

CH-014A ASC 16255
NEAR CHENEGA VILLAGE (old)

ACE 1369524 ★

- 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. 5000...)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (Fall)
____ '90 Other Documents _____

ADF&G MULTI-ASSESSMENT DATA FORM

ATW
Pre-ANAPSCAT-90

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

2 REGION: PWS KP, CI K, AP

3 METHOD: Aerial Ground Boat

4 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gust

5 START TIME: 1120

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

6 STOP TIME: 1128

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G H&S

8 SEGMENT #: CH014

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

Oil

13 LOCATION: Chenega Is.

Sediment

14 DESCRIPTION: Old Chenega village beach

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL L M H

36 CATALOGED ANAD. FISH SREAM? Y (N)

37 CATALOG #: 96255

38 STREAM NAME:

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? Y (N)

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

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

32 OILED DEBRIS? Y (N)

Where: upper into 20' down sand/grass

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

Recommended for analysis

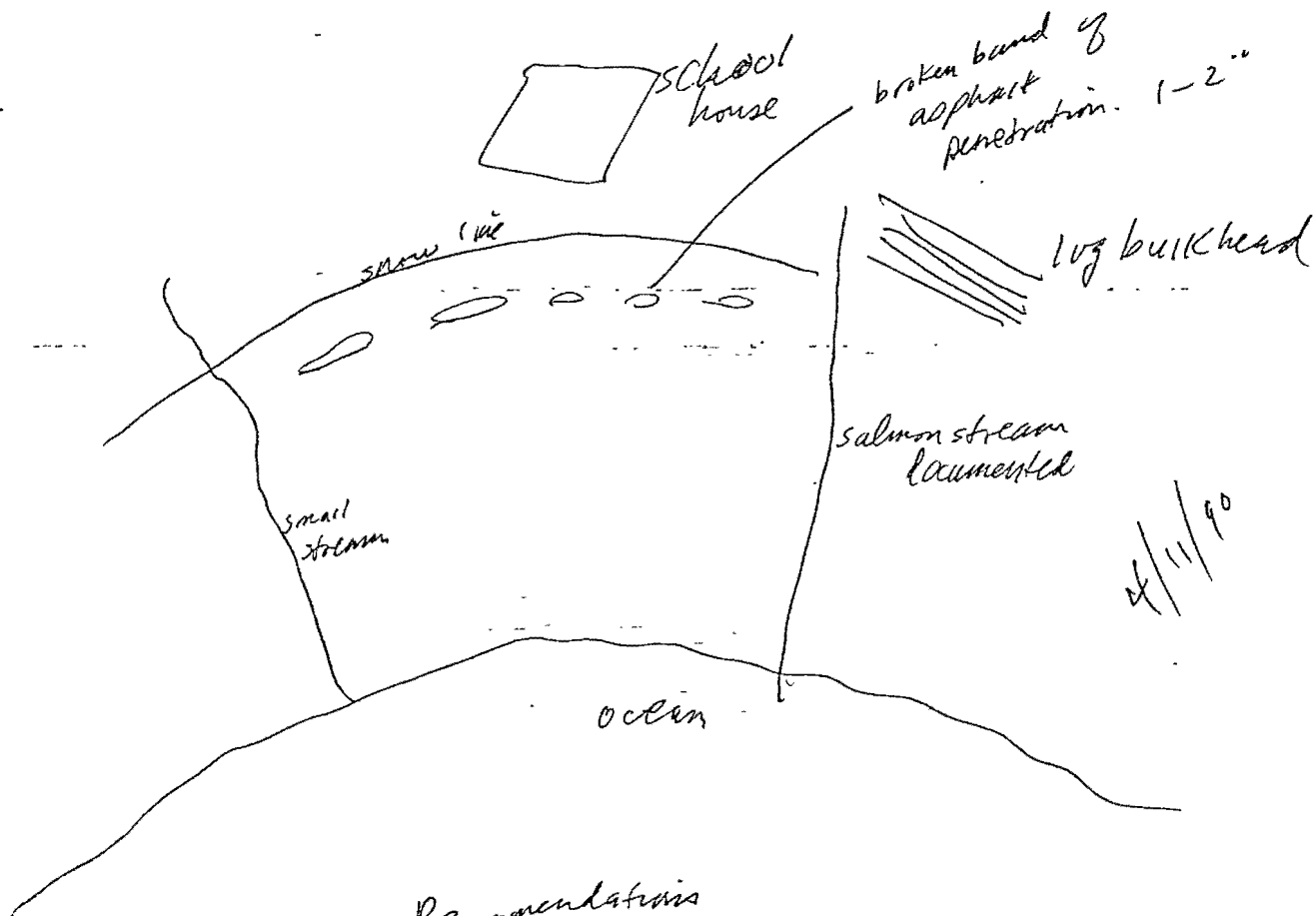
COMMENTS: Small broken band of asphalt 4-5 meters down from beach grass/sand
band is 3-4 feet wide 40-50 meters long but discontinuous
small round patches - not much penetration - (2-3")
majority of asphalt is just below old school house
no apparent oil at low intertidal area.

ACE 7236559/H5

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



Recommendations

Joe Hazelwood again:
 - shovel removal
 bag it and
 remove

CH 014
 226-20-16255 AJW

A perfect job for a
 small mobile crew
 to do something constructive.

= Sample taken
 = Photo frame # and
 shot direction.

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:

SURVEY TYPE:

METHOD:

DATE: / /

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	%	^{cm} THICK	PEN	OIL TYPE
SITE 1	40	1			5		AP
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 1500

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1155

16 HIGH TIDE HTS: +11.5

22 OBSERVERS: Mike W. Romer

5 STOP TIME: 1230

17 LOW TIDE TIMES: 0815

23 AGENCY: ADF&G (ANADSCAT)

6 SEGMENT #: CH-14

18 LOW TIDE HTS: -4.0

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY: +6 ft

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPES:

9 STAT AREA:

20 USCG QUAD: SEW B-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN: Y N Number

12 SOURCE: Map Loran

13 LOCATION: CHENECA VILLAGE

14 DESCRIPTION:

Oil

Sediment

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	25	1			15	2		
28 SURFACE THICKNESS	4cm							
29 PENETRATION	SAME							

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 SKEAK? Y N

37 CATALOG #: 226-20-16255

38 STREAM NAME:

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? Y (N)

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SPORADIC TAR MAT/ASPHALT BAND 1 TO 2 METERS
WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND
HAS BEEN COVERED BY 1/2" OF DRY GRAVEL.

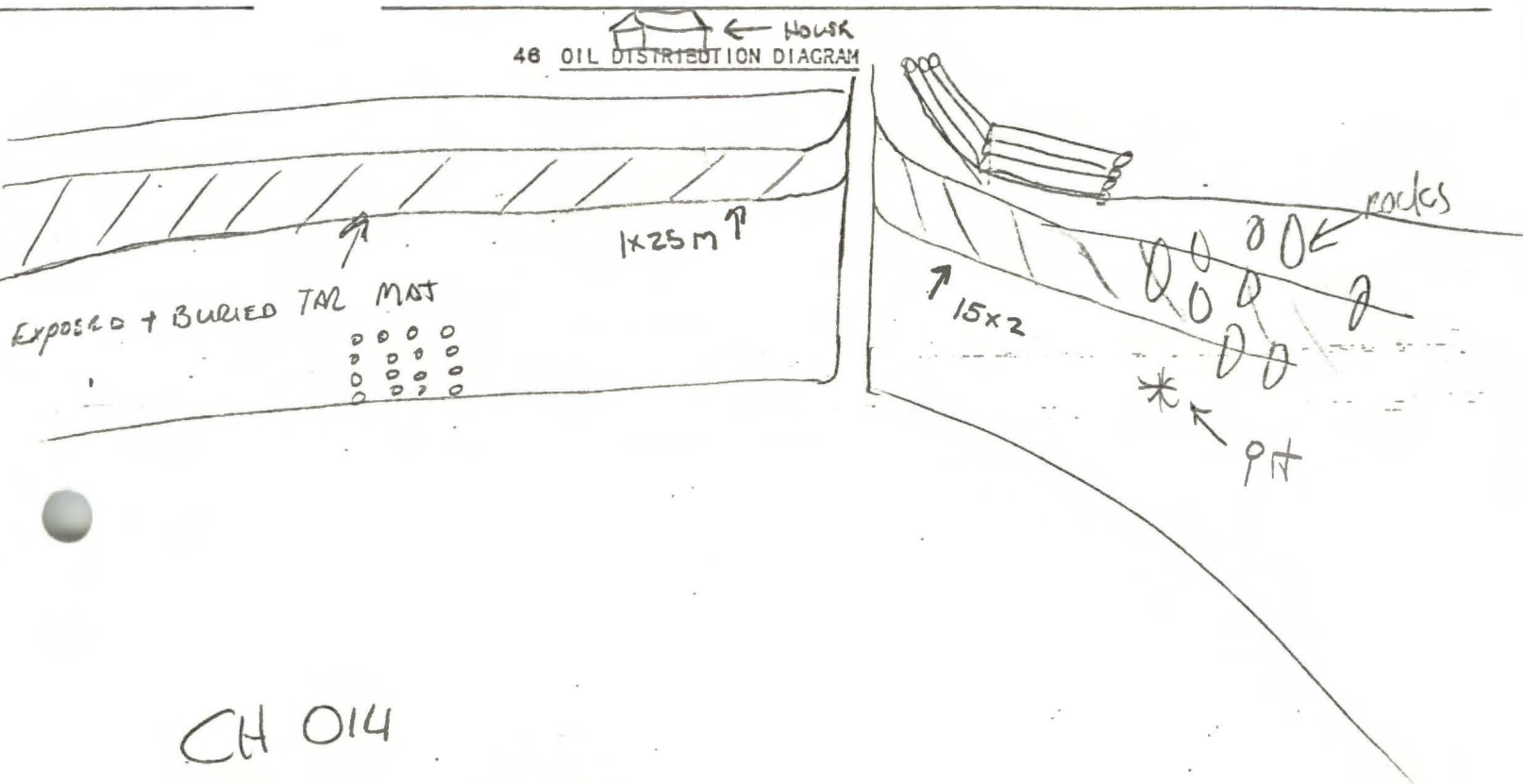
ACE 7236546+15

F (S)

DESCRIPTION

RECOMMEND: MANUAL REMOVAL OF TAR MAT

48 OIL DISTRIBUTION DIAGRAM



CH 014

226-20-16255

4/25/90

TWC

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: 26-20-16255
 SURVEY TYPE: _____
 METHOD: _____
 DATE: 4/25/90
 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	%	^{cm} THICK	PEN	OIL TYPE
SITE 1	25	1			4		AP
SITE 2	15	2					
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: _____

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS:

CATALOG NUMBER: 2262016255 SEGMENT#: CH014 A LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADS CAT	1	1 x 40 SURFACE		5	AP	SMALL BROKEN BANDS OF AP IN UITZ, 4M DOWN FROM BEACH GRASS/SNOW. DISCONTINUOUS SMALL ROUND PATCHES.
MAD vs. OG: COMMENTS: NOT MUCH PENETRATION - (2-3"). MAJORITY OF ASPHALT IS JUST BELOW OLD SCHOOL HOUSE. NO APPARENT OIL AT LOW INTERTIDAL AREA. NO OIL ON STREAM BANKS. RECOMMENDATIONS: SHOVEL REMOVAL.							

CATALOG NUMBER: 2262016255 SEGMENT#: CH014 A LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/25/90	ANADSCAT	1	2 x 15 SURFACE			AP	EAST SIDE AND UP TO STREAM BANK: EXPOSED AND BURIED TARMAT.
04/25/90	ANADSCAT	2	1 x 25 SURFACE		4	AP	WEST SIDE AND UP TO STREAM BANK: EXPOSED AND BURIED TARMAT.
MAD vs. OG: COMMENTS: SPORADIC TARMAT/ASPHALT BAND 1 TO 2 METERS WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND HAS BEEN COVERED BY 1/2" OF DRY GRAVEL. NO OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF TARMAT.							

CATALOG NUMBER: 2262016255 SEGMENT#: CH014 A LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/25/90	OG'S ANADSCAT	1	2 x 15 SURFACE	11-50	4	PT	EAST SIDE IN UITZ: PATCHY TAR PATTIES.
04/25/90	OG'S ANADSCAT	2	1 x 25 SURFACE	11-50	4	PT	WEST SIDE, A COUPLE METERS FROM STREAM BANK IN UITZ: PATCHY PATTIES.

04/25/90	OG'S ANADSCAT	3	SUBSURF			NONE	2 PITS DUG - NO OIL ENCOUNTERED.
MAD vs. OG: NO CONFLICTS COMMENTS:							

CATALOG NUMBER: 2262016255							SEGMENT#: CH014 A	LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS		
04/11/90	PRE-ANADSCAT	1	1 x 40 SURFACE		5	AP	SMALL BROKEN BANDS OF ASPHALT <u>UITZ</u> , 4 m down from beach Grass/snow. <u>Discontinuous</u> small round patches.		
MAD vs. OG: COMMENTS: SMALL BROKEN BANDS OF ASPHALT 4 METERS DOWN FROM BEACH GRASS/SNOW. BAND IS 1-3 FEET WIDE, 40-50 METERS LONG BUT DISCONTINUOUS SMALL ROUND PATCHES - NOT MUCH PENETRATION - (2-3"). MAJORITY OF ASPHALT IS JUST BELOW OLD SCHOOL HOUSE. NO APPARENT OIL AT LOW INTERTIDAL AREA. NO OIL ON STREAM BANKS. RECOMMENDATIONS: SHOVEL REMOVAL.									

CATALOG NUMBER: 2262016255							SEGMENT#: CH014 A	LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS		
04/25/90	ANADSCAT	1	2 x 15 SURFACE			AP	EAST SIDE AND UP TO STREAM BANK: EXPOSED AND BURIED TAR MAT.		
04/25/90	ANADSCAT	2	1 x 25 SURFACE		4	AP	WEST SIDE AND UP TO STREAM BANK: EXPOSED AND BURIED TAR MAT.		
MAD vs. OG: COMMENTS: SPORADIC TARMAT/ASPHALT BAND 1 TO 2 METERS WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND HAS BEEN COVERED BY 1/2" OF DRY GRAVEL. NO OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF TARMAT.									

CATALOG NUMBER: 2262016255							SEGMENT#: CH014 A	LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS		
04/25/90	OG'S ANADSCAT	1	2 x 15 SURFACE	11-50	4	PT	EAST SIDE OF STREAM <u>UITZ</u> : PATCHY TAR PATTIES.		
04/25/90	OG'S ANADSCAT	2	1 x 25 SURFACE	11-50	4	PT	WEST SIDE OF STREAM, A COUPLE METERS FROM STREAM BANK, <u>UITZ</u> : PATCHY PATTIES.		

DATE PRINTED: 10/17/91

NON-DUCK STREAMS

PAGE 23

04/25/90	OG'S ANADSCAT	3	SUBSURFACE		NONE	2 PITS DUG - NO OIL ENCOUNTERED.
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MAD vs. OG: NO CONFLICTS
COMMENTS:

OG SUPPLEMENTAL INFO TO MAD

RECORDER: Weseman RED-DATE: 10/3/91

PAGE

CATALOG NUMBER: 226-20-16255

STREAM NAME:

LOCATION: Old Chenega Village

SEGMENT NUMBER: CHØ14

SHORELINE TYPE: COVE

DATE: 4/25/90 TIME:

OG vs. MAD: No conflicts

[illegible]

CATALOG NUMBER: 2262016255

STREAM NAME:

LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE

SEGMENT NUMBER: CH014 A

SHORELINE TYPE:

DATE: 04/11/90 TIME: BEACH-1128

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	1	40			5		SURFACE	AP	

COMMENTS:

SMALL BROKEN BANDS OF ASPHALT 4 METERS DOWN FROM BEACH GRASS/SNOW. BAND IS 1-3 FEET WIDE, 40-50 METERS LONG BUT DISCONTINUOUS SMALL ROUND PATCHES - NOT MUCH PENETRATION - (2-3"). MAJORITY OF ASPHALT IS JUST BELOW OLD SCHOOL HOUSE. NO APPARENT OIL AT LOW INTERTIDAL AREA.

RECOMMENDATIONS: JOE HAZELWOOD AGAIN. SHOVEL REMOVAL, BAG IT, AND REMOVE. A PERFECT JOB FOR A SMALL MOBILE CREW TO DO SOMETHING CONSTRUCTIVE.

OIL ON STREAM BANKS: NO

OIL

WITHIN 1 MILE OF STREAM: YES, UPPER INTO 20 FT DOWN SNOW/GRASS.

CATALOG NUMBER: 2262016255

STREAM NAME:

LOCATION: CHENEGA ISLAND, NEAR OLD CHENEGA VILLAGE

SEGMENT NUMBER: CH014 A

SHORELINE TYPE:

DATE: 04/25/90 TIME: BEACH-1230

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
2	1	25			4		SURFACE	AP	west side up to stream bank - exposed & buried tarmat
1	2	15					SURFACE	AP	east side up to stream bank - tarmat

COMMENTS:

SPORADIC TARMAT/ASPHALT BAND 1 TO 2 METERS WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND HAS BEEN COVERED BY 1/2" OF DRY GRAVEL.

RECOMMENDATIONS: MANUAL REMOVAL OF TARMAT.

STREAM BANKS: NO

OIL ON

1/2 inch

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHS MMHS PTA

2 REGION: FWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 1500

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1155

16 HIGH TIDE HTS: +11.0

22 OBSERVERS: Mike Wiermer

5 STOP TIME: 1230

17 LOW TIDE TIMES: 0815

23 AGENCY: ADF&G (ANADSCAT)

6 SEGMENT #: CH-14

18 LOW TIDE HTS: -4.0

24 PHOTOS TAKEN: Y ☒

7 STATION #:

19 TIDE HT AT SURVEY: +6 FT

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y ☒ TAPE#:

9 STAT AREA:

20 USCG QUAD: SEW B-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

Oil

13 LOCATION: CHENEGA VILLAGE

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	25	1			15	2		

36 CATALOGED ANAD. FISH SREAM? Y N

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
28 SURFACE THICKNESS	4CM							
29 PENETRATION	SAME							

37 CATALOG #: 2261-20-16255

38 STREAM NAME:

30 OVERALL OIL IMPACT: N VL ☒ L M H

39 OIL IN STREAM BED? Y ☒

31 OIL TYPE: Pooled Mousse Tar ☒ Asphalt Sticky Stain

40 OIL ON STREAM BANKS? Y ☒

32 OILED DEBRIS? Y ☒

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

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

43 ANADROMOUS FISH PRESENT? Y ☒

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: SPORADIC TAR MAT/ASPHALT BAND 1 TO 2 METERS WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND HAS BEEN COVERED BY 1/2" OF DRY GRAVEL.

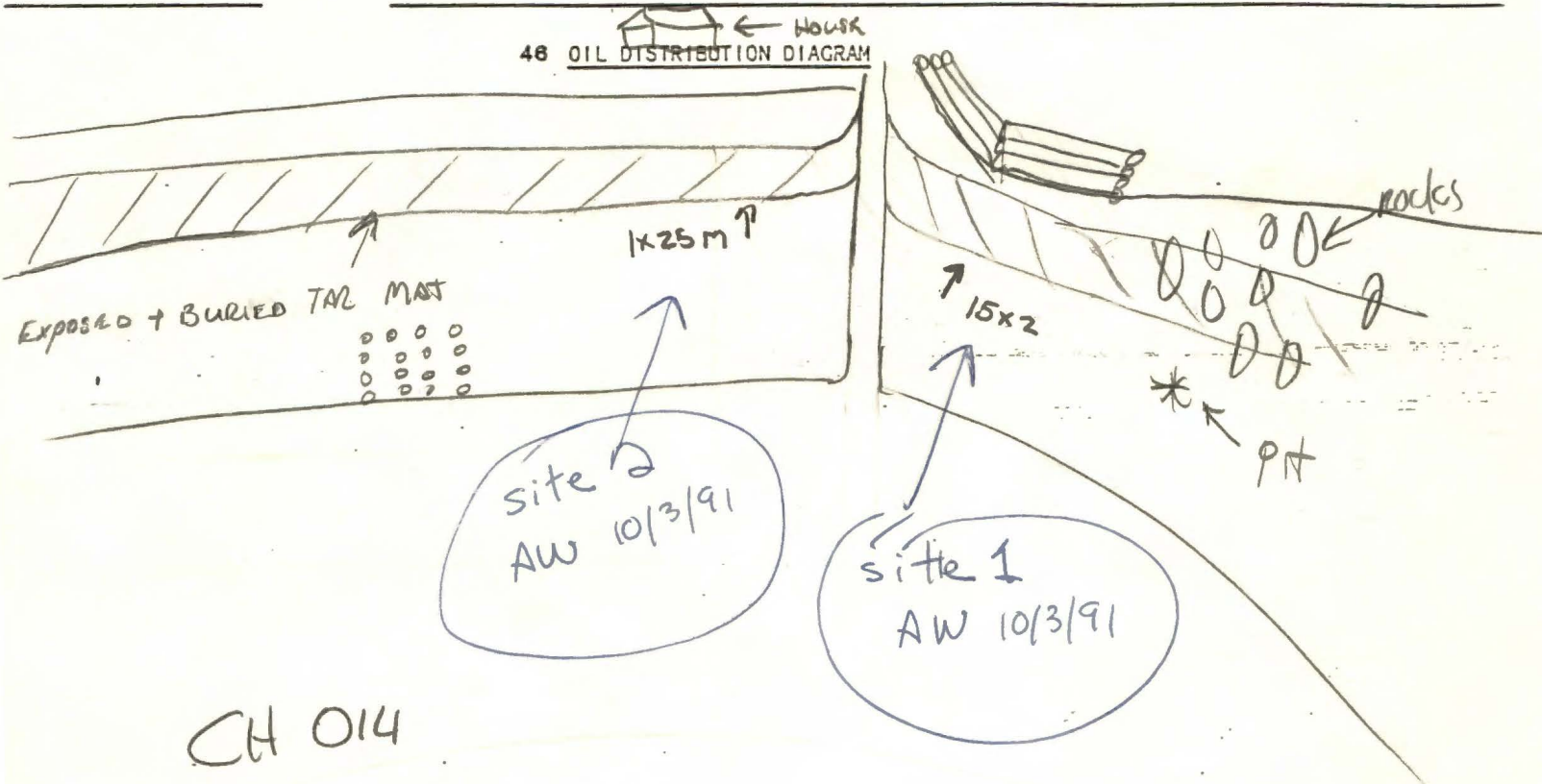
ACE 7236546+15

FRAME(S)

DESCRIPTION

RECOMMEND: MANUAL REMOVAL OF TAR MAT

46 OIL DISTRIBUTION DIAGRAM



CH 014

226-20-16255

4/25/90

TWC

OPERATIONS FIELD NOTES

See Back for Instructions

31/54

SEGMENT ID ANAD CH-014
 STREAM ID # 226-20-16255
 ANNOTATED MAP INCLUDED Y/N

DATE 4-25-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
				None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	SPORADICALLY		NONE						
Medium Band	STAINED.	LESS THAN								
Narrow Band	170									
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 SPORADIC	15	2	4			✓	10		1
Area #2 SPORADIC	25	1	4			✓	10		1
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	NONE							
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

Wave Exposure H/M/L

Snow covering 0 % of the Supratidal Zone?

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:

MANUALLY REMOVE SPORADIC TAR PATTIES IN AREAS 1 & 2 AS NOTED ON ATTACHED MAP. NO OTHER TREATMENT NECESSARY. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 2.

ACE 7236548+15

OG WILLIAM REID

SEGMENT ST/ CH-014

STREAM 226-20-16255

DATE / 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)
- ☐ Pli Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

Pli - No Subsurface Oil

2 ▲

Pli - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

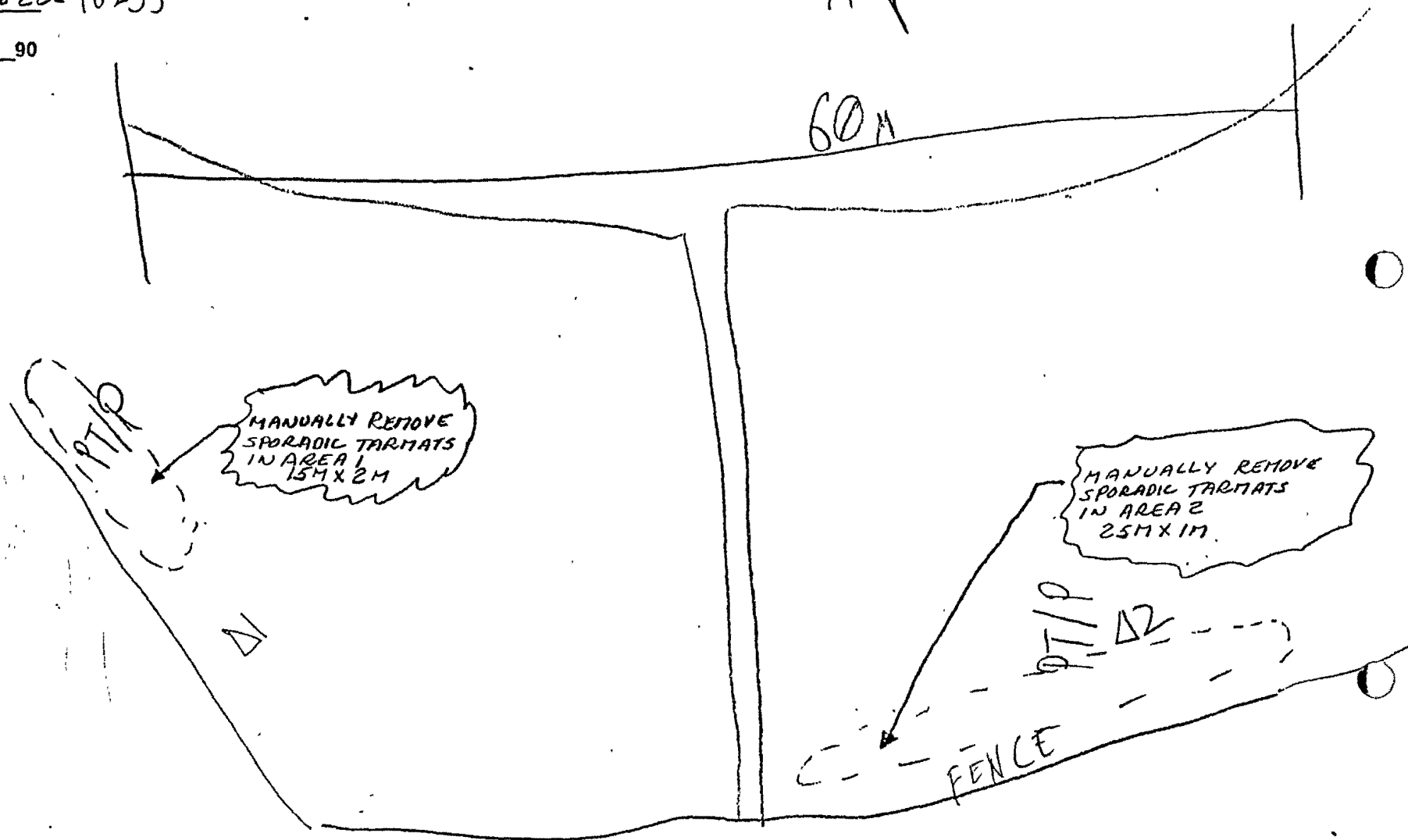
CT/S

Splashed Distribution

Oil Vegetation

Photo location, direction,
and number

SKETCH MAP



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

REVISION: 03/24/90

32/51

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1CH 014 SUBDIVISION: 16 255 DATE 4/25/90

USCG

NAME CWO MR MAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR MATS
LEFT + RIGHT.

~~ADFG~~
ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUALLY REMOVE TAR MAT / ASPHALT ON LEFT +
RIGHT SIDE OF CREEK AT APPROPRIATE AREA. CARE
SHOULD BE TAKEN TO RECOGNIZE THAT THIS ASPHALT
IS COVERED IN PLACES WITH 1/2" TO 1/2" OF FRESH GRAVEL
AND IS HARD TO SPOT.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

34/54

ACF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES SS OS TS AVS SCFA MMS PTA

2 REGION: FWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 15001

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1155

16 HIGH TIDE HTS: +11.21

22 OBSERVERS: Mike Wiromer

5 STOP TIME: 1230

17 LOW TIDE TIMES: 08151

23 AGENCY: ADFG (ANADSCOT.)

6 SEGMENT #: CH-14

18 LOW TIDE HTS: -4.01

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY: +6 ft

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA:

20 USCG QUAD: SEW B-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

Oil

13 LOCATION: CHENECA VILLAGE

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	N	M ²	%	L	N	M ²	%
27 SURFACE COVERAGE	25	1			15	2		

36 CATALOGED ANAD. FISH SREAM? Y N

28 SURFACE THICKNESS	4cm							
29 PENETRATION	SAME							

37 CATALOG #: 226-20-16255

38 STREAM NAME:

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

39 OIL IN STREAM BED? Y (N)

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

40 OIL ON STREAM BANKS? Y (N)

32 OILED DEBRIS? Y (N)

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

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

43 ANADROMOUS FISH PRESENT? Y (N)

34 WAVE EXPOSURE: High (Moderate) Low

44 ANADROMOUS FISH OBSERVATION

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

Species	Aerial	Ground

COMMENTS: SPORATIC TAR MAT/ASPHALT BAND 1 TO 2 METERS WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND HAS BEEN COVERED BY 1/2" OF DRY GRAVEL.

ACE 7236551

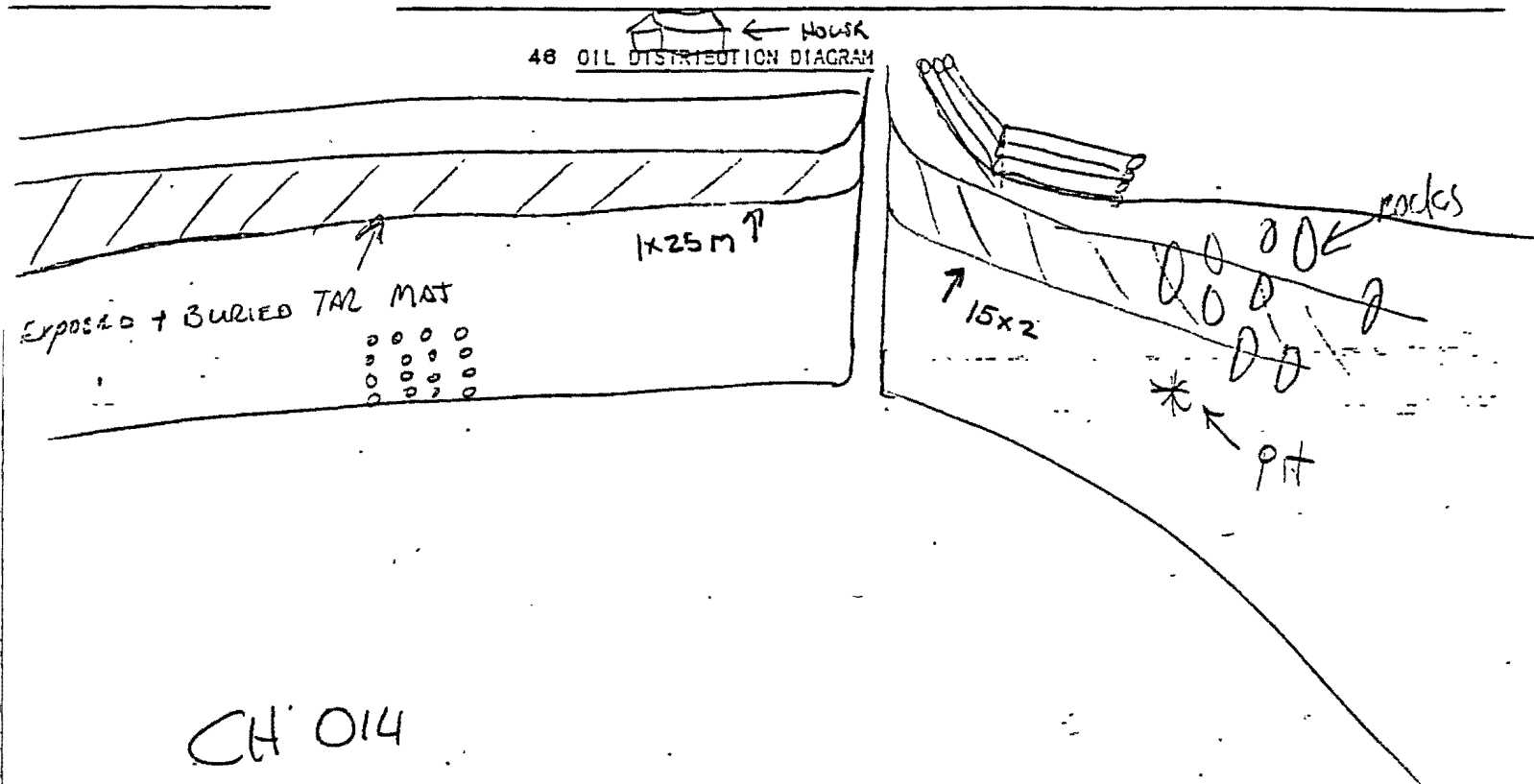
FRAME(S)

DESCRIPTION

RECOMMEND: MANUAL REMOVAL OF TAR MAT

I agree with recommendation. *W. H. Fawcett*

48 OIL DISTRIBUTION DIAGRAM



CH 014

226-20-16255

4/25/90

TWC

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 04/1

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ CH014 36/51
 BIO MICHAEL FAWCETT LAND REP 5 STREAM 226-20-16255 OF 5
 EXXON CUS GARCIA ADFG MIKE WIEDMER TIME 12:0010
 TEAM NO. 15 TIDE LEVEL +7 FT DATE 25 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 35 % B 65 % C 35 % P 65 % G 35 % S 35 % M 35 % V
 SLOPE: Lang 35 % Hang 35 % Vert 35 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 30 m M 30 m N 30 m VL 30 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	FC	FB	FP	FS	SP	BP	RP	GP	TP	LP	BP	TP	SU	UX	ME	LI
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES			X				X							X		
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 30 sq. m by 30PATTIES / TARBALLS 30 BACNEAR SHORE SHEEN? ☒ NO BR RW SL T

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect
DEBRIS
☐ YES ☒ NO

TYPE 30#BAGS 30

Photographs:

Roll No. 30Frames 30

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	V	SURFACE SUBSURFA SEDIMENT	
		OP	OR	OL	OF	NO		UO	UC	SP BP	DP RP	GP TP	LP TP	LP TP	SU	U	M	U								
1	40					X	•									X							N			P/G/K
2	35					X	•									X							N			P/G/C
							•																			
							•																			
							•																			
							•																			
							•																			
							•																			
							•																			

COMMENTS

REVIEWED 30 DATE 30

ACE 7236553

15/13

OG WILLIAM REID

SEGMENT ST/ CH81A

STREAM 226-20 - 16255

DATE 25 / APR 90

SKETCH MAP

CHECKLIST

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

LEGEND

1 ▲
PII - No Subsurface Oil

2 ▲
PII - Subsurface Oil

CT/C
Continuous Distribution

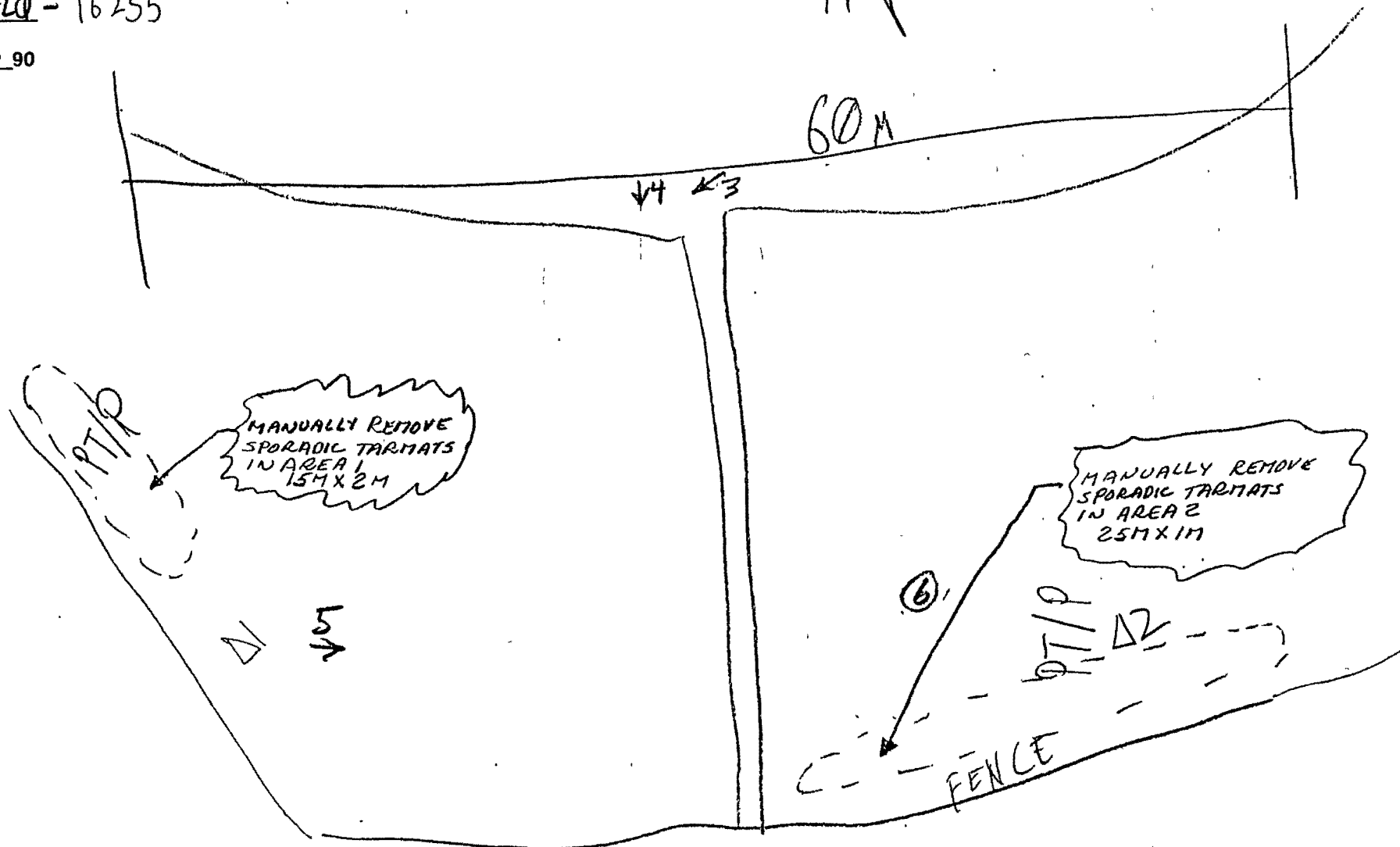
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

eee
Oiled Vegetation

1 ●
Photo location, direction,
and number



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

REVISION: 03/24/90

ACE 7236554

Segment CH 014

4/25/90

Stream 226-20-16255

Michael Fawcett

Ecological Summary

The intertidal portion of this small stream is very short (about 30m), crossing a shale cobble/pebble/gravel beach littered with rusting iron junk. The sediments are unstable, and macrobiota is sparse, mainly patchy Fucus and barnacles around the stream mouth. Some small tar mats were found in UTZ north of the stream. Manual removal suggested. No ecological constraints.



