION #: _____

19 TIDE HT AT SURVEY: -3

Roll #: _____ Frames: _____

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 N Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: ACROSS FROM CRAFTON ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	H ²	%	L	W	H ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL L M H

36 CATALOGED ANAD. FISH STREAM? Y N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

37 CATALOG #: 226-20-15060

32 OILED DEBRIS? Y N

38 STREAM NAME: LOOMIS CREEK

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

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: _____

34 WAVE EXPOSURE: High Moderate Low

43 ANADROMOUS FISH PRESENT? Y N

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

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: No treatment

Very light stain only.

ACE 7237257

16/42

LIGHT
STAIN

RECOMMENDS: NO TREATMENT

I agree. *M H Fawcett*

4-26-90

LOOMIS CREEK

226-20-15060

EB001

ANADSCAT TWC

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 04/1

OG WILLIAM LEID USCG McMAHON SLAMENT ST/ EB001 17/42
 BIO MICHAEL FARWELL LAND REP TOM CROWE ADFG : 5 STREAM 226-20-1000 OF
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 10:00 to 15060
 TEAM NO. 15 TIDE LEVEL -2 FT DATE 26 / APR / 90
 EST. SUBDIVISION LENGTH: 35 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 10 % B 10 % C 30 % P 60 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 90 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 5 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	BR	DR	FW	GY	SL	OR	TL	LR	SU	UR	M	LI
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				X			X							X		
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect

DEBRIS

☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. A5-15-6Frames 19-20

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	T	SURFAC. SUBSURF. SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR	DR	FW	GY	SL	OR	TL	LR	SU	UR	M	LI				
1	30					X	.													X			N		P/S/G
2	25					X	.													X			N		P/S/G
							.																		
							.																		
							.																		
							.																		

COMMENTS

REVIEWED 0 DATE 0

ACE 7237259

18/91

OG WILLIAM REID

SEGMENT ST/ EBOO1

STREAM 226-20-15060

DATE 26 APR 90

CHECKLIST

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

LEGEND

1 ▲

Pit - No Subsurface Oil

2 ▲

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Oiled Vegetation

1 ●→

Photo location, direction, and number

ACE 7237260

SKETCH MAP

CLIFF

STS

SMOUT TRAP

141

151

11

STS

CLIFF

Film A5-15-6

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

REVISION:03/24/90

19/42

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-20-
SEG ID: EB001 SUBDIV: 15060 TEAM: AS-15 SURVEY DATE: 4/26/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 35 OIL CATEGORY: W 0 M 0 N 0 VL 5 NO 30 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 10 COB 30 PEB 60 GRN 0 SAN 0 MUD 0 VEG 0

CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: — 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 —

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 —

ACE 7237261

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: EB001 SUBDIV: 226-20-15060

PIT # 1 PIT DEPTH 30 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X MUD — VEG —

PIT # 2 PIT DEPTH 25 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X 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: —

Segment EB001
Stream 226-20-15060
Ecological Summary

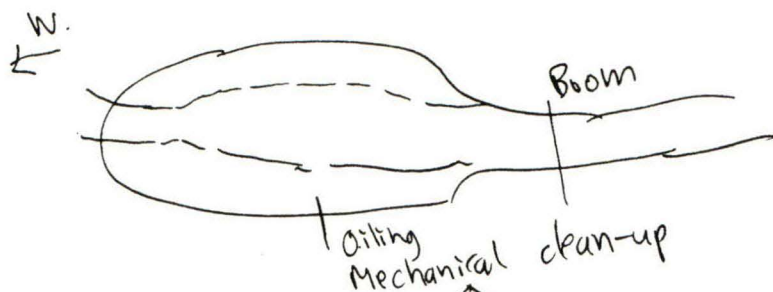
4/26/90
Michael Fawcett

This is a medium-size stream with a shale boulder/cobble/pebble delta. A dense bed of mussels (100% cover) exists among pebbles and cobbles in the MTZ. Otherwise, biota are sparse, as the beach sediments are relatively unstable except where stabilized by the mussels. There are sparse *Fucus* and barnacles along the stream. A&F & G is presently operating a weir to catch outgoing smolts. Numerous pink salmon fry were seen in the trap. Remaining oil consists mostly of a few stains. No cleanup recommended.

