

CU-007 ASC 13010
S.E. COASTLINE OF CULROSS ISLAND

ACE 1369531



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



ADF&G MULTI-ASSESSMENT DATA FORM

Pre-ANADSCAT-90

AJW

1 SURVEY TYPE: BS ☒ SS ☐ DS ☐ TS ☐ AVS ☐ SCHA ☐ MMS ☐ PTA2 REGION: ☒ PWS ☐ KP, CI ☐ K, APMETHOD: Aerial ☒ Ground ☐ Boat

3 DATE: 4-13-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Crista

4 START TIME: 1005

16 HIGH TIDE HTS: 1

22 OBSERVERS: B. Ceman

5 STOP TIME: 1015

17 LOW TIDE TIMES: 1

23 AGENCY: Exxon

6 SEGMENT #: C4 007

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#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y ☒ N ☐ Number

12 SOURCE: Map Loran

13 LOCATION: Culross Is.

14 DESCRIPTION: East side

Oil

Sediment

Biological

Water

EXTENT OF OIL

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

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/silt ☐36 CATALOGED ANAD. FISH STREAM? ☒ Y ☐ N

37 CATALOG #: 13010

38 STREAM NAME:

39 OIL IN STREAM BED? Y ☒ N ☐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 ☐ N

Where: Upper inter tidal

43 ANADROMOUS FISH PRESENT? ☒ Y ☐ N44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

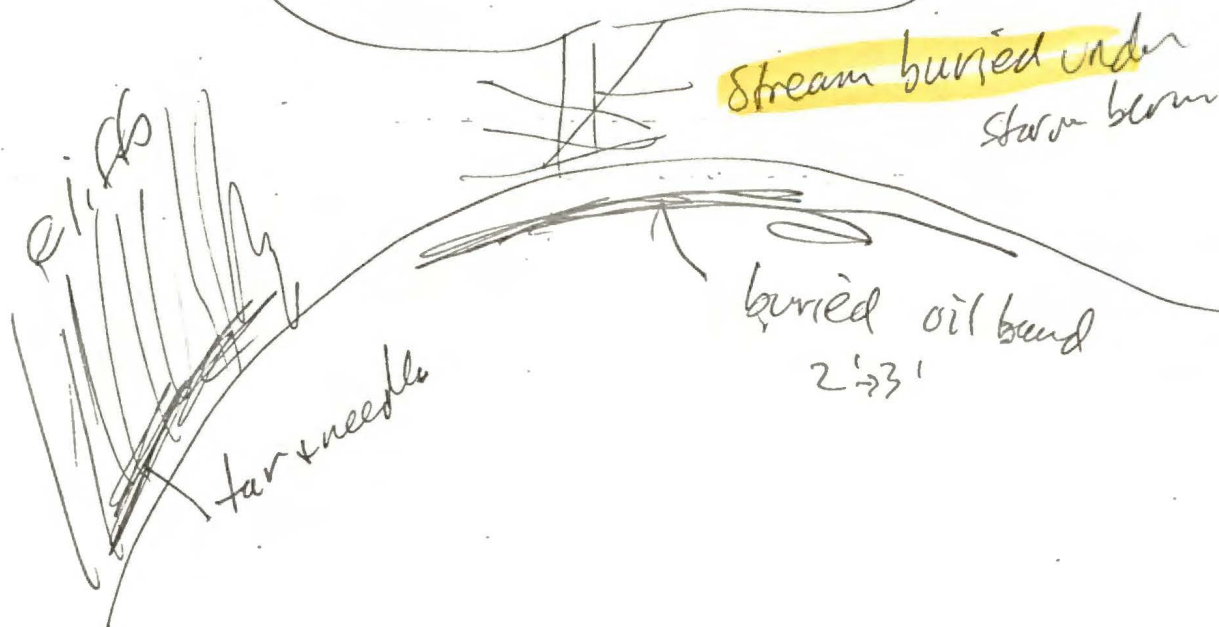
COMMENTS: Oil buried in intertidal storm-berm
2-3 feet down. Oil on bedrock impregnated
with pine needles.

slam / possible excavation (marginal)

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



4-13-90

CU 007 AJW

224-20-13010

Sample taken
Photo frame # and
shot direction.

ACE 7236812 -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: 224-20-13010

SURVEY TYPE:

METHOD:

DATE: 4/13/90

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.
4.2.
5.3.
6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							CT/CV
SITE 2						60	OR
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:



ALASKA DEPT. OF
FISH & GAME

ANADSCIT-90

J.R.

ADF&G MULTI-ASSESSMENT DATA APR 30 1990

1 SURVEY TYPE: BS SS CS TS AVS SC-HA MMS PTA

2 REGION: PNB

KP, CI

K, AP

METHOD:

Aerial

Ground

Boat

HABITAT DIVISION

3 DATE: 4-26-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R Gustafson

4 START TIME: 1111

16 HIGH TIDE HTS: 1

22 OBSERVERS: A. W. Wiseman

5 STOP TIME: 1130

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEGMENT #: C4007

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: 90AS W 002555

8 K-UNIT: _____

Ebb Slack Flood Slack

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

9 STAT AREA: _____

20 USCG QUAD: SC3

Start: 0745 End: 0829

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number _____

12 SOURCE: Map Loran

Oil _____

13 LOCATION: SE Culross I.

Sediment _____

14 DESCRIPTION: NORTH of Applegate Island

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE				<u>1%</u>				<u>0</u>

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 274-20-13010

38 STREAM NAME: _____

28 SURFACE THICKNESS 1mm

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 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

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 20

Gravel 50% Sand 30 Mud/silt

Species Aerial Ground

COMMENTS: Oil appears to have been broken up and self cleaned.
Some stain - left in cliff band on south side of stream.
Upper intertidal only.

ACE 7236797+15

DESCRIPTION

pt 1 30 mm m.o.t

Recommendations No treatment Required

48 OIL DISTRIBUTION DIAGRAM

band appears

barn over
shearstair
needlecliff
band

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL: S
SHORELINE TYPE:	ALL SEGMENTS:	

ASC NUMBER: 224-20-13010
 SURVEY TYPE:
 METHOD:
 DATE: 4/26/90
 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.
 4.

2.
 5.

3.
 6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							ST/CT
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:

CATALOG NUMBER: 2242013010 SEGMENT#: CU007 LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/13/90	PRE-ANADS CAT	1	SURFACE			CT CV	
04/13/90	PRE-ANADS CAT	2	SUBSURF		100	OR 60-100	OIL BAND BURIED IN STORM BERM BELOW 2-3 FT. STREAM FLOWS THROUGH THIS BERM.

MAD vs. OG:

COMMENTS:

OIL BURIED IN INTERTIDAL STORM BERM 2-3 FEET DOWN. OIL ON BEDROCK IMPREGNATED WITH PINE NEEDLES. STREAM BURIED UNDER STORM BERM. OIL ON STREAM BANKS.

RECOMMENDATIONS: STEAM/POSSIBLE EXCAVATION (MARGINAL)

CATALOG NUMBER: 2242013010 SEGMENT#: CU007 LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/26/90	ANADSCAT	1	SURFACE		.1	ST CT	EAST SIDE: STAIN AND TAR-COATED NEEDLES ALONG CLIFF.

MAD vs. OG:

COMMENTS:

OIL APPEARS TO HAVE BEEN BROKEN UP AND SELF CLEANED. SOME STAIN - LEFT ON CLIFF BAND ON SOUTH SIDE OF STREAM. UPPER INTERTIDAL ONLY. NO OIL ON STREAM BANKS.

RECOMMENDATIONS: NO TREATMENT REQUIRED.

CATALOG NUMBER: 2242013010 SEGMENT#: CU007 LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/26/90	OG'S ANADSCAT	1	.5 x 10 SURFACE	51-90		ST	EAST SIDE: MITZ - BROKEN STAIN.
04/26/90	OG'S ANADSCAT	2	6 x 6 SURFACE	1-10		TB ST	EAST SIDE: MITZ - SPLASHES OF TAR BALLS AND STAIN.

04/26/90	OG'S ANADSCAT	3	SUBSURF		NONE	1 PIT DUG IN UITS - NO OIL OBSERVED.
MAD vs. OG: MAD DOES NOT MENTION 6X6 TB/SPLASHES, OG DOES COMMENTS:						

CATALOG NUMBER: 2242013010		SEGMENT#: CU007		LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/13/90	PRE-ANADS CAT	1	SURFACE			CT CV	
04/13/90	PRE-ANADS CAT	2	SUBSURFACE		100	OR 60-100	OIL BAND BURIED IN STORM BERM BELOW 2-3 FT. STREAM FLOWS THROUGH THIS BERM.

MAD vs. OG:

COMMENTS:

OIL BURIED IN INTERTIDAL STORM BERM 2-3 FEET DOWN. OIL ON BEDROCK IMPREGNATED WITH PINE NEEDLES. STREAM BURIED UNDER STORM BERM. OIL ON STREAM BANKS.

RECOMMENDATIONS: STEAM/POSSIBLE EXCAVATION (MARGINAL)

CATALOG NUMBER: 2242013010		SEGMENT#: CU007		LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/26/90	ANADSCAT	1	SURFACE		.1	ST CT	EAST SIDE: STAIN AND TAR-COATED NEEDLES ALONG CLIFF.

MAD vs. OG:

COMMENTS:

OIL APPEARS TO HAVE BEEN BROKEN UP AND SELF CLEANED. SOME STAIN - LEFT ON CLIFF BAND ON SOUTH SIDE OF STREAM. UPPER INTERTIDAL ONLY. NO OIL ON STREAM BANKS.

RECOMMENDATIONS: NO TREATMENT REQUIRED.

CATALOG NUMBER: 2242013010		SEGMENT#: CU007		LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/26/90	OG'S ANADSCAT	1	.5 x 10 SURFACE	51-90		ST	EAST SIDE OF STREAM - MITZ - BROKEN STAIN.
04/26/90	OG'S ANADSCAT	2	6 x 6 SURFACE	1-10		TB ST	EAST SIDE OF STREAM - MITZ - SPLASHES OF TAR BALLS AND STAIN.