39/54

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-20-
SEG ID: CH019 SUBDIV: 16255 TEAM: AS-15 SURVEY DATE: 4/25/90
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: 60 OIL CATEGORY: W - M - N - VL 30 NO 30 U -

SURFACE DATA

SURFACE SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN - MUD - VEG -

CHAR #: 1 OIL CHAR: PT OIL DIST: CONT - BRKN - PTCH X SPLH -
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 -

40/54

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: CH014 SUBDIV: 226-20-16255

PIT # 1 PIT DEPTH 40 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 2 PIT DEPTH 35 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X 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 —

PROBLEMS: —

ACE 7236557-15

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: CH014
LOCATION: S CHENEGA ISLAND

DATE: 10/11/89
TIME: 16:45

Survey Type: Boat, Ground
Team: D. Zobrist, H. Wood

WEATHER AND SEA CONDITIONS

Weather: Cloudy, Rain Wind Direction: NW
Sea State: Calm Knots: 0-15

Low Tide: 5:18	Feet: 1.32	High Tide: 11:41	Feet: 11.1
Low Tide: 17:41	Feet: 2.77	High Tide: 23:42	Feet: 11.7

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

Degree of Oiling: VL,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: 3 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): n
Oil Types: SY,T,A
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: CH014-1 / CH014-2 / none / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:02

Walk-a-thon

ACE 7236521

ANONYMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-14 STREAM NO: 226-20-16255 DATE 4/25/90

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)
6Y Recreation: Special use destination
6U Recreation: Tent sites (6/1 to 9/15)
6V Recreation: Anchorages (6/1 to 9/15)
7HH Subsistence area: Finfish harvesting
7JJ Subsistence area: Invertebrate harvesting

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:

An Exxon archaeological monitor is required on-site during shoreline treatment.

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

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats in
areas indicated on sketch maps. Work should be conducted between 5/15
and 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90

ADEC ART WEINER *Art Weiner*

EXXON ANDY TATE *Andy Tate*

NOAA Burl Wescott *Burl Wescott*

USCG D.D. ROME *D.D. Rome*

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

NOTIFY CVC 24 HRS IN ADVANCE
OF WORK

ACE 7236558

STREAM TREATMENT REPORT
Alaska Department of Fish and Game
Tom Crowe

June 20, 1990

ASC # 226-20-16255

Segment CH-014

Observations A UITZ tar mat band extends along the north side of the stream across a beach of continuous gravel. Oiled tar mats and patties occur on the south side of the channel starting in small gravel and running on into a rock outcropping.

June 20, 1990

1330 Land in helicopter 90X at Beach site on CH014. The beach crews had just completed the tar mat removal at this site and were preparing to demobe the area. After talking to Bob McReady (DEC) and Randy Boyer (EXXON) we agreed that the work was done satisfactory to the ANAD work order.

One supersack of oiled sediments were removed from this stream site.

ACE 7236522

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						



34

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 10/10/89

TIME: -0-

SEGMENT#: CH015A

STATION#: -0-

LOCATION: CHENEGA ISLAND

REASON FOR TAKING PHOTO: OLD CHENEGA VILLAGE. UNDOC. SALMON SPAWNING
STREAM.

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG009V FRAME #: 34

EVIDENCE ID#: 10212

ACE 7236525+|pkt|-|pkt

4.2.5.11
File Ace
1199710STREAM TREATMENT REPORT
Alaska Department of Fish and Game
Tom Crowe

June 20, 1990

ASC # 226-20-16255Segment CH-014

Observations A UITZ tar mat band extends along the north side of the stream across a beach of continuous gravel. Oiled tar mats and patties occur on the south side of the channel starting in small gravel and running on into a rock outcropping.

June 20, 1990:

1330 Land in helicopter 90X at beach site on CH014. The beach crews had just completed the tar mat removal at this site and were preparing to demobe the area. After talking to Bob McReady (DEC) and Randy Boyer (EXXON) we agreed that the work was done satisfactory to the ANAD work order.

One supersack of oiled sediments were removed from this stream site.

ACE 1967900

STREAM TREATMENT REPORT
Alaska Department of Fish and Game
Tom Crowe

June 20, 1990

ASC # 226-20-16255

Segment CH-014

Observations A UITZ tar mat band extends along the north side of the stream across a beach of continuous gravel. Oiled tar mats and patties occur on the south side of the channel starting in small gravel and running on into a rock outcropping.

June 20, 1990

1330 Land in helicopter 90X at beach site on CH014. The beach crews had just completed the tar mat removal at this site and were preparing to demobe the area. After talking to Bob McReady (DEC) and Randy Boyer (EXXON) we agreed that the work was done satisfactory to the ANAD work order.

One supersack of oiled sediments were removed from this stream site.

ACE 7236526+1AC



ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-20-16255

SEGMENT CH-14 SUBDIVISION A

WORK WINDOW	
Tarmat Removal	OPEN

ARCHAEOLOGICAL MONITOR REQUIRED ON SITE.

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

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-20-16255) is in Subdivision A. No constraint to tarmat removal.

7HH Subsistence: Finfish Harvesting

No constraint to tarmat removal.

7JJ Subsistence: Invertebrate Harvesting

No constraint to tarmat removal.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Restrict boat and air traffic and beach disturbance to essential minimum after 7/1.

SEE SUBDIVISION CONSTRAINT ADDENDUM CH-14A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

Date

6-10-90

Prepared by

Date

6/10/90

ACE 7236527+15

CH-14

ANADROMOUS STREAM
226-20-16255

WORKAREAS

CH-18

Active Nest

CH-16

Active Nest

CH-15

Active Nest

ANADROMOUS STREAM
EVALUATION

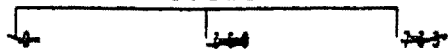


Exxon Company, USA

Map Key: PWS-CH-15

June 04, 1990

ECOLOGY MAP
SEGMENT CH-15
SUBDIVISION A (1011)
METERS



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

ACE 7236528

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-14 STREAM NO: 226-20-16255 DATE 4/25/90

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)
6Y Recreation: Special use destination
6U Recreation: Tent sites (6/1 to 9/15)
6V Recreation: Anchorages (6/1 to 9/15)
7HH Subsistence area: Finfish harvesting
7JJ Subsistence area: Invertebrate harvesting

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:

An Exxon archaeological monitor is required on-site during shoreline treatment.

SHPO SIGNATURE: [Signature] DATE: 5/1/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats in
areas indicated on sketch maps. Work should be conducted between 5/15
and 7/10.

ANAD. FISH
SET, ADDENDUM dated 6/10/90 JPP

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90

ADEC ART WEINER
EXXON ANNY TATE
NOAA Burl Wescott
USCG D. D. ROME

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

NOTIFY CVC 24 HRS IN ADVANCE
OF WORK

ACE 7236529

ADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-14 STREAM NO: 226-20-16255 DATE 4/25/90

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)
6Y Recreation: Special use destination
6U Recreation: Tent sites (6/1 to 9/15)
6V Recreation: Anchorages (6/1 to 9/15)
7HH Subsistence area: Finfish harvesting
7JJ Subsistence area: Invertebrate harvesting

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

An Exxon archaeological monitor is required on-site during shoreline treatment.

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

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 5/15 and 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90

ADEC ART WEINER

EXXON AMY TAYLOR

NOAA Burl Wescott

USCG D.D. ROME

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

NOTIFY CVC 24 HRS IN ADVANCE
OF WORK

ACE 7236530 -15

Alaska Department of Fish and Game

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

25 April 1990

ASC # 226-20-16182

Segment CH-009

Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove bordered by bedrock walls. The substrate is composed predominantly of shale cobble and gravel. A very rich biota occurs throughout the lower intertidal zones below the oiled areas.

A wide range of oiling types and degrees exist at this site (see ADF&G Multi-Assessment Form for specific descriptions). While this site still contains significant amounts of subsurface oil, treatment of this site will be difficult. Moderate concentrations of oil have penetrated deeply into a poorly sorted shale boulder, cobble, gravel, sand matrix along the upper-intertidal zone west of the channel.

Other than complete removal of the substrate, elimination of oil will be difficult. Additionally, the very rich intertidal flora and fauna adjacent to the oiled zone will be at risk during and after extensive treatment operations.

Treatment Recommendations All surface tar mats and patties should be manually removed. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-16200

Segment CH-900

Observations Large shale cobbles and boulders compose the substrate of this low-exposure cove. A band of sporadic tar patties rings the high tide line on either side of the channel. No significant subsurface oil was identified.

Treatment Recommendations Manually remove tar patties. Trowels may be required to remove oil from interstitial spaces.

ASC #

226-42-16280

Segment

CH-001

Observations A tar band covering a gravel substrate extends along the high tide line south of the channel. This band has not appreciably weathered since ADF&G staff visited the site in early December. No other oil, either surface or subsurface, was observed at the site.

Treatment Recommendations Manually remove the tar band.

ASC #

226-20-16258

Segment

CH-016

Observations One tar patty was found along the boulder rubble east of the channel. A very light and sporadic stain coated a region of the lower and mid intertidal zone west of the channel. No significant amounts of subsurface oil were observed.

Treatment Recommendations The insignificant quantities observed at the site do not warrant further treatment.

ASC #

226-20-16255

Segment

CH-014

Observations Sporadic tar mats and patties coat cobbles along high tide line of this moderately exposed site. Some of the patties lie just beneath the surface (see ADF&G Multi-Assessment Data Form diagram).

Treatment Recommendations Manual removal of tar mats and patties. Care must be taken to ensure that buried tar patties are removed.

*Processed
5/8/90
Jarn*

RECEIVED
MAY 05 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: CH-14 A

STREAM NO: 226-20-16255

Concur

ADF 6

OK.
TC

ACE 7236531 +15

ADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-14 STREAM NO: 226-20-16255 DATE 4/25/90

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)
6Y Recreation: Special use destination
6U Recreation: Tent sites (6/1 to 9/15)
6V Recreation: Anchorages (6/1 to 9/15)
7HH Subsistence area: Finfish harvesting
7JJ Subsistence area: Invertebrate harvesting

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:

An Exxon archaeological monitor is required on-site during shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats in areas indicated on sketch maps. Work should be conducted between 5/15 and 7/10.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7236532

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

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

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

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

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

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

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

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

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

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

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

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

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

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

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

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

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

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

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

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

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

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

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

7H Deer harvesting (8/15 to 2/28)

7JJ Invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

33/54

SEGMENT ST 164 014 SUBDIVISION: 16 255 DATE 4/25/90

USCG

NAME CWO MR MAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR MATS
LEFT + RIGHT.

ADP-167

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUALLY REMOVE TAR MAT/ASPHALT ON LEFT +
RIGHT SIDE OF CREEK AT UPPER INTERTIDAL AREA. CARE
SHOULD BE TAKEN TO RECOGNIZE THAT THIS ASPHALT
IS COVERED IN PLACES WITH 1/2" TO 1/2" OF FRESH GRAVEL
AND IS HARD TO SPOT.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7236534

ASC # 226-42-16280

Segment CH-001

Observations A tar band covering a gravel substrate extends along the high tide line south of the channel. This band has not appreciably weathered since ADF&G staff visited the site in early December. No other oil, either surface or subsurface, was observed at the site.

Treatment Recommendations Manually remove the tar band.

ASC # 226-20-16258

Segment CH-016

Observations One tar patty was found along the boulder rubble east of the channel. A very light and sporadic stain coated a region of the lower and mid intertidal zone west of the channel. No significant amounts of subsurface oil were observed.

Treatment Recommendations The insignificant quantities observed at the site do not warrant further treatment.

ASC # 226-20-16255

Segment CH-014

Observations Sporadic tar mats and patties coat cobbles along high tide line of this moderately exposed site. Some of the patties lie just beneath the surface (see ADF&G Multi-Assessment Data Form diagram).

Treatment Recommendations Manual removal of tar mats and patties. Care must be taken to ensure that buried tar patties are removed.

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO.

OG William Reed USCG McMAHON SEGMENT ST/ CH014 365
 BIO MICHAEL FAWCETT LAND REP STRAM 226-20-1626X OF
 EXXON Gus Garcia ADFG Mike Viedner TIME 12:00
 TEAM NO. 15 TIDE LEVEL +7 m DATE 25 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 25 % P 65 % G % S % M % V
 SLOPE: Long % Hang % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hi
 OIL CATEGORY LENGTH: W m M m N m VL 30 m NO 30

SURFACE OIL

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

PAVEMENT H F S sq. m by PATTIES / TARBALLS NEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Co
DEBRIS
☐ YES ☒ NTYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SHEEN (%)	Y	SURF/ SUBSUR SEDIME
		OP	OR	OL	OF	NO		NO	NO	1	2	3	4	SU	W	M	U				
1	40					X	.							X					N		P/G
2	35					X	.							X					N		P/G/L
							.														
							.														
							.														
							.														
							.														

COMMENTS

REVIEWED JWDATE 4-27-9

ACE 7236536

Segment CH 014

Stream 226-20-16255

Ecological Summary

4/25/90

Michael Fawcett

The intertidal portion of this small stream is very short (about 30m), crossing a shale cobble/pebble/gravel beach littered with rusting iron junk. The sediments are unstable, and macrobiota is sparse, mainly patchy Fucus and barnacles around the stream mouth. Some small tar wots were found in UTZ north of the stream. Manual removal suggested. No ecological constraints.

M Fawcett

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS SS OS T2 AVS SCH MMS PTA

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 1500

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1155

16 HIGH TIDE HTS: +11.0

22 OBSERVERS: Mike Wilomar

5 STOP TIME: 1230

17 LOW TIDE TIMES: 0815

23 AGENCY: ADFG (ANADSCOT)

6 SEGMENT #: CH-14

18 LOW TIDE HTS: -4.0

24 PHOTOS TAKEN: Y

7 STATION #:

19 TIDE HT AT SURVEY: +6 FT

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y TAPES:

9 STAT AREA:

20 USCG QUAD: SEW B-3

Starts: Ends:

10 LAT:

11 LONG:

26 SAMPLES TAKEN Y N Number

12 SOURCE: Map Loren

Oil

13 LOCATION: CHENECA VILLAGE

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	H	N	S	L	H	N	S
27 SURFACE COVERAGE	25	1			15	2		
28 SURFACE THICKNESS	4CM							
29 PENETRATION	SAME							

30 CATALOGED ANAD. FISH BREAST? Y N

37 CATALOG #: 226-20-16255

38 STREAM NAME:

39 OIL IN STREAM BED? Y

40 OIL ON STREAM BANKS? Y

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y

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

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SPORATIC TAR MAT/ASPHALT BAND 1 TO 2 METERS WIDE IN UPPER INTERTIDAL AREA. IN PLACES THIS BAND HAS BEEN COVERED BY 1/2" OF DRY GRAVEL.

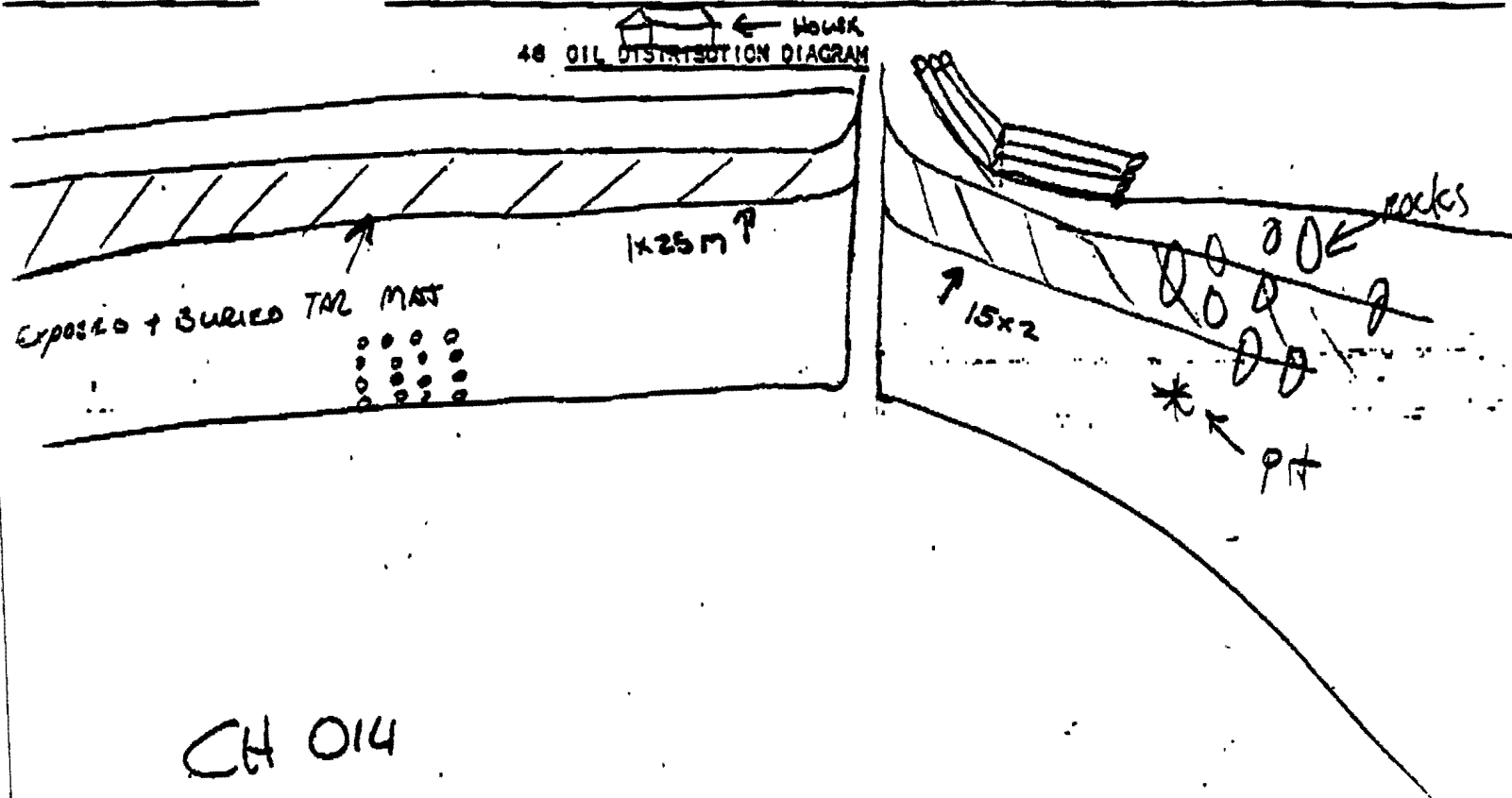
FRAME(S)

DESCRIPTION

RECOMMEND: MANUAL REMOVAL OF TAR MAT

I agree with recommendation. ~~Mr. H. Fawcett~~

48 OIL DISTRIBUTION DIAGRAM



CH 014

226-20-16255

4/25/90

TWC

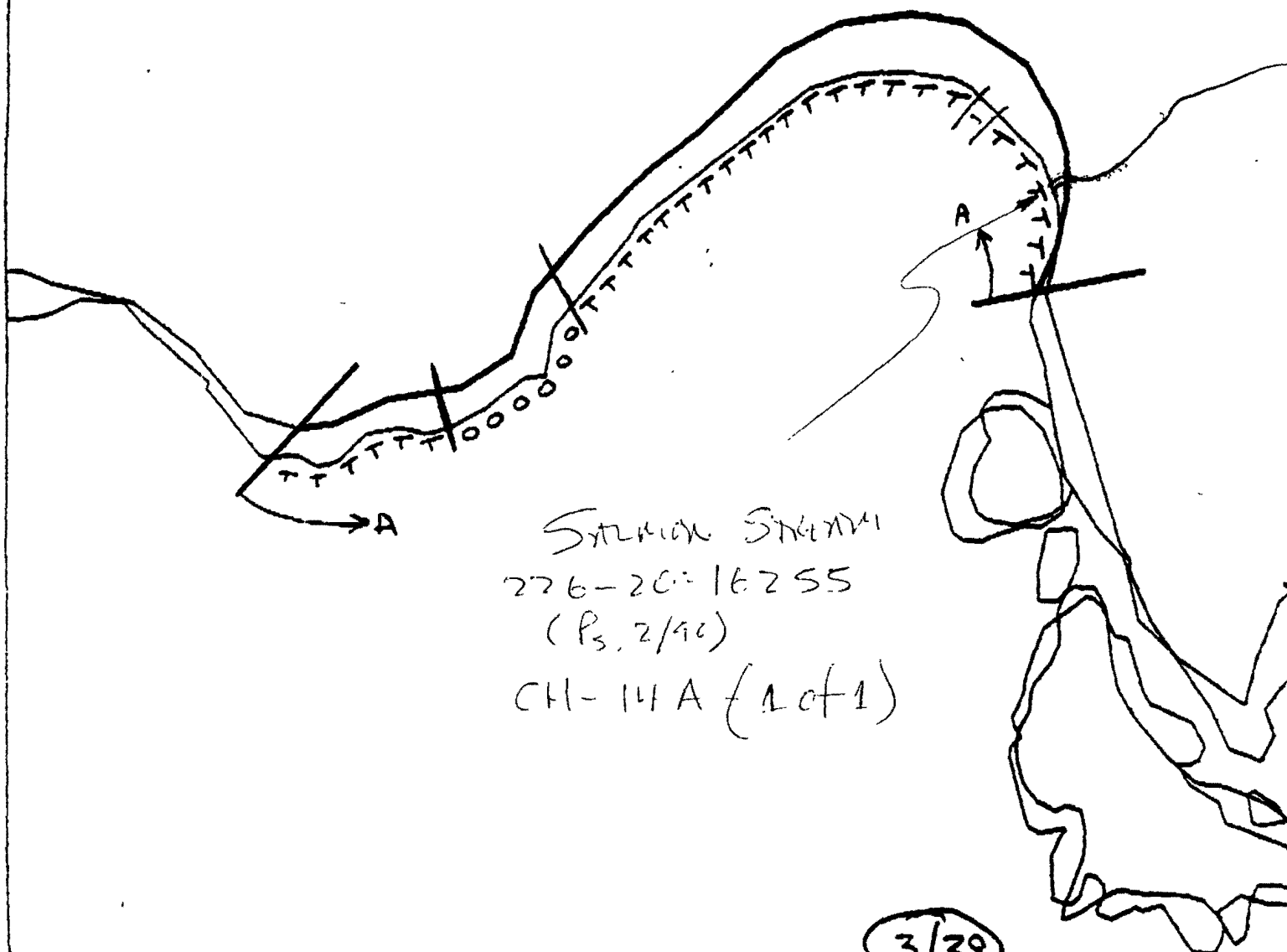
ECOLOGICAL MAP

CH-14

1A, 1B

6Y, 6U, 6V

7HH, 7ST



XXXX Wide

//// Medium

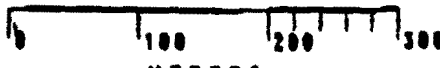
--- Narrow

TTTT Very Light

OOOO No Oil

CH-14

ADEC Segment Length: 1056m



Map Key: PWS-40

Name: Ruby Siegel

Date: 4/19/90

ACE 7236542

Date Entered:

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 12H 014 SUBDIVISION: 16 255 DATE 4/25/90

USCG

NAME CWO MC MAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

1. MANUAL CLEAN-UP; REMOVE TAR MATS
LEFT & RIGHT.

ADFG

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

MANUALLY REMOVE TARMAT/ASPHALT ON LEFT &
RIGHT SIDE OF CREEK AT UPPER INTERTIDAL AREA. CARE
SHOULD BE TAKEN TO RECOGNIZE THAT THIS ASPHALT
IS COVERED IN PLACES WITH 1/2" TO 1/2" OF FRESH GRAVEL
AND IS HARD TO SPOT.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

ADF&G MULTI-ASSESSMENT DATA FORM

Pre-ANADSCAT-90 ^{ATW}1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4/11/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: R. Gust4 START TIME: 112016 HIGH TIDE HTS: 122 OBSERVERS: 15 STOP TIME: 122817 LOW TIDE TIMES: 123 AGENCY: ADFG HAS6 SEGMENT #: C401418 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) Number

12 SOURCE: Map Loran

011 _____

13 LOCATION: Chenega Is.

Sediment _____

14 DESCRIPTION: Old Chenega village

Biological _____

beach

Water _____

EXTENT OF OIL

SHORELINE

L W M² %

STREAM

L W M² %

27 SURFACE COVERAGE

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

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL L M H

36 CATALOGED ANAD. FISH SREAM? (Y) N37 CATALOG #: 226-28-76255 ^{ATW}

38 STREAM NAME: _____

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain39 OIL IN STREAM BED? Y (N)40 OIL ON STREAM BANKS? Y (N)32 OILED DEBRIS? (Y) N41 OIL ON BEACH ADJACENT TO MOUTH? (Y) N

(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? (Y) N33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

Lagoon Marsh

Where: upper into 20' down
sump/pans

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 1Gravel 1 Sand _____ Mud/silt _____

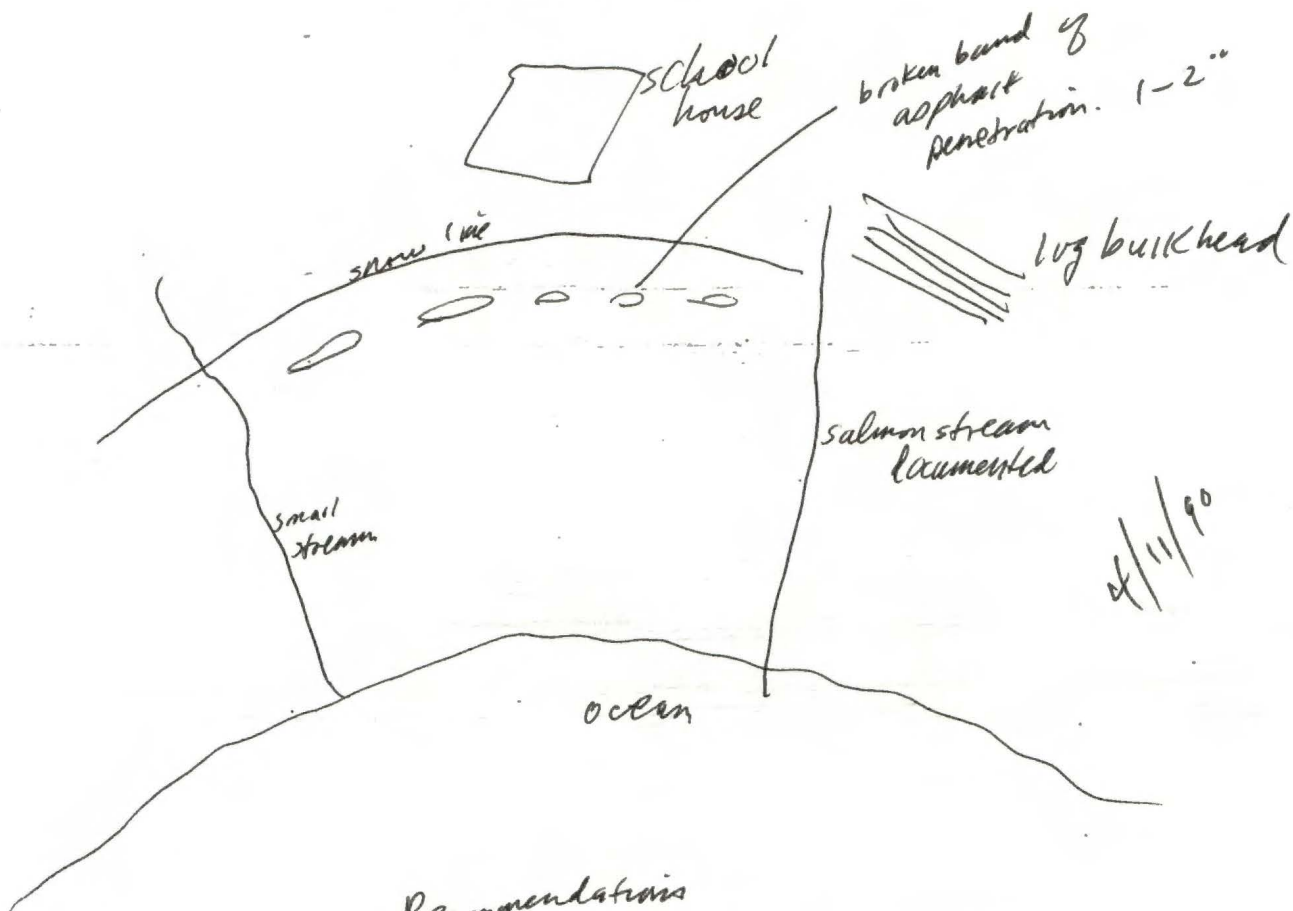
Recommended for anadrom

COMMENTS: Small broken bands of asphalt 4-5 meters down from beach grass/sand
band at 3-4 feet wide 40-50 meters long but discontinuous
small round patches - not much penetration - (2-3")
majority of asphalt is just below old school house
no apparent oil at low intertidal area.

ACE 7236559+15

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

4/11/90

Recommendations

Joe Hazelwood again.
 shovel removal
 bag it and
 remove

CH 014
 226-20-16255 ATW

A perfect job for a
 small mobile crew
 to do something constructive

= Sample taken
 = Photo frame # and
 shot direction.

ACE 7236560-15

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 7/18/89

SHORELINE SEGMENT CH-14

LOCATION: (see enclosed map) Chenega Cove, South Chenega Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/7/89

Recommended Cleanup Activity(ies):

- No cleanup recommended at this time (subject to FOSC reassessment at a later date) due to ecological and archeological constraints.

If cleanup is conducted:

- Manually remove contaminated drift material (fucus).
- Flood/flush with hot water (up to 140 F) on low angle beaches.
- Use moderate to high pressure warm to hot water washing on rock and oiled logs.
- Use other approved methods as appropriate.

Priorities Considerations:

Class 4: light oil

Class A: resources present

Ecological Constraints (from site survey):

Cleanup not recommended as crew activities and redistribution of oil could cause more damage to biota than present oil.

If cleanup is conducted:

- Avoid mussel beds around small springs (see map).
- Limit access to waterfalls.
- Work at 8ft.tide + or take appropriate measures to protect lower intertidal zone.

Archeological Constraints (from site survey):

No cleanup recommended due to visibility and fragility of Old Chenega Village remains. If cleanup is conducted inspection by an archaeological monitor is recommended during cleanup of sensitive portions of the segment, and 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.