M. Fawcett

Left Valdez at 0:20 a.m. in a chopper with Carl U. Aggar, Hugach Alaska Corp. It was clear in Valdez Arm, then very foggy ^{1/2 of the} between the mainland and on the east side of Naked and Knight Islands.

Confirmed oil distribution in West Arm, Bay of Isles at low tide (-2.0'). Observed 1 oiled ^{adult} seal in the lagoon. Oiling in the upper intertidal zone is in quantities where mechanical treatment could be used $\approx$ 300' away from the end of the defined channel. The channel has good spawning gravels in the lower IIZ at the mouth.



Oiling is at high tide line, so would have to be worked at high tide due to steep beach.

Stopped at SW Herring Bay and did a stream transect perpendicular to the stream. Also developed strips for the A.S. Title 16 for the stream.

Stopped at segment EB-9 in S. Eshamy Bay. No oiling was evident adjacent to the stream in the S. end of the cove, with the exception of oiled Fucus in the high tide storm berm (also 1 dead, v. oiled bird) W. of the stream and ^{very} spotty tar balls. The substrate adjacent to the stream and along the cove to the east was very muddy. We observed numerous worm holes, eelgrass band, a diatom/Enteromorpha coating, and several Dungeness crab molts.

We flew the S. shore of Eshamy and observed light oiling. We stopped at the stream mouth in EB-1. The SRA reports of an

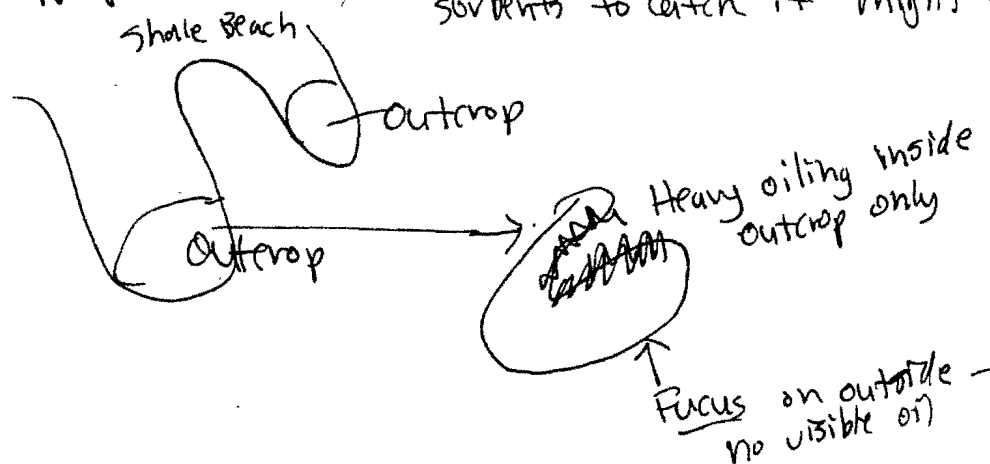
6/6/89
Mainly Sigm...
Eshamy Yanagawa
Loomis Creek

oiled mussel bed in the Tioapian (which may have been too high) and oiled Fucus at high tide were not confirmed. The stream is in a steep-sided cut and has a boom across it. If ~~mussels~~ ^{manual} heavily-oiled mussels are confirmed, removal would be acceptable.

We stopped on the N. shore of Main Bay where heavy oiling was reported in the SCAT report. The shale-type beach appeared clean ~~etc~~ (no visible oil) but, instead a thin layer of clean shale was above a layer of sticky, oiled shale where small rock particles were adhering and

The high-tide line had moved mixed w/ debris + shale. Flush may cause problems of shale beach.

beginning to form asphalt. This is probably an effect of the recent storm. A rock outcrop was oiled heavily in a sheltered portion. The Fucus was especially oiled and appeared dead. Removal would be appropriate in such a small area. Also steaming + sorbents to catch it might work.