DATE PRINTED: 10/17/91

NON-DUCK STREAMS

PAGE 34

04/26/90	OG'S ANADSCAT	3	<u>SUBSURFACE</u>	NONE	1 PIT DUG IN UITZ - NO OIL OBSERVED.
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MAD vs. OG: MAD DOES NOT MENTION 6X6 TB/SPLASHES, OG DOES
COMMENTS:

CATALOG NUMBER: 2242013010 STREAM NAME: LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE						SEGMENT NUMBER: CU007 SHORELINE TYPE: <i>cove</i> DATE: 04/13/90 TIME: COVE -1015				
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS	
1 2						<i>2-3ft</i>	SURFACE SURFACE	CT CV OR	<i>- oil band buried in storm berm - 2-3 feet down stream flows through this berm</i>	
COMMENTS: OIL BURIED IN INTERTIDAL STORM BERM 2-3 FEET DOWN. OIL ON BEDROCK IMPREGNATED WITH PINE NEEDLES. STREAM BURIED UNDER STORM BERM. RECOMMENDATIONS: STEAM/POSSIBLE EXCAVATION (MARGINAL) STREAM BANKS: YES MILE OF STREAM: YES, UPPER INTERTIDAL OIL ON OIL WITHIN 1										

CATALOG NUMBER: 2242013010 STREAM NAME: LOCATION: CULROSS ISLAND, SOUTHEAST COASTLINE						SEGMENT NUMBER: CU007 SHORELINE TYPE: <i>cove</i> DATE: 04/26/90 TIME: COVE -1130				
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS	
1					<i>1mm</i>		SURFACE	ST CT	<i>east side of stream - stinky tarcoated needles along cliff</i>	
COMMENTS: OIL APPEARS TO HAVE BEEN BROKEN UP AND SELF CLEANED. SOME STAIN - LEFT ON CLIFF BAND ON SOUTH SIDE OF STREAM. UPPER INTERTIDAL ONLY. RECOMMENDATIONS: NO TREATMENT REQUIRED. STREAM BANKS: NO MILE OF STREAM: YES OIL ON OIL WITHIN 1										

ADF&G MULTI-ASSESSMENT DATA FORM

ADW
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. Cruta4 START TIME: 100516 HIGH TIDE HTS: 122 OBSERVERS: B. Clemen5 STOP TIME: 101517 LOW TIDE TIMES: 123 AGENCY: Exxon6 SEGMENT #: C4 00918 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

011

13 LOCATION: Culross Is.

Sediment

14 DESCRIPTION: East side

Biological

Water

EXTENT OF OIL

SHORELINE

STREAM

L

W

M²

%

L

W

M²

%

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 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/silt /36 CATALOGED ANAD. FISH STREAM? (Y)37 CATALOG #: 224-20 ADW
13010

38 STREAM NAME:

39 OIL IN STREAM BED? Y (N)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

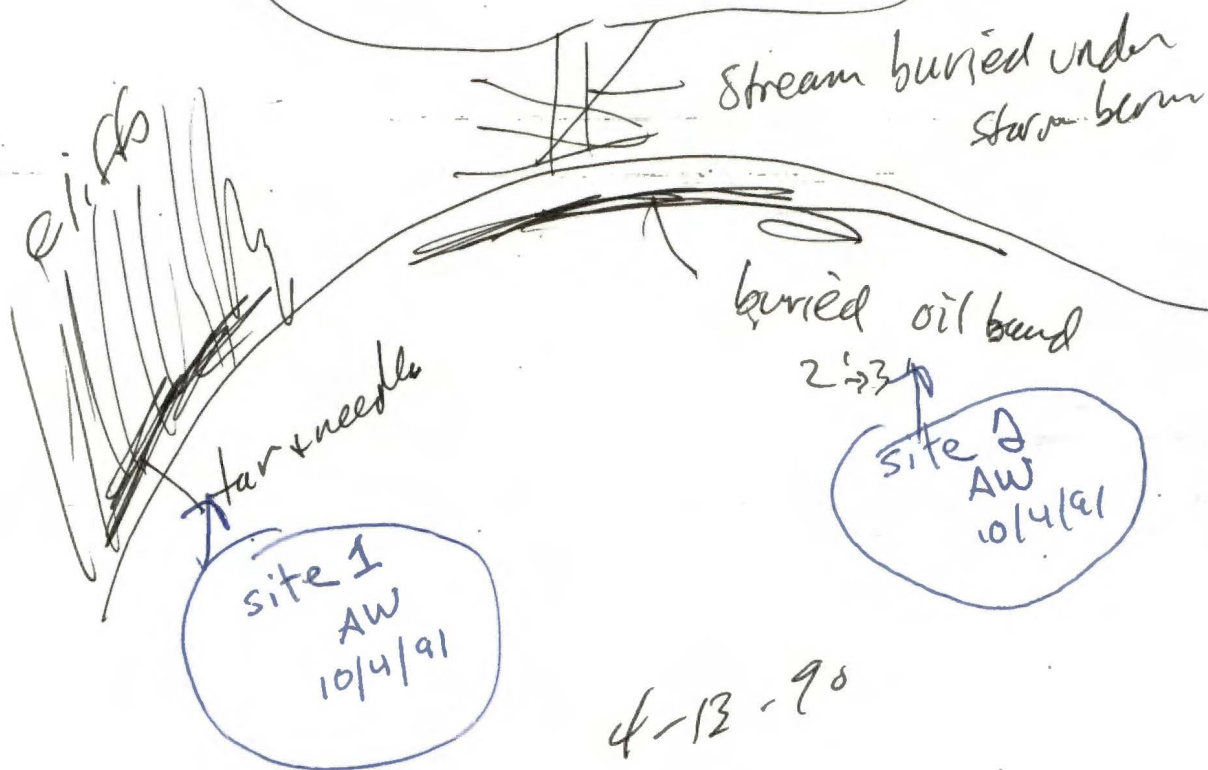
Species Aerial Ground

COMMENTS: Oil buried in inter tidal storm-berm2-3 feet down. Oil on bedrock impregnated
with pine needles.Shallow / possible excavation (marginal)

ACE 7236811+1S

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

Sample taken
Photo frame # and
shot direction.

ACE 7236812 -15

ALASKA DEPT. OF
FISH & GAME

ADF&G MULTI-ASSESSMENT DATA APR 30 1990

J.R.

1 SURVEY TYPE: ES SS DS TS AVS SCBA MMS PTA

2 REGION: PN KP, CI K, AP

METHOD: Aerial Ground Boat

HABITAT DIVISION

3 DATE: 4-26-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R Gusten

4 START TIME: 1111

16 HIGH TIDE HTS: 1

22 OBSERVERS: A. Williams

5 STOP TIME: 1130

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEQUENCE #: C4007

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame: 90 AS W 002555

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: (Y) N TAPE#:

9 STAT AREA:

20 USCG QUAD: SC3

Start: 0745 End: 0829

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: SE Culross I

Sediment

14 DESCRIPTION: NORTH of Applegate Island

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE				<u>1%</u>				<u>0</u>

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 224-20-13010

38 STREAM NAME:

28 SURFACE THICKNESS 1mm

39 OIL IN STREAM BED? Y (N)

29 PENETRATION 1

40 OIL ON STREAM BANKS? Y (N)

30 OVERALL OIL IMPACT: N (L) 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 20
Gravel 50% Sand 30 Mud/silt

Species	Aerial	Ground

COMMENTS: Oil appears to have been broken up and self cleaned.
Some stain left on cliff band on south side of stream.
Upper intertidal only

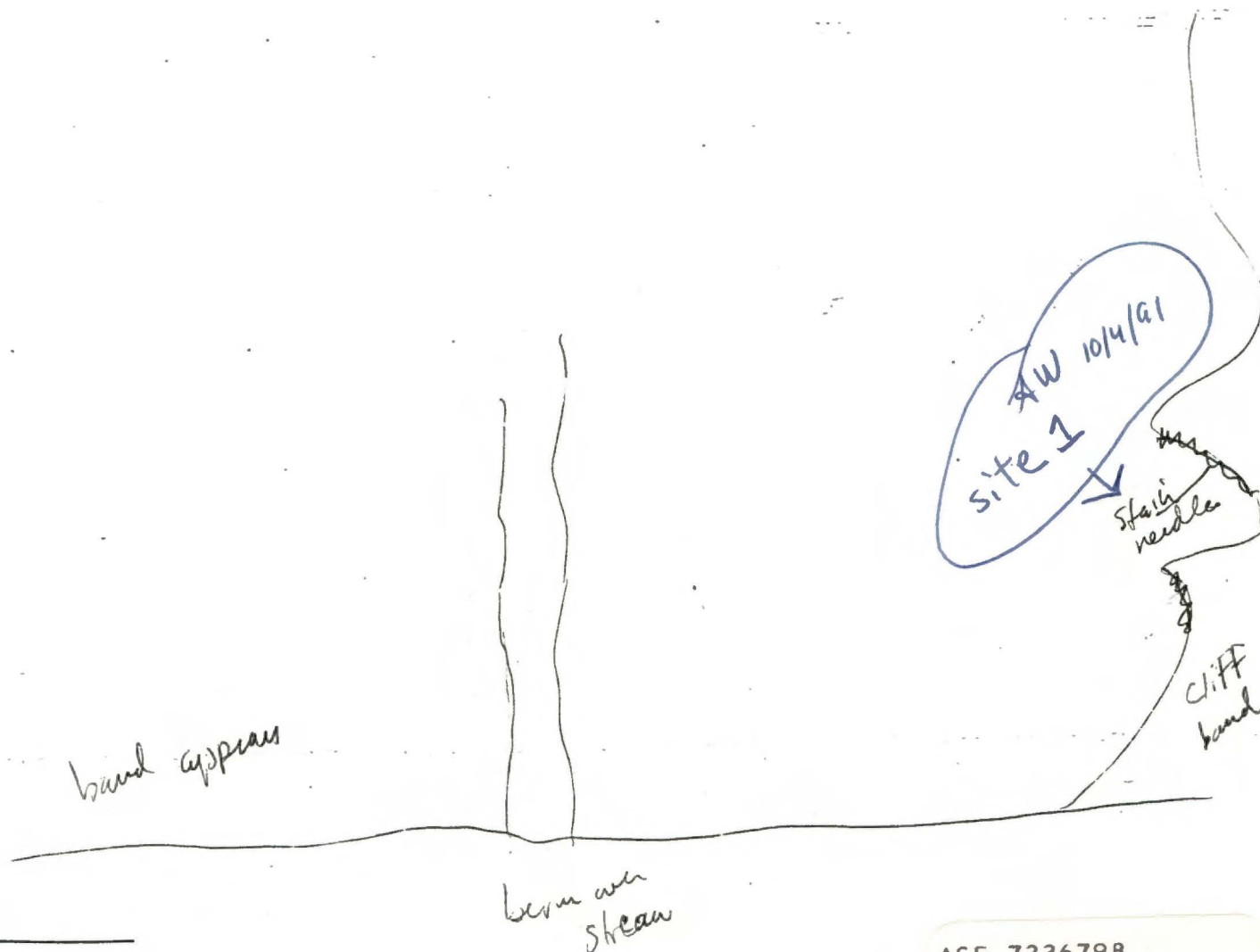
ACE 7236797415

FRAME(S)