[Signature]
State Historic Preservation Officer *

Date: 1/20/90

ISCC: V

Date: 2/25/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 7236561 +15

DOCUMENTATION:

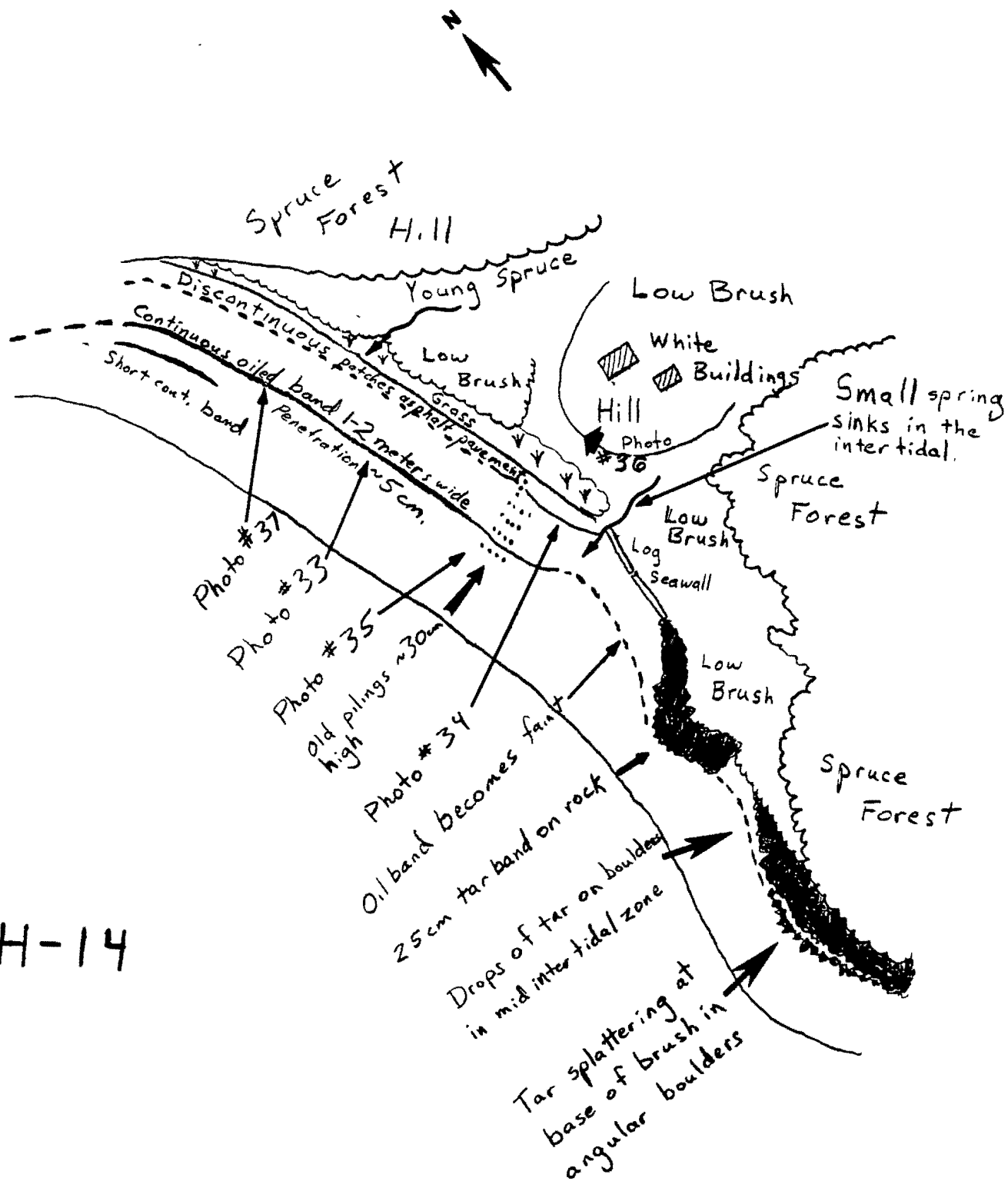
Map Aerial photo marking segment boundaries Seward B3

VTR: Y (N) Tape Number(s) —

Photography: (Y) N Roll Number(s) T5 G 2

Sample Numbers Collected: —

CH-14



ECOLOGICAL EVALUATION

LOCATION: Chenega Island SITE: _____ OBSERVER: Frank

LOCATION PREFIX: CH SEG. NO.: 14 LENGTH: 1200 (M)

DATE: 07/07/89 TIME (HHMM): 0830-1300 TIDE HT.: 0 ft (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 ^{Moderate} Sparse Y/N None Y/N

Moderate on boulders - boulders sparse - 15% rubble/gravel, Dense at Stream Channel

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N ^{Moderate} Sparse Y/N None Y/N

Contin. - 20% on boulders, 20-40% along boulder/gravel near with a few large dense beds interspersed by stream. Stream edge - 80% are less than 2cm long and .5cm wide.

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

Continuous and dense throughout section

Littorina

Patchy Y/N Contin. Y/N Dense Y/N ^{Moderate} Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N ^{Moderate} Sparse Y/N None Y/N

OTHER OBSERVATIONS: Kelp (Laminaria) and Eelgrass Beds, Leather and Sea Star

Part of deer skull and leg, 2 small waterfalls (the one NE has small fresh water influence on beach but disappears near a pipe. Small stream below Schoolhouse. Variety of nesting nests).

CLEANUP PRECAUTIONS: Normal constraints plus crews should avoid

disturbed by small stream. Limit Access to Waterfalls

MAMMALS: Otters _____ Harbor Seals 1 Sea Lions _____ Whales _____
Other _____

BIRDS: Hummingbird, Gulls, Murrelets, Gystercatchers

GENERAL OBSERVATIONS: _____

CULTURAL RESOURCE EVALUATION

Date 7/7/89 + 7/11/89 Location SE Chenega Island Site _____

Location Prefix CH Segment # 14 Length 1200 m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) SEW-019, SEW-039 Data Source AHRS

Oil conditions/beach visibility very light oil, band of moderate, good visibility

Width of beach zone surveyed 20 m Tree fringe surveyed _____

Cultural resources observed in beach zone (AHRS code) HTI, HTD, FCR, PLG

Cultural resources observed in tree fringe (AHRS code) CBN, PLG, HTD, HTI, CMT, CMY

General observations justifying survey method and segment's site probability

Shore Profile narrow talus beach at west end, wide low-energy gravel beach

Fresh Water Sources one major stream at NE Chenega at head of bay

Sea Exposure partly open, small islands at Chenega Cove entrance

Access/Safety easy access, safe anchorage in cove

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 # MM4:13-24 MM2:1-24, MM3:1-18 MM6:2-12

B/W Roll # SL6:2-17 ~~SL6:2-17~~

Observer(s) Madonna Moss, Stephanie Ludwig

Time survey started 5 different times ~~14:00 to 18:00~~ Total 14 1/2 hrs

Cultural resource considerations/restraints:

* Periodic monitor needed if cleanup is conducted. However, recommendation is no cleanup, based on visibility + vulnerability of cultural resources. Documented impacts to cultural resources have occurred since the oil spill, by persons unknown. This form is a composite of 7/7/89 + 7/11/89 forms.

Bight A

FOREST

BOUL

Discontinuous patches of oil
Photo #32 Band average 20 cm.
Discontinuous band of oil
Photo #31-Band of random drips on boulders 20 cm high
Photo #29-Boulder Pocket - Drips Oil Along High Tide Line

X1417

S.C.A.T Team 5

Greg Chaney

Segment: CH-14

Date: July 7 89

Time: 8:40

Tide: 0 (ft)

Location: Chenega
Cove, Chenega Is.
Base Map: Seward
B3

Cem 9

Chen

See Sketch Map

Chenega Cove

CH-14

Village A

ACE 7236566

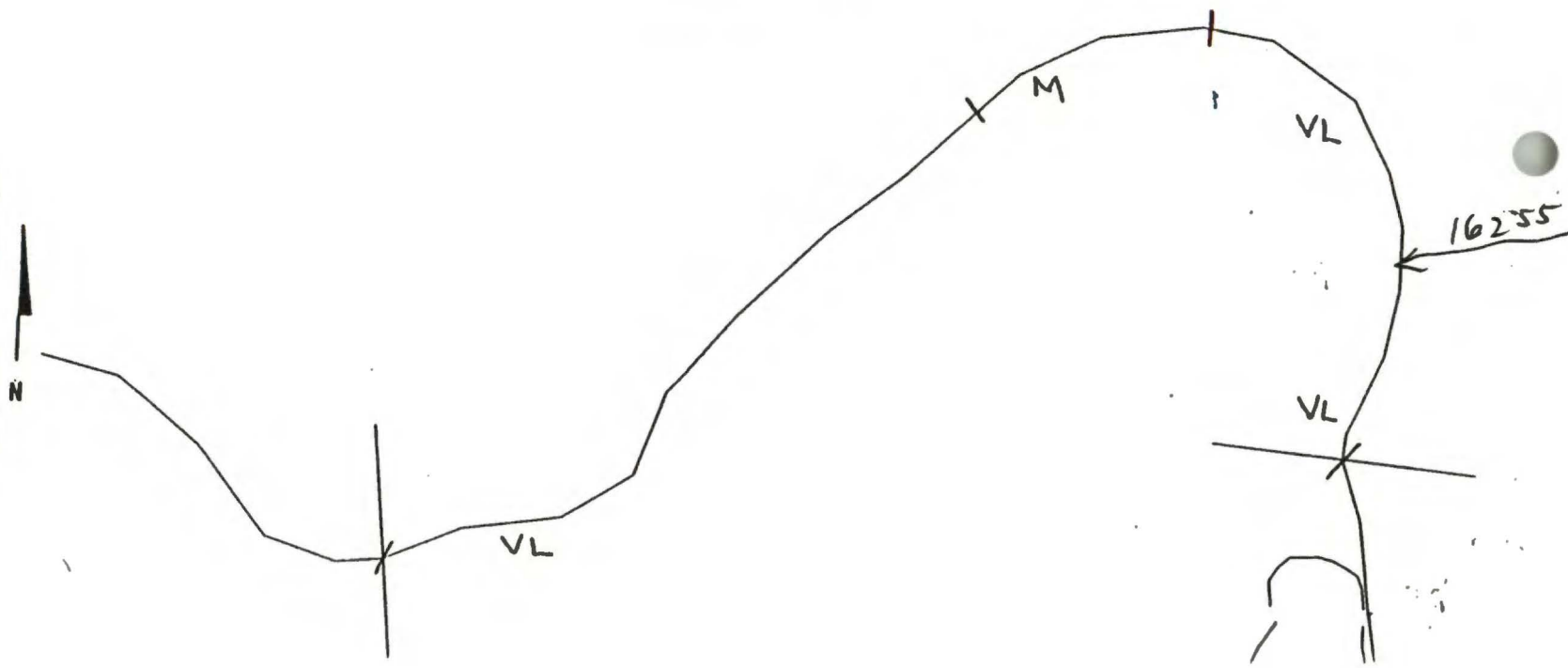
44.

500.0

CH014

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

ADEC Sep/Oct 1989 Survey



CH-900

ASC: 226-20-16200

West side Chenega Island

ACE 1369527



- 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 _____



Pre-ANADSCAT-90 JW

ADF&G MULTI-ASSESSMENT DATA FORM

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

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER:

4 START TIME: 1123

16 HIGH TIDE HTS: 1

22 OBSERVERS: Tom Crowe

5 STOP TIME: 1153

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G ☒ ASW

6 SEGMENT #: XAL 900

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y ☒ N7 STATION #: Ch ☒ ATW

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: Seward B-3

Start: End:

10 LAT: 11 LONG:

26 SAMPLES TAKEN? Y ☒ N Number

12 SOURCE: Map Loran

Oil

13 LOCATION: CHENEGA ISLAND

Sediment

14 DESCRIPTION: CRACK/COVE

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 ☒ H36 CATALOGED ANAD. FISH STREAM? ☒ Y N

37 CATALOG #: 225-20 ASW 16200

38 STREAM NAME:

31 OIL TYPE: Pooled ☒ Mousse ☒ Tar Asphalt Sticky Stain39 OIL IN STREAM BED? ☒ Y N40 OIL ON STREAM BANKS? ☒ Y N

32 OILED DEBRIS? Y N

41 OIL ON BEACH ADJACENT TO MOUTH? ☒ Y N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? ☒ Y N

Where: S&S MAR

33 SHORELINE TYPE: Headland Low-lying Rocks Beach ☒ Cove ☒ Lagoon Marsh43 ANADROMOUS FISH PRESENT? ☒ Y N34 WAVE EXPOSURE: High Moderate ☒ Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock Boulder Cobble ☒ X

Species Aerial Ground

Gravel ☒ X Sand Mud/silt

COMMENTS: LARGE AMOUNT OF STICKY THICK TAR AT UPPER

INTERTIDAL ZONE DEPOSITED THROUGHOUT THIS CRACK.

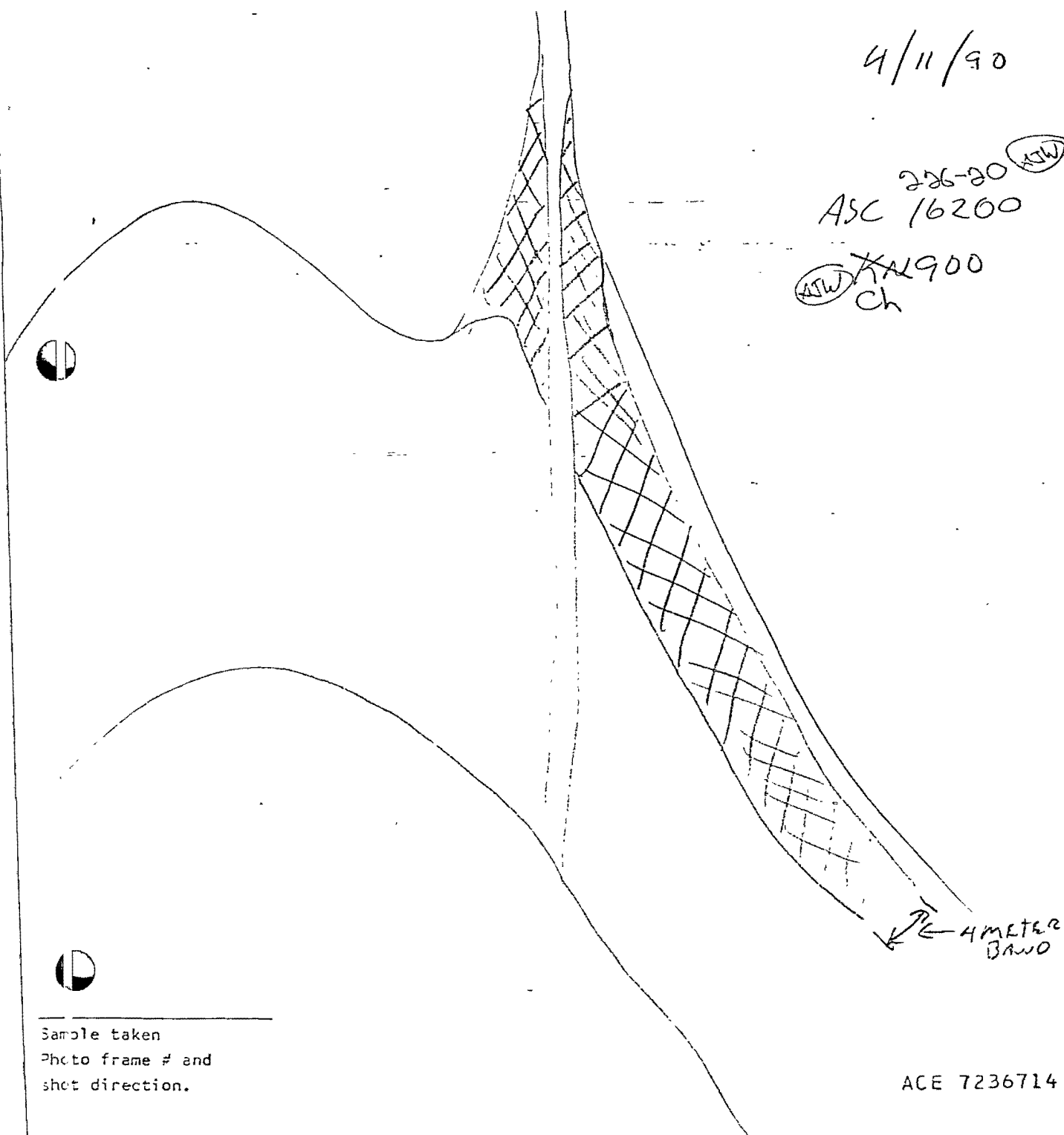
RECOMMEND FULL ANADSCAT

ACE 7236713+5

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



ACE 7236714 -/S

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: 226-20-16200

SURVEY TYPE:

METHOD:

DATE: 4/11/90

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		4					AP/MS
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:



Duplicate

Pre-ANADSCAT-90^{ATW}

ADF&G MULTI-ASSESSMENT DATA FORM

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

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

METHOD: Aerial (Ground) Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: [redacted]

4 START TIME: 1123

16 HIGH TIDE HTS: 1

22 OBSERVERS: TOM CROWE

5 STOP TIME: 1153

17 LOW TIDE TIMES: 1

23 AGENCY: ADF+G (ASW)

6 SEGMENT #: KAL 900

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: CH (ATW)

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: STWARD B-3

Start: End:

10 LAT: 11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: CHENAGA ISLAND

Sediment

14 DESCRIPTION: CRACK/COVE

Biological

EXTENT OF OIL

Water

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

36 CATALOGED ANAD. FISH STREAM? (Y) (N)

37 CATALOG #: 226-20 (ASW)

38 STREAM NAME: 16200

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: S&S MUD

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

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 X
Gravel X Sand Mud/silt

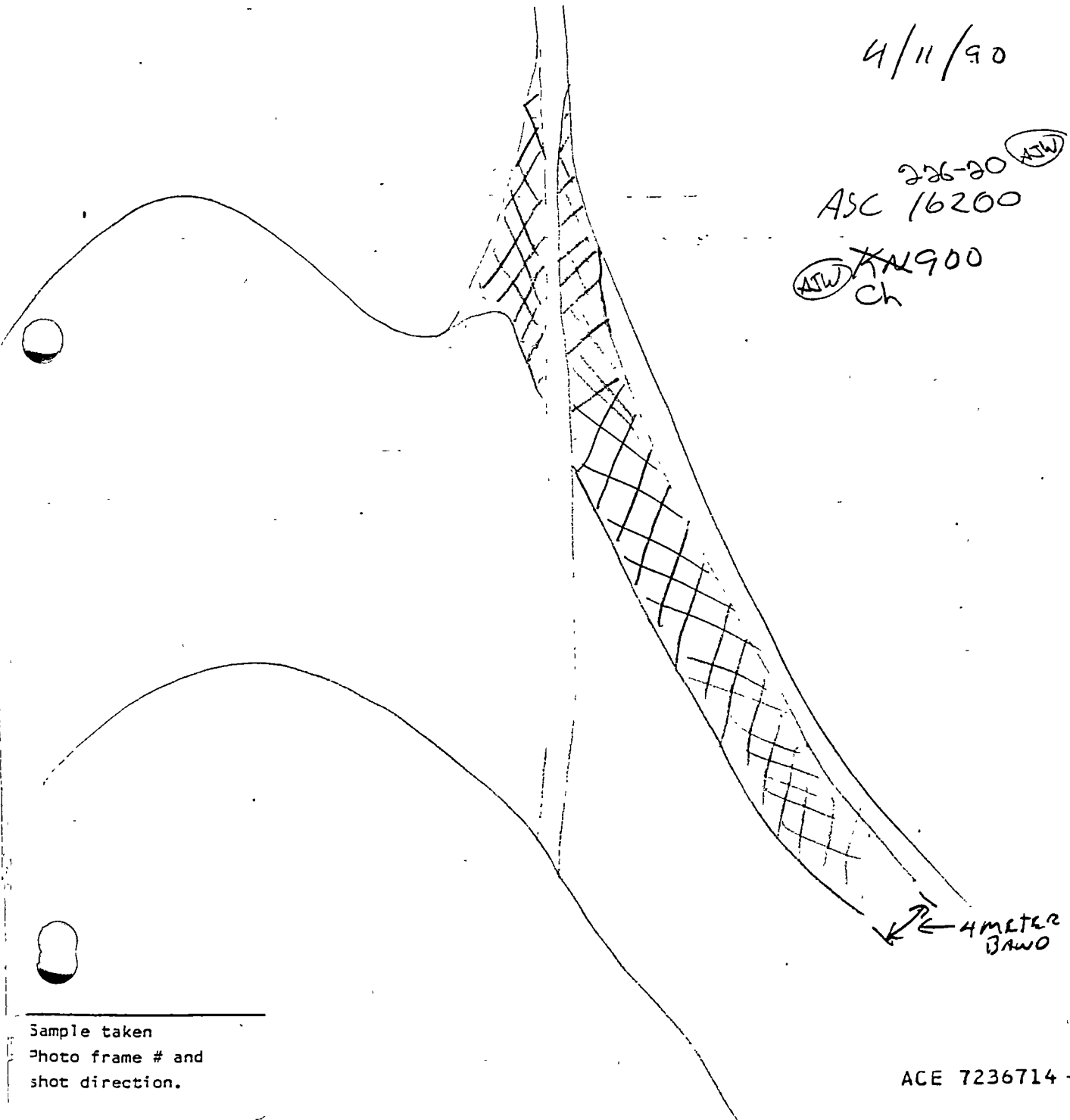
COMMENTS: LARGE AMOUNT OF STICKY THICK TAR AT UPPER
INTERTIDAL ZONE DEPOSITED THROUGHOUT THIS CRACK.

RECOMMEND FULL ANADSCAT

ACE 7236713+15

FRAME(S)	DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

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

ASC NUMBER: 226-20-16200
 SURVEY TYPE:
 METHOD:
 DATE: 4/11/90
 START TIME:
 STOP TIME:

TEAM RECORDER:
 OBSERVERS:
 AGENCY(IES):
 PHOTOS TAKEN?
 Roll #: Frames:
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1. 2. 3.
 4. 5. 6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1		4					AD/MS
SITE 2							AS
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: H

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS: Oil on stream banks



Duplicate

ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS CS TS AVS SC&A MMS PTA

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat3 DATE: 4/25/9015 HIGH TIDE TIMES: 1500 121 TEAM RECORDER: TOM CROWL4 START TIME: 093716 HIGH TIDE HTS: 4.1 FT 122 OBSERVERS: MIKE WIEDMER5 STOP TIME: 095617 LOW TIDE TIMES: 0830 123 AGENCY: ADFG ANADSCAT6 SEGMENT #: CH 90018 LOW TIDE HTS: -4 FT 124 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY: -3 FT

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA:

20 USCG QUAD: SEW B-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: WEST SIDE CHENECA ISLAND

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%
50	5						

36 CATALOGED ANAD. FISH SKEIN? Y N

28 SURFACE THICKNESS

4CM							
-----	--	--	--	--	--	--	--

37 CATALOG #: 226-70-16200

29 PENETRATION

—							
---	--	--	--	--	--	--	--

38 STREAM NAME:

30 OVERALL OIL IMPACT:

N VL L (M) H39 OIL IN STREAM BED? (Y) N

31 OIL TYPE: Pooled

Mousse

Tar

Asphalt

Sticky

Stain

40 OIL ON STREAM BANKS? (Y) N32 OILED DEBRIS? Y (N)41 OIL ON BEACH ADJACENT TO MOUTH? (N) N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? (N) N

Where:

33 SHORELINE TYPE:

Headland

Low-lying Rocks

Beach

Cove

43 ANADROMOUS FISH PRESENT? Y N

Lagoon

Marsh

34 WAVE EXPOSURE:

High

Moderate

Low

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

35 SUBSTRATE TYPE:

Bedrock

Boulder

Cobble

Gravel

Sand

Mud/silt

COMMENTS:

SMALL V-SHAPED COVE WITH LARGE COBBLE
AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT
TAR PIES THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

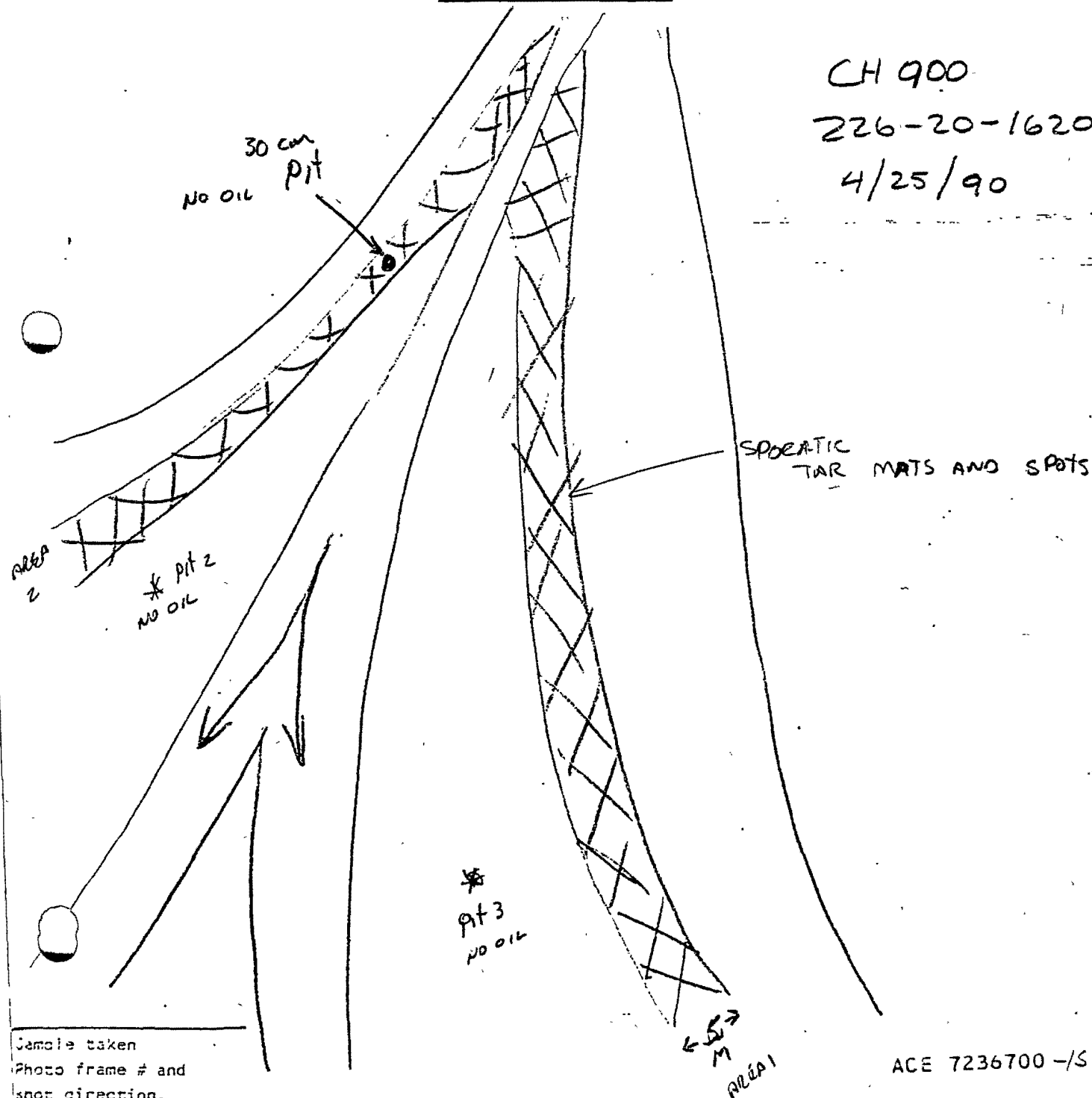
ACE 7236699+15

DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOULDER CREVICES.

48 OIL DISTRIBUTION DIAGRAM



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

ASC NUMBER: 226-20-16200	TEAM RECORDER:
SURVEY TYPE:	OBSERVERS:
METHOD:	
DATE: 4/25/90	AGENCY(IES):
START TIME:	
STOP TIME:	PHOTOS TAKEN?
	Roll #: Frames:
	VIDEO TAKEN? Tape Number:
	Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.	2.	3.
4.	5.	6.

	LENGTH m	WIDTH m	M2	%	THICK ⁱⁿ cm	PEN cm	OIL TYPE
SITE 1	50	5			.04		AP
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL? OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE	
Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS: Oil on stream banks.

Sporadic tar mats in sand at mid intertidal and upper intertidal.

Recommendations: Manual removal of surface tar. Truels may be necessary to get at tar in boulder crevices.

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 1500

21 TEAM RECORDER: TOM CROWE

4 START TIME: 0937

16 HIGH TIDE HTS: +11 FT

22 OBSERVERS: MIKE WIEDMER

5 STOP TIME: 0956

17 LOW TIDE TIMES: 0830

23 AGENCY: ADFG ANADSCAT

6 SEGMENT #: CH 900

18 LOW TIDE HTS: -4 FT

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: -3 FT

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA:

20 USCG QUAD: SW B-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

Oil

13 LOCATION: WEST SIDE CHENEGA ISLAND

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H ²	%	L	M	H ²	%
27 SURFACE COVERAGE	50	5						
28 SURFACE THICKNESS	4CM							
29 PENETRATION	—							

30 OVERALL OIL IMPACT: N VL L M H

36 CATALOGED ANAD. FISH SREAM? Y N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

37 CATALOG #: 226-20-16200

32 OILED DEBRIS? Y N

38 STREAM NAME:

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

39 OIL IN STREAM BED? Y N

34 WAVE EXPOSURE: High Moderate Low

40 OIL ON STREAM BANKS? Y N

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

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

42 OIL WITHIN 1 MILE OF STREAM? 0 N

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SMALL V-SHAPED COVE WITH LARGE COBBLE AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT TAR PILES THAT RUN ALONG UPPER/MID INTERTIDAL ALLY BANK/SORELINE AND DEPOSITED ON STREAM BANK ADJACENT TO STREAM CHANNEL

ACE 7236699+15

DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOULDER CREVICES.

48 OIL DISTRIBUTION DIAGRAM

CH 900
226-20-16200
4/25/90

30 cm.
Pit
NO OIL

SPORATIC
TAR MATS AND SPOTS

* Pit 2
NO OIL

*
Pit 3
NO OIL

← S →
M
AREA 1

Sample taken
Photo frame # and
shot direction.

ACE 7236700 -/S

ASC NUMBER:

SEGMENT NUMBER: *CH900*

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER: *None*

SURVEY TYPE:

METHOD:

DATE: *1/25/90*

START TIME:

STOP TIME:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

WAVE EXPOS:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.
4.2.
5.3.
6.

	LENGTH	WIDTH	M2	%	^m THICK	PEN	OIL TYPE
SITE 1	<i>50</i>	<i>5</i>			<i>.04</i>		<i>AP</i>
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:



ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # Ch 900 ASC# 226-20-16200 Location NW Chenega F

Date 8/8/90 Recorder/Observer Weseman/Crowe/Middleton

Oil in streambed NONE sighted Oil on streambanks yes

Oil within 50m of mouth yes Anadromous Fish present yes

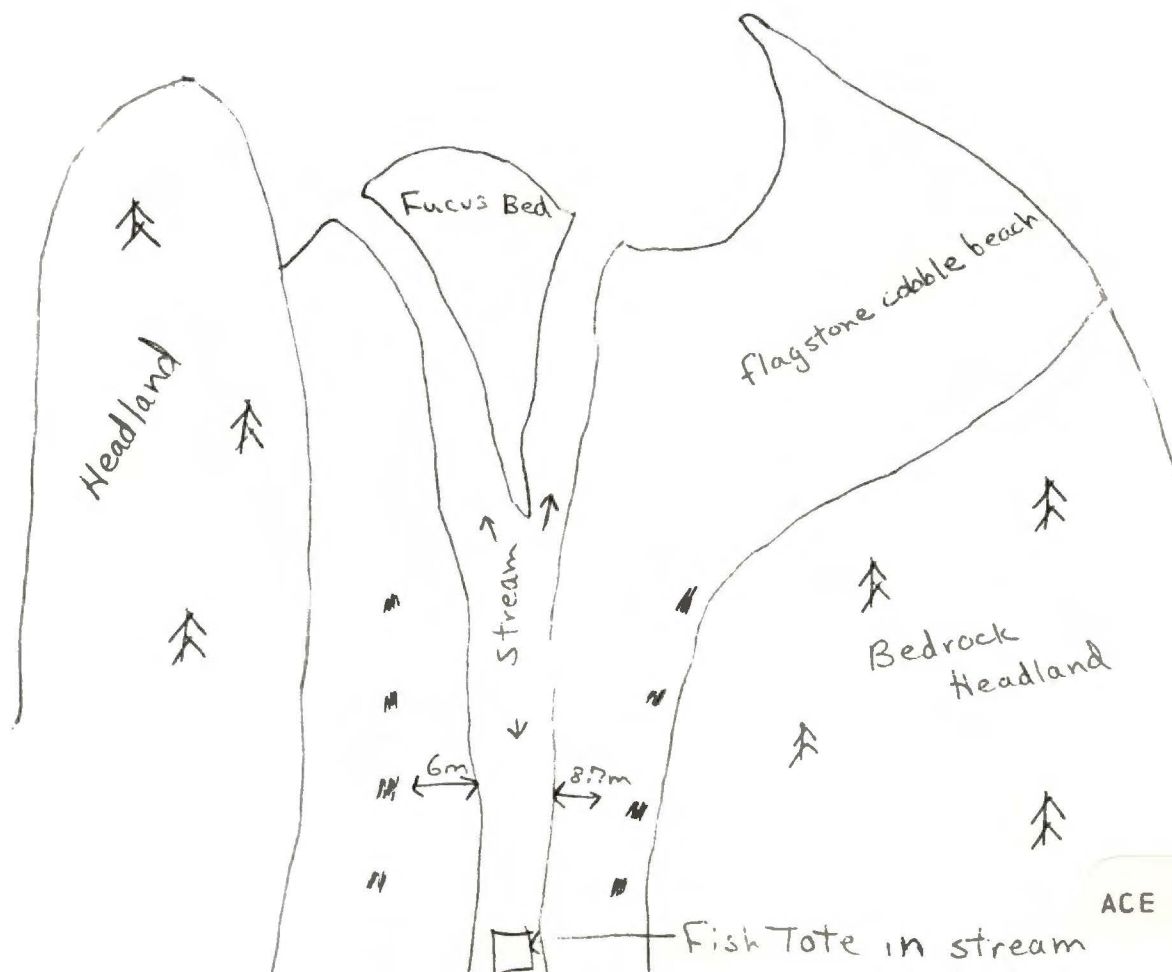
Description of oil and comments

west side of stream - sporadic tar patties in UITZ
.5x.5m - 6m from stream channel at low tide

East side of stream - sporadic tar patties in UITZ - 8.7m
from stream channel at low tide