The band of Fucus at the high ~~ITZ~~ appeared oiled along the n. shore. Some small tar balls were forming.

We flew across the s. end of Culross Island. Sand/gravel beaches had a bathtub ring and an oily Fucus/debris line at high tide.

Dropped off pre-assessments for Ocean + Tongass Ranger
Back at 4:30 p.m.

Marilyn Sigman

OPERATIONS FIELD NOTES

See Back for Instructions

13/42

SEGMENT ID ANAD EB-001
 STREAM ID # 226-20-15060
 ANNOTATED MAP INCLUDED Y/N

DATE 4-26-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
					Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY LIGHT AND			NONE						
Medium Band	SPORADICALLY									
Narrow Band	STAINED.									
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL - NONE

Other (Describe)?	

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

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

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

Is there Other Debris on the Beach? Y/N How Many Bags? — Is it mingled with the Oiled Debris Y/N

GENERAL Snow covering 0 % of the Supratidal Zone?

Wave Exposure H/M/L Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

Would the production Craft have to be relocated to complete work on this subdivision? Y/N # of Times —

COMMENTS:

NO TREATMENT RECOMMENDED FOR THIS STREAM.

ACE 7237266+15

14/42

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EB 001 SUBDIVISION: 15060 DATE 4/26/90

USCG

NAME and McNallen SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFT4

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

15/42

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA 2 REGION: PSE XP, CI K, AP
METHOD: Aerial Ground Boat
3 DATE: 4/26/90 15 HIGH TIDE TIMES: 1526 21 TEAM RECORDER: TOM CROW
4 START TIME: 0959 16 HIGH TIDE HTS: 11.2 FT 22 OBSERVERS: MICHA WILSON
5 STOP TIME: 1024 17 LOW TIDE TIMES: 0901 23 AGENCY: ADFG (ANADSLAT)
6 SEGMENT #: EB001 18 LOW TIDE HTS: -3.6 24 PHOTOS TAKEN: Y (N)
7 STATION #: _____ 19 TIDE HT AT SURVEY: -3 Roll #: _____ Frames: _____
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) Number
12 SOURCE: Map Loran Oil _____
13 LOCATION: ACROSS FROM CRAFTON ISLAND Sediment _____
14 DESCRIPTION: _____ Biological _____
Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N (VL) L M H
31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain
32 OILED DEBRIS? Y (N)
33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh
34 WAVE EXPOSURE: High Moderate Low
35 SUBSTRATE TYPE: Bedrock ✓ Boulder ✓ Cobble ✓
Gravel ✓ Sand ✓ Mud/silt ✓

36 CATALOGED ANAD. FISH STREAM? (Y) N
37 CATALOG #: 226-30-15060
38 STREAM NAME: LOOMIS CREEK
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: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS:

NO TREATMENT

Very light stain only.

ACE 7237268

16/42

LIGHT
STAIN

RECOMMENDS: NO TREATMENT

I agree. M H Fawcett

4-26-90
LOOMIS CREEK
226-20-15060
EBOO1
ANADSCAT TWC

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 04/1

OG WILLIAM LEM USCG McMAHON SEGMENT ST/ EB001 17/42
 BIO MICHAEL FAWCETT LAND REP TOM GROVE ADFG STREAM 226-20-1500 OF
 EXXON CUS GARCIA ADFG MIKE WIEDMER TIME 10:00 TO 12060
 TEAM NO. 15 TIDE LEVEL -2 FT DATE 26 / APR / 90
 EST. SUBDIVISION LENGTH: 35 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 10 % B 10 % C 30 % P 60 % G 0 % S 0 % M 0 % V
 SLOPE: Long 10 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 5 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	TC	FB	FP	FS	BR	OR	OL	OF	NO	CM	CR	CU	SU	U	M	LI
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect

DEBRIS

☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. A5-15-6Frames 19-20

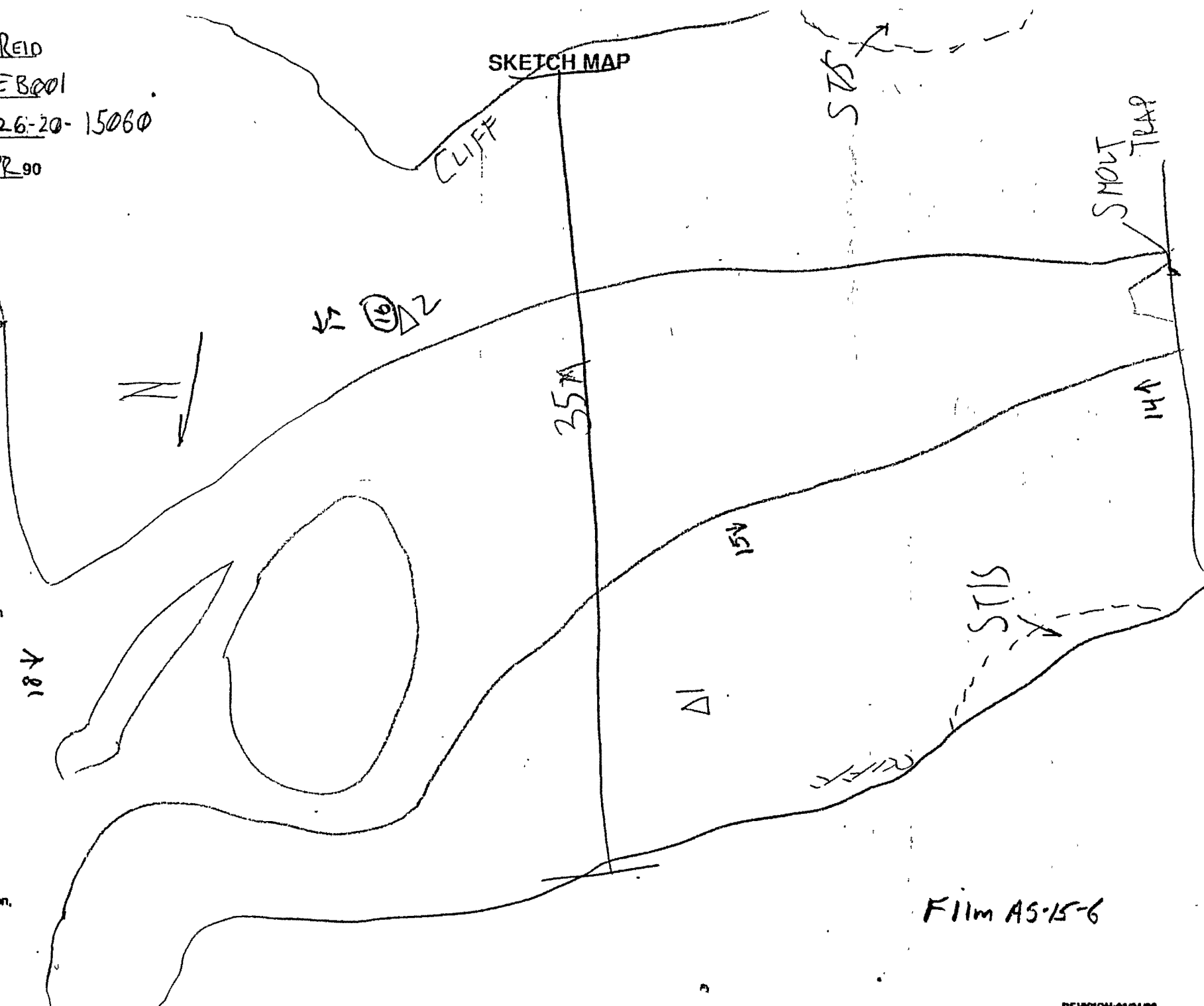
SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CK)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	T	SURFAC SUBSURF SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR	OR	OL	OF	NO	CM	CR	CU	SU	U	M	LI				
1	30						X																N		P/S/G
2	25						X																N		P/S/G

COMMENTS

REVIEWED 0 DATE 0

ACE 7237270



19/42

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-20-
SEG ID: EB001 SUBDIV: 15060 TEAM: A5-15 SURVEY DATE: 4/26/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 35 OIL CATEGORY: W 0 M 0 N 0 VL 5 NO 30 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 10 COB 30 PEB 60 GRN 0 SAN 0 MUD 0 VEG 0

CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: — 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 —

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 —

ACE 7237272

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: EB001 SUBDIV: 226-20-15060

PIT # 1 PIT DEPTH 30 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X MUD — VEG —

PIT # 2 PIT DEPTH 25 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X 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: —

Segment EB001
Stream 226-20-15060
Ecological Summary

4/26/90
Michael Fawcett

This is a medium-size stream with a shale boulder/cobble/pebble delta. A dense bed of mussels (100% cover) exists among pebbles and cobbles in the MTZ. Otherwise, biota are sparse, as the beach sediments are relatively unstable except where stabilized by the mussels. There are sparse *Fucus* and barnacles along the stream. AAF & G is presently operating a weir to catch outgoing smolts. Numerous pink salmon fry were seen in the trap. Remaining oil consists mostly of a few stains. No cleanup recommended.

M Fawcett

Alaska Department of Fish and Game

ANADSCAT Observations and Recommendations
Team 15 - Michael Wiedmer and Tom Crowe

26 April 1990

ASC # 226-20-16180

Segment CH-002

Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove. Southeast of the channel, mousse patties are broadly scattered through the intertidal zone. Northwest of the channel, heavy tar occurs throughout the upper- and mid-intertidal zone. A large portion of the tar in this area is buried by a mobile gravel berm. In the supra-tidal zone, a grassy area contains intermittent tar patties.

Treatment Recommendations Manually remove all tar mats and patties. Uncover the tar mats buried by the gravel berm and manually remove oil. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-15060

Segment EB-001

Observations The only oil observed at the site was a very light stain in a small upper-intertidal area south of the channel.

Treatment Recommendations No treatment is required.

ASC # 226-20-15044

Segment MA-009

Observations The intertidal portion of this site is composed of a very unstable, mobile gravel substrate. No oil was observed either surface or subsurface.

Treatment Recommendations No treatment is recommended.

3/42

ASC # 226-40-16610

Segment EV-027

2 Observations A sporadic band of tar patties rings the high tide line adjacent to the two widely spaced mouths of this one stream. No subsurface oil was observed.

Treatment Recommendations Manually remove all tar patties.

15060

N

OILING

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

ACE 72

ACE 7237277 -L/AC/FF

~~MEMO'S~~ EB 007
225-30-15070

SEGMENT SUMMARY

EB-7

OCTOBER 22, 1989

DRAFT

Beach segment EB-7 is located in Eshamy Bay in Prince William Sound. This segment was SCAT'ed on May 27, 1989. The SCAT report was recommended for approval by the ISCC on June 7, 1989. The SCAT archaeologist recommended that there be no treatment on this segment. The FOSC approved the treatment plan on June 8, 1989.

There are no Daily Shoreline Assessment forms on file for this segment.

ADEC Inspector Denny Timmons signed off this segment on August 4, 1989. Timmons wrote that reassessment was necessary and he concurred with the USCG percentages of oiling and with demobilization. USCG Inspector A.J. Smith wrote that the segment contained 2% medium oil, 2% light oil, 96% no oil, reassessment was necessary, and there was no gross contamination.

A post-treatment assessment of this segment was conducted on September 11, 1989. At that time there was very light to no oiling. The maximum thickness of the oil was 1mm. The oil present was tarry and stain and the high and mid-tidal areas. There was an unspecified amount of debris on the beach.