DESCRIPTION

pit 1 30 cm hole

Recommendations No treatment Required

48 OIL DISTRIBUTION DIAGRAM

OG CAL LARSON
 4/17 SEGMENT ST/ C0007
 STREAM 22/20 13610

SKETCH MAP

DATE 4 126 90

CHECKLIST

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

LEGEND

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

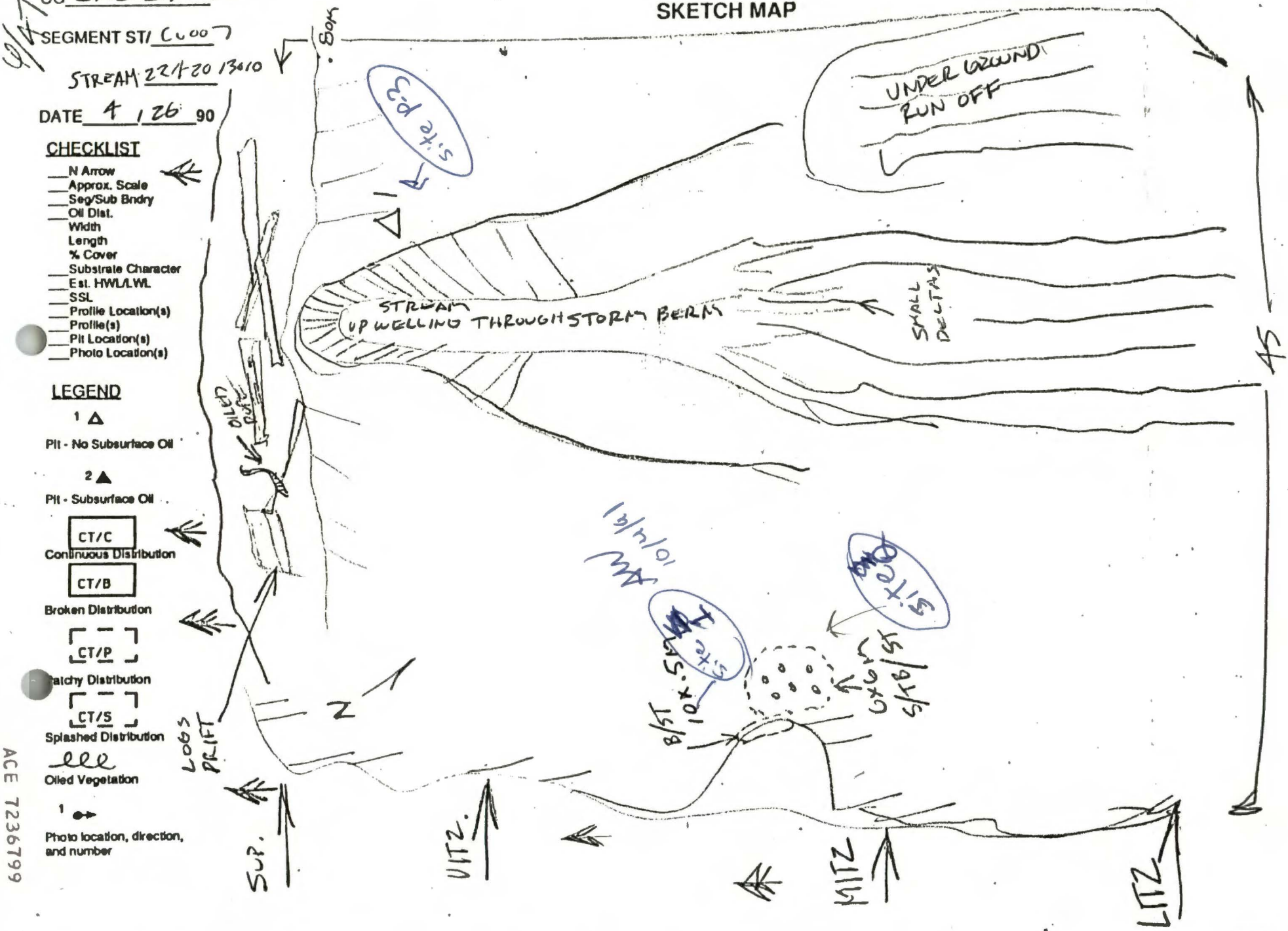
Continuous Distribution
- CT/B

Broken Distribution
- CT/P

Patchy Distribution
- CT/S

Splashed Distribution
- eee
Oiled Vegetation
- 1 $\bullet$ $\rightarrow$
Photo location, direction, and number

ACE 7236799



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

CU-007

Seq ID: ~~XXXXXXXXXX~~ Subdiv: 224-20-13010

Survey Date: 4/26/90

Comments by: Ken Critchlow

A few small splatters of oil were observed in the UITZ along the left side of the beach distant from the stream. No subsurface oil was observed in a pit located in the face of a storm berm near and on the right side of the stream in the UITZ.

No cleanup is required at this location.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CU-007 SUBDIVISION: ^{ASC #} 224-20-13010 DATE 26 APR 90

USCG

NAME Kerwin L. Dreher SIGNATURE cwo K. L. Dreher

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADEC~~ → ADFG

NAME Rick Gustin SIGNATURE Rick Gustin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~LAND MANAGER~~ → NDNE

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ST-CU-07-A
 STREAM ID # 224-20-13010
 ANNOTATED MAP INCLUDED Y10

DATE 4/26/90
 NAME SNOOK
 TEAM # 14

SURFACE OIL	Treatment Recommendation									
	Quantities in Meters			None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Tr.
Wide Band										
Medium Band										
Narrow Band										
Very Light	<u>10</u>	<u>0.5</u>	<u>5</u>	☒	<u>N</u>		<u>N</u>		<u>N</u>	
TOTAL MANDAYS										

SUBSURFACE OIL

Other (Describe)?	<u>No SUBSURFACE OILING</u>

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	☒			<u>6</u>	<u>6</u>	<u>1</u>		<u>No</u>	<u>1</u>

OILED LOGS <u>Y10</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? Y10 How Many Bags? Is it mingled with the Oiled Debris Y10

GENERAL Snow covering 0 % of the Supratidal Zone?
 Wave Exposure H/M/L Access Limitations: LOW ANGLE BEACH
 Snare Boom/Pom Poms Recommended? No

Would the production Craft have to be relocated to complete work on this subdivision? Y10 # of Times

COMMENTS: No TREATMENT RECOMMENDED

ACE 7236802

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ CU 007 5/A
 BIO KEN CRITCHLOW LAND REP STREAM 27A:20 13010 (OF)
 EXXON AL SNOOK ADFG ERIK GUSTIN-AIMEE WESEMAN TIME 11:07 to 4:30
 TEAM NO. 14 TIDE LEVEL +1 FT DATE 4 12 6 190
 EST. SUBDIVISION LENGTH: 45 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 5 % C 20 % P 70 % G 5 % S 0 % M 0 % V 0
 SLOPE: Lang 00 % Hang 20 % Vert 0 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 6 m NO 39 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IP	IS	BR	BL	RW	GY	SL	TL	LB	LR	SU	U	M	LI
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0 cr

PATTIES TARBALLS 1 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 0

#BAGS 0

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	BL	RW	GY	SL	TL	LB	LR	SU	U	M	LI			
1	30																							PB, GR, PB, GR

COMMENTS STREAM RUNNING UNDER GROUND THRU UPPER STORM BERING

REVIEWED 0 DATE 0

ACE 7236803

3/27

ANAD

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: CU-007 SUBDIV: 224-20 TEAM: 14 SURVEY DATE: 4/26/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS — VEG — TRH X DBR — WAVE EXP: LW — MD — HG X
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 4.5 OIL CATEGORY: W — M — N — VL 6 NO 39 U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 5 COB 20 PEB 70 GRN 5 SAN — MUD — VEG —

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

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

4/27

ANAD
SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: CU-007 SUBDIV: 224-20
13010

PIT # 1 PIT DEPTH 30 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X 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: —

ACE 7236805-15



OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 09/09/89

TIME: -0-

#224-20-13070

SEGMENT#:

-0-

cuppy

STATION#: -0-

LOCATION: EAST COAST CULROSS ISLAND

REASON FOR TAKING PHOTO: AERIAL VIEW - DOCUMENTING UNDOCUMENTED
SALMON SPAWNING HABITAT. (148°06'48"/60°38'54")

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG006V FRAME #: 00

EVIDENCE ID#: 10209

Taken by: _____

ACE 7236776

Roll #: _____ Frame #: _____

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: CU007
LOCATION: S CULROSS ISLAND

DATE: 09/13/89
TIME: 18:00

Survey Type: Boat, Ground
Team: G. Pavia, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy
Sea State: Calm

Wind Direction: E
Knots: 0-15

Low Tide: 6:40	Feet: -0.3	High Tide: 13:01	Feet: 11.1
Low Tide: 18:47	Feet: 2.09	High Tide: 0:01	Feet: 12.2

SHORELINE DESCRIPTION

Shoretypes: LR,B

(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: B,C,G

(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M

(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: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 80%

Presence of Oiled Driftwood (y/n): n

Oil Types: SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: CU007-1 / CU007-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): n Mussels (y/n): n

Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: One locality, 55 gal drum

Bags Collected: 0

Draft

Printed: 12/12/89 11:05

Walk-a-thon

ACE 7236774

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 DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMBLEN

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

Attn: John Bauer
FAX 265-4666, 265-4656

RE: SEGMENT NUMBER CU-07 SUBSEGMENT NUMBER A (171)

DEC REP Bob McCreedy

USCG REP Harry Raymond

EXXON REP Randy Boyer

BOAT NAME/SQUAD NUMBER Bush #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

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

No. Customblend was applied to areas of tar not removed only.