Recommend - Re-assessment next spring

Oil Distribution Diagram



ACE 7355934

*Dup

FISH STREAMS/OILING CONDITION
PWS

226-AO-16200 Location NW Chonogait

er/Observer Weseman/Crowe/Middleton

Oil on streambanks yes

yes Anadromous Fish present yes

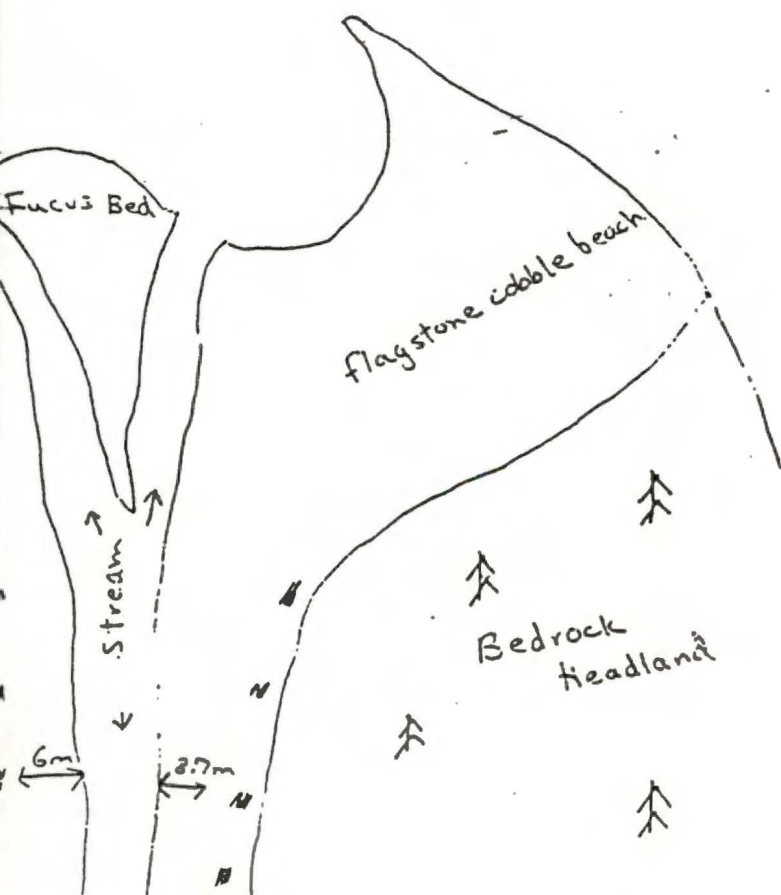
Comments

am - sporadic tarpatties in UITZ
from stream channel at low tide

m - sporadic tarpatties in UITZ - 8.3m
at low tide

assessment next spring

1 Distribution Diagram



Is

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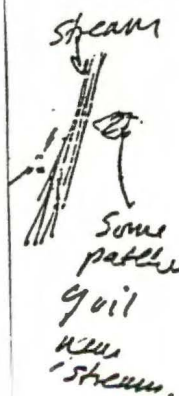
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1 44
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ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # Ch 900 ASC# 226-AO-16200 Location NW Chenega F
Date 8/8/90 Recorder/Observer Weseman/Crowe/Middleton
Oil in streambed None sighted Oil on streambanks yes
Oil within 50m of mouth yes Anadromous Fish present yes

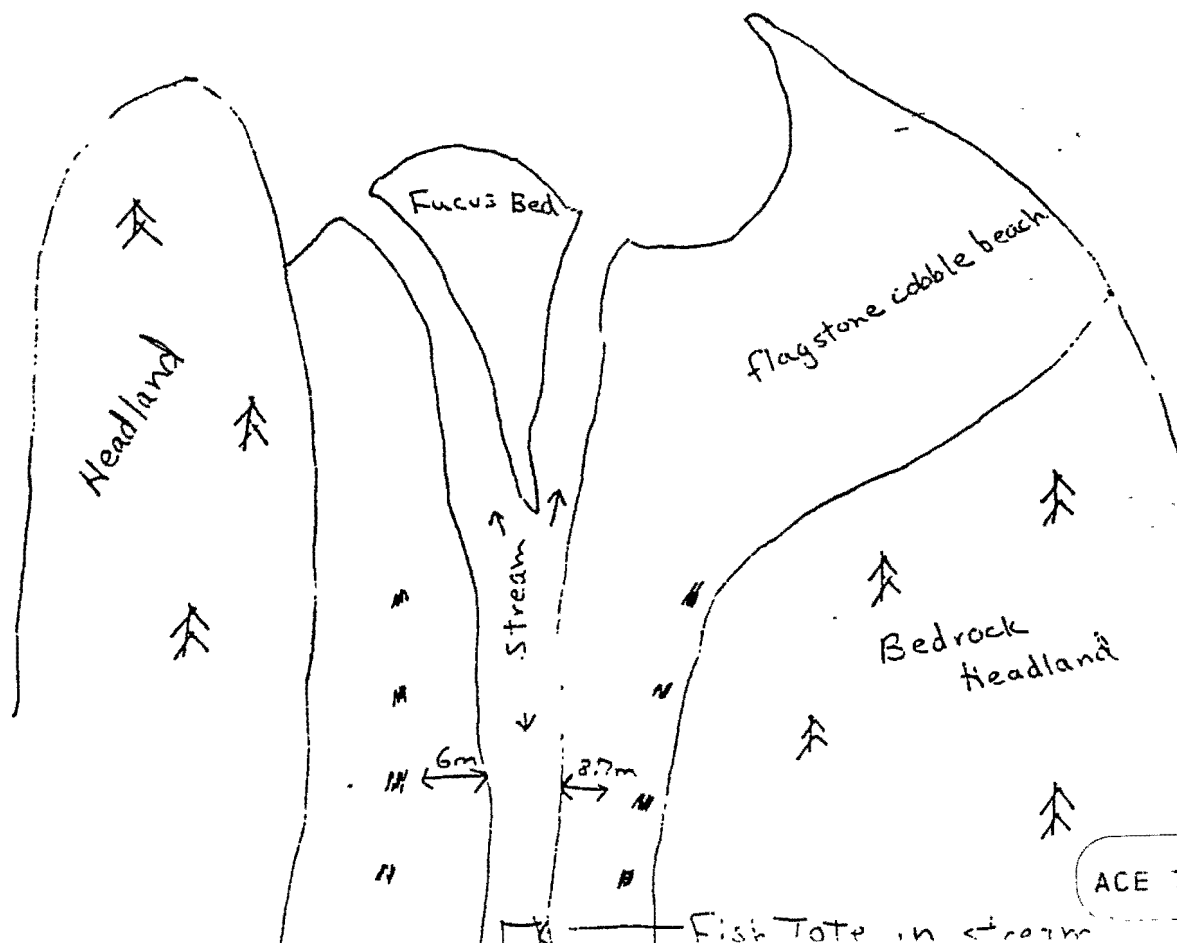
Description of oil and comments

West side of stream - sporadic tar patties in UITZ
.5x.5m - 6m from stream channel at low tide

East side of stream - sporadic tar patties in UITZ - 8.5m
from stream channel at low tide

Recommend - Re-assessment next spring

Oil Distribution Diagram



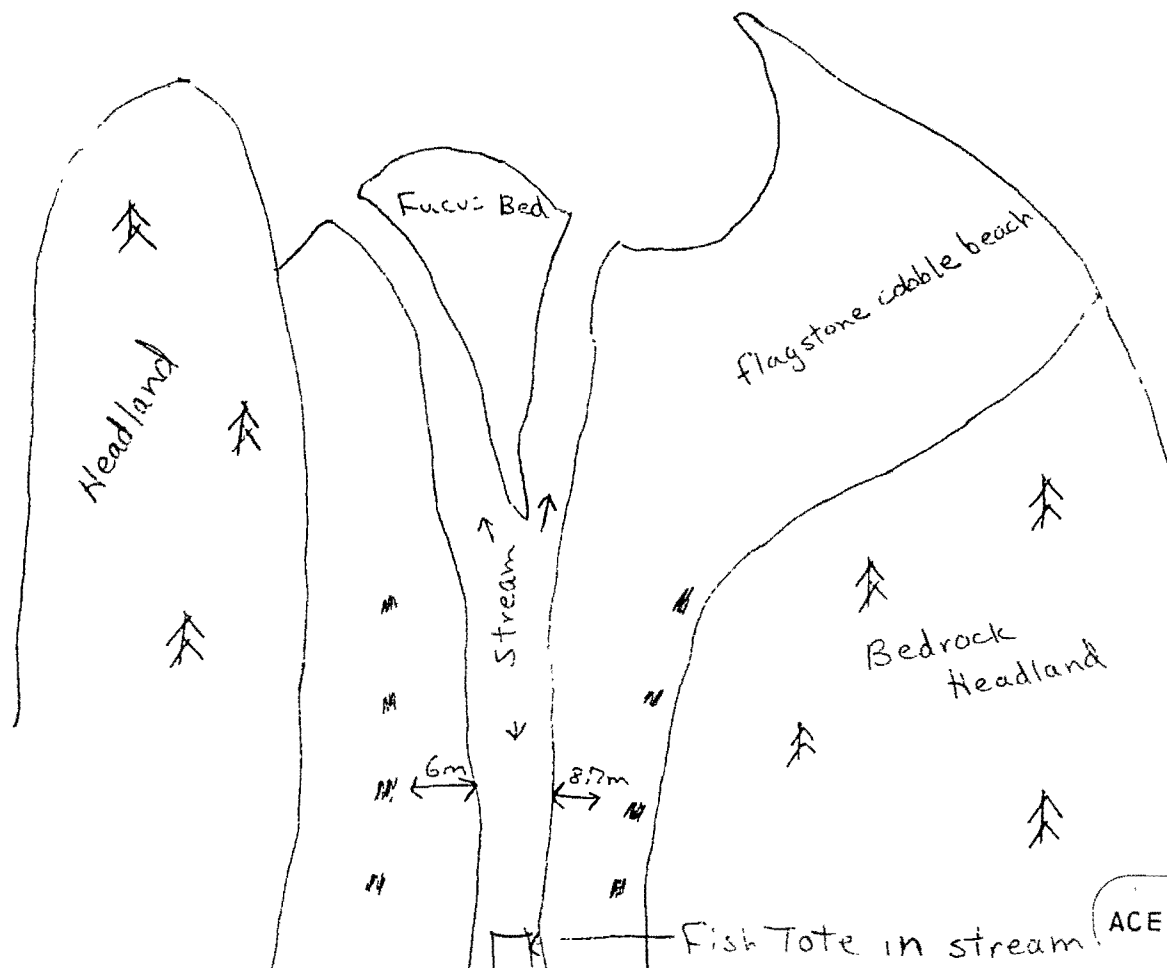
ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # Ch 900 ASC# 226-80-16200 Location NW Chenega F
Date 8/8/90 Recorder/Observer Weseman/Crowe/Middleton
Oil in streambed NONE sighted Oil on streambanks yes
Oil within 50m of mouth yes Anadromous Fish present yes

Description of oil and comments

West side of stream - sporadic tar patties in UITZ
5x.5m - 6m from stream channel at low tide
East side of stream - sporadic tar patties in UITZ - 8.2m
from stream channel at low tide
Recommended - Re-assessment next spring

Oil Distribution Diagram



CATALOG NUMBER: 2262016200 SEGMENT#: CH900 LOCATION: CHENEGA ISLAND, WEST SIDE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADSCAT	1	SURFACE			AP MS	STICKY THICK TAR AT UITZ ON BOTH SIDES OF STREAM.

MAD vs. OG:

COMMENTS:

LARGE AMOUNT OF STICKY THICK TAR AT UPPER INTERTIDAL ZONE DEPOSITED THROUGHOUT THIS CREEK AND ON STREAM BANKS. RECOMMEND FULL ANADSCAT.

CATALOG NUMBER: 2262016200 SEGMENT#: CH900 LOCATION: CHENEGA ISLAND, WEST SIDE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/25/90	ANADSCAT	1	5 x 50 SURFACE	11-50	4	AP	WEST SIDE: SPORADIC TARMAT BAND IN MITZ AND UITZ.
04/25/90	ANADSCAT	2	SURFACE	11-50		AP	EAST SIDE: SPORADIC AP BAND IN MITZ AND UITZ.

MAD vs. OG:

COMMENTS:

SMALL V-SHAPED COVE WITH LARGE COBBLE AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT TAR PIES THAT RUN ALONG UPPER/MID INTERTIDAL ALONG BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT TO STREAM CHANNEL. SPORADIC TARMATS IN BAND AT MID INTERTIDAL AND UPPER INTERTIDAL. RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TAR. TROWELS MAY BE NECESSARY TO GET AT TAR IN BOULDER CREVICES.

CATALOG NUMBER: 2262016200 SEGMENT#: CH900 LOCATION: CHENEGA ISLAND, WEST SIDE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/25/90	OG'S ANADSCAT	1	5 x 50 SURFACE	11-50	4	PT	WEST SIDE: SPORADIC TAR PATTIES IN UITZ AND MITZ UP TO STREAM BANK.
04/25/90	OG'S ANADSCAT	2	5 x 50 SURFACE	11-50	4	PT	EAST SIDE: SPORADIC TAR PATTIES IN UITZ AND MITZ UP TO STREAM BANK.

CATALOG NUMBER: 226NOLOC01 SEGMENT#: CH900 LOCATION: CHENEGA ISLAND, MASKED BAY, SOUTHWEST OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADS CAT		SURFACE				
MAD vs. OG: COMMENTS: NO OIL FOUND. NO OIL WITHIN 1 MILE OF STREAM. (COULD NOT DETERMINE EXACT LOCATION OF SURVEY SITE).							

CATALOG NUMBER: 2262016200		SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, WEST SIDE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADSCAT	1	4 SURFACE			AP MS	STICKY THICK TAR AT UITZ ON BOTH SIDES OF STREAM.
MAD vs. OG: COMMENTS: LARGE AMOUNT OF STICKY THICK TAR AT UPPER INTERTIDAL ZONE DEPOSITED THROUGHOUT THIS CREEK ^{and} OL ON STREAM BANKS. RECOMMEND FULL ANADSCAT.							

CATALOG NUMBER: 2262016200		SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, WEST SIDE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/25/90	ANADSCAT	1	5 x 50 SURFACE	<u>11-50</u>	4	AP	WEST SIDE: SPORADIC TAR MAT BAND IN MITZ AND UITZ.
04/25/90	ANADSCAT	2	SURFACE	<u>11-50</u>		AP	EAST SIDE: SPORADIC AP BAND IN MITZ AND UITZ.
MAD vs. OG: COMMENTS: SMALL V-SHAPED COVE WITH LARGE COBBLE AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT TAR PIES THAT RUN ALONG UPPER/MID INTERTIDAL ALONG BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT TO STREAM CHANNEL. SPORADIC TARMATS IN BAND AT MID INTERTIDAL AND UPPER INTERTIDAL. RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TAR. TROWELS MAY BE NECESSARY TO GET AT TAR IN BOULDER CREVICES.							

CATALOG NUMBER: 2262016200		SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, WEST SIDE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/25/90	OG'S ANADSCAT	1	5 x 50 SURFACE	11-50	4	PT	WEST SIDE OF STREAM : SPORADIC TAR PATTIES ⁱⁿ UITZ AND MITZ UP TO STREAM BANK.
04/25/90	OG'S ANADSCAT	2	5 x 50 SURFACE	11-50	4	PT	EAST SIDE OF STREAM : SPORADIC TAR PATTIES ⁱⁿ UITZ AND MITZ UP TO STREAM BANK.

04/25/90	OG'S ANADSCAT	3	<u>SUBSURFACE</u>		NONE	4 PITS DUG - NO OIL ENCOUNTERED.
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MAD vs. OG: NO CONFLICTS
COMMENTS:

CATALOG NUMBER: 2262016200			SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, WEST SIDE		SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
08/08/90	PRE-ASAP	1	.5 x .5 SURFACE	11-50		TP	WEST SIDE: SPORADIC TAR PATTIES IN UITZ 6M FROM STREAM CHANNEL AT LOW TIDE.
08/08/90	PRE-ASAP	2	SURFACE	11-50		TP	EAST SIDE: SPORADIC TAR PATTIES IN UITZ 8.7M FROM STREAM CHANNEL AT LOW TIDE.

MAD vs. OG:
COMMENTS:

~~WEST SIDE OF STREAM - SPORADIC TAR PATTIES IN UITZ .5 X .5M - 6M FROM STREAM CHANNEL AT LOW TIDE. EAST SIDE OF STREAM - SPORADIC TAR PATTIES IN UITZ - 8.7M FROM STREAM CHANNEL AT LOW TIDE. RECOMMEND - REASSESSMENT NEXT SPRING. OIL OBSERVED ON STREAM BANKS.~~

OG SUPPLEMENTAL INFO TO MAD

RECORDER: Weseman RED-DATE: 10/3/91

PAGE

CATALOG NUMBER: 226-20-16200

STREAM NAME:

LOCATION: westside chenega I

SEGMENT NUMBER: CH900

SHORELINE TYPE: *coral*

DATE: 7/25/90 TIME:

OG vs. MAD:

no conflicts

[illegible]

CATALOG NUMBER: 2262016200
 STREAM NAME:
 LOCATION: CHENEGA ISLAND, WEST SIDE

SEGMENT NUMBER: CH900
 SHORELINE TYPE:
 DATE: 04/11/90 TIME: COVE -1153

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	4						SURFACE	AP MS	<i>both sides of stream</i>

COMMENTS:

LARGE AMOUNT OF STICKY THICK TAR AT UPPER INTERTIDAL ZONE DEPOSITED THROUGHOUT THIS CREEK. RECOMMEND FULL ANADSCAT.
 OIL ON STREAM BANKS: YES
 YES, SEE MAP.

OIL WITHIN 1 MILE OF STREAM:

CATALOG NUMBER: 2262016200
 STREAM NAME:
 LOCATION: CHENEGA ISLAND, WEST SIDE

SEGMENT NUMBER: CH900
 SHORELINE TYPE:
 DATE: 04/25/90 TIME: COVE -0956

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	5	50			4		SURFACE	AP	<i>west side of stream - sporadic tarmat band</i> <i>surface AP</i> <i>east side of stream - AP band - sporadic - mth 12</i>

COMMENTS:

SMALL V-SHAPED COVE WITH LARGE COBBLE AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT TAR PIES THAT RUN ALONG UPPER/MID INTERTIDAL ALONG BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT TO STREAM CHANNEL. SPORADIC TARMATS IN BAND AT MID INTERTIDAL AND UPPER INTERTIDAL.

RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TAR. TROWELS MAY BE NECESSARY TO GET AT TAR IN BOULDER CREVICES.

OIL ON STREAM BANKS: YES
 YES

OIL WITHIN 1 MILE OF STREAM:

OPERATIONS FIELD NOTES

See Back for Instructions

2/54
J.W.

SEGMENT ID ANAD CH-900
STREAM ID # 226-20-16200
ANNOTATED MAP INCLUDED YIN

DATE 4-25-90
NAME GARCIA
TEAM # 15

SURFACE OIL	Treatment Recommendation									
	Quantities in Meters			None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band										
Medium Band										
Narrow Band										
Very Light AREAS 1 & 2	100	5	500	✓						
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 VERY SPORADIC	50	5	4			✓	15		5
Area #2 " "	50	5	4			✓	15		5
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 YIN OILING H/M/L QUANTITY L/M/S BURN YIN LEAVE IN PLACE

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

GENERAL

Wave Exposure H/M/L

Snow covering 5 % of the Supratidal Zone?

Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

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

COMMENTS:

MANUALLY REMOVE SPORADIC TAR PATTIES IN AREAS 1 & 2. NO OTHER TREATMENT NECESSARY. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 10.

ACE 7236701+15

FIELD SHORELINE COMMENT SHEET

4/54

SEGMENT ST 1 CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PATCHES
LEFT & RIGHT SIDES

ADFT4

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORATIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN Boulders.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7236703

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES (SS) CS TS AVS SCHA MMMS PTA 2 REGION: FWS KP, CI K, AP

METHOD: Aerial (Ground) Boat

3 DATE: 4/25/90 15 HIGH TIDE TIMES: 1500 1 21 TEAM RECORDER: TOM CROWE

4 START TIME: 0937 16 HIGH TIDE HTS: +11 FT 1 22 OBSERVERS: MIKE WIEDMER

5 STOP TIME: 0956 17 LOW TIDE TIMES: 0830 1 23 AGENCY: ADFG ANADSCAT

6 SEGMENT #: CH 900 18 LOW TIDE HTS: -4 FT 1 24 PHOTOS TAKEN: Y (N)

7 STATION #: 19 TIDE HT AT SURVEY: -3 FT Roll #: Frame:

8 K-UNIT: Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPE#: Start: End:

9 STAT AREA: 20 USCG QUAD: SW B-3

10 LAT: 11 LONG: 26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran 011

13 LOCATION: WEST SIDE CHEROKEE ISLAND Sediment

14 DESCRIPTION: Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	50	5						
28 SURFACE THICKNESS	4cm							
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 SREAM? Y N

37 CATALOG #: 226-20-16200

38 STREAM NAME:

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

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

Where:

43 ANADROMOUS FISH PRESENT? Y N

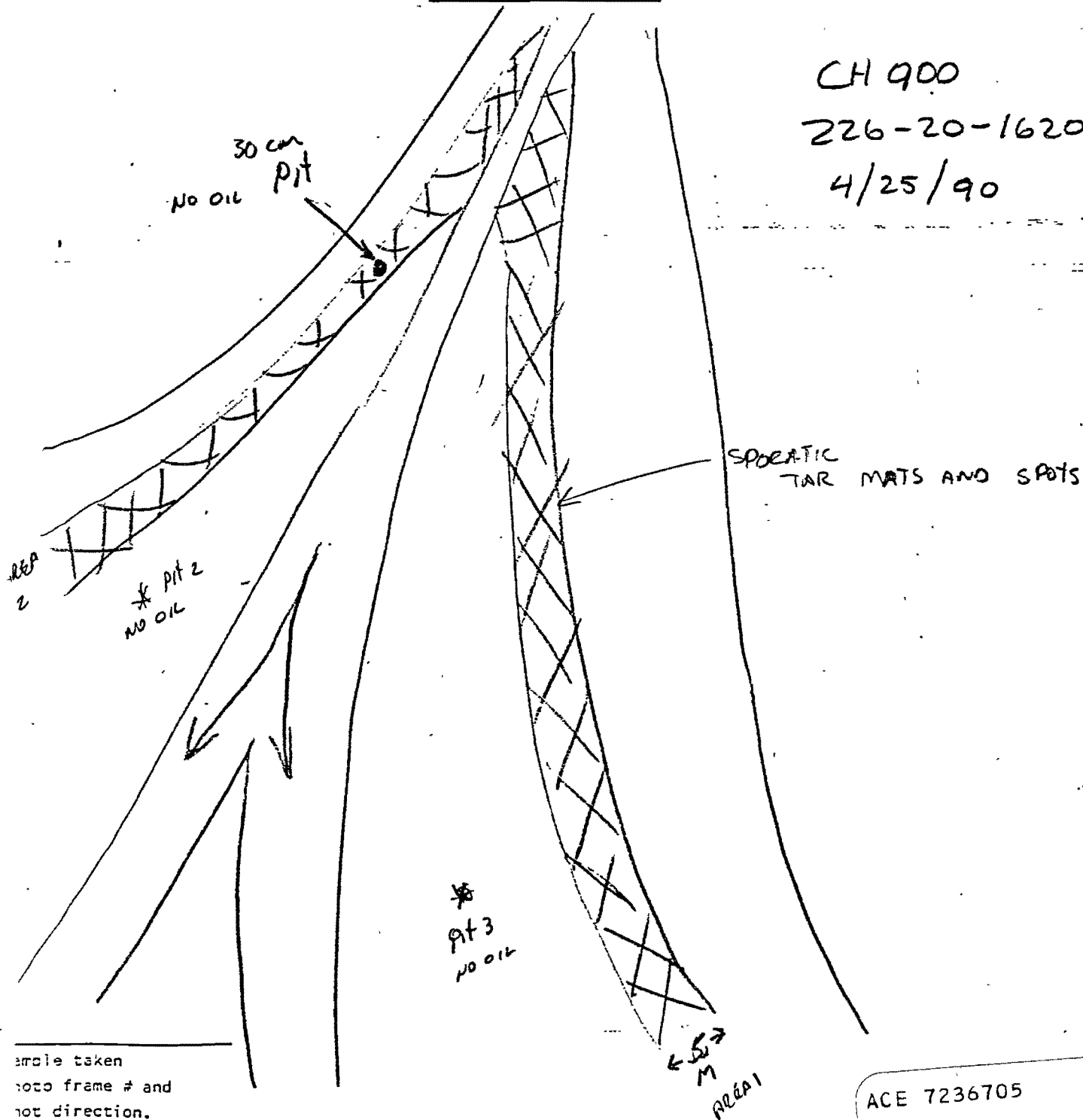
44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SMALL V-SHAPED COVE WITH LARGE COBBLE
AND FLAGSTONE BOULDER. 5 METER BAND OF INTERMITTENT
TAR PIES THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHORELINE AND OPPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

FRAME(S)	DESCRIPTION
	SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND UPPER INTERTIDAL
	RECOMMENDATION: MANUAL REMOVAL OF SURFACE TAR. TROWELS MAY BE NECESSARY TO GET AT TAR IN BOULDER CREVICES.
	I agree with recommendations. M. Z. FROST

48 OIL DISTRIBUTION DIAGRAM



sample taken
photo frame # and
not direction.

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 06/1

OG WILLIAM RO USCG McMAHON SEGMENT ST/ CH900 17/31
 BIO MICHAEL FAWCETT LAND REP STREAM 226-20-16200(OF)
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 09:30
 TEAM NO. 15 TIDE LEVEL -1.5 FT DATE 25 APR 190
 EST. SUBDIVISION LENGTH: 30 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 60 % P 35 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 60 % Hang 40 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 8 m N 0 m VL 0 m NO 22

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IF	IS	BR	BL	BY	GY	SL	DR	TL	LR	SU	UI	MI	LI
ASPHALT PAVEMENT																
POOLED																
COVER			X			X								X		
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT

DEBRIS

☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. 0Frames 0

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)	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		UD	UC	BR	BL	BY	GY	SL	DR	TL	LR				
1	30					X	-											X		N	P/C
2	15					X	-												X	N	P/G/C
3	20					X	-												X	N	P/G/C
4	15					X	-											X		N	P/G/C
							-														
							-														

COMMENTS

REVIEWED 0 DATE 0

ACE 7236706

OG WILLIAM REID

SEGMENT ST/ CH900

STREAM 226-20-16200

DATE / / 90

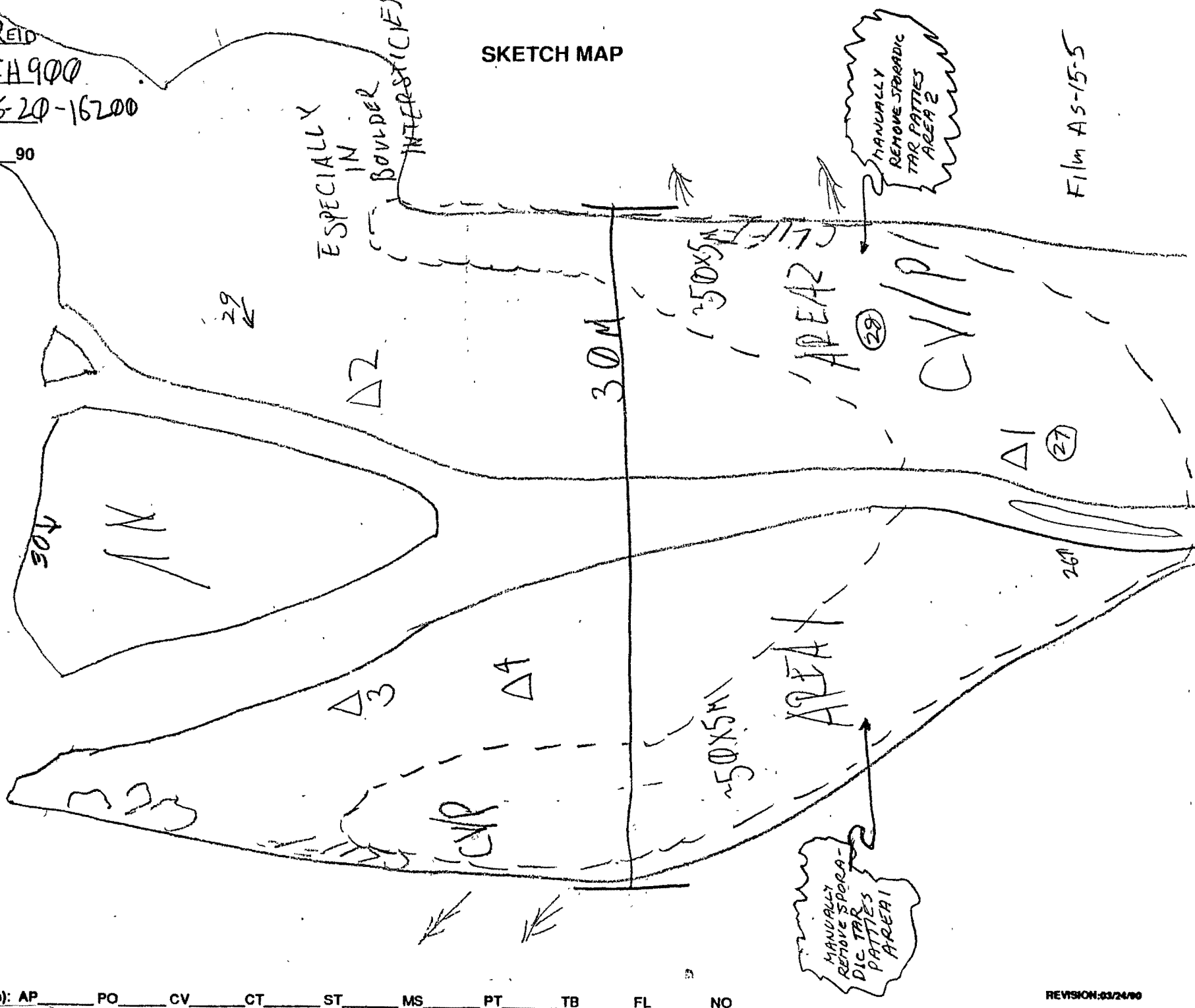
CHECKLIST

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

LEGEND

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

SKETCH MAP



Film A5-15-5

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

REVISION: 03/24/00

ACE 7236707

9/57

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-25-
SEG ID: CH900 SUBDIV: 16200 TEAM: AS-15 SURVEY DATE: 4/25/90
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: 30 OIL CATEGORY: W 0 M 8 N 0 VL 0 NO 22 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 5 COB 60 PEB 35 GRN 0 SAN 0 MUD 0 VEG 0

CHAR #: 1 OIL CHAR: CV OIL DIST: CONT - BRKN - PTCH X SPLH -
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 7236708

segment CH 900

4/25/90

Stream 226-20-16.20.0

Michael Fawcett

Ecological Summary

This stream crosses a shale cobble/pebble/gravel beach in a small cove. Sparse Fucus and barnacles occur in the stream bed and along the banks. A mature bed of dense mussels exists in the MTZ near the stream mouth. Barnacle spat are dense throughout LTZ, along with patches of dense adult Balanus glandula. Aside from Fucus, the only other algae at the site are diatoms and a film of green algae. Thousands of tiny marine fish larvae (about 2mm in length) appeared to be emerging from beneath the pebbles in LTZ as the tide rose. A few whelks (Thais emarginata) were seen, along with their egg capsules. Remaining oil consists of a few surface tar mats along the stream bank in UTZ. Manual removal recommended. No ecological constraints re: intertidal biota.

M H Fawcett

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION

SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PATTIES
LEFT + RIGHT SIDES

ADP14

ADEC

NAME Tom Crowe

SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORATIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN BOULDERS.

LAND MANAGER

NAME _____

SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7236711

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-900 STREAM NO: 226-20-16200 DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-3 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within an unsurveyed segment (no subdivision other than U).

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

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

SHPO SIGNATURE: Reckel Jean Darr DATE: 5/18/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: MANUAL PICKUP OF TAR PATTIES

TAG APPROVAL DATE: 5/9/90
ADEC Art Wernick
EXXON ANDY ISAL
NOAA Burt Wescott
USCG D.D. ROME

FOSC: W DATE: 6-8-90
Notify c/c 24 hours prior to cleanup

ACE 7236712

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD CH-900
 STREAM ID # 226-20-16200
 ANNOTATED MAP INCLUDED Y/N

DATE 4-25-90
 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										
Medium Band										
Narrow Band										
Very Light AREAS 1 & 2	100	5	500	✓						
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 VERY SPORADIC	50	5	4			✓	15		5
Area #2 " "	50	5	4			✓	15		5
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 Y/N OILING H/M/L QUANTITY L/M/S BURN Y/N LEAVE IN PLACE

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

GENERAL Snow covering 5 % 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:

MANUALLY REMOVE SPORADIC TAR PATTIES IN AREAS 1 & 2. NO OTHER TREATMENT NECESSARY. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 10.

ACE 7236689+15

SEGMENT ST/ CH900

STREAM 226-20-16200

DATE 90

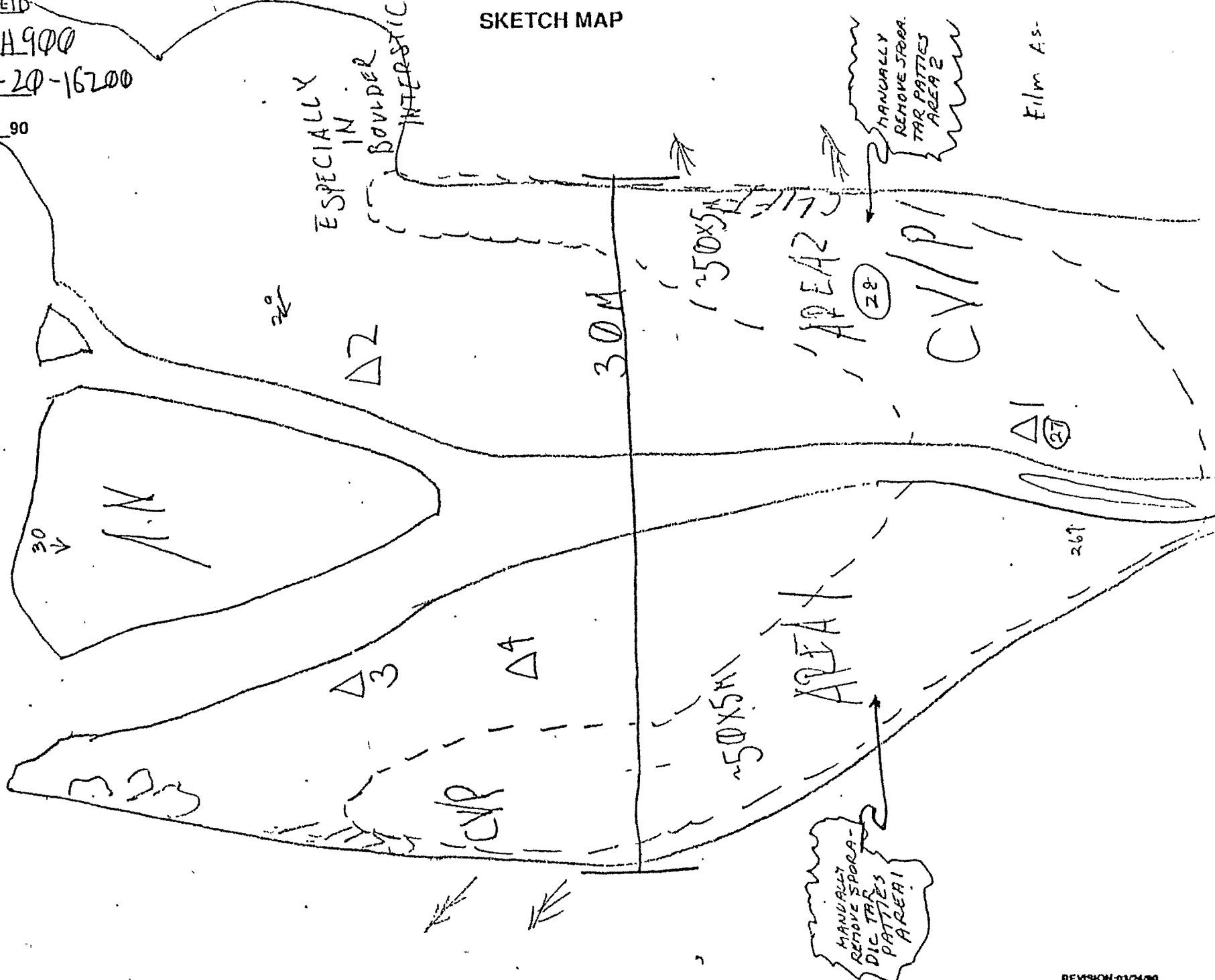
CHECKLIST

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

LEGEND

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

SKETCH MAP



Film A.S.