Lea Ann Robinson

ADEC Post-Treatment Survey Form

SEGMENT SURVEY (#EB007)

Date: 9/11/89 Time: 1930 Location: Esthony Bay

Team members Bob McCreedy - Gene Pavin
Survey type: boat / ground // helicopter / floatplane

WEATHER / SEA CONDITIONS

Low tide: (time/height) 1701 / +5.3 High tide: (time/height) 2344 - 9.5
Weather: (sunny - cloudy - rain - fog - snow)
Sea: (rough - moderate - calm) Wave height: 0 ft.
Wind direction: (N-NE-E-SE-S-SW-W-NW) calm 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:

heavy = > 50% coverage of the intertidal zone

moderate = 10 - 50%

light = < 10%

very light = < 1%

none

> 6m

3-6m

1-3m

< 1m

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

Surface coverage, continuous: (y/n) _____

Max. thickness: 1 mm Max. penetration: H _____ cm M _____ cm L _____ cm

Average oil coverage: 1 % 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) N/A Birds: (dead) N/A

SOLID WASTE LEFT ON SHORE:

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

Number of bags collected: 12

EB 007

SAMPLE INFORMATION

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

1. _____ (oss-obs)
2. _____ (oss-obs)
3. _____ (oss-obs)
4. _____ (oss-obs)

No samples taken due to very light oiling

PHOTO INFORMATION

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

- | | |
|--|-----------|
| 1. <i>EB007 BENGALIA 5/24/16 - Headland/Rock</i> | 11. _____ |
| 2. <i>" 24-17 - Very light Tar Patch</i> | 12. _____ |
| 3. <i>" 24-18 - Tar Patch</i> | 13. _____ |
| 4. <i>" 24-19-24 Overlaid EB007</i> | 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 #)

Water on left. Some problem encountered regarding variance of scale between maps making orientation difficult.

Very light oil (i.e. tar splats, sheen, staining and a minimal amount of mousse). At beginning of segment a salmon stream was apparent - framed off. Also here was a water pumping station and a floating dead. Between salmon stream and next major headland - inspection done by ship. This was also true for approx the last 500 meters of the segment due to steep rocky headlands.

Intermittent Segment characteristics: Boulder/coral boulders and rocky headlands. One exception was a narrow lagoon with a marsh at its head - oil grass, fine sediment present - no oil present at this beach.

Signature

Pat H. M. J.

Date

9-11-89

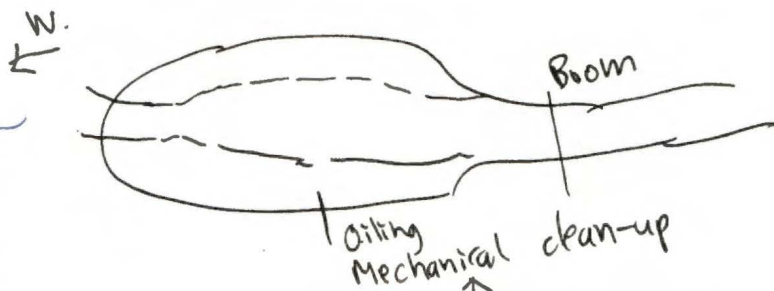
Stream #225-30-15140
EB-9 S. Eshamy Bay

ACE 1369542



Carl Yanagawa, Chugach Alaska Corp. Day was clear in Valdez Arm, then very foggy between the mainland and on the east side of Naked and Knight Islands.

Confirmed oil distribution in West Arm, Bay of Isles at low tide (-2.0'). Observed 1 oiled seal in the lagoon. Oiling in the upper intertidal zone is in quantities where mechanical treatment could be used $\approx 300'$ away from the end of the defined channel. The channel has good spawning gravels in the lower IIZ at the mouth.



6/6/89
M. Yanagawa
w/c. Yanagawa,
CAC

Oiling is at high tide line, so would have to be worked at high tide due to steep beach.

Stopped at SW Herring Bay and did a stream transect perpendicular to the stream. Also developed strips for the A.S. Title 16 for the stream.

225-30-15140
Stopped at segment EB-9 in S. Eshamy Bay. No oiling was evident adjacent to the stream in the S. end of the cove, with the exception of oiled Fucus in the high tide storm berm (also 1 dead, v. oiled bird) w. of the stream and ^{very} spotty for balls. The substrate adjacent to the stream and along the cove to the east was very muddy. We observed numerous worm holes, an eelgrass band, a diatom/Enteromorpha coating, and several Dungeness crab molts.

We flew the S. shore of Eshamy and observed light oiling. We stopped at the stream mouth in EB-1. The SAT reports of an