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

Additional Comments (keep objective).

signature

Robert B. McCreedy

Date and time of demobilization from segment

4/22/90

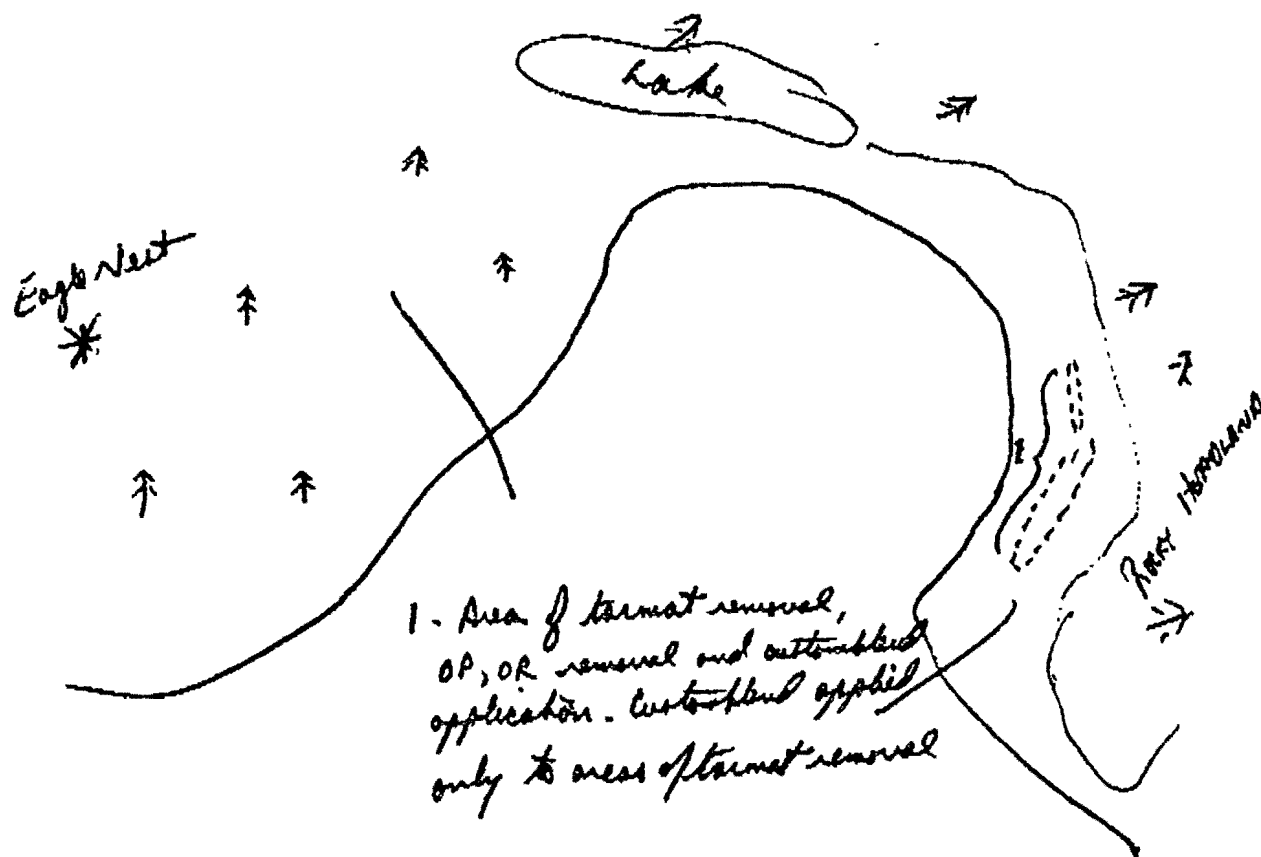
Shoremon\55

5-12-90

ACE 7236778+151RC

Bob McCreary
6/22/90

Demo Map
CU-07A (101)



RECEIVED
APR 10 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: CU-07

SUBDIVISIONS: A (1 OF 1)

Manual cleanup recommended. No
bioremediation. Manual treatment
O.K. near stream from May to July
with concurrence of ADT # 6 monitor. Salmon
egg rearing area

agree

ACE 7236780+HS

SHORELINE EVALUATION

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

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth (ADF&G catalogue 224-20-13010) - fry outmigration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31; active bald eagle nest (5T) - 3/1 to 6/1; recreation special use designation (6Y) - 6/1 to 9/15.

SUBDIVISION ECOLOGICAL CONSTRAINTS: (1A, 1B) No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. (5T) Restrict air traffic to essential minimum. Air approach and takeoff from and to seaward only. Contact USFWS prior to treatment for confirmation of dates and avoidance minimums.

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 113 m: No Oil 696 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: Pick up sporadic tarballs. Bioremediation of areas shown on sketch map. Work between 6/1 and 7/10.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7236781

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CU-07 SUBDIVISION: A-1 of 1 DATE 04/04/9

USCG

NAME David S. Thomas SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

ADEC

NAME Clara S Crosby SIGNATURE Clara S Crosby

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

UL. area. removal of oil / manual - Turball found in HWC debris -

LAND MANAGER

NAME Marsha Martin/DNR SIGNATURE Marsha Martin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

For both areas marked on map. Beware that the lake against the storm berm gets occasional inundation from storms. Snow covered still, many washed up logs in one section adjacent to berm.

SHORELINE OILING SUMMARY

REVISION NO. 000000

OG Rick GILLIE USCG Bm 1 Thomas SEGMENT ST/ CU-07
 BIO DAVE Lohse LAND REP Marsha Martin SUBDIVISION A 1 of 1
 EXXON FRANK boy ADEC Clara Crosby (ADNR) TIME 16:51 to 17:41
 TEAM NO.: 13 TIDE LEVEL: +1 to +2 DATE 04/04/90
 EST SUBDIVISION LENGTH 514 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock snow
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 30 % B 20 % C 20 % P 30 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 60 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 40 m NO 494 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	S	SP	OR	OW	OL	TL	LB	SU	UI	MI	U
ASPHALT PAVEMENT														
POOLED														
COVER				X						X		X		
COAT				X					X			X		
STAIN														
MOUSSE														
PATTIES														
TARBALLS				X		X						X		
FILM														
NO OIL												X	X	

PAVEMENT: H F S N/A sq. m by _____ cmPATTIES / TARBALLS 0.1 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

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

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. ST-13-2Frames 18-20

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SP	OR	OW	OL	TL	LB	SU	UI	MI	U		
1	10					X	-									X					G, S
2	15					X	-									X					P, S
3	20					X	-									X					P
4	40					X	-									X					P, G
5	20					X	-									X					C, P, S
6	40					X	-									X					P, C

COMMENTS (GENERAL)

① OILING: V. LIGHT CT/S ON NORTH AND SOUTH SIDES
 OF BAY NEAR BEACH ON CORAL/BOULDER
 SUBSTRATE.

SHORELINE ECOLOGICAL SUMMARY

REVISION 05/22/90

Segment ST CU007 Subdivision A Date (mo / day / yr) 4-4-90

Time (24 hr) 16:50 Biologist David Lohr

A) Substrate type and % of segments:

(1) Bedrock 30 (2) Boulder 20 (3) Cobble 20 (4) Pebble 30 (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 (O)

Photographs:

Roll No. ST-13-2

Frames 18-20

BARNACLES

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

NOT PRESENT

GASTROPODS

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

- present in low intertidal - Enteromorpha, Anthopleura, Nueella, Nueella egg cases
mid intertidal - Endocladia, Nueella, beach hoppers under cobble (Orchestoidea?)
high intertidal - Beach hoppers under cobble (Orchestoidea?)

Ecological Considerations: 2. Ducks spotted in area

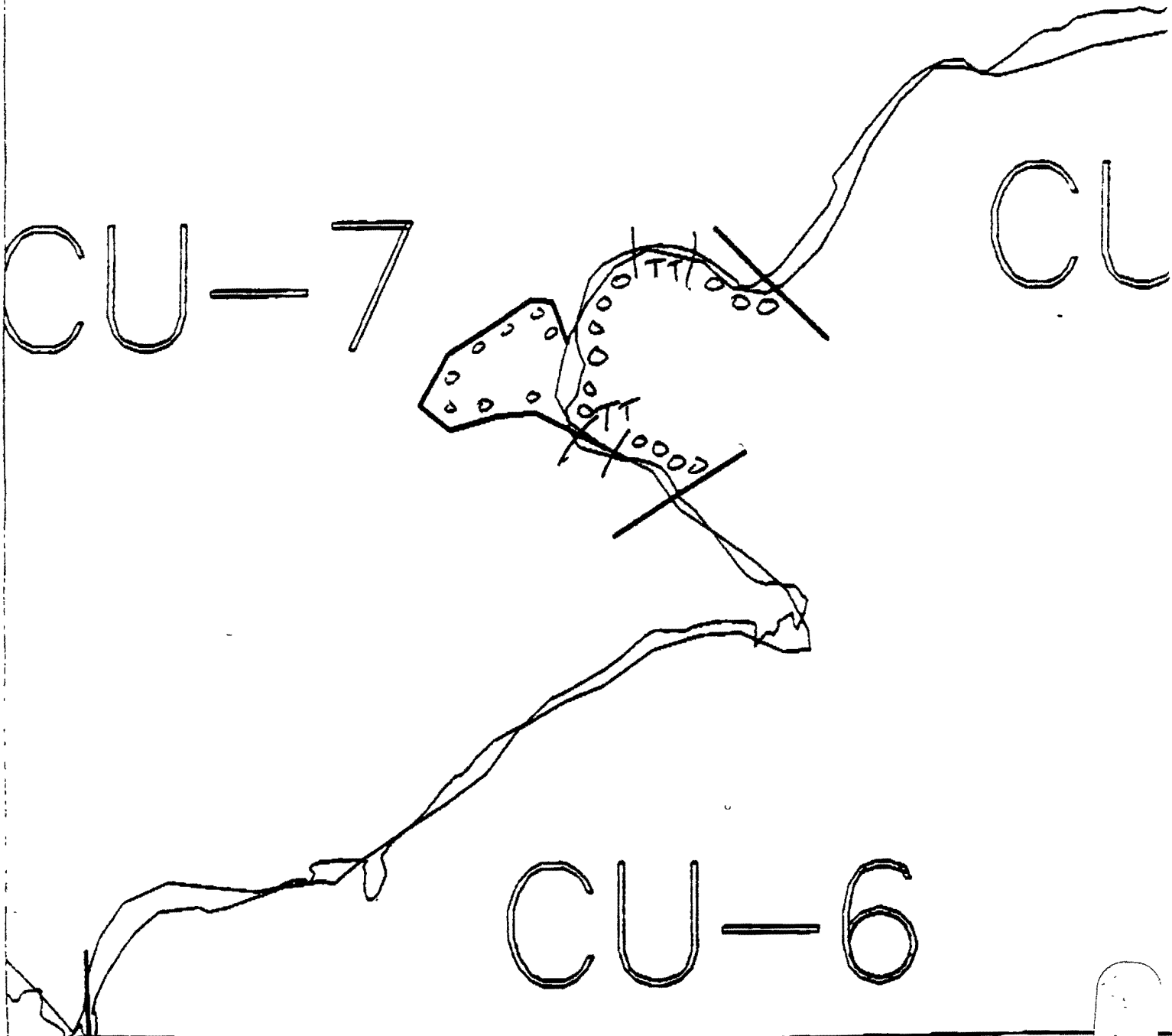
II, IS, 64 - no comment

ST - none observed

CULEOAS ISLAND

Segment: CU-07

Subdivision: A-1 of 1



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

OOOO No Oil

CU-7

ADEC Segment Length: 443m



Map Key: PWS-85

Name: GILLIE

Date: 4-4-90

Data Entered:

ACE 7236786-1/S

*Processed
5/8/90
gaw*

RECEIVED

MAY 05 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: CU-07A

STREAM NO: 224-20-13010

CONCUR

ACE 7236787+15

ok

ADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CU-07 STREAM NO: 224-20-13010 DATE 4/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
Eagle nest within 400 M of subject segment.
6Y Recreation: Special use destination
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7236788

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 Morrison 267-2324
- 1C: Salmon fry nursery area (4/31 to 7/31)
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D: Esther Hatchery release (4/15 to 6/15)
- 1E: Main Bay Hatchery release (4/20 to 6/15)
- 1F: Sawmill Bay Hatchery release (4/15 to 6/1)
- 1G: Cannery Creek Hatchery release (4/21 to 6/1)
- 1H: Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.
AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I: Gill net area (6/7 to 8/31)
- 1J: Purse seine area (7/20 to 9/30)
- 1K: Purse seine hook-off (7/20 to 9/30)
- 1L: Set net sites (6/11 to 7/25)
Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G James Brady 424-3212
- 2M: Herring spawning (4/1 to 6/15)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235
- 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: Subsistence area: Salmon harvesting (5/1 to 9/30)
- 7HH: Finfish harvesting
- 7II: 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 7236789

10
1/2

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CU-007 SUBDIVISION: ASC 224-20-13010 DATE 26 APR 90

USCG

NAME Karwin L. Dreher SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~**ADEC**~~ **ADFG**

NAME Rick Gustin SIGNATURE Richard Gustin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~**LAND MANAGER**~~ **NAME**

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

OG EAL LARS USCG DRAPER, CWE SEGMENT ST/ C11007
 BIO REN LITCHMAN LAND REP STREAM 22/20 13010 OF
 EXXON AL 3000 R ADFG 20 K 2000 - ALPHE WISEMAN TIME 11:07:10 %
 TEAM NO. 15 TIDE LEVEL +1.0 DATE 4/26/90
 EST. SUBDIVISION LENGTH: 45 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 5 % C 20 % P 70 % G 5 % S 0 % M 0 % V 0
 SLOPE: Long 0 % Hang 20 % Vert 0 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ HI
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 6 m NO 39

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0PATTIES/TARBALLS 1NEAR SHORE SHEEN? ☒ BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Go
 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 (Y/N)	V	SURFA SUBSURF SEDIME
		SP	OR	OL	OF	NO		NO	NO	1	2	3	4	5	SW	SE	NE	NW				
1	30						✓															10/20/90

COMMENTS STREAM RUNNING UNDER BRIDGE THRU UPPER STREAM BEDREVIEWED JW DATE 4-29-90

ACE 7236791

STRAH 22420 13010

DATE 4/26/90

CHECKLIST

- W Area
- Approx. Scale
- Topographic Study
- On Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. 1984/1985
- DBL
- Profile Location(s)
- Profile(s)
- Fl. Location(s)
- Photo Location(s)

END

1 ▲
FR - No Subsurface CI

2 ▲
FR - Subsurface CI

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

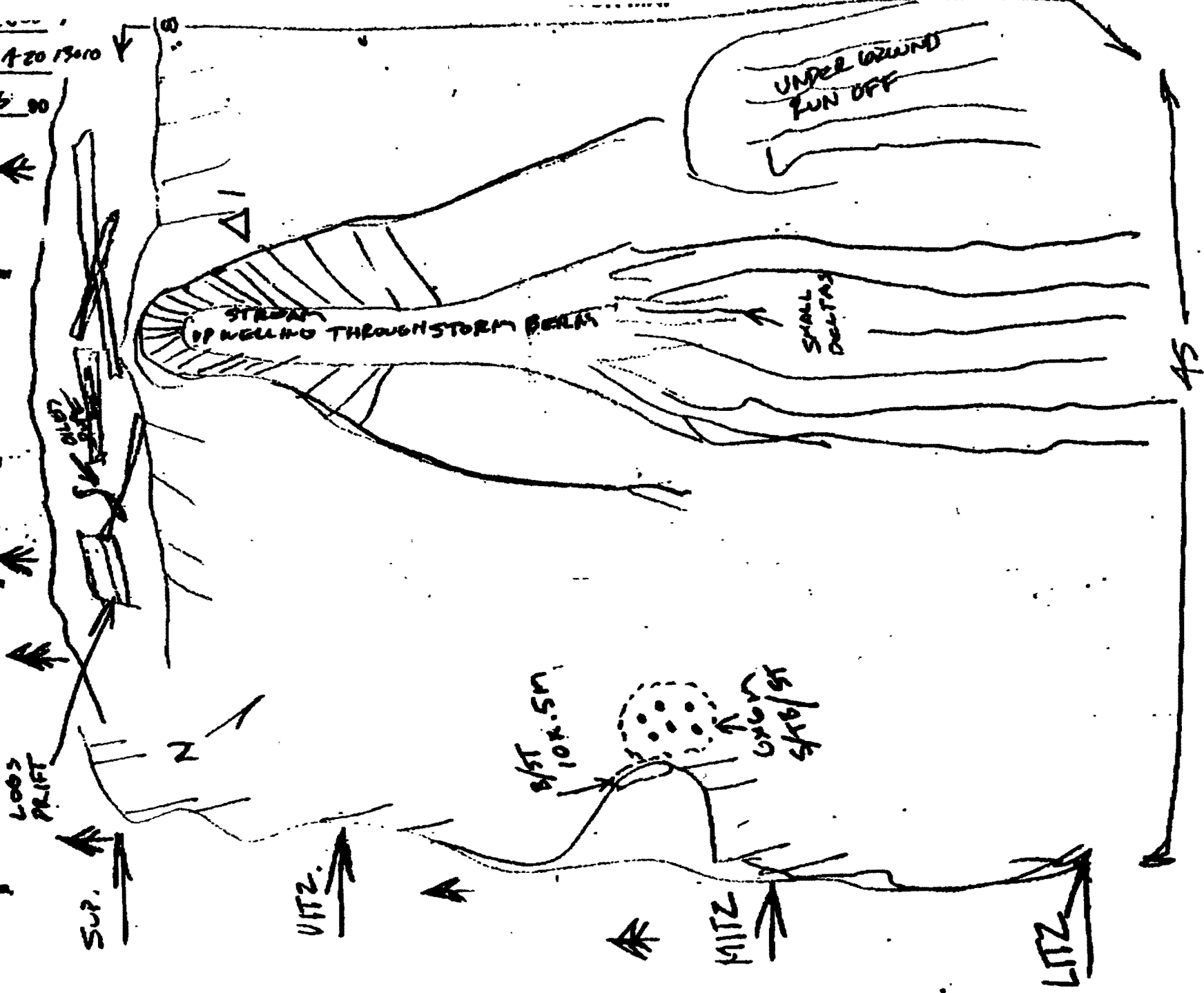
CT/S
Spaced Distribution

lll
Clad Vegetation

1 ●
Photo location, direction, and number

Character Length (m): AP PO CV CT ST MB FT TB FL NO

ACE 7236792



CU-007

Seq ID: ~~██████████~~ Subdiv: 224-20-13010

Survey Date: 4/26/90

Comments by: Ken Critchlow

A few small splatters of oil were observed in the UITZ along the left side of the beach distant from the stream. No subsurface oil was observed in a pit located in the face of a storm berm near and on the right side of the stream in the UITZ.

No cleanup is required at this location.

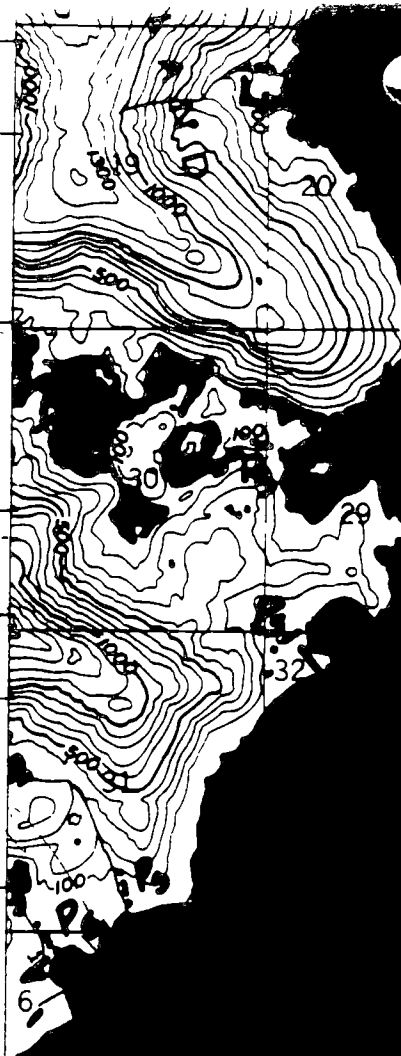
CU-007-A

(1051)

1A 11

11

11



7 N

6 N

(SEWARD C-4)

217

100 T ALPINE

204 20 15010

(11, 2/90)

10000 in SUBARVISOR

11051

150



8/27

ADFLG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SB 25 SB 73 AVS SCM WWS PTA

2 REGION: FE NP, C R, P

METHOD: Aerial Ground Boat

3 DATE: 4-26-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. G. H. T. H.

4 START TIME: 1111

16 HIGH TIDE HTS: 1

22 OBSERVERS: A. W. W. W. W.

5 STOP TIME: 1130

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SECTANT #: 64007

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame: 90/1510 over

8 K-UNIT:

Sho Sho Sho Sho Sho Sho Sho Sho Sho Sho

25 VIDEO TAKEN: (Y) N TAPE:

9 STAT AREA:

20 USGS QUAD: CC3

Start: 0745 End: 0829

10 LAT:

11 LONG:

26 SAMPLES TAKEN: Y (N) Water

12 SOURCE: Mag Loran

13 LOCATION: SE Culross I

14 DESCRIPTION: North of Agate Island

Oil

Sediment

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	N		L	V	N	
27 SURFACE COVERAGE				17%				0

28 SURFACE THICKNESS	1mm							
29 PENETRATION	—							

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

31 OIL TYPE: Pooled Nonso (N) Asphalt Sticky Sludge

32 OILED DEBRIS: Y (N)

33 SHORELINE TYPE: Headland Low-lying Rocks Beach (N) Cay

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 20
Gravel 50% Sand 30 Mud/silt

36 CATALOGED ANAD. FISH BREATH: (Y) N

37 CATALOG #: 224-20-19010

38 STREAM NAME:

39 OIL IN STREAM BED: Y (N)

40 OIL ON STREAM BANKS: Y (N)

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

42 OIL WITHIN 1 MILE OF STREAM: (N) N

Where:

43 ANOMALOUS FISH PRESENT? Y N

44 ANOMALOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: Oil appears to have been broken up and self cleaned.
Some sludge left in cliff bank on south side of stream.
Upper intertidal only.