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

REVISION 03/24/90

4/54

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PATTIES
LEFT & RIGHT SIDES

ADFT4

ADEC

NAME Tom Crowe SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORADIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN BOULDERS.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7236691

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES. (S3) ES TS AVS SCHA MMHS PTA 2 REGION: FWS KP,CI K,AP

METHOD: Aerial (Ground) Boac

3 DATE: 4/25/90 15 HIGH TIDE TIMES: 1500 1 21 TEAM RECORDER: TOM CROWE

4 START TIME: 0937 16 HIGH TIDE HTS: +1 ft 1 22 OBSERVERS: MIKE WIEDMER

5 STOP TIME: 0956 17 LOW TIDE TIMES: 0830 1 23 AGENCY: ADFG ANADSCAT

6 SEGMENT #: CH 900 18 LOW TIDE HTS: -4 ft 1 24 PHOTOS TAKEN: Y (N)

7 STATION #: 19 TIDE HT AT SURVEY: -3 FT Roll #: Frame:

8 K-UNIT: Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPE#: Start: End:

9 STAT AREA: 20 USCG QUAD: SBW B-3

10 LAT: 11 LONG: 26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran 011

13 LOCATION: WEST SIDE CHENECA ISLAND Sediment

14 DESCRIPTION: Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H ²	%	L	M	H ²	%
27 SURFACE COVERAGE	50	5						
28 SURFACE THICKNESS	4cm							
29 PENETRATION	—							

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

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

32 OILED DEBRIS? Y (N)

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

34 WAVE EXPOSURE: High (Moderate) Low

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

36 CATALOGED ANAD. FISH SKEIN? Y N

37 CATALOG #: 226-20-16200

38 STREAM NAME:

39 OIL IN STREAM BED? (N) N

40 OIL ON STREAM BANKS? (N) N

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

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

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SMALL V-SHAPED COVE WITH LARGE COBBLE
AND FLAGSTONE BOULDER. 5 METER BAND OF INTERMITTENT
TAR PILES THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

ACE 7236692

FRAME(S)

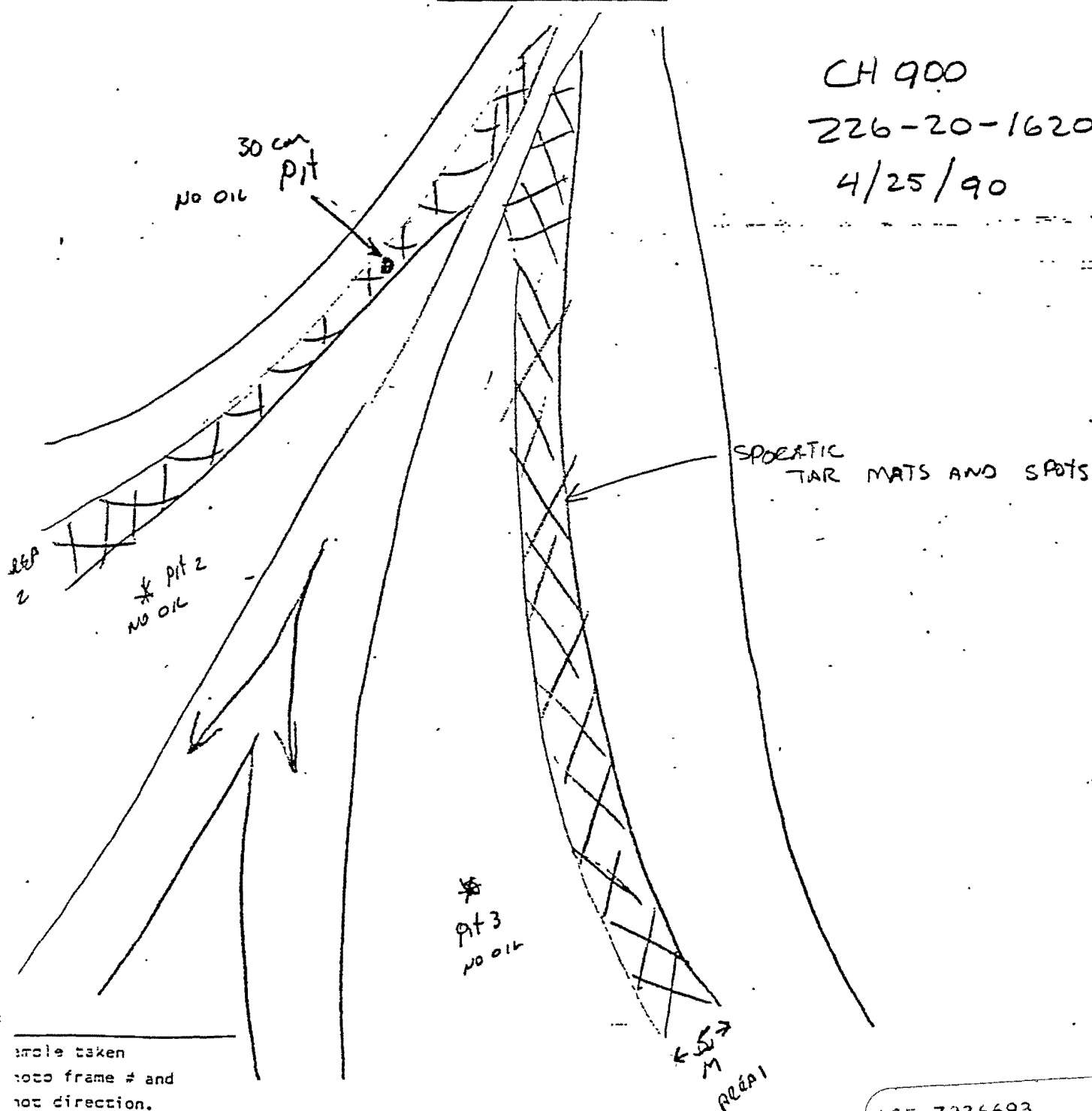
DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROVJALS MAY BE NECESSARY TO GET AT TAR
IN BOULDER CREVICES.

I agree with recommendations. M. R. Fournier

46 OIL DISTRIBUTION DIAGRAM



ACE 7236693

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 04/1

OG WILLIAM RE SCG McMAHON SEGMENT ST/ CH900 11/21
 BIO MICHAEL FAWCETT LAND REP STREAN 226-20-162001 OF
 EXXON CUS GARCIA ADFG MIKE WIEDMER TIME 09:30
 TEAM NO. 15 TIDE LEVEL -1.5 FT DATE 25 APR 190
 EST. SUBDIVISION LENGTH: 30 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 60 % P 35 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 60 % Hang 40 % Ven 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 9 m N 0 m VL 0 m NO 22

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	BR	BL	GR	OR	TR	TL	LR	LL	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER			X			X								X		
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 TI

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO

TYPE 0#BAGS 0

Photographs:

Roll No. 0Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	V	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		VO	UC	BR	BL	GR	OR	TR	TL	LR	LL	SU	U	M	L				
1	30					X	-											X					X		P/C
2	15					X	-												X				N		P/G/C
3	20					X	-												X				N		P/G/C
4	15					X	-											X					N		P/G/C
							-																		
							-																		

COMMENTS

REVIEWED 0 DATE 0

ACE 7236694

OG WILLIAM REID

SEGMENT ST/ CH900

STREAM 226-20-16200

DATE 1/ 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est HWL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pli 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: 7236695

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

REVISION:01/24/00

SKETCH MAP

File # AS-15-5

ESPECIALLY
IN BOULDER
COUNTY

MANUALLY
REMOVE SPORADIC
TAR PATTIES
AREA 2

MANUALLY
REMOVE SPORA-
DIC TAR
PATTIES
AREA 1

5x05-
A2

4242

19/11

50x50

142A

12

2/

 Δ_3

7

Δ1 (27)

29

29

269/

105

2

304

11

9/5/

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-21-
SEG ID: CH900 SUBDIV: 16200 TEAM: AS-15 SURVEY DATE: 4/25/90
PAVEMENT: CHAR - AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS - VEG - TRH T DBR - WAVE EXP: LW - MD X HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 30 OIL CATEGORY: W 0 M 8 N 0 VL 0 NO 22 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 5 COB 60 PEB 35 GRN 0 SAN 0 MUD 0 VEG 0

CHAR #: 1 OIL CHAR: CV OIL DIST: CONT - BRKN - PTCH X SPLH -
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 7236696

Segment CH 900

4/25/90

Stream 226-20-16200

Michael Fauxett

Ecological Summary

This stream crosses a shale cobble/pobble gravel beach in a small cove. Sparse Fucus and barnacles occur in the stream bed and along the banks. A mature bed of dense mussels exists in the NTZ near the stream mouth. Barnacle spots are dense throughout LTZ, along with patches of dense adult Balanus glandula. Aside from Fucus, the only other algae at the site are diatoms and a film of green algae. Thousands of tiny marine fish larvae (about 2mm in length) appeared to be emerging from beneath the pebbles in LTZ as the tide rose. A few whelks (Thais emarginata) were seen, along with their egg capsules. Remaining oil consists of a few surface tar mats along the stream bank in UTZ. Manual removal recommended. No ecological constraints re: intertidal biota.

M H Fauxett

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat3 DATE: 4/25/9015 HIGH TIDE TIMES: 1500 /21 TEAM RECORDER: TOM CROWL4 START TIME: 093716 HIGH TIDE HTS: 4.1 FT /22 OBSERVERS: MIKE WIEDMER5 STOP TIME: 095617 LOW TIDE TIMES: 0830 /23 AGENCY: ADFG ANADSCAT6 SEGMENT #: CH 90018 LOW TIDE HTS: -4 FT /24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY: -3 FT

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA:

20 USCG QUAD: SW B-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: WEST SIDE CARMENA ISLAND

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%
50	5						

36 CATALOGED ANAD. FISH SREAM? Y N

28 SURFACE THICKNESS

4cm							
—							

37 CATALOG #: 226-20-16200

38 STREAM NAME:

29 PENETRATION

39 OIL IN STREAM BED? (Y) N30 OVERALL OIL IMPACT: N VL L (M) H40 OIL ON STREAM BANKS? (Y) N31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain41 OIL ON BEACH ADJACENT TO MOUTH? (Y) N
(within 50 meters)32 OILED DEBRIS? Y (N)42 OIL WITHIN 1 MILE OF STREAM? (Y) N

Where:

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock Boulder Cobble
Gravel Sand Mud/silt

COMMENTS: SMALL V-SHAPED COVE WITH LARGE COBBLE
AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT
TAR PITS THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHOULDER AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

ACE 7236699+15

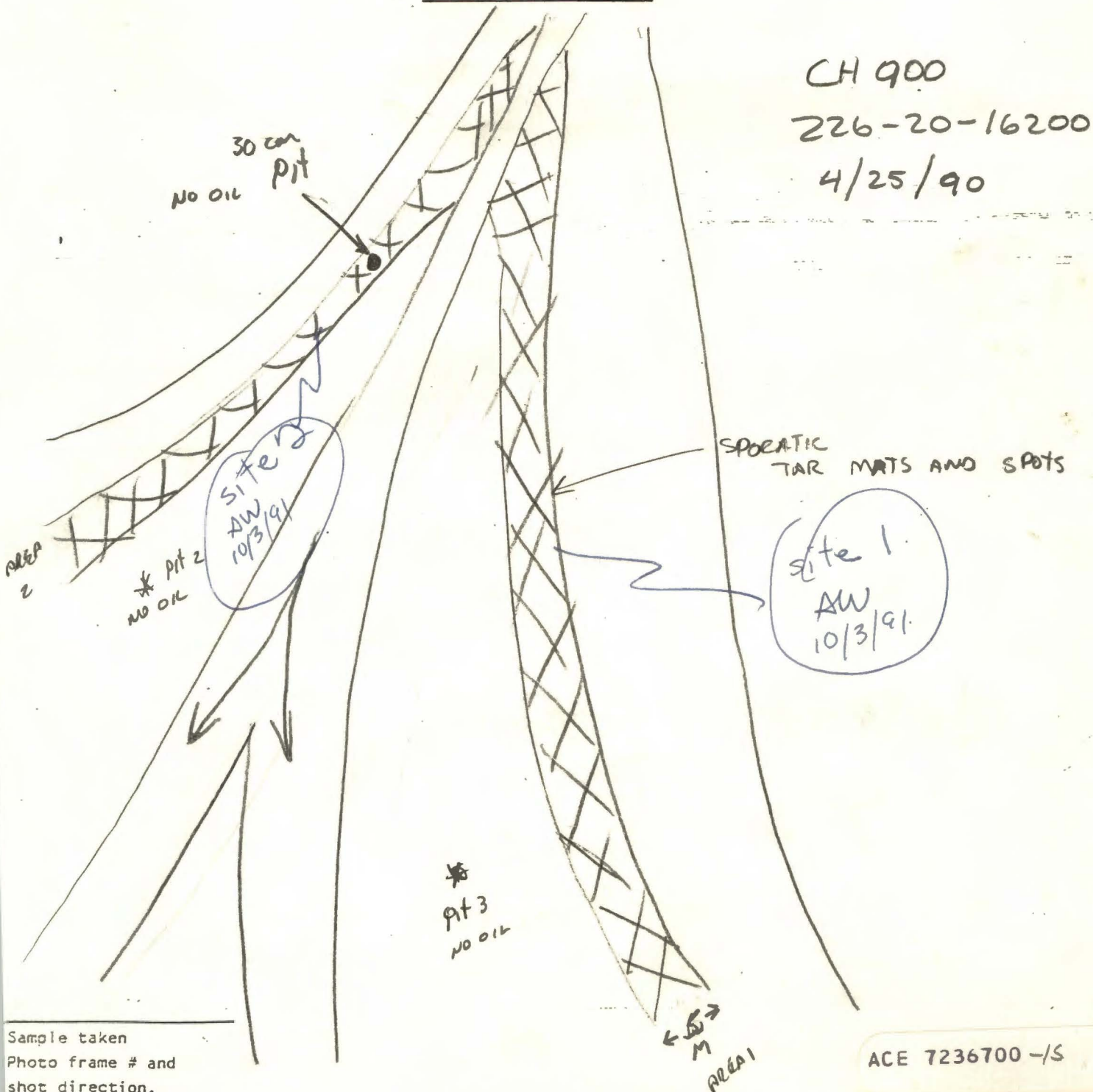
FRAME(S)

DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOULDER CREVICES.

46 OIL DISTRIBUTION DIAGRAM



LIST OF ASAP REPORTS and TAG RECOMMENDATIONS
CONTAINING ANDROMOUS STREAMS

9/10/90

<u>SEGMENT</u>	<u>CATALOG #</u>	<u>TAG RECOMMENDATION</u>
BA002A	226-40-16450	
BP004	226-20-16392	
BP004	226-20-16397	Bio/Customblen
BP004	226-20-16388	
BP004	226-20-16395	
CH002A	226-20-16180	
CH009B	226-20-16182	Tarmat removal/Bio
CH900A	226-20-16200	
CU014A	224-20-13036	
CU013A	224-20-13030	
EL052B	226-10-16902	NTR
EV014A	226-40-16640	
EV017A	226-40-16620	
EV025A	226-40-16613	
EV071B	228-40-16484	
GR007A	NOT CATALOGED	
GR103A	227-20-17880	
KN213B	226-30-16853	NTR
KN129A	226-10-16975	
KN129B	NOT CATALOGED	
KN132B	226-10-16982	
KN135A	226-30-16285	
KN211E	226-10-16875	NTR
KN401A	226-30-16820	
KN500A	226-10-16992	NTR
KN701B	226-30-16840	NTR
LA018A	226-40-16780	
LA021B	226-40-16776	
LA021A	226-40-16774	

Final Anadromous Stream Treatment Information

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

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: CH900A
LOCATION: SW CHENEGA ISLAND

DATE: 10/11/89
TIME: 16:49

Survey Type: Boat, Ground
Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Moderate

Wind Direction: N
Knots: 0-15

Low Tide: 5:18 Feet: 1.32 High Tide: 11:41 Feet: 11.1
Low Tide: 17:41 Feet: 2.77 High Tide: 23:42 Feet: 11.7

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

OIL CHARACTERISTICS

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

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

Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / 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: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:03

Walk-a-thon

ACE 7236618

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-20-16200

SEGMENT CH-900 SUBDIVISION A

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL INSPECTION/CONSULTATION REQUIRED.

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

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-20-16200) is in Subdivision A. No constraint to manual pickup.

5T Bald Eagle Nest

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

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unrolled bloats and substrate.

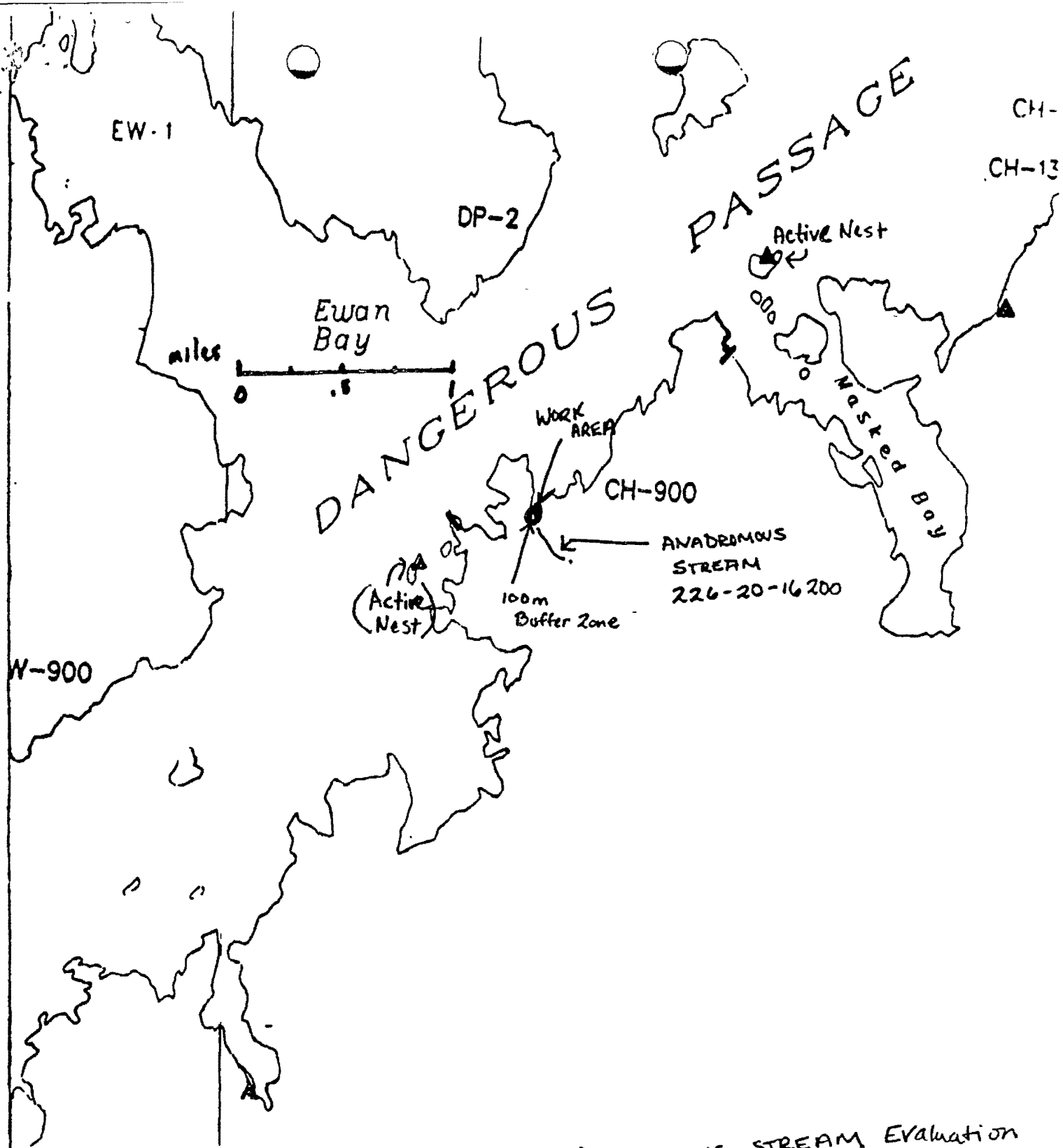
SEE SUBDIVISION CONSTRAINT ADDENDUM CH-900A
FOR ADDITIONAL CONSTRAINT INFORMATION

FOSC

Date 6-20-90

Prepared by

Date 6/18/90



ANADROMOUS STREAM Evaluation

CH-900 A
ANADROMOUS STREAM # 226-20-16200

ACE 7236632

ADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-900 STREAM NO: 226-20-16200 DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 5T-3 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
 See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Subject stream is located within an unsurveyed segment (no subdivision other than U).

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

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

SHPO SIGNATURE: Rachel Jean Oren DATE: 5/18/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: SEE CONSTRAINTS ADDENDUM DATED 6/18/90. AP

TAG COMMENTS: MANUAL PICKUP OF TAR PATTIES

TAG APPROVAL DATE: 5/9/90
 ADEC Art Wenzel
 EXXON ANDY GAIL
 NOAA Burt Wescott
 USCG D.D. ROME

FOSC: [Signature] DATE: 6-8-90
Notify cys 24 hours prior to cleanup

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-900 STREAM NO: 226-20-16200 DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-3 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within an unsurveyed segment (no subdivision other than U).

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

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

SHPO SIGNATURE: Rechel Jean Dene DATE: 5/18/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: MANUAL PICKUP OF TAR PATTIES

TAG APPROVAL DATE: 5/9/90
ADEC Art Werner
EXXON Andy Seal
NOAA Burt Wescott
USCG D.D. Rome

FOSC: [Signature] DATE: 6-8-90
Notify cys 24 hours prior to cleanup

STREAM 22620-16200

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sab Study
- ___ Of Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HWS/LWR
- ___ SSJ
- ___ Profile Location(s)
- ___ Profile(s)
- ___ Pt Location(s)
- ___ Photo Location(s)

LEGEND

PM - No Subsurface OW

24

Pt - Subsurface On

ET/IC

CONFIDENTIAL DISSEM

CT/0

Stephen Christenson

CV/P

Patchy Distribution

CT/9

Splashed Distribution

Old Vegetation

Photo location, direction,
and number

ACE 7236635

SKETCH MAP

Film AS-15.5

01 Character Length (in): AP PO CV CT ST MS PT TB FL NO

1994

SEGMENT ST/ CH900

2/8 A-5-13

STREAM 226 20-16200

DATE 1/1 90

CHECKLIST

- N Area
 Approx. Scale
 Seg/Sub Body
 Off Dist.
 Width
 Length
 % Cover
 Substrate Character
 Est. #FW/L/WL
 STL
 Profile Location(s)
 Profile(s)
 Pl. Location(s)
 Photo Location(s)

LEGEND

- ! Δ**
FM - No Subsurface ON

- 2 A
- Fig - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Eastern Distribution

CT/P

Index Distribution

CTAS

Splashed Distribution

Old Vegetation

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

ACE 7236636

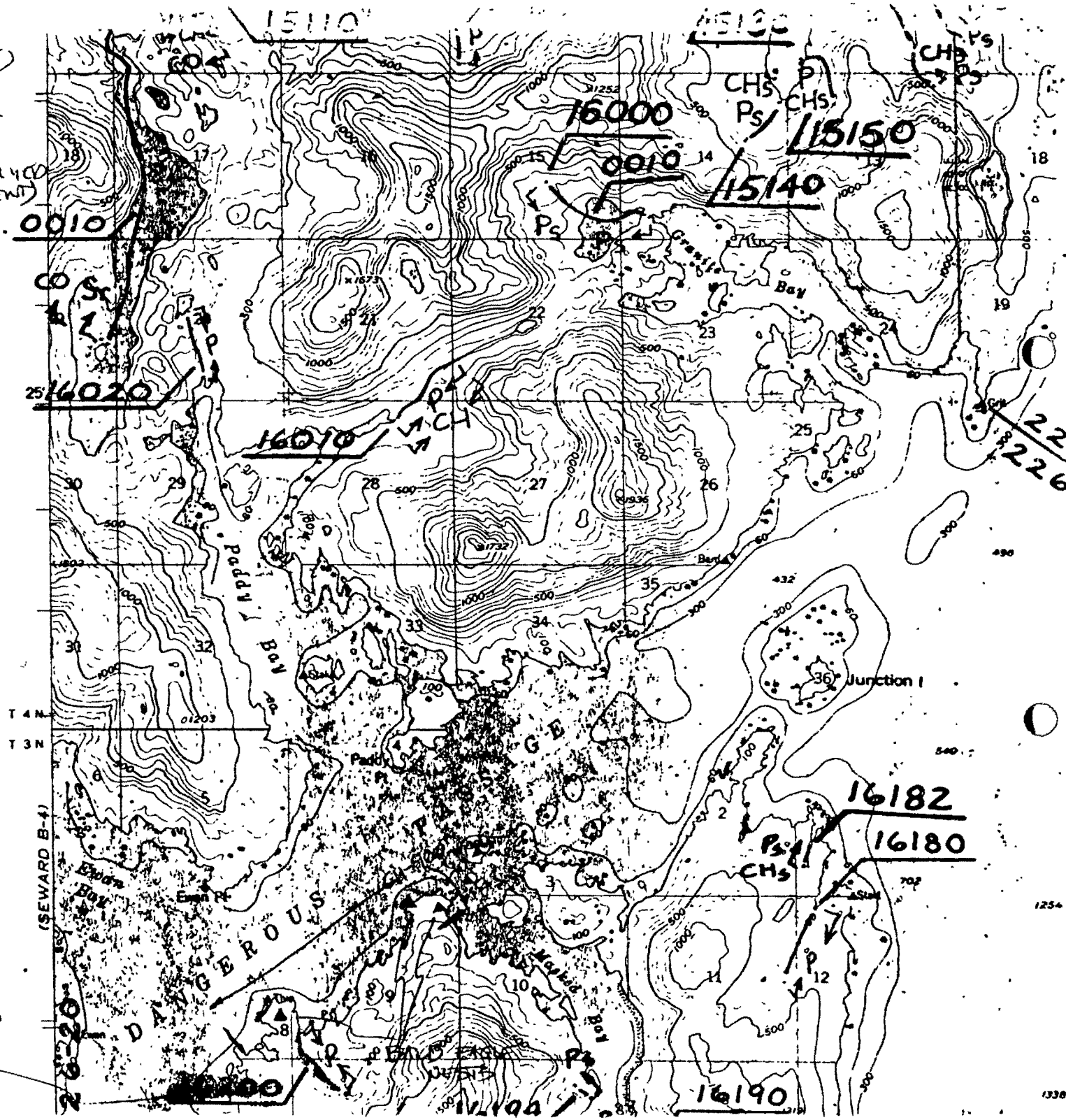
Oil Character Length (in): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT _____ TB _____ FL _____ NO _____

NEW YORK, 30/7/90

ECOLOGICAL MAP

CH-900-U (UNSURVEYED
SEGMENT)

1A, 1B
ST(3)



ACE 7236637

SUBJECT ANADROMOUS
PEWM #226-20-16200
(P, 2/70)

WHIP UNSURVEYED SEGMENT

PAGE(S)

DESCRIPTION

SPORADIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOUNDRY CREVICES.

I agree with recommendations. M. J. [unclear]

48 OIL DISTRIBUTION DIAGRAM

30 cm
PIT
NO OIL

CH 900

226-20-16200

4/25/90

SPORADIC
TAR MATS AND SPOTS

* Pt 2
NO OIL

*
Pt 3
NO OIL

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-900 STREAM NO: 226-20-16200 DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-3 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within an unsurveyed segment (no subdivision other than U).

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

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

SHPO SIGNATURE: Rachel Jean Darr DATE: 5/18/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: MANUAL PICKUP OF TAR PATTIES

TAG APPROVAL DATE: 5/9/90
ADEC Art Wenzel
EXXON AMY GALL
NOAA Burt Wescott
USCG D.D. Rome

FOSC: [Signature] DATE: 6-8-90

Notify c/c 24 hours prior to cleanup

ACE 7236639

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO

OG William 20 USCG McMAHON SEGMENT ST/ CH900 7/5
 BIO MICHAEL FAWCETT LAND REP 5 STREAM 22520-46280 OF
 EXXON GUS GARCIA ADFG MIKE WIDMER TIME 09:30
 TEAM NO. 15 TIDE LEVEL -1.5 ft DATE 25/4/90
 EST. SUBDIVISION LENGTH: 30 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 60 % P 35 % G 5 % S 5 % M 5 % V 5
 SLOPE: Long 60 % Hang 40 % Vert 5 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hig
 OIL CATEGORY LENGTH: W 5 m M 9 m N 5 m VL 5 m NO 22

SURFACE OIL

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

PAVEMENT H F S 5 sq. m by 5

PATTIES / TARBALLS 0

NEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you Col
DEBRIS
☐ YES ☒ NO

TYPE 5

5BAGS

Photographs:

Roll No. 5

Frames 5

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	SURFAC SUBSURF SEDIMENT
		GP	GR	OL	GF	RO		UO	UO	1	2	3	4	SW	M	VL	U				
1	30					X	.							X					X		P/C
2	15					X	.								X				N		P/G/L
3	20					X	.								X				N		P/G/L
4	15					X	.							X					N		P/G/L
							.														
							.														

COMMENTS

REVIEWED 1W

DATE 4-27-90

ACE 7236640

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A
1E

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

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

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

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

1C

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

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

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

1D

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

1E

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

1F

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

1G

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

1H

Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

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

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

1I

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

1J

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

1K

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

1L

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

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

2M

Herring spawning (4/1 to 6/15)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to 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 (6/1 to 9/15)

6V

Anchorage (6/1 to 9/15)

6W

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

6X

Lodge (6/1 to 9/15)

6Y

Special use destination

7Z

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

7H

Finfish harvesting

7I

Deer harvesting (8/15 to 2/28)

7J

Invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

ACE 7236641

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PATCHES
LEFT + RIGHT SIDES

ADFT

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORATIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN BOULDERS.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED
PER DECISION TREE

28

OG WILLIAM KED

SEGMENT ST/ CH900

STREAM 22620-16200

DATE 1 90

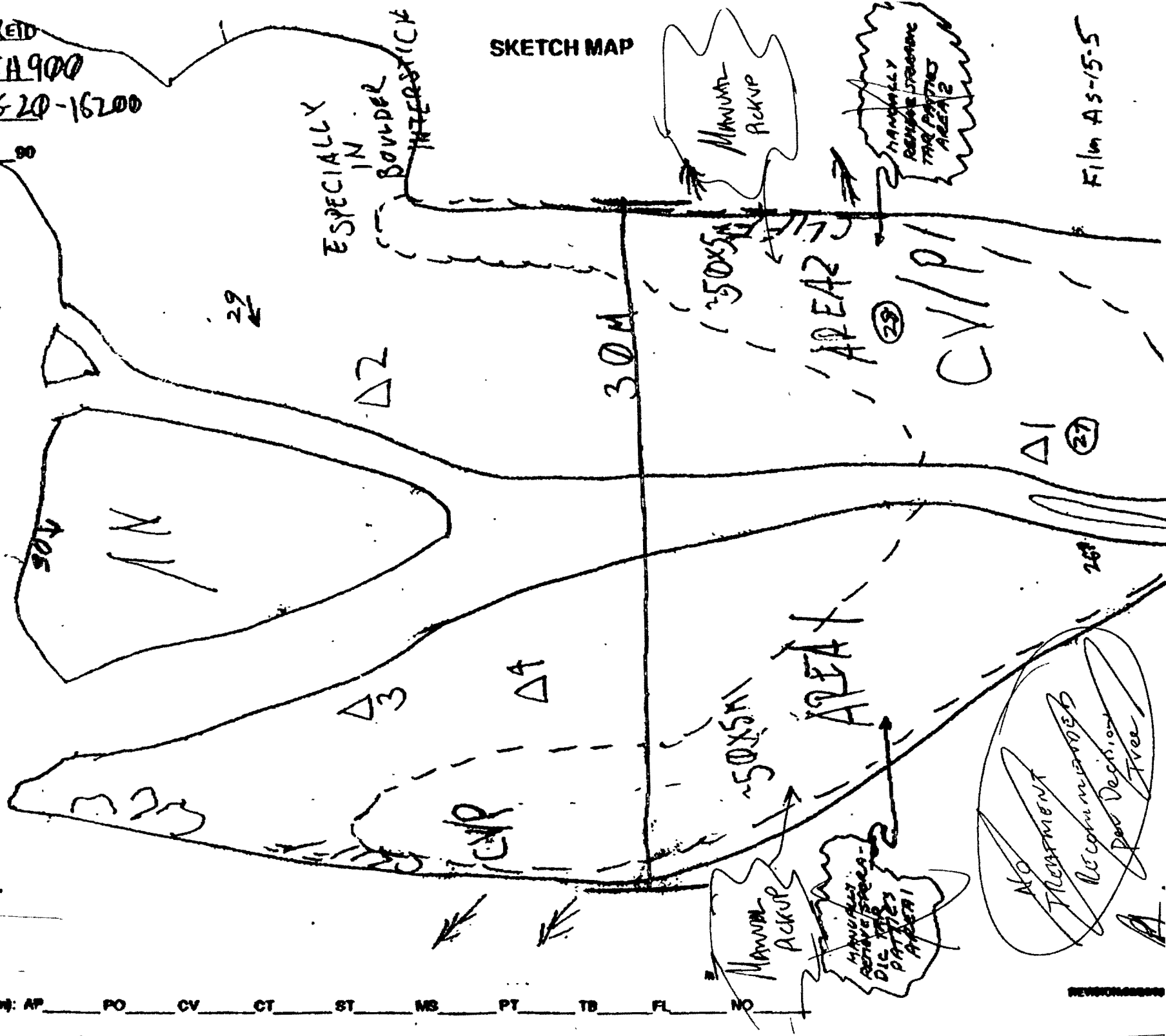
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Tab Body
- ☐ Of Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWA/LVR
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PI Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- PI - No Subsurface Of
- 2 Δ
- PI - Subsurface Of
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Splashed Distribution
- eee
- Old Vegetation
- Photo location, direction, and number

SKETCH MAP



Film AS-15-5

ACE 7236643

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

REVISIONS

File # 45-15

Alaska Department of Fish and Game

ANADSCAT Observations and Recommendations
Team 13 - Michael Wiedmer and Tom Crowe

25 April 1990

ASC # 226-20-16182

Segment CH-009

Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove bordered by bedrock walls. The substrate is composed predominantly of shale cobble and gravel. A very rich biota occurs throughout the lower intertidal zones below the oiled areas.

A wide range of oiling types and degrees exist at this site (see ADF&G Multi-Assessment Form for specific descriptions). While this site still contains significant amounts of subsurface oil, treatment of this site will be difficult. Moderate concentrations of oil have penetrated deeply into a poorly sorted shale boulder, cobble, gravel, sand matrix along the upper-intertidal zone west of the channel.

Other than complete removal of the substrate, elimination of oil will be difficult. Additionally, the very rich intertidal flora and fauna adjacent to the oiled zone will be at risk during and after extensive treatment operations.

Treatment Recommendations All surface tar mats and patties should be manually removed. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-16200

Segment CH-900

Observations Large shale cobbles and boulders compose the substrate of this low-exposure cove. A band of sporadic tar patties rings the high tide line on either side of the channel. No significant subsurface oil was identified.

Treatment Recommendations Manually remove tar patties. Trowels may be required to remove oil from interstitial spaces.

segment CH 900.

Stream 226-20-16200

Ecological Summary

4/25/90

Michael Foxcett

This stream crosses a shale cobble/pobble/gravel beach in a small cove. sparse Fucus and barnacles occur in the stream bed and along the banks. A mature bed of dense mussels exists in the MTZ near the stream mouth. Barnacle spat are dense throughout LTZ, along with patches of dense adult Balanus glandula. Aside from Fucus, the only other algae at the site are diatoms and a film of green algae. Thousands of tiny marine fish larvae (about 2mm in length) appeared to be emerging from beneath the pebbles in LTZ as the tide rose. A few whelks (Thais emarginata) were seen, along with their egg capsules. Remaining oil consists of a few surface tar mats along the stream bank in UTZ. Manual removal recommended. No ecological constraints re: intertidal biota.

M. H. Foxcett

ECOLOGICAL MAP

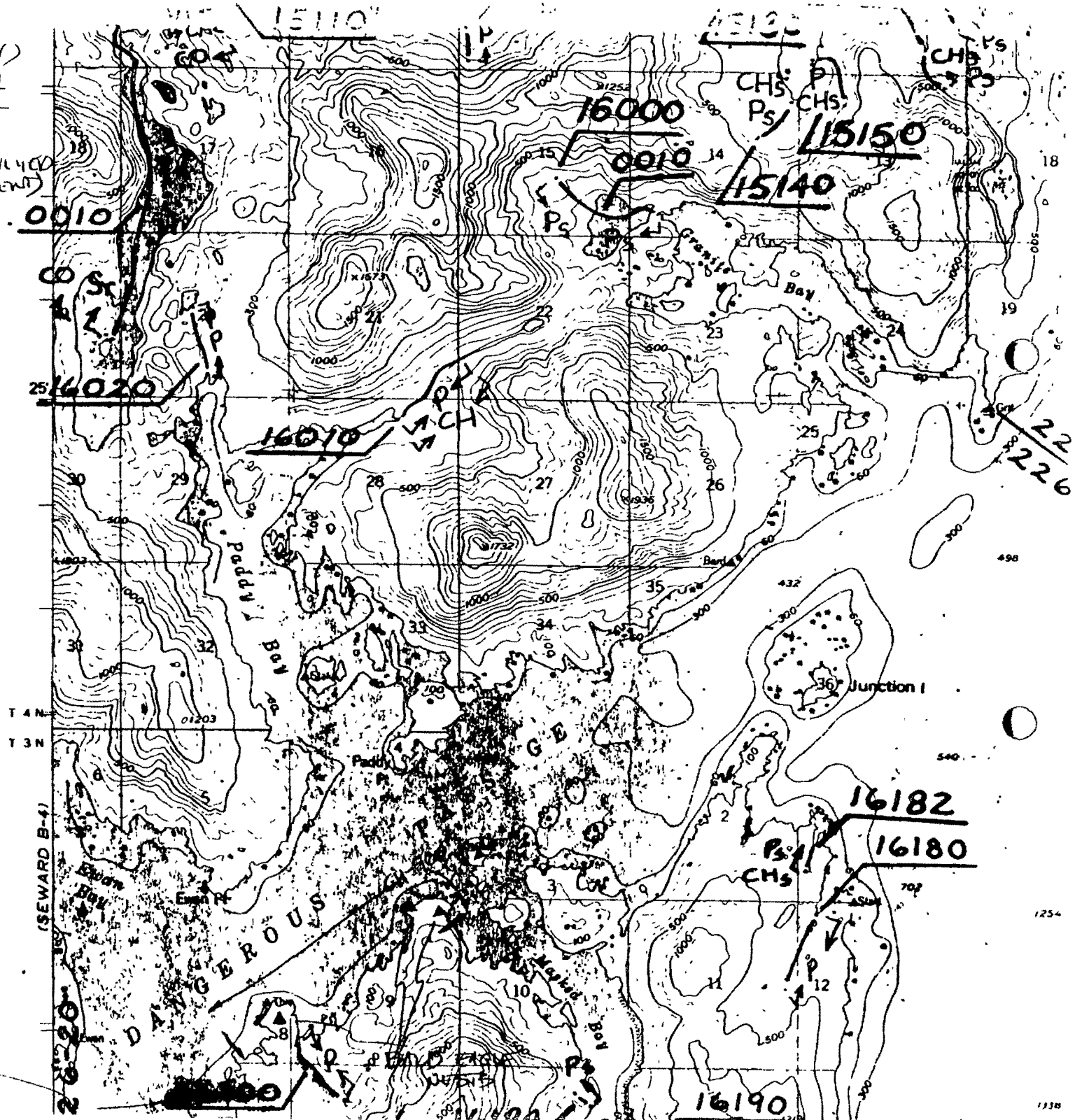
CH-9000-U (UNSURVEYED
SEGMENT)

1A, 1B
ST(3)

ACE 7236647

SUBJECT ANDROMEDUS
CIPHER # 226-20-16200
(P, 2/70)

UNITED STATES GOVERNMENT



ACFEG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES/35 CS TS AVS SCM MPMS PTA 2 REGION: PMS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90 15 HIGH TIDE TIMES: 1500 1 21 TEAM RECCORDER: TOM CROWB

4 START TIME: 0937 16 HIGH TIDE HTS: +1 ft 1 22 OBSERVERS: MIKE WIDOMER

5 STOP TIME: 0956 17 LOW TIDE TIMES: 0830 1 23 AGENCY: ADFCI ANADSCAT

6 SEGMENT #: CH 900 18 LOW TIDE HTS: -4 ft 1 24 PHOTOS TAKEN: Y (1)

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

8 X-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (1) TAPES: _____

9 STAT AREA: _____ 26 USGS QUAD: SEW B-3 Starts: _____ Ends: _____

10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN Y (1) Number _____

12 SOURCE: Map Loran 011 _____

13 LOCATION: WEST SIDE CHANCLA ISLAND Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	N	N ²	S	L	N	N ²	S
27 SURFACE COVERAGE	50	5						
28 SURFACE THICKNESS	4cm							
29 PENETRATION	—							

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

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

32 OILED DEBRIS: Y (N)

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

34 WAVE EXPOSURE: High (Moderate) Low

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

36 CATALOGED ANAD. FISH BREAK? Y N

37 CATALOG #: 226-20-16200

38 STREAM NAME: _____

39 OIL IN STREAM BED? (1) N

40 OIL ON STREAM BANKS? (1) N

41 OIL ON BEACH ADJACENT TO MOUTH? (1) N
(within 50 meters)

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

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: Small V-SHAPED COVE WITH LARGE COBBLE
AND FLAGSTONE Boulders. 5 METER BAND OF INTERMITTENT
TAR PITS THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

FRAME(S)

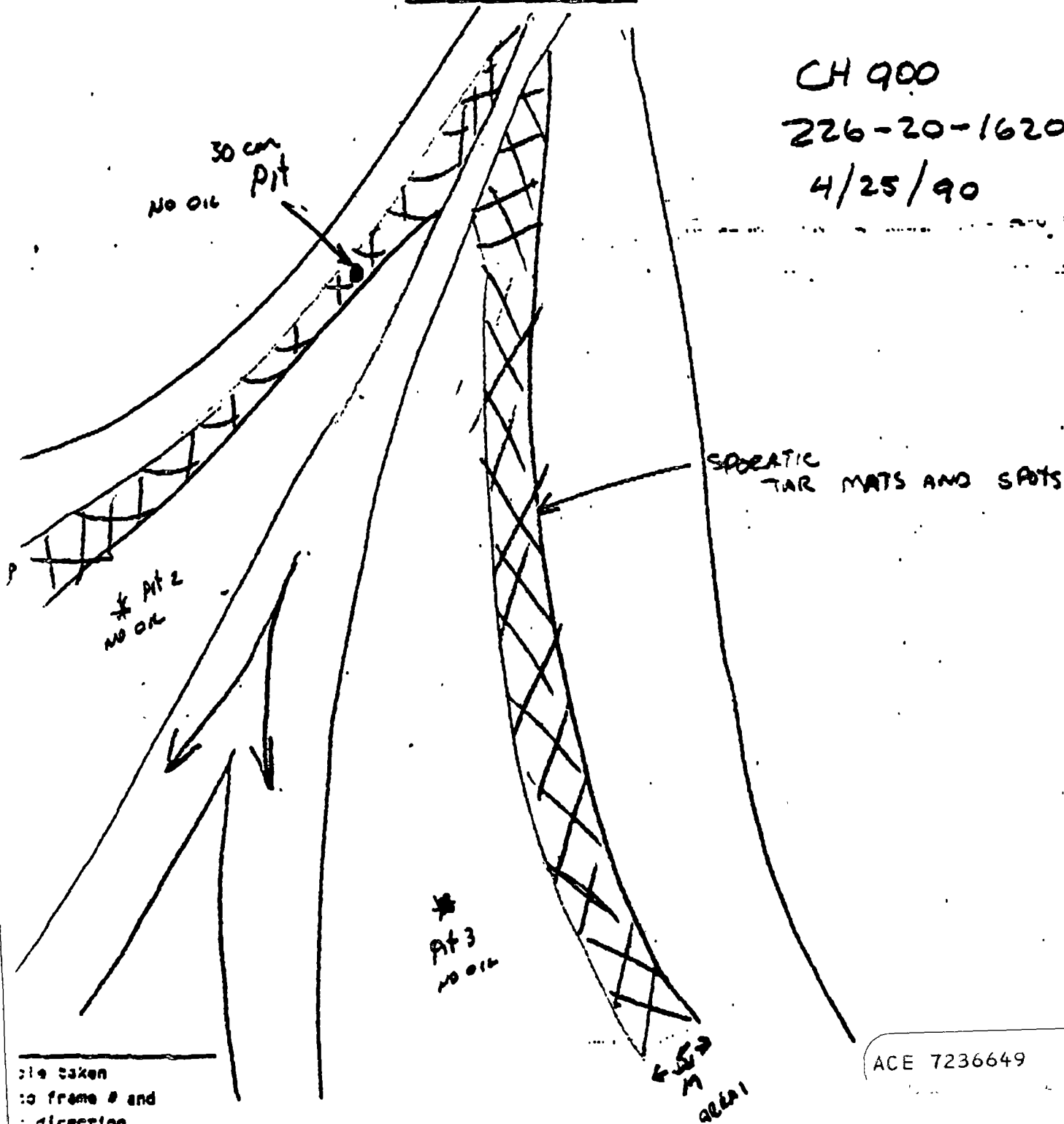
DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERSTIAL AND
UPPER INTERSTIAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOWLINE CREVICES.

I agree with recommendations. M. B. [unclear]

48 OIL DISTRIBUTION DIAGRAM



is taken
to frame # and
direction.

ACE 7236649

SEGMENT NUMBER: CH-900

STREAM NUMBER: No ASC No.

which one? 226-20-16200 ? / 226-20-16182 ?

both surveyed by
Tom + Mike
in CH-900

This stream was surveyed during the Pre-ANAD survey by a cooperative effort of ADF&G and Exxon on April 11, 1990. As a result of this pre-survey, the ANAD Fish Stream Team decided NOT to survey the stream, but simply to review the results of the pre-survey. The FIELD SHORELINE COMMENT SHEET was prepared from the review of the pre-survey. Also attached is a copy of the pre-survey for your consideration.

The ANAD Fish Stream Team recommends: NO TREATMENT

TAG Concurrence Date:

ADEC	<u>Art Wener</u>	<u>Art Wener</u>
EXXON	<u>Amy Earl</u>	<u>Amy Earl</u>
NOAA	<u>Burt Wascott</u>	<u>Burt Wascott</u>
USCG	<u>W. J. Hall</u>	<u>W. J. Hall</u>

FOSC: [Signature]

Date: 5-24-90



Roll #: _____
Frame #: _____
Taken by: _____

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 08/22/89

TIME: -0-

SEGMENT#: -0-

STATION#: 2262016200

LOCATION: EAST CHENEGA ISLAND

REASON FOR TAKING PHOTO: AERIAL VIEW - LOCATION OF STREAM SEDIMENT
SAMPLE SITE. (MAP 13)

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG004V FRAME #: 26

EVIDENCE ID#: 10251

ACE 7236617 + 1 pkt - 1 pkt

OPERATIONS FIELD NOTES

See Back for Instructions

2/51

SEGMENT ID ANAD CH-900
 STREAM ID # 226-20-16200
 ANNOTATED MAP INCLUDED Y/N

DATE 4-25-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Treatment Recommendation									
	Quantities in Meters			None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band										
Medium Band										
Narrow Band										
Very Light AREAS 1 & 2	100	5	500	✓						
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 VERY SPORADIC	50	5	4			✓	15		5
Area #2 " "	50	5	4			✓	15		5
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 Y/N OILING H/M/L QUANTITY L/M/S BURN Y/N LEAVE IN PLACE

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

GENERAL
 Wave Exposure H/M/L Snow covering 5 % of the Supratidal Zone?
 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:
MANUALLY REMOVE SPORADIC TAR PATTIES IN AREAS 1 & 2. NO
OTHER TREATMENT NECESSARY. TOTAL MANDAYS REQUIRED FOR THIS
STREAM IS 10.

ACE 7236668+15

LOG WILLIAM REID

SEGMENT ST/ CH 900

STREAM 226-20-16200

DATE 1/90

CHECKLIST

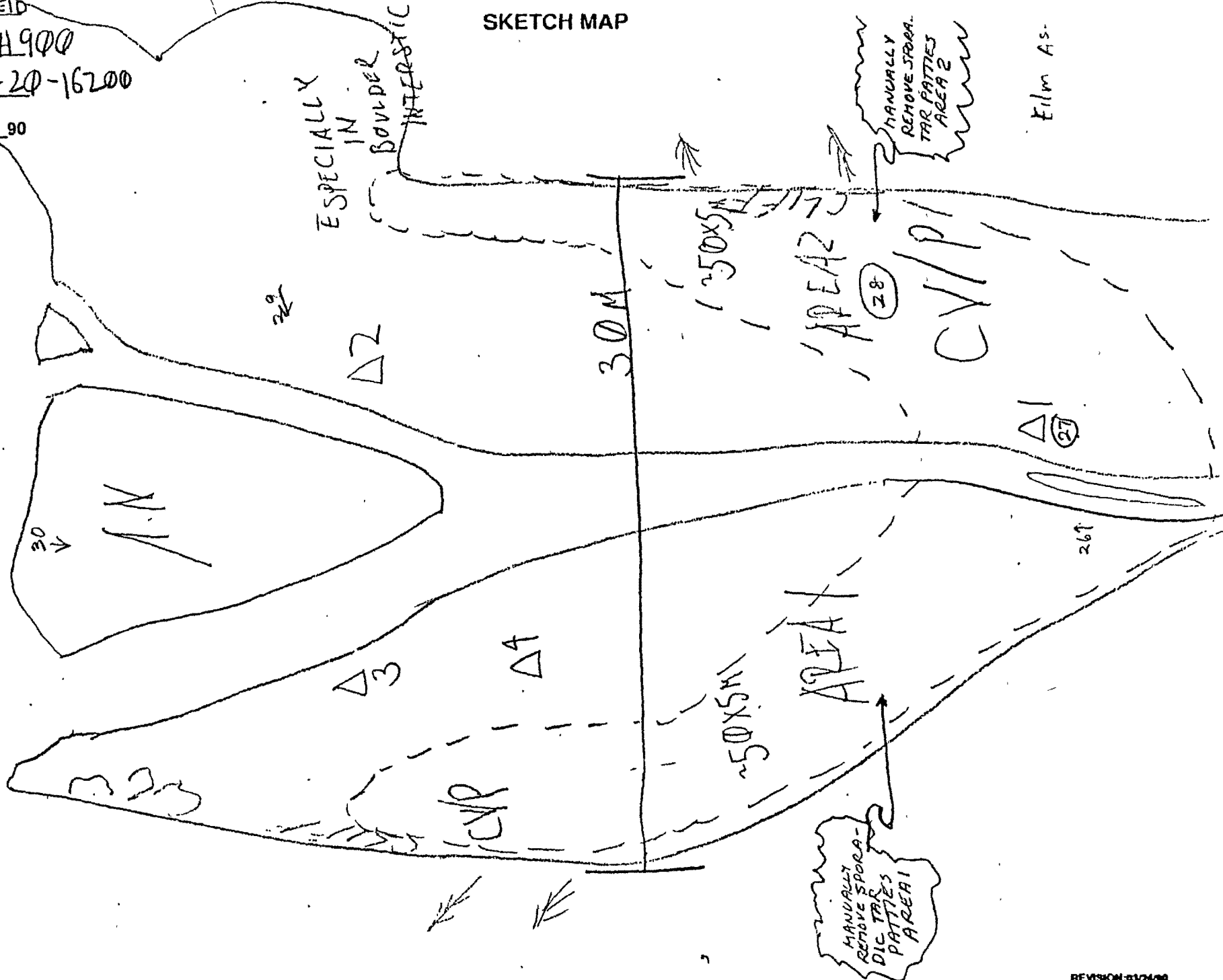
- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWL/WL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pli Location(s)
- ☐ Photo Location(s)

LEGEND

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

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

SKETCH MAP



Film A5-

REVISION: 03/24/90

ACE 7236669

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PATTIES
LEFT & RIGHT SIDES

ADP14

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORADIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN BOULDERS.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES (S) CS TS AYS SC-A MMS PTA 2 REGION: PWS KP,CI K,AP
METHOD: Aerial (Ground) Boat
3 DATE: 4/25/90 15 HIGH TIDE TIMES: 1500 1 21 TEAM RECORDER: TOM CROWL
4 START TIME: 0937 16 HIGH TIDE HTS: +11 FT 1 22 OBSERVERS: MIKE WIEDMER
5 STOP TIME: 0956 17 LOW TIDE TIMES: 0830 1 23 AGENCY: ADFG ANADSCAT
6 SEGMENT #: CH 900 18 LOW TIDE HTS: -4 FT 1 24 PHOTOS TAKEN: Y (N)
7 STATION #: 19 TIDE HT AT SURVEY: -3 FT Roll #: Frame:
8 K-UNIT: Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPE#: Starts: End:
9 STAT AREA: 20 USCG QUAD: SW B-3
10 LAT: 11 LONG: 26 SAMPLES TAKEN? Y (N) Number
12 SOURCE: Map Loran GII
13 LOCATION: WEST SIDE CHEROKEE ISLAND Sediment
14 DESCRIPTION: Biological
Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H ²	%	L	M	H ²	%
27 SURFACE COVERAGE	50	5						
28 SURFACE THICKNESS	4cm							
29 PENETRATION	—							
30 OVERALL OIL IMPACT:	N	VL	L	<u>(H)</u>	H			
31 OIL TYPE:	Pooled	Mousse	Tar	<u>(Asphalt)</u>	Sticky	Stain		
32 OILED DEBRIS?	Y	<u>(N)</u>						
33 SHORELINE TYPE:	Headland	Low-lying Rocks	Beach	<u>(Cove)</u>				
		Lagoon	Marsh					
34 WAVE EXPOSURE:	High	<u>(Moderate)</u>	Low					
35 SUBSTRATE TYPE:	Bedrock	Boulder	Cobble					
	Gravel	Sand	Mud/silt					

36 CATALOGED ANAD. FISH SKELET? Y N
37 CATALOG #: 226-20-16200
38 STREAM NAME:
39 OIL IN STREAM BED? (N) 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 ANADROMOUS FISH PRESENT? Y N
44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SMALL V-SHAPED COVE WITH LARGE COBBLE
AND FLAGSTONE BOULDERS. 5 METER BAND OF INTERMITTENT
TAR PITS THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

FRAME(S)

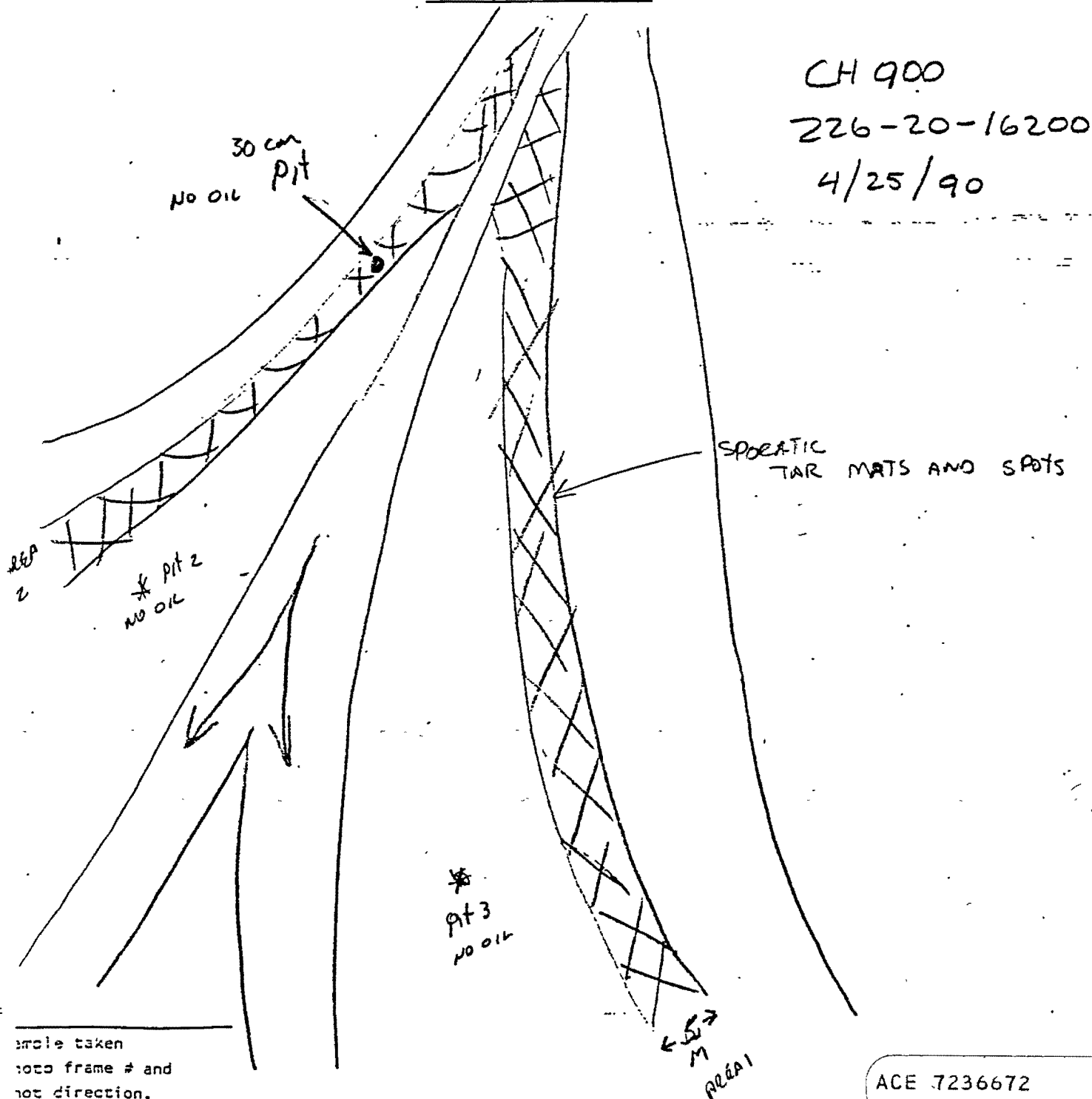
DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOULDER CREVICES.

I agree with recommendations MZ/Fennell

46 OIL DISTRIBUTION DIAGRAM



ACE 7236672

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 04/1

OG WILLIAM LED USCG McMAHON SEGMENT ST/ CH900 17/31
 BIO MICHAEL FAWCETT LAND REP 5 STREAM 226-20-162001 OF 1
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 09:30
 TEAM NO. 15 TIDE LEVEL -1.5 FT DATE 25 APR 1990
 EST. SUBDIVISION LENGTH: 30 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 60 % P 35 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 60 % Hang 40 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 8 m N 0 m VL 0 m NO 22

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	S	P	S	BR	OR	GY	SL	DR	TL	LR	LA	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER			X			X								X		
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 TL

OILED DEBRIS	AMOUNT			
	SM	MD	LG	
Logs				Did you COLLECT DEBRIS ☐ YES ☒ NO
Vegetation				
Trash				
Debris				TYPE <u>0</u>
				#BAGS <u>0</u>

Photographs:

Roll No. 0Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	SURFACE SUBSURFA SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR	OR	GY	SL	DR	TL	LR	LA	SU	U	M	L			
1	30					X	-											X					X	P/C
2	15					X	-												X				N	P/G/C
3	20					X	-												X				N	P/G/C
4	15					X	-											X					N	P/G/C
							-																	
							-																	

COMMENTS:

REVIEWED 0 DATE 0

ACE 7236673

5/5

OG WILLIAM REID

SEGMENT ST/ CH900

STREAM 22620-16200

DATE 1 90

SKETCH MAP

Film AS-15-5

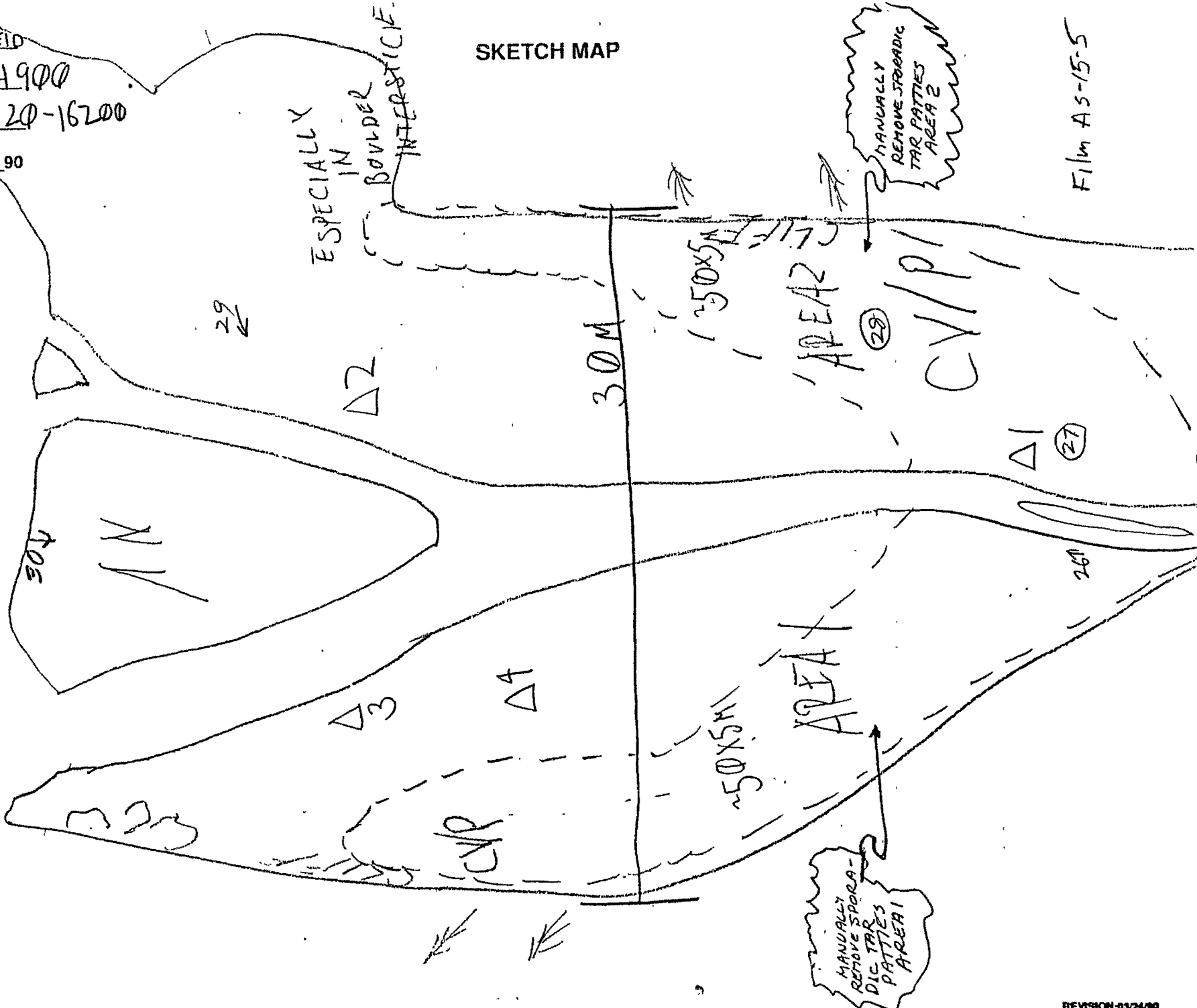
CHECKLIST

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

LEGEND

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

ACE 7236674



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

GENERAL DATA

226-21-
SEG ID: CH900 SUBDIV: 16200 TEAM: AS-15 SURVEY DATE: 4/25/90
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: 30 OIL CATEGORY: W 0 M 8 N 0 VL 0 NO 22 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 5 COB 60 PEB 35 GRN 0 SAN 0 MUD 0 VEG 0

CHAR #: 1 OIL CHAR: CV OIL DIST: CONT - BRKN - PTCH X SPLH -
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 -

10/5/

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: CH900 SUBDIV: 226-20-16200

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

PIT # 2 PIT DEPTH 15 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 3 PIT DEPTH 20 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 4 PIT DEPTH 15 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X 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 —

PROBLEMS: —

ACE 7236676

Segment CH 900
Stream 226-20-16200
Ecological Summary

4/25/90
Michael Foxsett

This stream crosses a shale cobble/pobble/gravel beach in a small cove. Sparse Fucus and barnacles occur in the stream bed and along the banks. A mature bed of dense mussels exists in the MTZ near the stream mouth. Barnacle spat are dense throughout LTZ, along with patches of dense adult Balanus glandula. Aside from Fucus, the only other algae at the site are diatoms and a film of green algae. Thousands of tiny marine fish larvae (about 2mm in length) appeared to be emerging from beneath the pebbles in LTZ as the tide rose. A few whelks (Thais emarginata) were seen, along with their egg capsules. Remaining oil consists of a few surface tar mats along the stream bank in UTZ. Manual removal recommended. No ecological constraints re: intertidal biota.

M H Foxsett

*Processed
4/8/90
gm*

RECEIVED
MAY 05 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: CH-900

STREAM NO: 226-20-16200

MANUALLY REMOVE TAR POTTIES (O.K.)

THIS DOES NOT CONCUR
WITH OUR RECOMMENDATIONS

WHO WAS THE LAND MANAGER
WHO RECOMMENDED NO TREATMENT?

ACE 7236651+1S

ADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-900 STREAM NO: 226-20-16200 DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-3 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Subject stream is located within an unsurveyed segment (no subdivision other than U).

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: _____

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO

OG WILLIAM R USCG McMAHON SEGMENT ST/ CH900 7/5
 BIO MICHAEL FAWCETT LAND REP STRAM 226-20-162001 OF
 EXXON GUS GARCIA ADFG MIKE WIDMER TIME 09:30
 TEAM NO. 15 TIDE LEVEL -1.5 ft DATE 25/4/90
 EST. SUBDIVISION LENGTH: 30 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 60 % P 35 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 60 % Hang 40 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hg
 OIL CATEGORY LENGTH: W 0 m M 8 m N 0 m VL 0 m NO 22

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0PATTIES / TARBALLS 0 BNEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Col
 DEBRIS
☐ YES ☒ NO

TYPE 0
 #BAGS 0

Photographs:

Roll No. 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)	↓	SURFACE SUBSURF. SEDIMENT
		OP	OR	OL	OF	NO		SO	NO	1	2	3	4	SU	M	E	U				
1	30					X	.							X					N		P/C
2	15					X	.								X				N		P/G
3	20					X	.								X				N		P/G
4	15					X	.							X					N		P/G
							.														
							.														

COMMENTS

REVIEWED JWDATE 4-27-90

ACE 7236653

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
- 1B Salmon stream mouth - spawning (7/10 to 8/31)
- No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.
- AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 1C Salmon fry nursery area (4/31 to 7/31)
- No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
- AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Esther Hatchery release (4/15 to 6/15)
- 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 Rothy 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
- Active Bald Eagle nests (3/1 to 9/1)
- Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/15 to 2/28)
- 7JJ Invertebrate harvesting
- 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

4/6

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP; REMOVE TAR PATCHES
LEFT & RIGHT SIDES

ADFT4

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORADIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN BouldERS.

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED
PER DECISION TREE

THIS WAS
ADDED IN

ACE 7236655

SEGMENT ST/ CA900

STREAM 226-20-16200

DATE 1/ 90

CHECKLIST

- N Arrow
 Approx. Scale
 Bag/Belt Buckle
 Off Dist.
 Width
 Length
 % Cover
 Substrate Character
 Est. HULL/LVL
 SSL
 Profile Location(s)
 Profile(s)
 Pit Location(s)
 Photo Location(s)

LEGEND

14

PN - No Subsurface OF

2A

Pl - Subsurface On

ET/C

Continuing Education

CT/O

Broken Distribution

— — —

Key Distribution

CT/8

Splashed Distribution

Oiled Vegetation

**Photo location, direction,
and number**

ACE 7236656

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

SKETCH MAP

Film A5-15.5

ESPECIALLY IN

Roundel

717188072M

MANUALLY
RENAME STATION
THE PARTIES
APPEAR

1042

CVL

17

MANAGER
-6025 24000
L-1000

NO
TREATMENT
RECOMMENDED
Per Decision
Tree

RESEARCH DESIGN

SEGMENT ST/ CH 900

STREAM 226 20-16200

SKETCH MAP

Film A-3-15

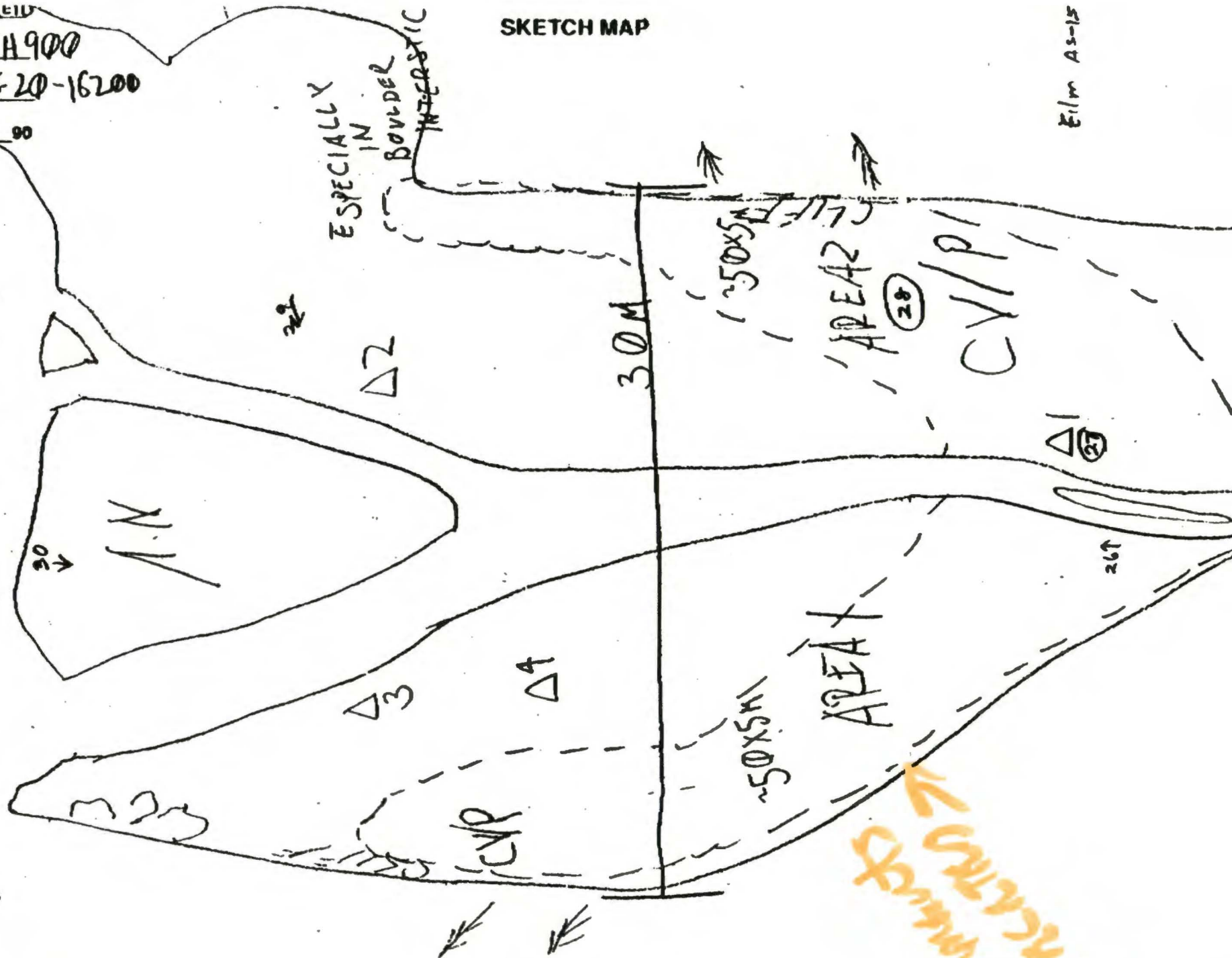
DATE 1 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Side Boundary
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. INW/L/WL
- ☐ SCL
- ☐ Profile Location(s)
- ☐ Photo Location(s)

LEGEND

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



ACE 7236657

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

REVISION: 03/2000

Alaska Department of Fish and Game

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

25 April 1990

ASC # 226-20-16182

Segment CH-009

Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove bordered by bedrock walls. The substrate is composed predominantly of shale cobble and gravel. A very rich biota occurs throughout the lower intertidal zones below the oiled areas.