ACE 7236795

CU 007 ⁷/₂

48 PHOTOLOG

224-20-1301

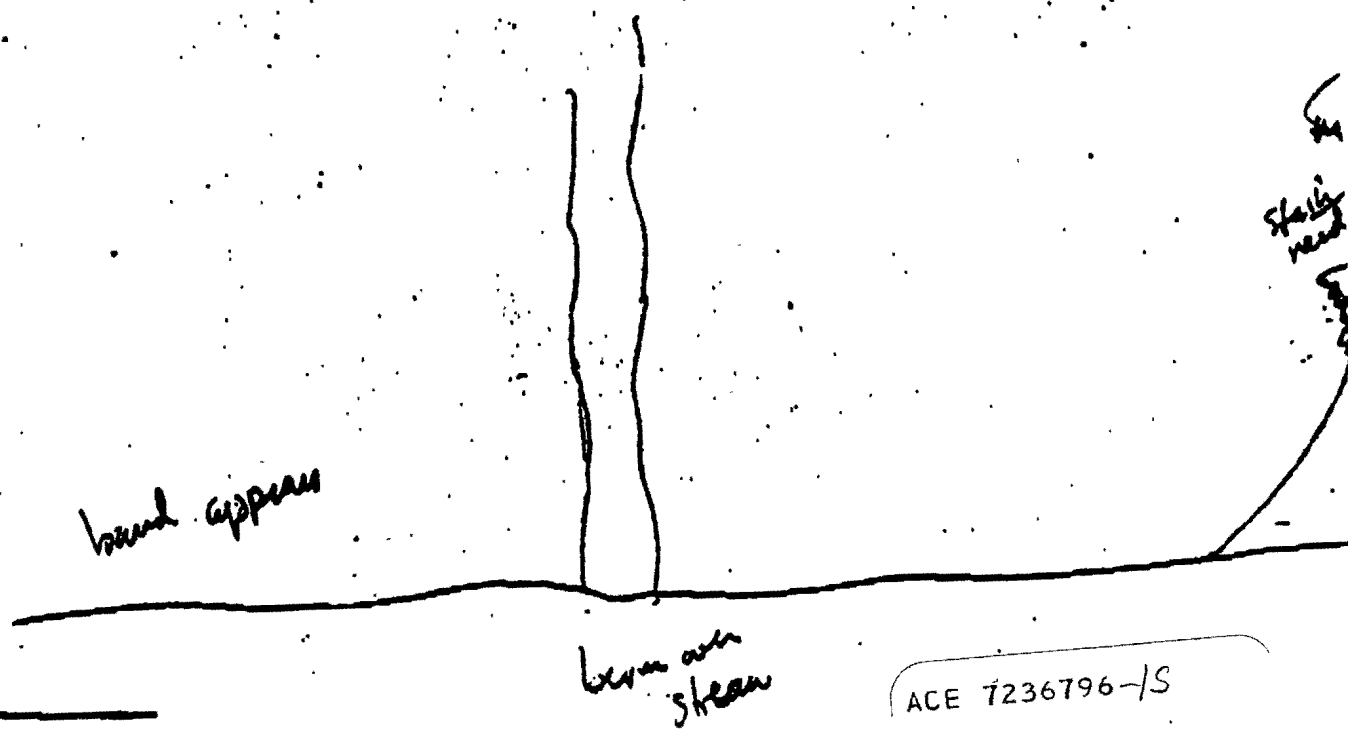
FRAME(S)

DESCRIPTION

pt 1 25 mm x 0.1

Recommendation No treatment required

48 OIL DISTRIBUTION DIAGRAM



sample taken

ACE 7236796-15

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CU-07 STREAM NO: 224-20-13010 DATE 4/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
Eagle nest within 400 M of subject segment.
6Y Recreation: Special use destination
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

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

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90

ADEC ART WENGER

EXXON ANNY TAYLOR

NOAA Burl Wescott

USCG D.D. ROME

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

STATION 22420 13410

DATE 4/26/90

CHECKLIST

- W Area
- Approx. Scale
- Seafloor Entry
- Oil Out
- Width
- Length
- % Cover
- Substrate Character
- Est. FOWLEL
- Oil
- Profile Location(s)
- Photo(s)
- Photo Location(s)

LE 02

1 - No Subsurface Oil

2 - Subsurface Oil

CT/C
Continental Distribution

CT/B
Tidal Distribution

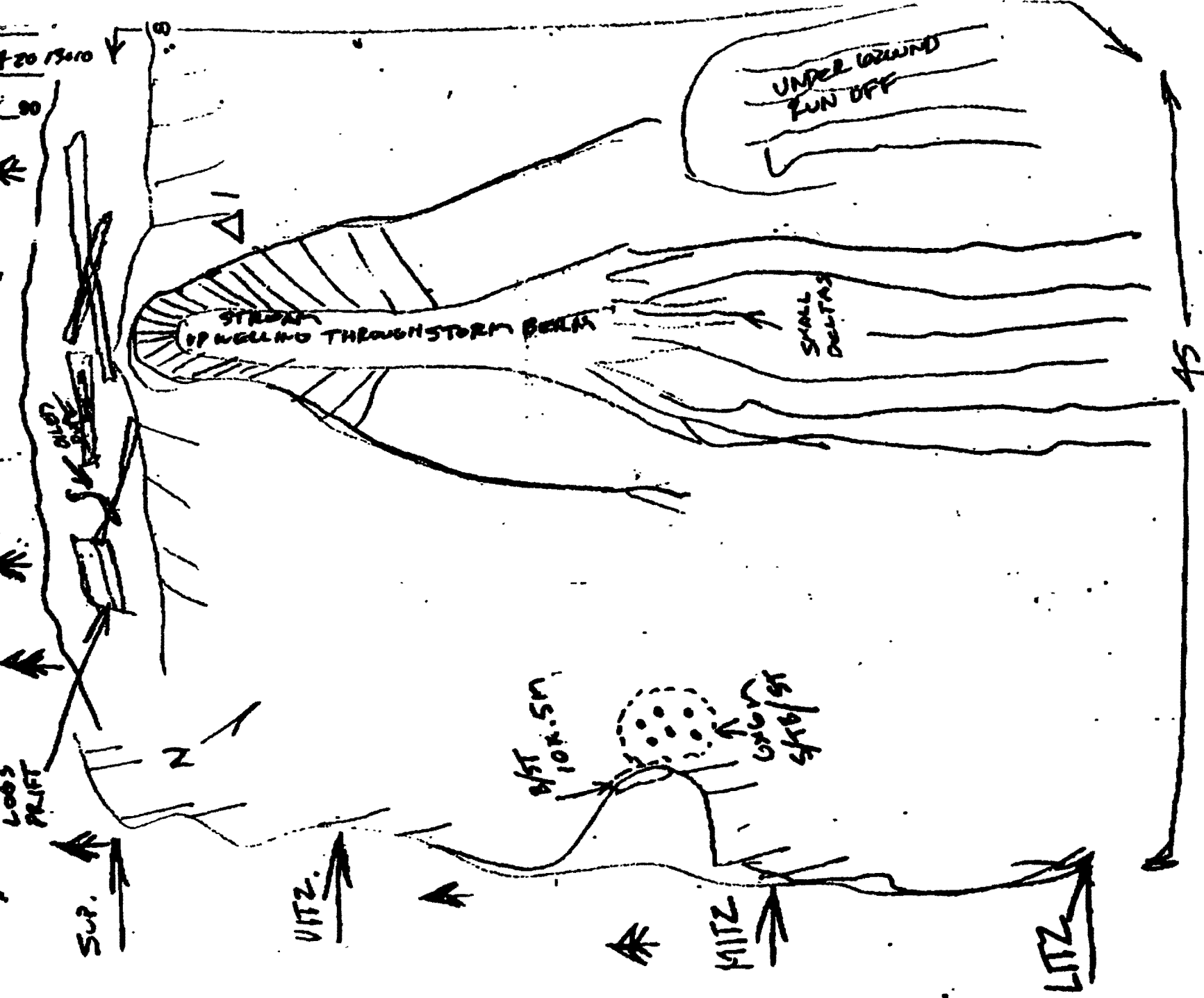
CT/P
Tidal Distribution

CT/V
Tidal Distribution

CT/V
Tidal Distribution

CT/V
Tidal Distribution

Character Length (m): AP PO CV OT ST MB FT TB FL NO



ECCOLOGICAL MAP

CU-007-A
(1 of 1)

1A, 1B

ST

64

21.7

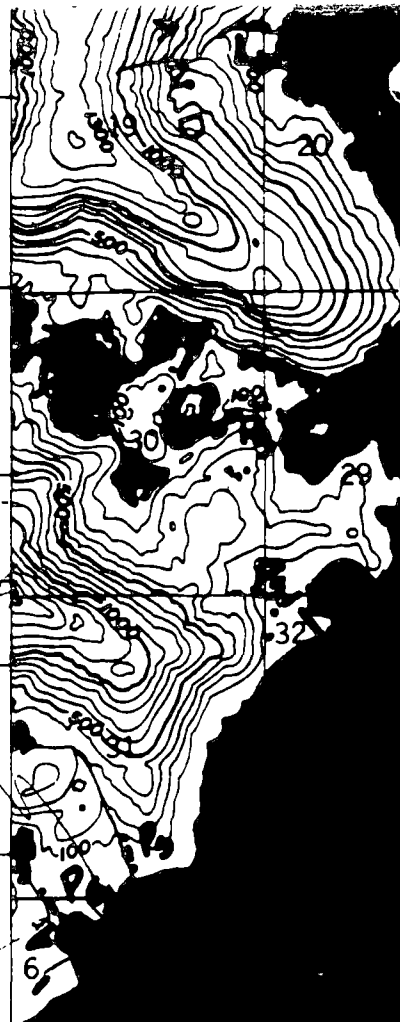
THESECT ANTIDOTICUS
SIXTAN

" 224 20-13010
(1, 2/90)

LOCATED IN SUBDIVISION
A (1 of 1)

(SEWARD C-4)

150



ACE 7236808

CU 007 1/2

48 PHOTOLOG

224-20-1301

FRAME(S)

DESCRIPTION

pt 1 20.000 to 0.1

Recommendation No treatment Required

48 OIL DISTRIBUTION DIAGRAM

band appears

burn over
shear

Stall
near

sample taken

ACE 7236809

ADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CU-07 STREAM NO: 224-20-13010 DATE 4/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
Eagle nest within 400 M of subject segment.
6Y Recreation: Special use destination
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

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

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90

ADEC ART WENGER

EXXON AMY TATE

NOAA Burl Wescott

USCG D. D. ROME

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

ACE 7236810-15

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/17/89

SHORELINE SEGMENT CU-07

LOCATION: (see enclosed map) CULROSS ISLAND-SOUTHEAST SHORE
(CULROSS ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/9/89

Recommended Cleanup Activity(ies):

Oiled debris should be removed from the southwest portion of this segment. Two oil-splattered logs can be removed from the northern shoreline of this segment. Bioremediation is recommended for the cobble/pebble portions of this segment if possible

Priorities Considerations:

4A

Ecological Constraints (from site survey):

Personnel should avoid walking on the healthy mussel beds. Do not disturb the intertidal communities on wave-cut platforms-this.

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.


State Historic Preservation Officer *

Date: 8/18/89

ISCC: _____

Date: _____

EXXON: Wm Stuhls

Date: 8/18/89

FOSC: _____

Date: _____

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

ACE 7236813+15

Date: 6/4/89 Time: 18:35

Observer: Bob Betts (Arch)

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow

LOCATION

LOCATION Culross Is.

SEGMENT NUMBER CU-7

LENGTH OF SHORELINE SEGMENT: 500 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

A+ Low tide

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B20% / C30% / P10% / G10% / S0% / M0% / R30%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Driftwood

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU/SP/H/M/L

Continuous: Y/N % of Segment 40 Width of Band: 1

Sporadic: Y/N % of Segment 30

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 30 in storm

Pooled Oil: 0% "Free" Oil: 0% Coated: H0% / M10% / L20%

Fresh 0% Mousse 0% Tar Formation: 70%

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

See attached sheet and map

Photos # 33 Roll # 74 - A5 Roll 2

○ CV-T Comments ○

The shore zone consists of a small bay with rocky headlands at the mouth of the bay with a stream delta cobble beach at the head of the bay (See map). The beach is a cobble/pebble/gravel beach with a high angle pebble storm berm in the supra intertidal zone. Along the rocky headlands are large boulders/cobbles exposed at low tide.

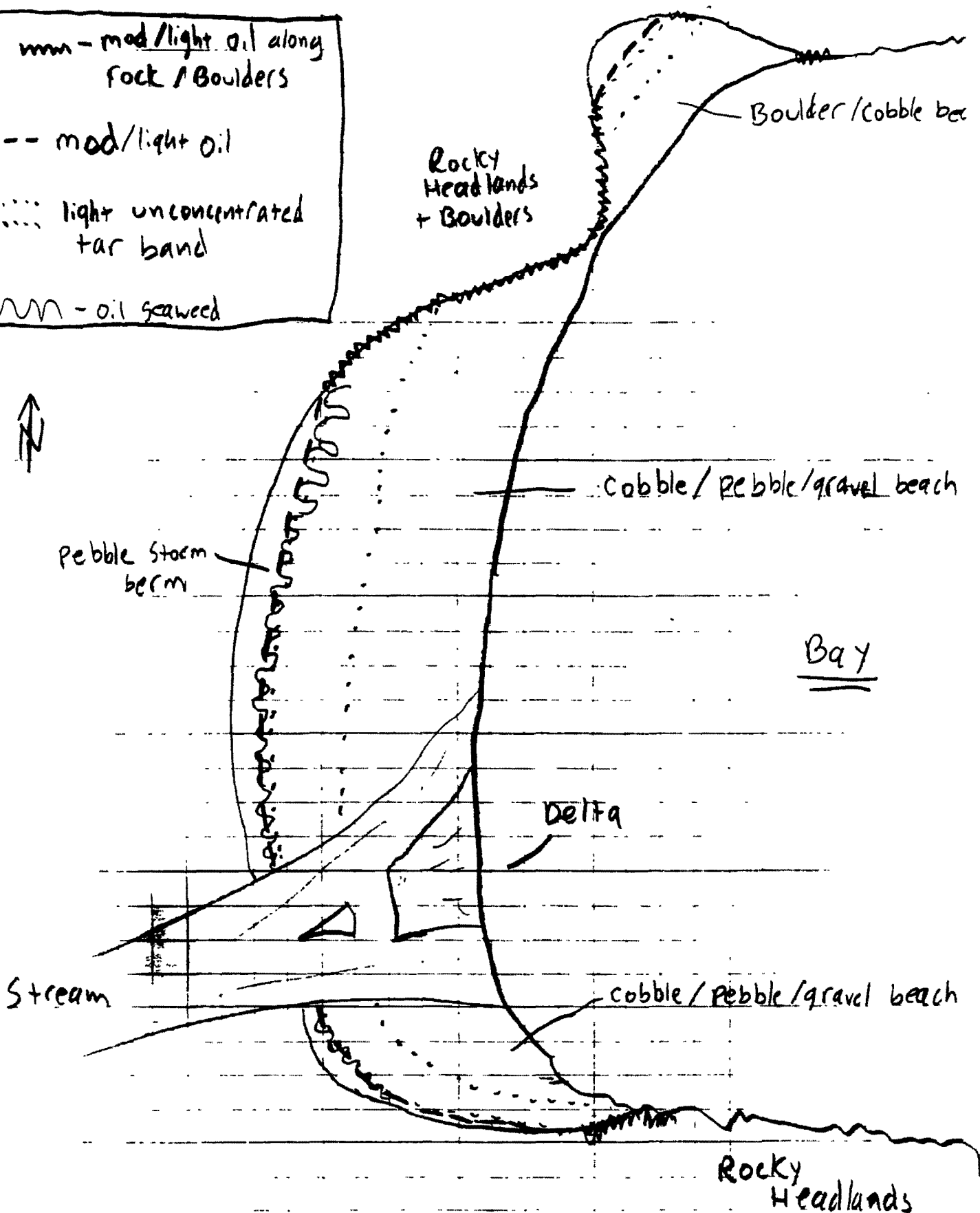
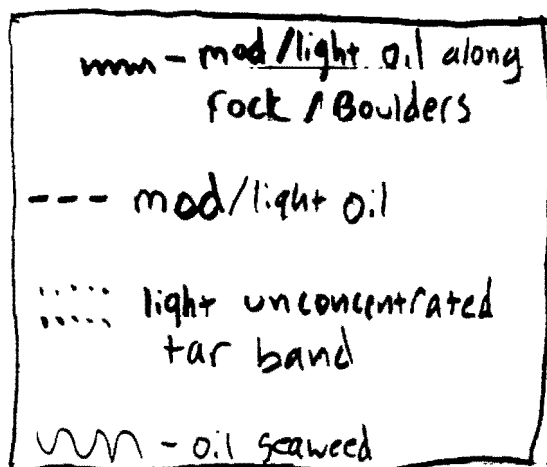
Along the rocky headlands there is localized moderate tar and oiling in the high intertidal zone. Along the beach there is a continuous 1 meter band of light oiling in the upper high intertidal zone. There is also a discontinuous 10 meter lightly ~~tar~~ tar band in the high intertidal zone.

Contaminated drift logs and seaweed should manually be removed. ~~For~~ the localized moderate oiling on rock face/boulder and cobbles could be removed using a maxi barq with moderate to high pressure hot water or other appropriate technology. The contaminated pebble/gravel storm berm could be cleaned using approved methods as ~~needed~~ appropriate. For lightly oiled areas ~~hand clean~~ ~~with other approved~~ no cleanup activities are recommended at ~~this~~ time due to the high exposure of the shoreli. to wave action.

Culross Is. CU-7
Mike Foget (O.G.)

6/4/89 Team #4

Rocky
Headlands



ACE 7236816

Light oil sheen in bay

Zone 1

Rocky

ice

mod. oil
face mod. oil

mod. oil

1 in - 3 in 5 cm

Mid valley

oil in Pebble stream deposits

oil in mod.

ice oil LI-2

oil band com. in

Upper MI-2

and light oil on side of

Light-
mod

5.15 PM

come

B/C

rocks

W/ Localized

light-mod
tar - oil

Also along
back face
of MI-2

Rocky

233

stream

rock

Zone 1

ice!
high Localized
oil in MI-2

no oil? Alp-
oil

Rocky

short sand

Low angle
4/100 ft

Rocky

LOCATION: Island SITE: 0 OBSERVER: Bob B. F. A.
 LOCATION PREFIX: CU SEG. NO.: CU 7 LENGTH: 550 (M)
 DATE: 10/4/89 TIME (HHMM): 1830 TIDE HT.: Low (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Recks Boulder Cobble Gravel Sand Mud

Rocky Headlands
 Boulder fields - E. side
 intertidal zone

LIVE BIOTA

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

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

frequent dense patches - Extensive intergravel mussel bed on South, Southern Sh.

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

Continuous population with dense to sparse concentrations

Littorina

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

Scarse on South Headlands, Moderate on North Headlands - Abundant small gastropods
Snail eggs present in small patches

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

Dense on boulders

OTHER OBSERVATIONS: upto 3m wide drift with light to moderate

contamination. MITZ; LITZ appeared not to be contaminated
3 dead starfish, several live starfish, 2 dead shore crabs.

CLEANUP PRECAUTIONS: Suggest only removing contaminated drift - If further

cleanup is done precautions need to be taken not to contaminate
the uncontaminated MITZ and LITZ

MAMMALS: 0 Harbor Seals 0 Sea Lions 0 Whales 0

BIRDS: 3 Bald Eagles, 1 gull, 3 sandpipers

GENERAL OBSERVATIONS: Pond behind storm berm on west shore
small freshwater stream on west shore.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6-4-89 Location CULROSS ISLAND Site SE COAST

Location Prefix CU Segment # 7 Length 500 M

Survey Method:

Air _____ (A - indicate on map) Boat _____ (A - indicate on map)

Ground X (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source _____

Oil conditions/beach visibility 2.3 M band of Mousse - SE end of beach - good beach visible

Width of beach zone surveyed 20-30 m Tree fringe surveyed 10 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

General observations justifying survey method and segment's site probability:

Shore Profile Low angle gravel/cobble beach - easy access to forest zone

Fresh Water Sources Stream draining pond at SW end of segment.