A wide range of oiling types and degrees exist at this site (see ADF&G Multi-Assessment Form for specific descriptions). While this site still contains significant amounts of subsurface oil, treatment of this site will be difficult. Moderate concentrations of oil have penetrated deeply into a poorly sorted shale boulder, cobble, gravel, sand matrix along the upper-intertidal zone west of the channel.

Other than complete removal of the substrate, elimination of oil will be difficult. Additionally, the very rich intertidal flora and fauna adjacent to the oiled zone will be at risk during and after extensive treatment operations.

Treatment Recommendations All surface tar mats and patties should be manually removed. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-16200

Segment CH-900

Observations Large shale cobbles and boulders compose the substrate of this low-exposure cove. A band of sporadic tar patties rings the high tide line on either side of the channel. No significant subsurface oil was identified.

Treatment Recommendations Manually remove tar patties. Trowels may be required to remove oil from interstitial spaces.

ACE 7236658

segment CH 900

Stream 226-20-16200

Ecological Summary

4/25/90

Michael Foxsett

This stream crosses a shale cobble/pobble/gravel beach in a small cove. sparse Fucus and barnacles occur in the stream bed and along the banks. A mature bed of dense mussels exists in the MTZ near the stream mouth. Barnacle spat are dense throughout LTZ, along with patches of dense adult Balanus glandula.

Aside from Fucus, the only other algae at the site are diatoms and a film of green algae.

Thousands of tiny marine fish larvae (about 2mm in length) appeared to be emerging from beneath the pebbles in LTZ as the tide rose. A few whelks (Thais emarginata) were seen, along with their egg capsules. Remaining oil consists of a few surface tar mats along the stream bank in UTZ. Manual removal recommended.

No ecological constraints re: intertidal biota.

M H Foxsett

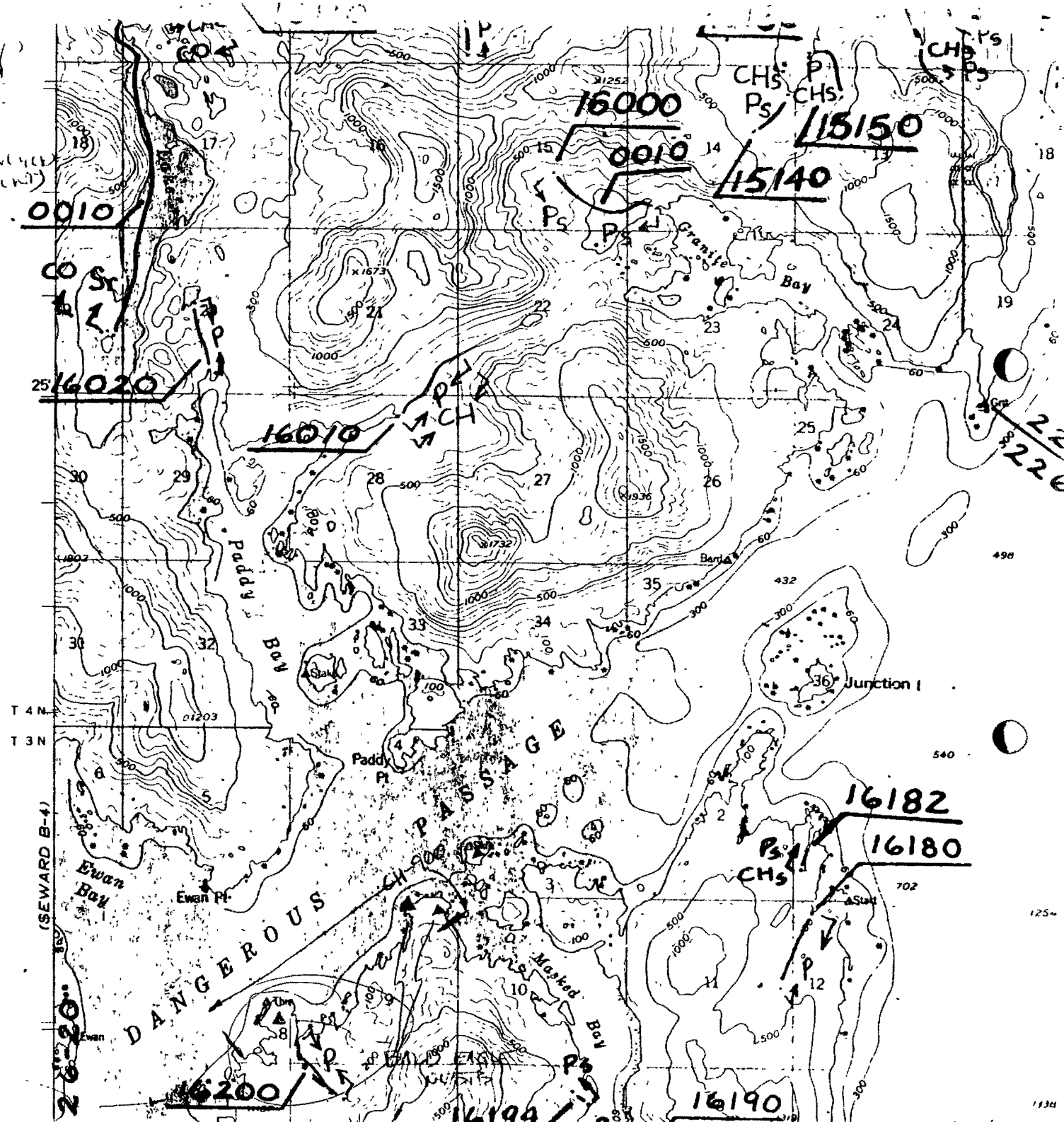
ECOLOGICAL MAP

CH-9000 U (UNSUBMITTED SECTION)

1A, 1B
ST(3)

ACE 7236660

UNSUBMITTED AREA-REVISIONS
CH-9000 U-27 C-70-16200
(1, 2/10)



ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (55) DS TS AVS SCA MMH PTA

2 REGION: 745 XP,CI K,AP

METHOD: Aerial (Ground) Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 1500

21 TEAM RECORDER: TOM CROWE

4 START TIME: 0937

16 HIGH TIDE HTS: 41 FT

22 OBSERVERS: MIKE WIGMORE

5 STOP TIME: 0956

17 LOW TIDE TIMES: 0830

23 AGENCY: ADFG ANADSCAT

6 SEGMENT #: CH 900

18 LOW TIDE HTS: ~4 FT

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY: ~3 FT

Roll #: _____ Frames: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE: _____

9 STAT AREA: _____

20 USCG QUAD: SEW B-3

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y (N) Number _____

12 SOURCE: Map Loran

Oil _____

13 LOCATION: W18ST 5102 CHEROKEE ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	N	N	N	L	N	N	N
27 SURFACE COVERAGE	50	5						
28 SURFACE THICKNESS	4CM							
29 PENETRATION	—							

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 226-20-16200

38 STREAM NAME: _____

39 OIL IN STREAM BED? (N) 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: _____

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

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

32 OILED DEBRIS? Y (N)

33 SHORELINE TYPE: Headland Low-lying Rocks Beach (Grass)
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: SMALL V-SHAPED COUR WITH LARGE COBBLE
AND FLAGSTONE Boulders. 5 meter BAND OF INTERMITTENT
TAR PITS THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHOULDER AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

FRAME(S)

DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERTIDAL AND
UPPER INTERTIDAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
IN BOWLING CREVICES.

I agree with recommendations M. J. H. H. H.

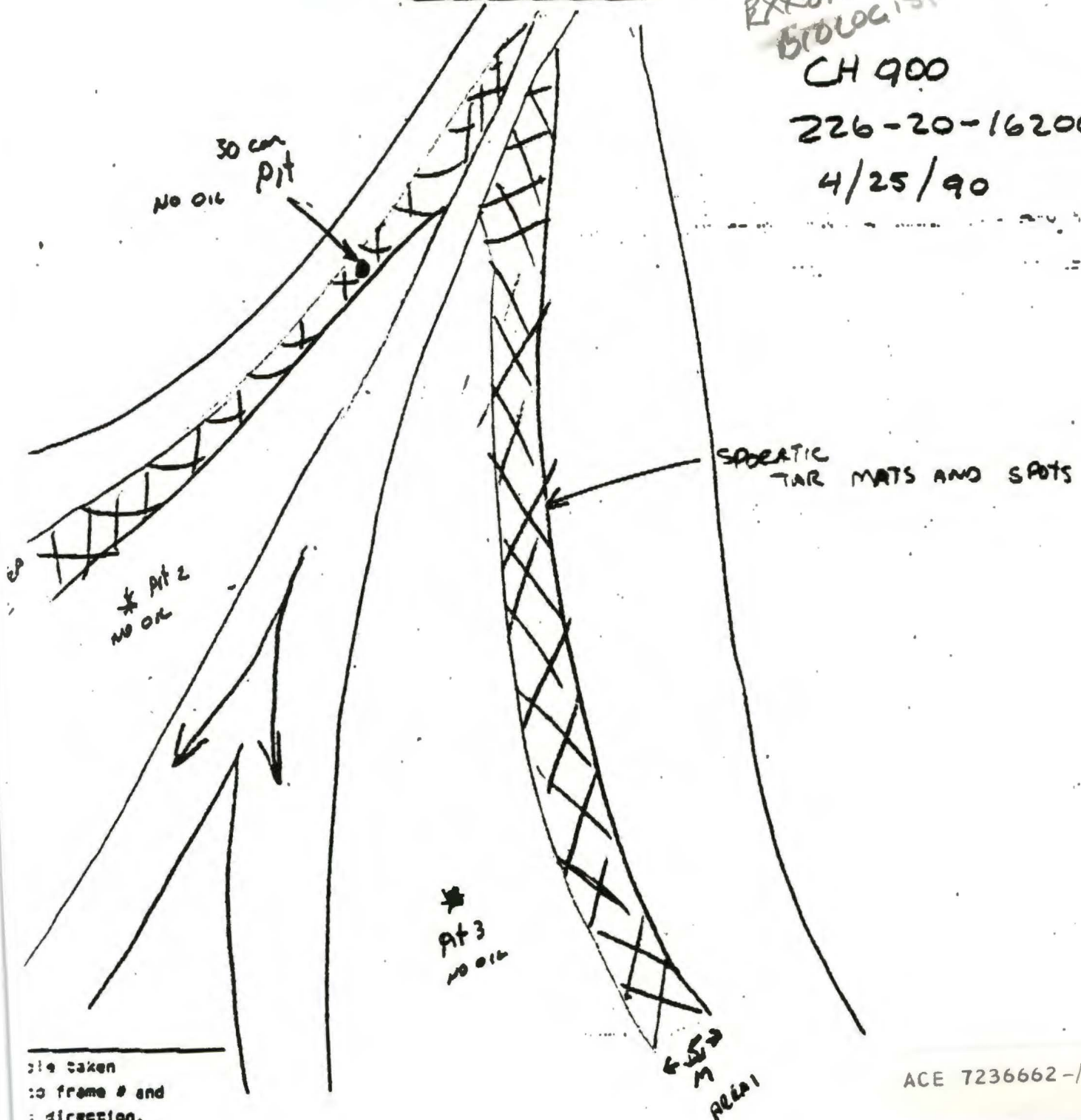
48 OIL DISTRIBUTION DIAGRAM

EXXON
BIOLOGIST

CH 900

226-20-16200

4/25/90



Pie taken
to frame # and
direction.

ACE 7236662-1/5

SEGMENT AS1 CH900 SUBDIVISION: 4 SITE: 1 DATE 8-4-90

USCG

ANAD. ST. 226-20-16200

NAME David N. NCAA SIGNATURE David N. NCAA
Don Davis, (USCG)☐ YES☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Oiling is light here, consisting mostly of scattered stain & patties.
would not reassess in 1991, unless to look more closely for subsurface oiling

ADEC

NAME Bob McCREARY SIGNATURE Robert G. McCreary☐ YES☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: Very little oiling found at all. 2 or 3 small tar patties removed by ASAP/YECO crew. No further work or reassessment recommended.

LAND MANAGER

NAME Steve WARD CVC SIGNATURE Steve Ward☐ YES☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

no history of oil in this area - Sub Surface or Surface

EXXON

NAME RANDALL K. BOYER SIGNATURE Randall K. Boyer☐ YES☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

OILING IS STABLE HERE. TWO SMALL TAR PATTIES WERE REMOVED BY ASAP CREW. NO NEED TO REASSESS IN 1991.

CH900-A, AS# 226-20-16200

NAME: ADRIAN J. DYER DATE: NOV 1990 TOTAL NO SITES: 3
 SURVEYED BY: BOB McKEOWN LAND REP: STEVE WARD TIDE LEVEL: -0.1 to -0.1
 DATE: 2/4/90 TIME: 7:00 to 7:10 USCG: 0600 Davis
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 200 m
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WEATHER: ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 OIL CATEGORY LENGTH: W m M m N m VL/00 m NO 100m m US m

SURFACE OIL

SITE 1

SITE 2

SITE 3

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S O R								
POOLED								
COVER								
COAT				X		X		
STAIN				X		X		
MOUSSE								
PATTIES/T.B.				X		X		
FILM								
NO OIL					X		X	X
EST. SITE LENGTH					200			

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S O R								
POOLED								
COVER								
COAT								
STAIN								
MOUSSE								
PATTIES/T.B.								
FILM								
NO OIL								
EST. SITE LENGTH								

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S O R								
POOLED								
COVER								
COAT								
STAIN								
MOUSSE								
PATTIES/T.B.								
FILM								
NO OIL								
EST. SITE LENGTH								

SUBSURFACE OIL

SITE NO	PIT NO	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER				OILED INTERVAL (cm)	CLEAN BELOW (Y/N)	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS
			OP	OR	OF	NO			SU	UI	MI	LI	
1	1	15				X	.			X			P/C/B
							.						
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Photographs:

Roll No φ

Frames φ

REVIEWED
8/6/90 *[Signature]*

COMMENTS - ANADROMOUS STREAM SEGMENT/SITE

PATTIES/T.B. NUMBERED TWO & WERE PICKED-UP BY THE
 FIELD CREW - SMALLER PATTIES <10cm WERE VERY SPORADICALLY DISTRIBUTED
 ON EACH SIDE OF THE STREAM ON A 35 m STRETCH OF BOWLAKE/BROCK WATER

ACE 7236620

SEGMENT ST/ CA 900

STREAM 226-20-16200

DATE 8/4/90

CHECKLIST

- ☐ N Area
- ☐ Approx. Size
- ☐ Seg/Sub Study
- ☐ On Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWA/LV
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pit - No Substrate Or

2 Δ
Pit - Substrate Or

CT/C
Continuous Distribution

CT/D
Broken Distribution

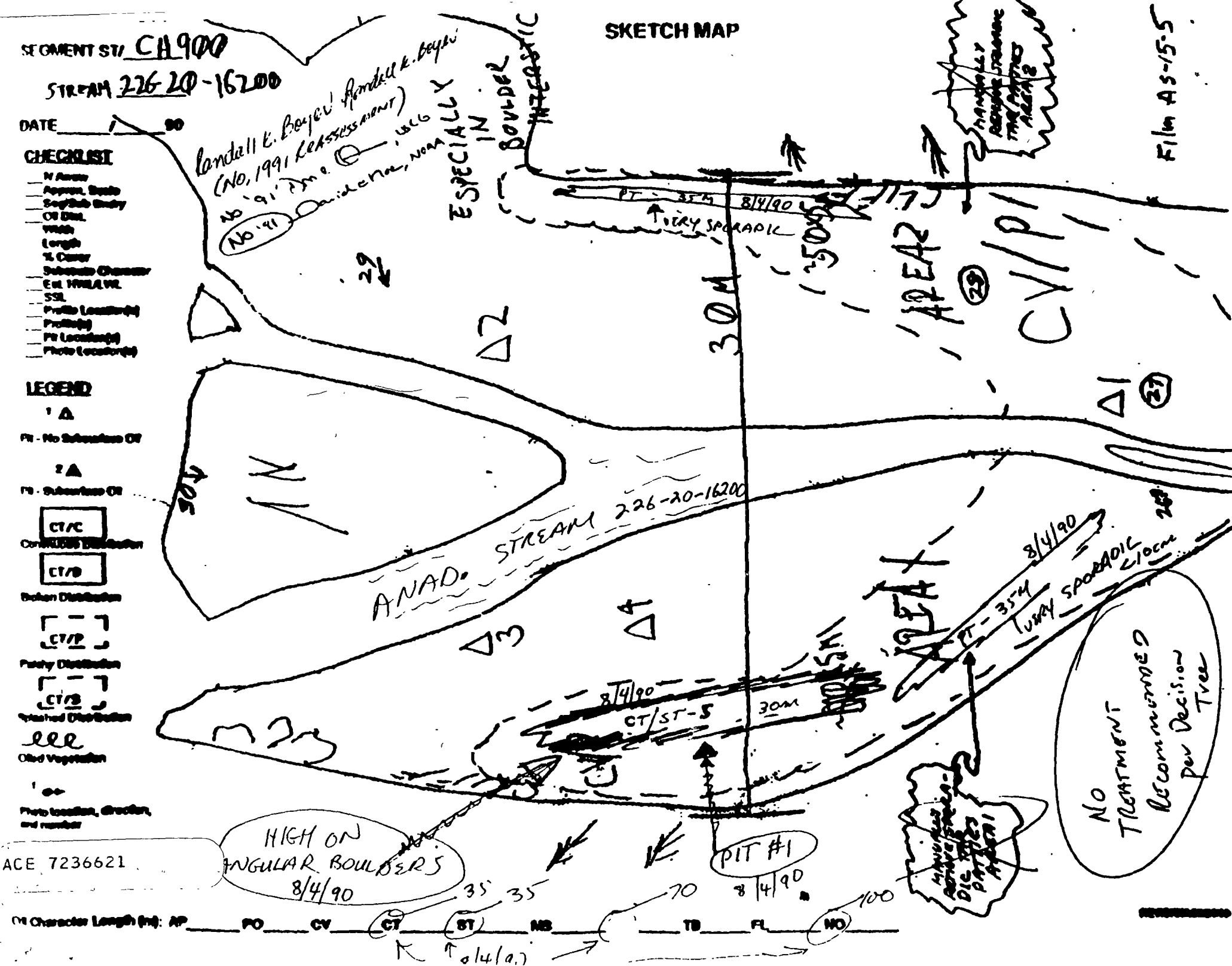
[CT/P]
Patchy Distribution

[CT/S]
Streaked Distribution

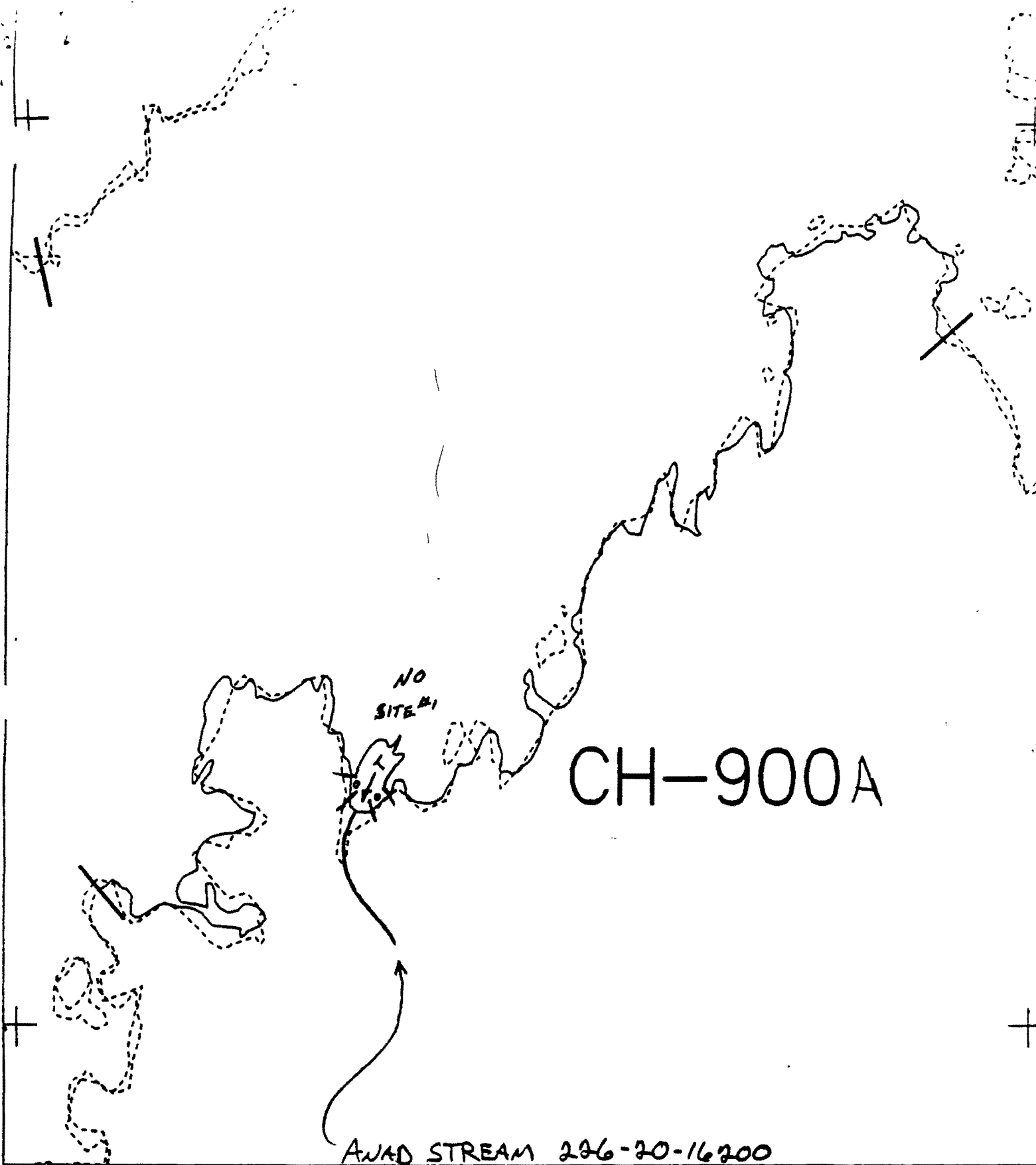
eee
Old Vegetation

1 ●●
Photo location, direction,
and number

SKETCH MAP



Film AS-15-5



XXXX
'///'

TTTT
0000

Wide
Medium
Narrow
Very Light
No Oil

CH-900A

ADEC Subsegment Length: 0m
METERS

0 300 600
AK State Plane Zone 4 1:12127
peh-900



Subdivision Field Map
Map Key: PWSCH-900
Name: WILLIAMS
Date: 8/7/90
Data Entered:

ACE 7236622 L/S

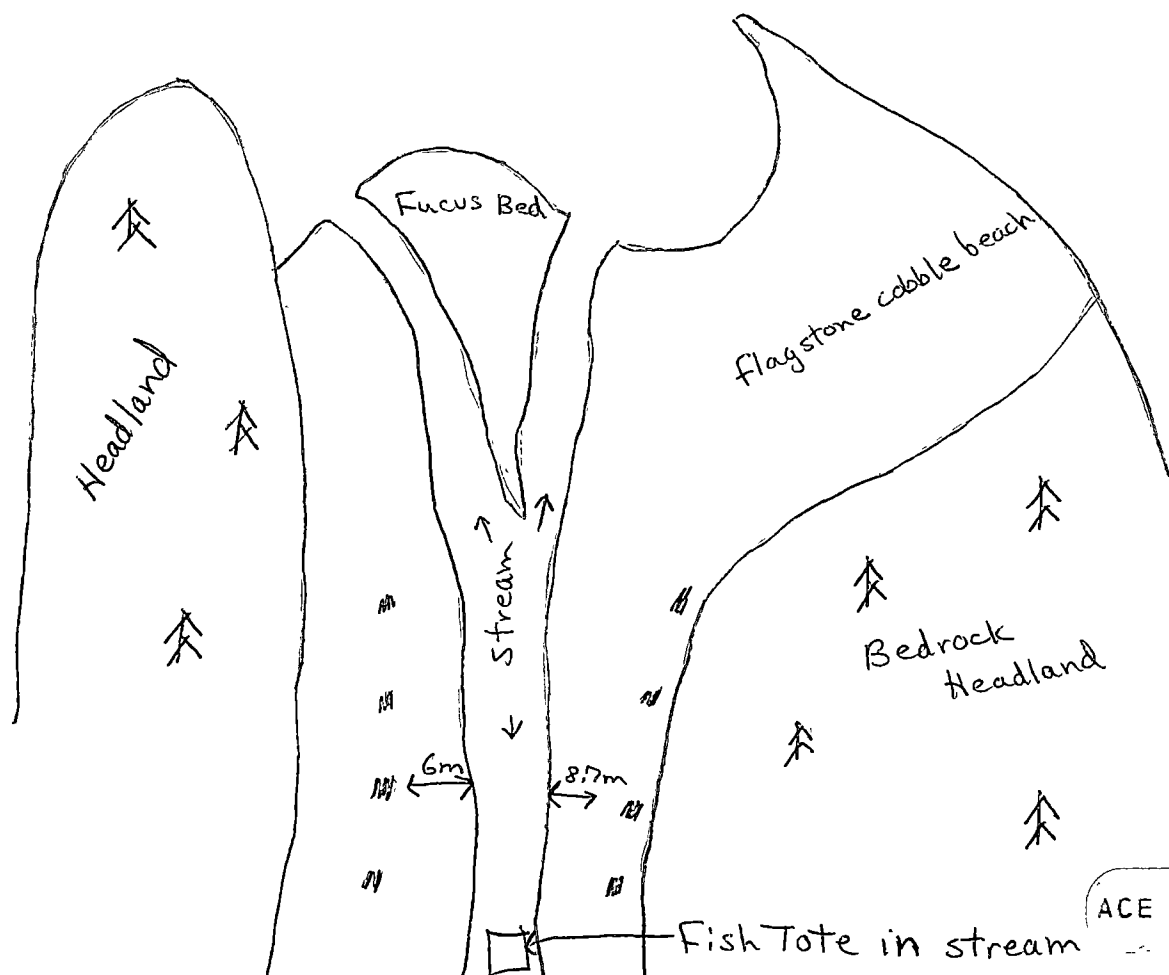
ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # Ch 900 ASC# 226-00-16200 Location NW Chenega F
Date 8/8/90 Recorder/Observer Weseman/Crowe/Middleton
Oil in streambed NONE sighted Oil on streambanks yes
Oil within 50m of mouth yes Anadromous Fish present yes

Description of oil and comments

West side of stream - sporadic tar patties in UITZ
5x5m - 6m from stream channel at low tide
East side of stream - sporadic tar patties in UITZ - 8.5m
from stream channel at low tide
Recommend - Re-assessment next spring
* Middleton notes from field trip (8/8/90) NO Reassessment

Oil Distribution Diagram



SEGMENT AS1 CH900 SUBDIVISION: A SITE: 1 DATE 8-4-90

USCG

ANAD. ST. 226-20-16200

NAME David N. NCAA SIGNATURE David N. NCAA
Don Cruis (USCG)

☐ YES

☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Oiling is light here, consisting mostly of scattered stain & patties.
would not reassess in 1991, unless to look more closely for subsurface oiling

ADEC

NAME Bob McCREW SIGNATURE Robert B. McCrew

☐ YES

☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: Very little oiling found at all. 2 or 3 small tar patties removed
by ASAP/YECO crew. No further work or reassessment
recommended.

LAND MANAGER

NAME Steve WARD CVC SIGNATURE Steve Ward

☐ YES

☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

No history of oil in this area - Sub Surface or Surface

EXXON

NAME RANDALL K. BOYER SIGNATURE Randall K. Boyer

☐ YES

☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

OILING IS STABLE HERE. TWO SMALL TAR PATTIES WERE REMOVED
BY ASAP CREW. NO NEED TO REASSESS IN 1991.

ACE 7236626+1S

DATE 8/4/90 TIME 7:00 10:10 USCg TIDE LEVEL -0.1 10 -0.1
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 200 m Don Davis
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WEATHER: ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 OIL CATEGORY LENGTH: W m M m N m VL/00 m NO/100 m US m

SURFACE OIL

SITE 1

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
SOR								
POOLED								
COVER								
COAT				X		X		
STAIN				X		X		
MOUSSE								
PATTIES/T.B.				X		X		
FILM								
NO OIL					X	X	X	X
EST. SITE LENGTH					200			

SITE 2

DISTRIBUTION				OILED ZONES			
/C	/B	/P	/S	SU	UI	MI	LI

SITE 3

DISTRIBUTION				OILED ZONES			
/C	/B	/P	/S	SU	UI	MI	LI

SUBSURFACE OIL

SITE NO	PIT NO	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER				OILED INTERVAL (cm)	CLEAN BELOW (Y/N)	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS
			OP	OR	OF	NO			SU	UI	MI	LI	
1	1	15				X	.		X				P/C/B
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Photographs:

Roll No φ

Frames φ

REVIEWED
8/6/90 TW

COMMENTS - ANADROMOUS STREAM SEGMENT/SITE

PATTIES/T.B. NUMBERED TWO & WERE PICKED-UP BY THE
 FIELD CREW - SMALLER PATTIES <10cm WERE VERY SPORADICALLY DISTRIBUTED
 ON EACH SIDE OF THE STREAM ON A 35 m STRETCH OF BOULDER/BSOROCK MATERIAL

AGE 7236627

REVISION NO. 7/27/90

STOMENT ST/ CA 900

STREAM 226 20-16200

DATE 1-20-80

CHECKLIST

- _____ N Name
 _____ Address, Street
 _____ City/State/Zip
 _____ Or Other
 _____ Work
 _____ Length
 _____ L Owner
 _____ Subjective Character
 _____ Est. PRA/VA
 _____ SSL
 _____ Profile Location(s)
 _____ Profile(s)
 _____ FN Location(s)
 _____ Photo Location(s)

LEGEND

14

FM - No Submissions OK

2 A

179. Subsurface Oil

CTAC

Don't Miss This

CT/0

Baker's Classification

CVP

Party Distribution

CTA

Printed Distribution

Old Vegetables

Photo location, direction,
and number

no character length (n): 00

HIGH ON
ANGULAR BOULDERS
8/4/90

PIT #1

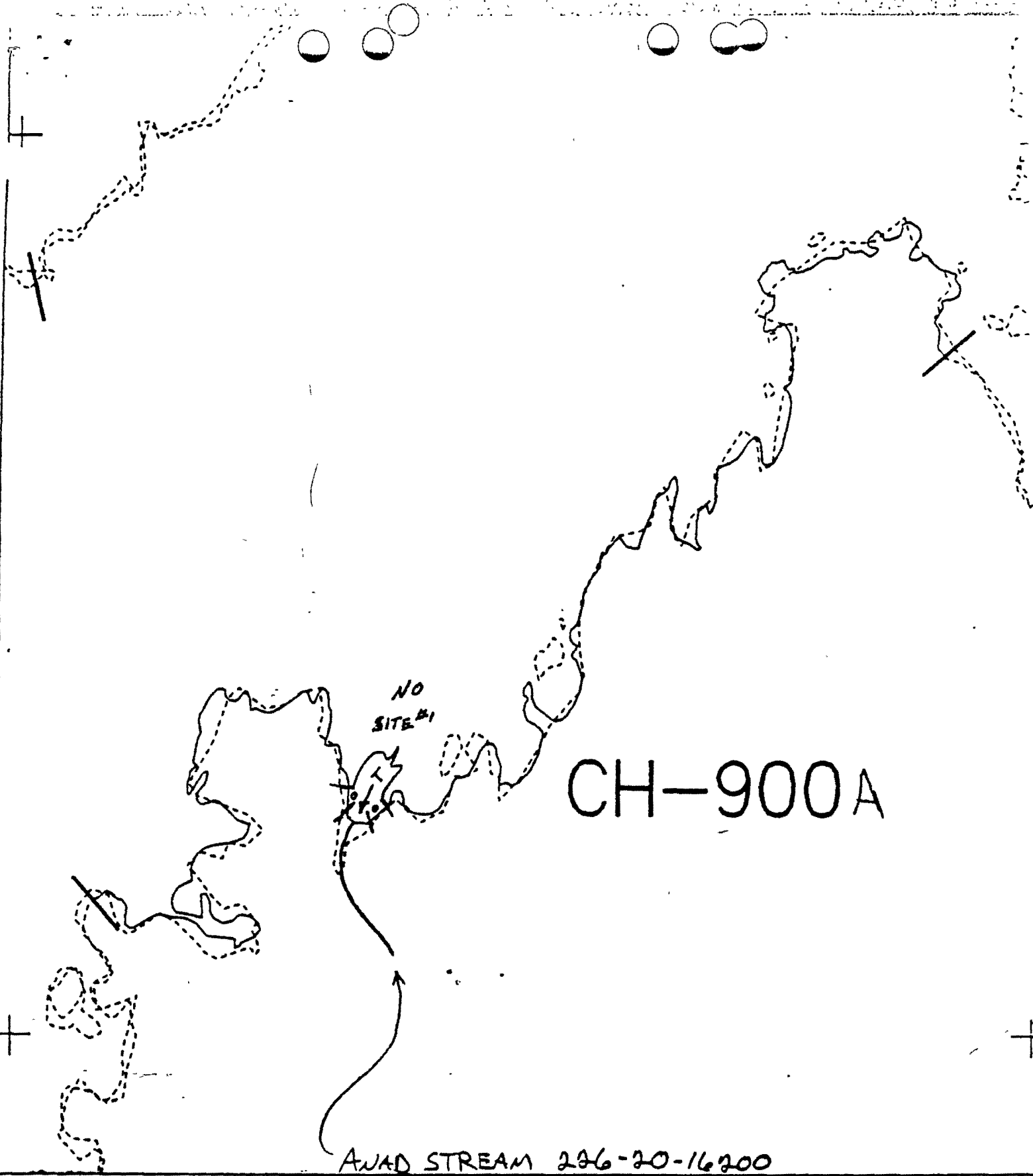
NO
TREATMENT
RECOMMENDED
per Decision
Tree

MANUEL
RODRIGUEZ
DIE TIG
PATTES
AUSCH!