Sea Exposure Open bay exposed to east towards Perry Passage - high winds, beach

Access/Safety Rocks and Shoals off beach - safe boat approach only in calm weather

Probability of undiscovered sites in beach zone (circle one) 1 (2) 3 4 5

Monitoring during cleanup needed yes (no) Collection yes (no)

Photos: Color Roll # NONE Frames _____

B/W Roll # T4-28-4 Frames # 1, 2

Observer(s) B. [redacted]

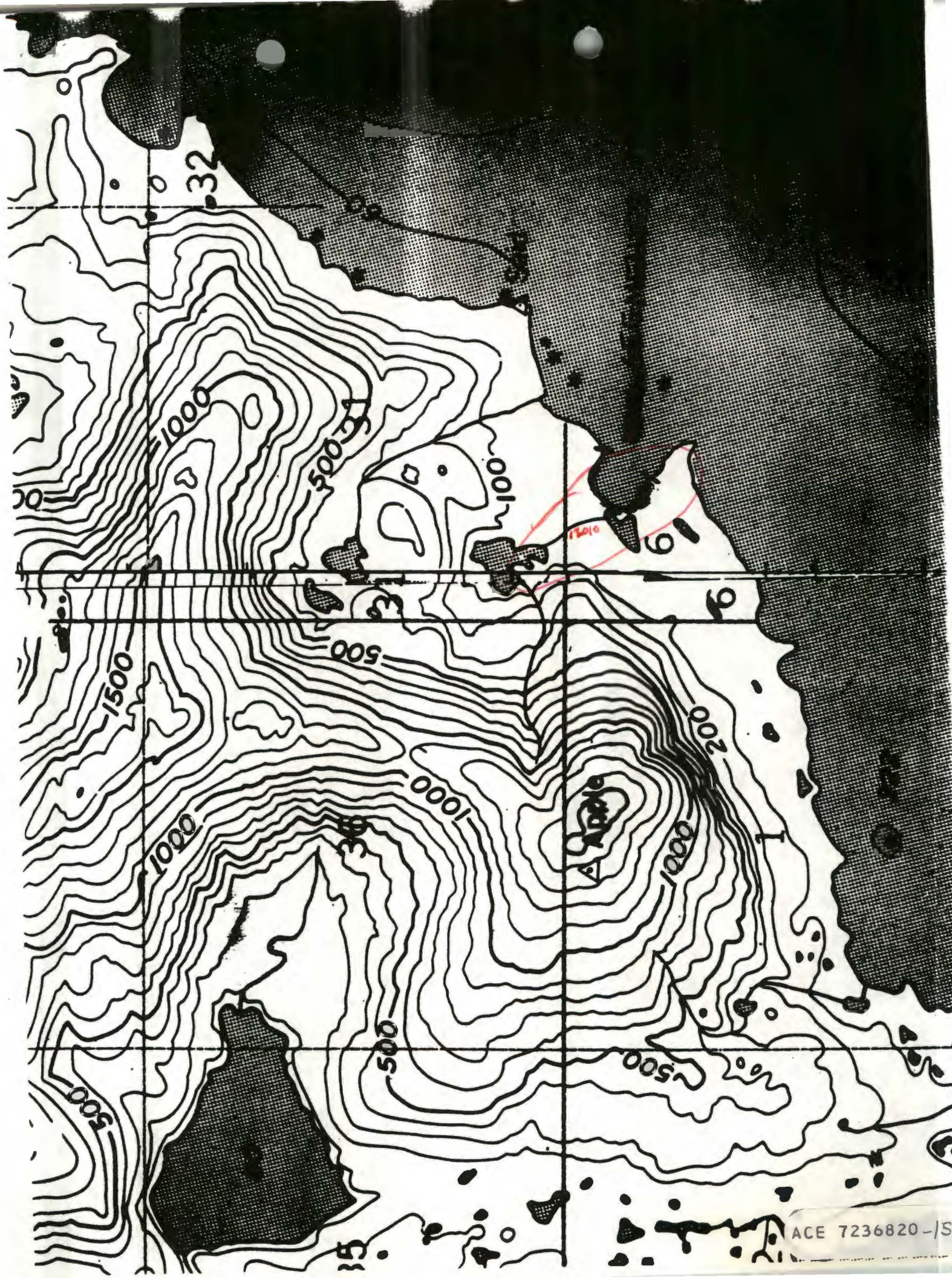
Time survey started 1817 Time survey ended _____

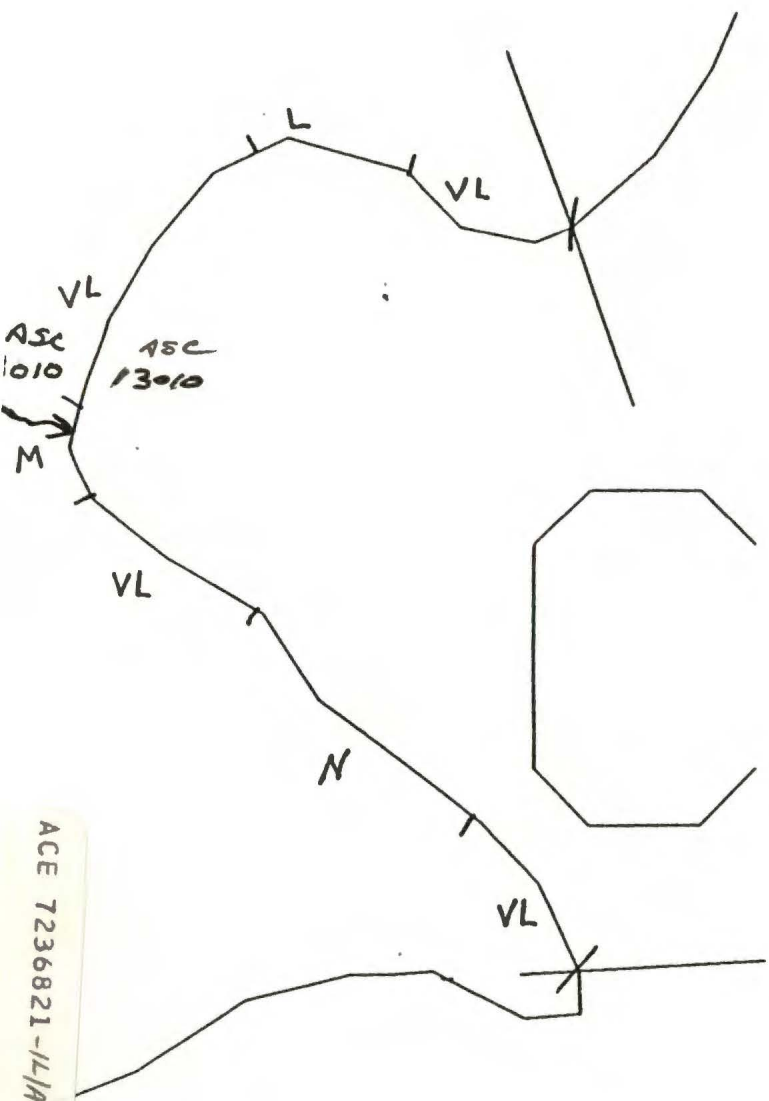
Cultural resource considerations/restraints:

Clean up personnel should not go inland beyond storm barrier.

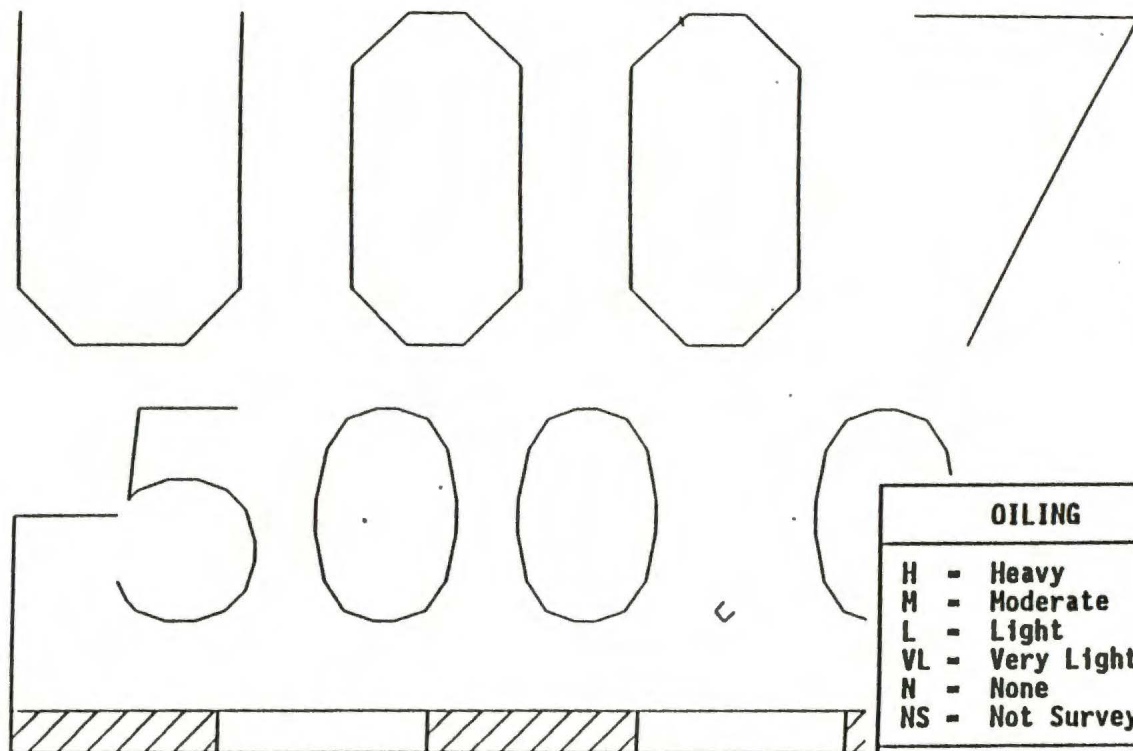
No archaeological constraints beyond notifying Exxon Archaeologist + C. Mable if artifacts are discovered during clean up activities.

ACE 7236819





ACE 7236821-1L/AC/FF



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

N