Film AS-15.5

ACE 7236628

RESEARCH DESIGN



XXXX	Wide	CH-900A	Subdivision Field Map
////	Medium	ADEC Subsegment Length: 0m	Map Key: PWSCH-900
---	Narrow	METERS	Name: WILLIAMS
TTTT	Very Light	0 300 600	Date: 8/7/90
0000	No Oil	AK State Plane Zone 4 1:12127	Date Entered:
		pch-900	

ACE 7236629 -15

ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMBLEND

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

RE: SEGMENT NUMBER CH-900 SUBSEGMENT NUMBER A

DEC REP Wesley Ghormlay USCG REP Scott Thomas

EXXON REP Ray Setelo BOAT NAME/SQUAD NUMBER Beulah Candies / Squad 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.

- THE ONLY oil remaining is stains & Coats left behind due to Removal of tar balls/Patties.

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

- STAINS/Coats mostly on 100 m band on western side of stream.

Additional Comments (keep objective)

- Customblend was NOT applied due to a good job of removing tar mat & oiled sediment & was also requested by Tom Crowe ADF & G.

signature

Date and time of demobilization from segment

Shoremon\55 5-12-90

7/3/90 - 1830 Hrs.

AWADSCAT-90
PRE SURVEY ~~NOT~~ DOCUMENTATION OF THIS STREAM BY RICK GUSTIN ON 4/11/90
REVIEWED BY USCG & ADF&G. PRE SURVEY DOCUMENTATION IS ATTACHED.
FIELD SHORELINE COMMENT SHEET
AL SNOOK
EXXON REP.

ASC#: _____
SEGMENT ST/CH-900 SUBDIVISION: NONE DATE 4/27/90

USCG

NAME KERWIN L. DREHER SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADEC~~ ADFG

NAME RICK GUSTIN

SIGNATURE

Richard J. Gustin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Small stream - flows intermittently
depending on rainfall & snowmelt. Oiled lightly
and do not recommend any treatment.

LAND MANAGER

NAME

SIGNATURE

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Anad
pre-survey

used for
AODSCO
NTR

CH-9002
NO #

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ☒ SS TS AYS SOA MMS PTA

2 REGION: ☒ KS KP, CI X, AP

METHOD: Aerial ☒ Ground Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gauth

4 START TIME: 1135

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1147

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB

6 SEGMENT #: CH 900

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y ☒

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frames:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y ☒ TAPES:

9 STAT AREA:

20 USCG QUAD:

Start: Ends:

10 LAT:

11 LONG:

26 SAMPLES TAKEN: Y ☒ Number

12 SOURCE: MAP Loren

Oil

13 LOCATION: CHENEGA EAST TIDE

Sediment

14 DESCRIPTION: SMALL CAVE

Biological

EXTENT OF OIL

Water

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	M	H	S	L	M	H	S

36 CATALOGED ANAD. FISH STREAM? Y ☒

28 SURFACE THICKNESS

...							

37 CATALOG #: NONE

29 PENETRATION

38 STREAM NAME:

30 OVERALL OIL IMPACT: N VL L H H

39 OIL IN STREAM BED? ☒ N

31 OIL TYPE: Pooled ☒ Mouse Tar ☒ Asphalt Sticky Stain

40 OIL ON STREAM BANKS? ☒ N

32 OILED DEBRIS? ☒ N

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

42 OIL WITHIN 1 MILE OF STREAM? ☒ N

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High ☒ Moderate Low

44 ANADROMOUS FISH OBSERVATION

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

Species Aerial Ground

Recommend for Anadrom

COMMENTS: Small cave near south end of Dangerous passage.
Narrow band of mouse asphalt approx 60 meters long.
penetration approx 1-2" located approx intertidal 2 meters down
from snow line.

[illegible]

46 OIL DISTRIBUTION DIAGRAM

4/11/90

loading forward
ICY BAY
NASSAU Fjord

Sample taken
Photo frame # and
shot direction.

ACE 7236665 -/S

Alaska Department of Fish and Game

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

25 April 1990

ASC # 226-20-16182

Segment CH-009

Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove bordered by bedrock walls. The substrate is composed predominantly of shale cobble and gravel. A very rich biota occurs throughout the lower intertidal zones below the oiled areas.

A wide range of oiling types and degrees exist at this site (see ADF&G Multi-Assessment Form for specific descriptions). While this site still contains significant amounts of subsurface oil, treatment of this site will be difficult. Moderate concentrations of oil have penetrated deeply into a poorly sorted shale boulder, cobble, gravel, sand matrix along the upper-intertidal zone west of the channel.

Other than complete removal of the substrate, elimination of oil will be difficult. Additionally, the very rich intertidal flora and fauna adjacent to the oiled zone will be at risk during and after extensive treatment operations.

Treatment Recommendations All surface tar mats and patties should be manually removed. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-16200

Segment CH-900

Observations Large shale cobbles and boulders compose the substrate of this low-exposure cove. A band of sporadic tar patties rings the high tide line on either side of the channel. No significant subsurface oil was identified.

Treatment Recommendations Manually remove tar patties. Trowels may be required to remove oil from interstitial spaces.

ASC #

226-42-16280

Segment

CH-001

Observations A tar band covering a gravel substrate extends along the high tide line south of the channel. This band has not appreciably weathered since ADF&G staff visited the site in early December. No other oil, either surface or subsurface, was observed at the site.

Treatment Recommendations Manually remove the tar band.

ASC #

226-20-16258

Segment

CH-016

Observations One tar patty was found along the boulder rubble east of the channel. A very light and sporadic stain coated a region of the lower and mid intertidal zone west of the channel. No significant amounts of subsurface oil were observed.

Treatment Recommendations The insignificant quantities observed at the site do not warrant further treatment.

ASC #

226-20-16255

Segment

CH-014

Observations Sporadic tar mats and patties coat cobbles along high tide line of this moderately exposed site. Some of the patties lie just beneath the surface (see ADF&G Multi-Assessment Data Form diagram).

Treatment Recommendations Manual removal of tar mats and patties. Care must be taken to ensure that buried tar patties are removed.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ CH-900 STREAM NO: 226-20-16200 DATE 4/25/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 5T-3 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
 See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within an unsurveyed segment (no subdivision other than U).

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

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

SHPO SIGNATURE: Richard Dean Darr DATE: 5/18/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: MANUAL PICKUP OF TAR PATTIES

TAG APPROVAL DATE: 5/9/90

ADEC Art Wenzel Int Wenzel

EXXON ANDY SEAL Paul

NOAA Burt Wescott Rufus

USCG D.D. ROME Ad Rome

FOSC: W L DATE: 6-8-90

Notify c/c 24 hours prior to cleanup

ACE 7236678+15

SHORELINE OILING SUMMARY (ANAD.)

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ CH900 7/5

BIO MICHAEL FAY LAND REP STRAM 22620-162801 OF

EXXON Gus GARCIA ADFG MIKE WARDER TIME 09:30

TEAM NO. 15 TIDE LEVEL -1.5 ft DATE 25/4/90

EST. SUBDIVISION LENGTH: 30 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow

UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock

SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo

SURFACE SEDIMENTS: R 60 % B 5 % C 60 % P 35 % G 8 % M 2 % V

SLOPE: Long 60 % Hang 40 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ H

OIL CATEGORY LENGTH: W 9 m M 9 m N 9 m VL 9 m NO 22

SURFACE OIL

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

PAVEMENT H F S sq. m by

PATTIES / TARBALLS

NEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you Col
DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No.

Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SHEEN (Y/N)	Y	SURFAC SUBSURF. SEDIMENT
		OP	OR	OL	OF	NO		SO	SS	1	2	3	4	SW	SE	NE	NW				
1	30					X	.							X					X		P/C
2	15					X	.								X				N		P/G/L
3	20					X	.								X				N		P/G/L
4	15					X	.							X					N		P/G/L
							.														
							.														

COMMENTS

REVIEWED JW DATE 4-27-94

ACE 7236679

- 1A Salmon stream mouth - fry outmigration (3/1 to 6/15)
 1B Salmon stream mouth - spawning (3/1 to 8/31)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 1C Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (8/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to 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 267-2208
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (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)
 7A-H Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7J Invertebrate harvesting
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

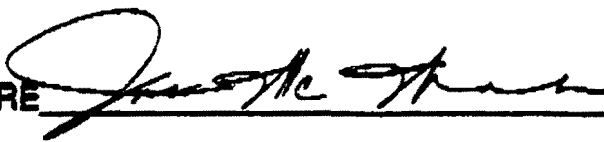
FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ CH 900 SUBDIVISION: 16 200 DATE 4/25/90

USCG

NAME CWO MC NATION

SIGNATURE



☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

1. MANUAL CLEAN-UP; REMOVE TAR PATCHES
LEFT + RIGHT SIDES

ADFTY

ADEC

NAME TOM CROWE

SIGNATURE



☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

MANUAL REMOVAL OF SURFACE OF TAR MATS AND
SPORADIC TAR PIES. USE OF HAND TROWELS MAY
BE NECESSARY TO ACCESS CREVICES IN BOULDERS.

LAND MANAGER

NAME

SIGNATURE

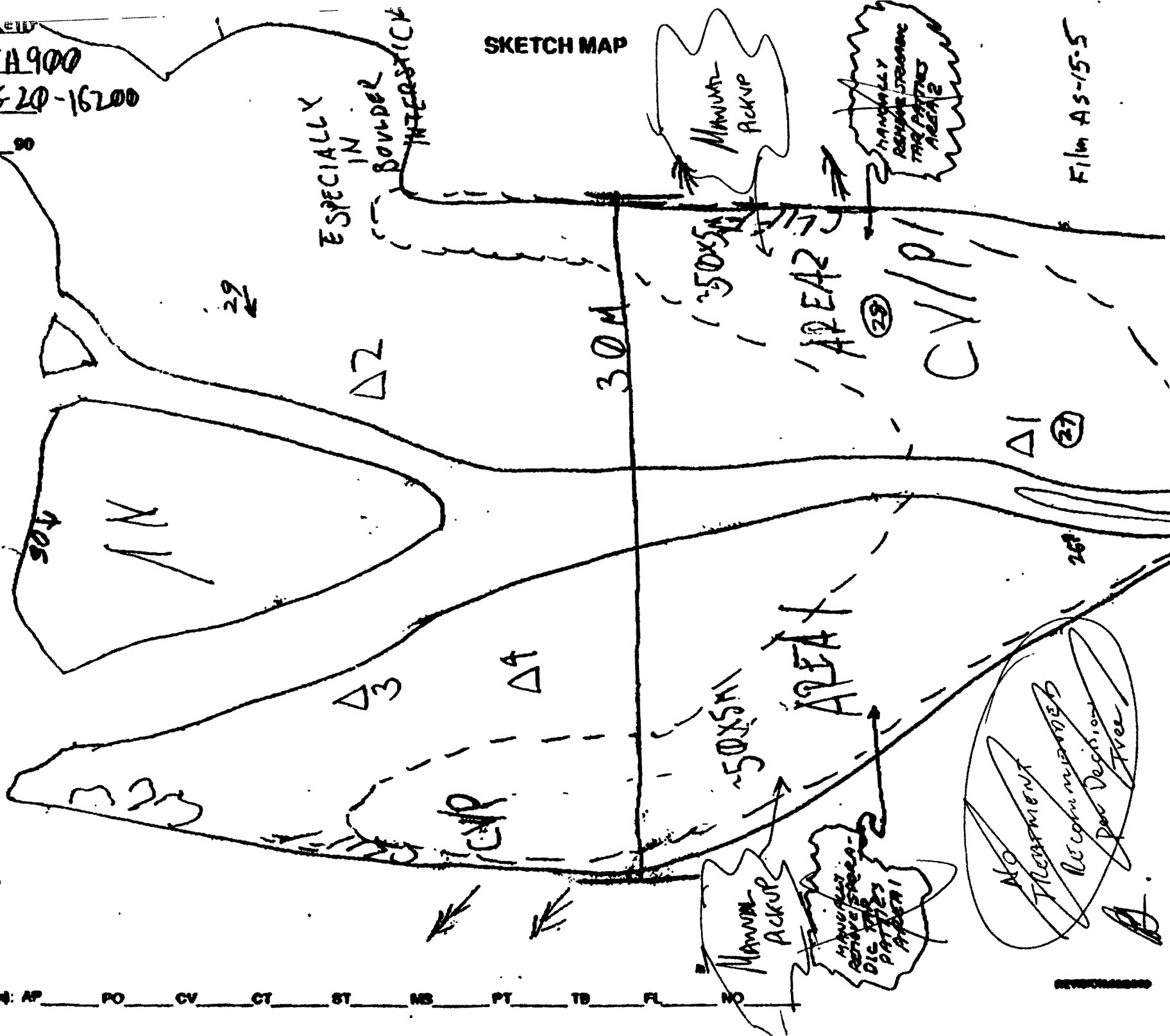
☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NO TREATMENT RECOMMENDED
PER DECISION TREE

ACE 7236681



SEGMENT ST/ CH900

SKETCH MAP

Film A5-26

STREAM 226 20-16200

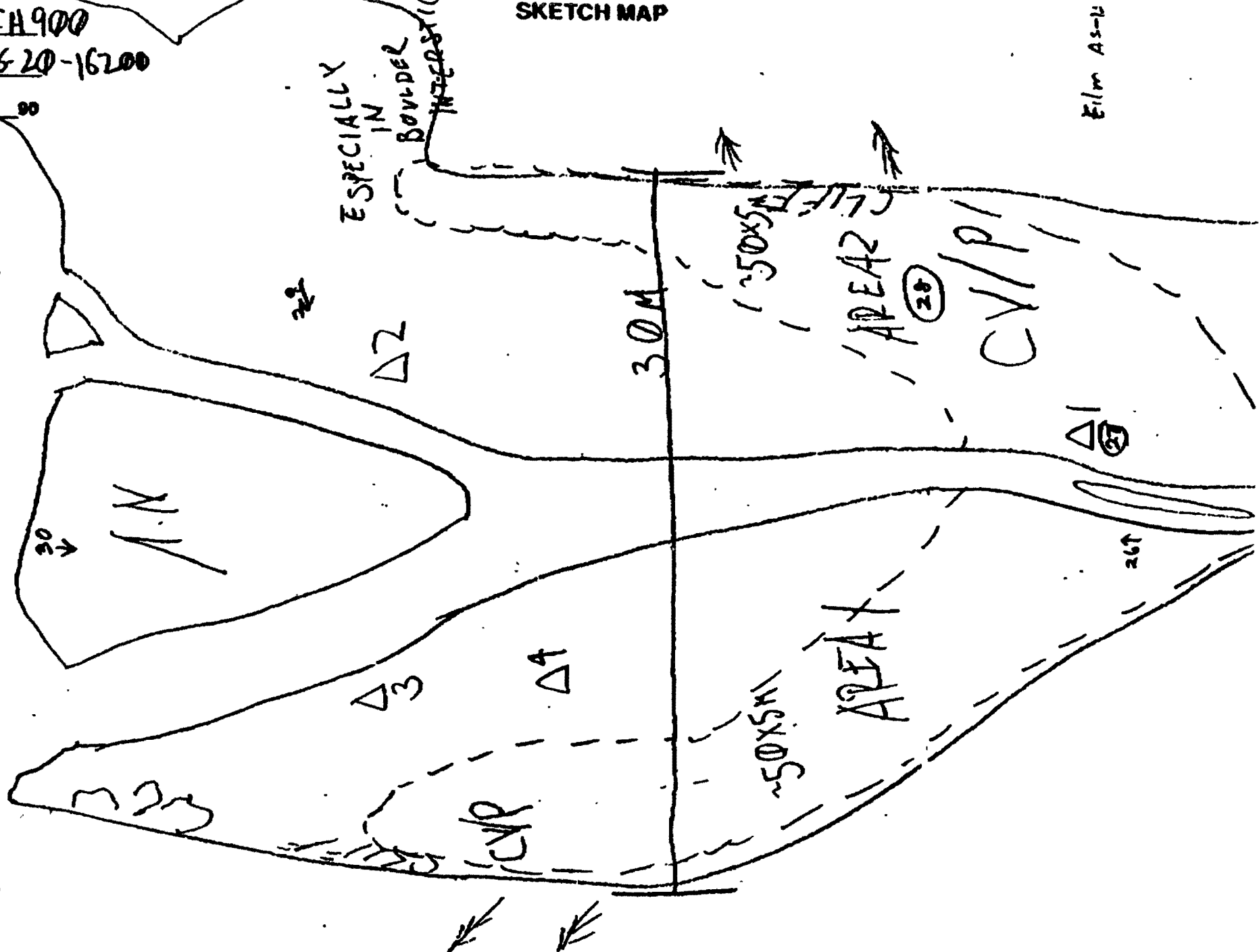
DATE 1 90

CHECKLIST

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

LEGEND

- 1
 PH - No Subsurface Oil
- 2
 PH - Subsurface Oil
- CT/C
 Continuous Distribution
- CT/B
 Spot Distribution
- CT/P
 Patch Distribution
- CT/S
 Splashed Distribution
- Dried Vegetation
- 1
 Photo location, direction, and number



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

REVISION 000000

ACE 7236683

Alaska Department of Fish and Game

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

25 April 1990

ASC # 226-20-16182

Segment CH-009

Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove bordered by bedrock walls. The substrate is composed predominantly of shale cobble and gravel. A very rich biota occurs throughout the lower intertidal zones below the oiled areas.

A wide range of oiling types and degrees exist at this site (see ADF&G Multi-Assessment Form for specific descriptions). While this site still contains significant amounts of subsurface oil, treatment of this site will be difficult. Moderate concentrations of oil have penetrated deeply into a poorly sorted shale boulder, cobble, gravel, sand matrix along the upper-intertidal zone west of the channel.

Other than complete removal of the substrate, elimination of oil will be difficult. Additionally, the very rich intertidal flora and fauna adjacent to the oiled zone will be at risk during and after extensive treatment operations.

Treatment Recommendations All surface tar mats and patties should be manually removed. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-16200

Segment CH-900

Observations Large shale cobbles and boulders compose the substrate of this low-exposure cove. A band of sporadic tar patties rings the high tide line on either side of the channel. No significant subsurface oil was identified.

Treatment Recommendations Manually remove tar patties. Trowels may be required to remove oil from interstitial spaces.

segment CH 900

4/25/90

Stream 226-20-16200

Michael Foxcett

Ecological Summary

This stream crosses a shale cobble/pobble/gravel beach in a small cove. sparse Fucus and barnacles occur in the stream bed and along the banks. A mature bed of dense mussels exists in the MTZ near the stream mouth. Barnacle spat are dense throughout LTZ, along with patches of dense adult Balanus glandula. Aside from Fucus, the only other algae at the site are diatoms and a film of green algae. Thousands of tiny marine fish larvae (about 2mm in length) appeared to be emerging from beneath the pebbles in LTZ as the tide rose. A few whelks (Thais emarginata) were seen, along with their egg capsules. Remaining oil consists of a few surface tar mats along the stream bank in UTZ. Manual removal recommended. No ecological constraints re: intertidal biota.

M H Foxcett

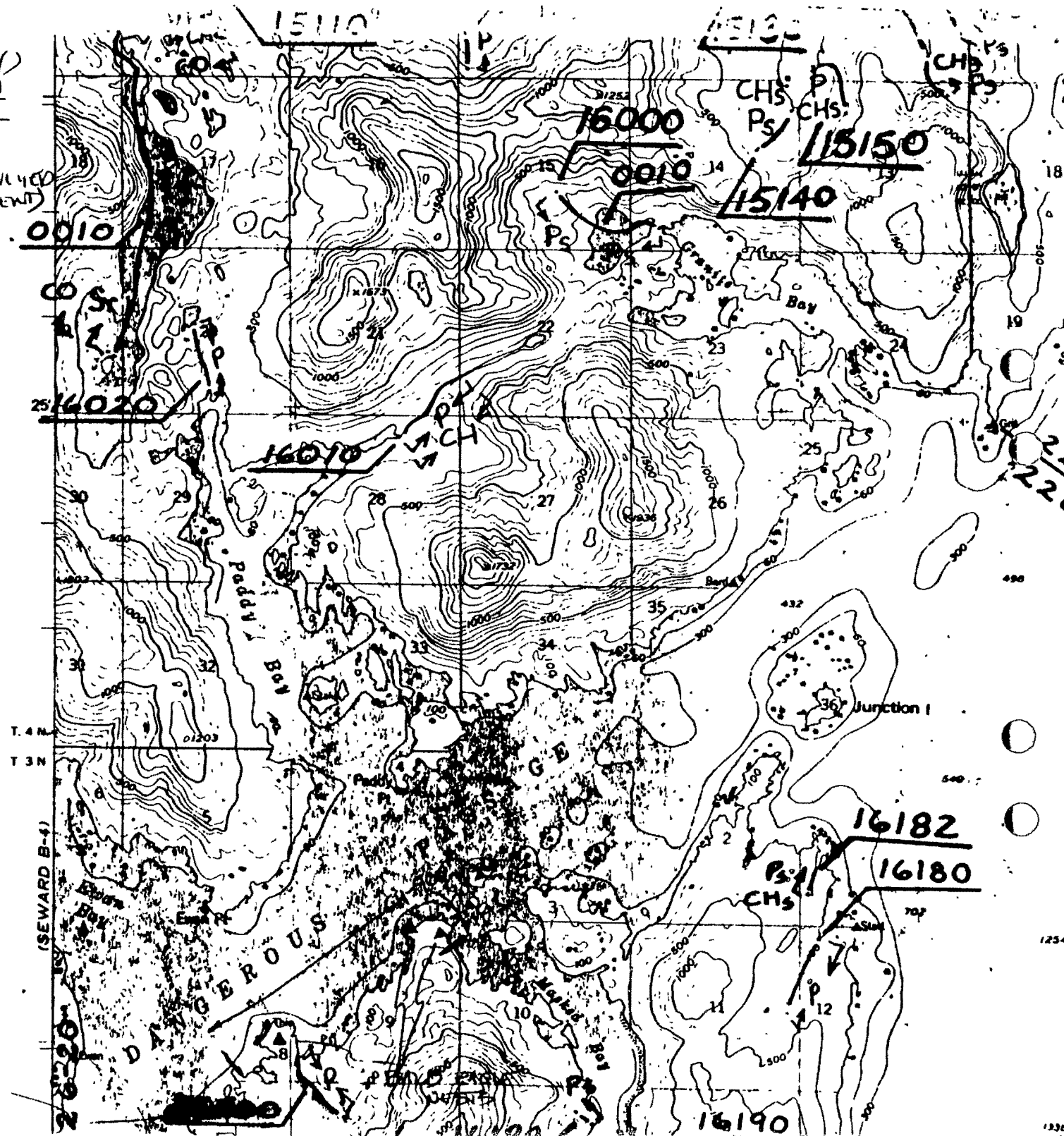
CH-900-U (UNSURVEYED
SEGMENT)

1A, 1B
ST(3)

ACE 7236686

SUBJECT ANADROMOUS
SUPERIM #226-20-16200
(P, 2/70)

UNION UNSURVEYED GOVERNMENT



ACFEG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS/55 DS TS AVS SCH MMS PTA

2 REGION: 745 KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/25/90

15 HIGH TIDE TIMES: 1500

21 TEAM RECORER: TOM CROWE

4 START TIME: 0937

16 HIGH TIDE HTS: +11' X

22 OBSERVERS: MIKE WILGOMEZ

5 STOP TIME: 0956

17 LOW TIDE TIMES: 0830

23 AGENCY: ADFG ANAOSCOT

6 SEGMENT #: CH 900

18 LOW TIDE HTS: -4 FT

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: -3 FT

Roll #: _____ Frames: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: _____

20 USCG QUAD: SW B-3

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y (N) Number

12 SOURCE: Map Loren

Oil _____

13 LOCATION: WEST SIDE CHANCA ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	N	NE	S	L	N	NE	S
27 SURFACE COVERAGE	50	5						

36 CATALOGED ANAD. FISH SPECIES? Y N

28 SURFACE THICKNESS	5cm						
29 PENETRATION	—						

37 CATALOG #: 226-20-16200

38 STREAM NAME: _____

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

39 OIL IN STREAM BED? (N) N

31 OIL TYPES: Pooled Messy Tar (Sticky) Sticky Stain

40 OIL ON STREAM BANKS? (N) N

32 OILED DEBRIS: Y (N)

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

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

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach (Lagoon)
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: SMALL V-SHAPED COUR WITH LARGE COBBLE
AND FLAGSTONE Boulders. 5 meter band of INTERMITTENT
TAR PITS THAT RUN ALONG UPPER/MID INTERTIDAL ALONG
BANK/SHORELINE AND DEPOSITED ON STREAM BANK ADJACENT
TO STREAM CHANNEL

FRAME(S)

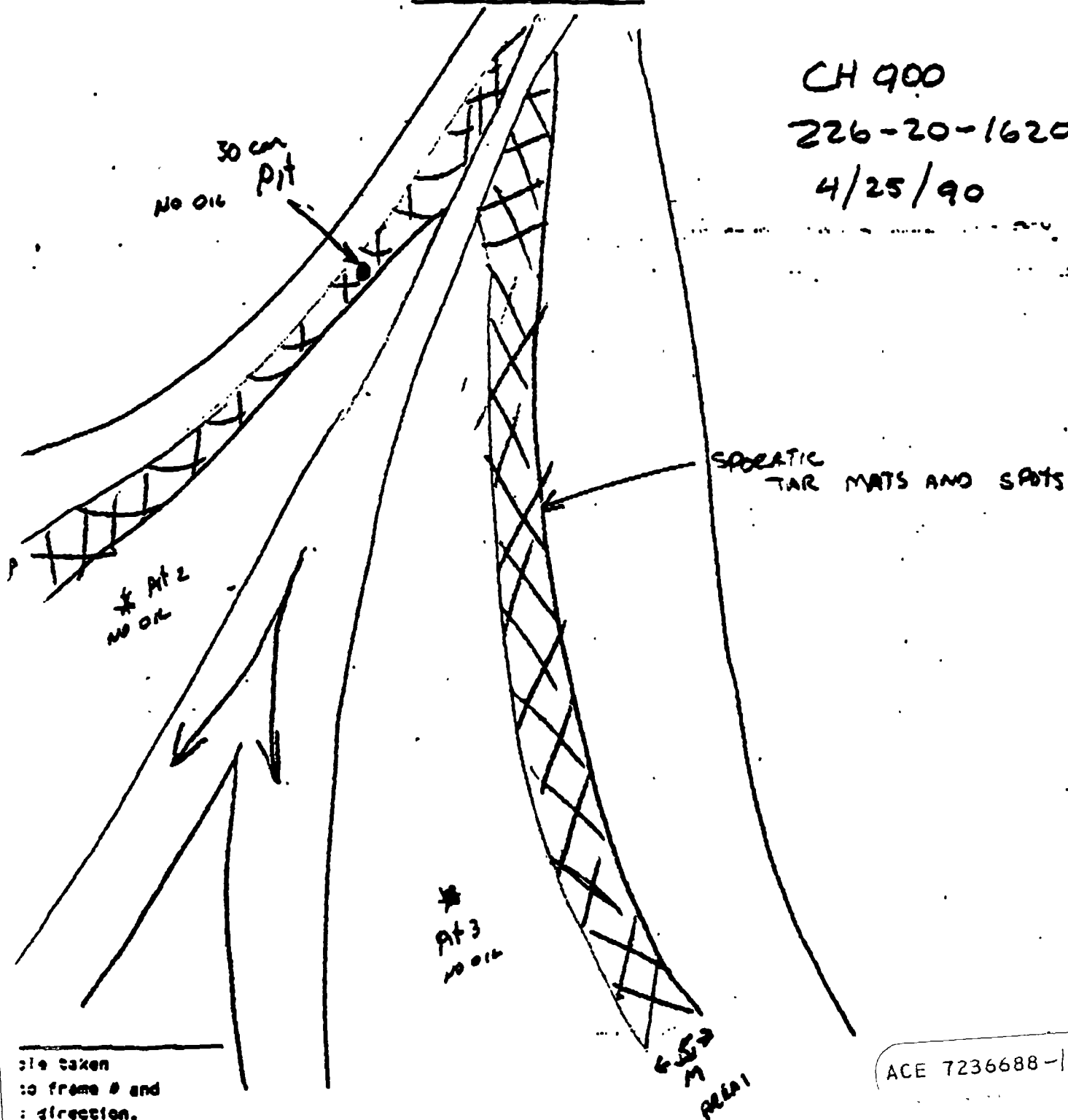
DESCRIPTION

SPORATIC TAR MATS IN BAND AT MID INTERSTIAL AND
 LOWER INTERSTIAL

RECOMMENDATION: MANUAL REMOVAL OF SURFACE
 TAR. TROWELS MAY BE NECESSARY TO GET AT TAR
 IN BOUNDRY CREVICES.

I agree with recommendations. M. J. [signature]

48 OIL DISTRIBUTION DIAGRAM



is taken
 to frame # and
 direction.

ACE 7236688-15

ADF&G MULTI-ASSESSMENT DATA FORM

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

3 DATE: 4/11/90

15 HIGH TIDE TIMES: /

21 TEAM RECORDER: _____

4 START TIME: 1123

16 HIGH TIDE HTS: /

22 OBSERVERS: Tom Crowl

5 STOP TIME: 1153

17 LOW TIDE TIMES: /

23 AGENCY: ADF&G ☒ ASW6 SEGMENT #: K&L 900
Ch ☒ ASW

18 LOW TIDE HTS: /

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: Seward B-3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y ☒ N Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: CATENGA ISLAND

Sediment _____

14 DESCRIPTION: CRACK/COVE

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 ☒ H36 CATALOGED ANAD. FISH SREAM? ☒ Y ☐ N37 CATALOG #: 226-20 ☒ ASW
16200

38 STREAM NAME: _____

39 OIL IN STREAM BED? ☒ Y ☐ N40 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

32 OILED DEBRIS? Y N

Where: S&S MAP

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate ☒ Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble ☒Gravel ☒ Sand _____ Mud/silt _____

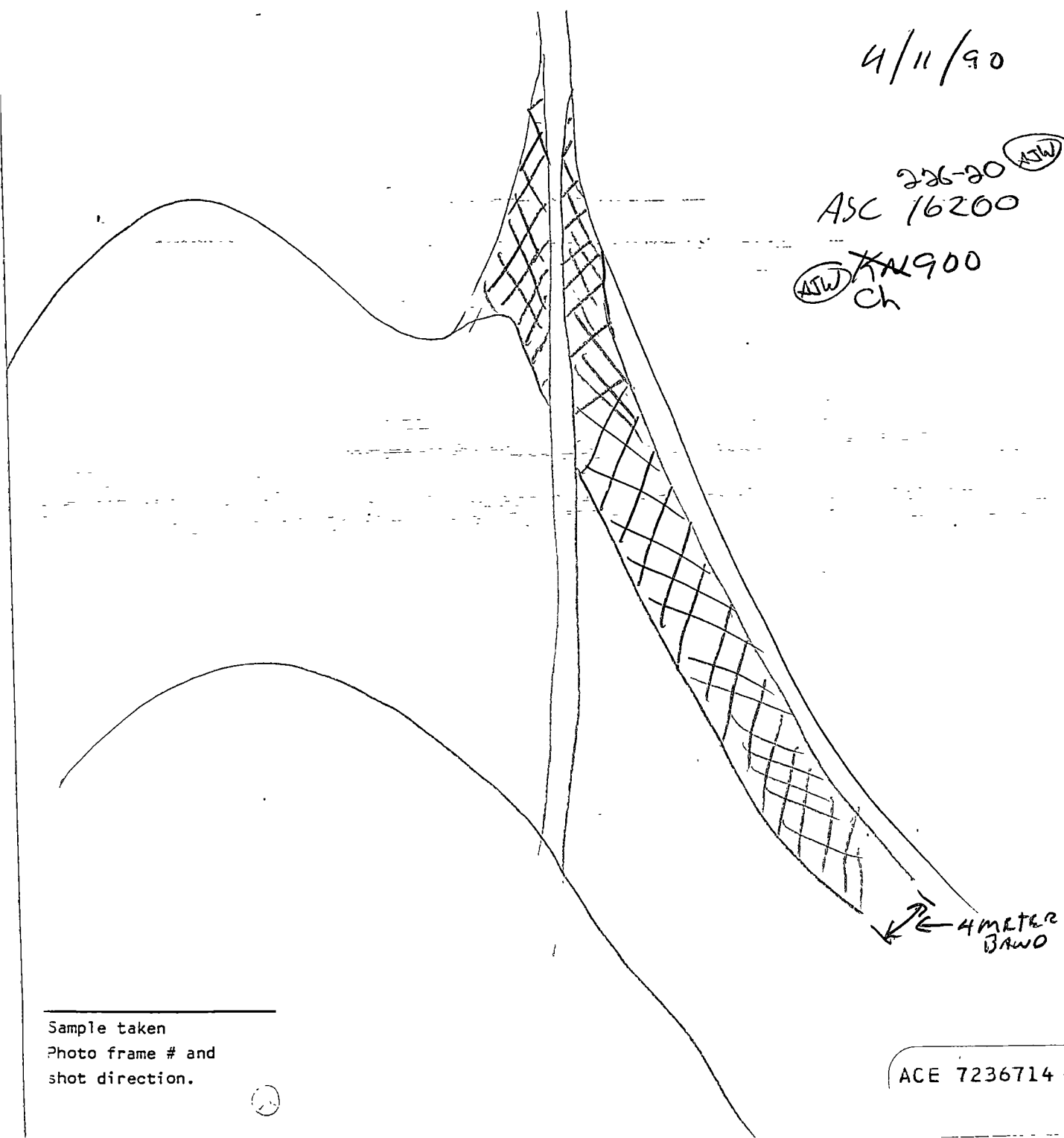
COMMENTS: LARGE AMOUNT OF STICKY THICK TAR AT UPPER
INTERTIDAL ZONE DEPOSITED THROUGHOUT THIS CRACK.

RECOMMEND FULL ANADSCAT

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



ASSESSMENT OF INTERTIDAL SPAWNING AREAS AFFECTED
BY THE PRINCE WILLIAM SOUND OIL SPILL

NAME: Chenega Isl. NW.

USGS MAP: Seward

MAP #: B-3

DATE: 4-17-89

TIME OF SURVEY: 2025

LOW TIDE +1.4 TIME 1826

COLLECTORS: SM + DR

ASC# 226-20-16200

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

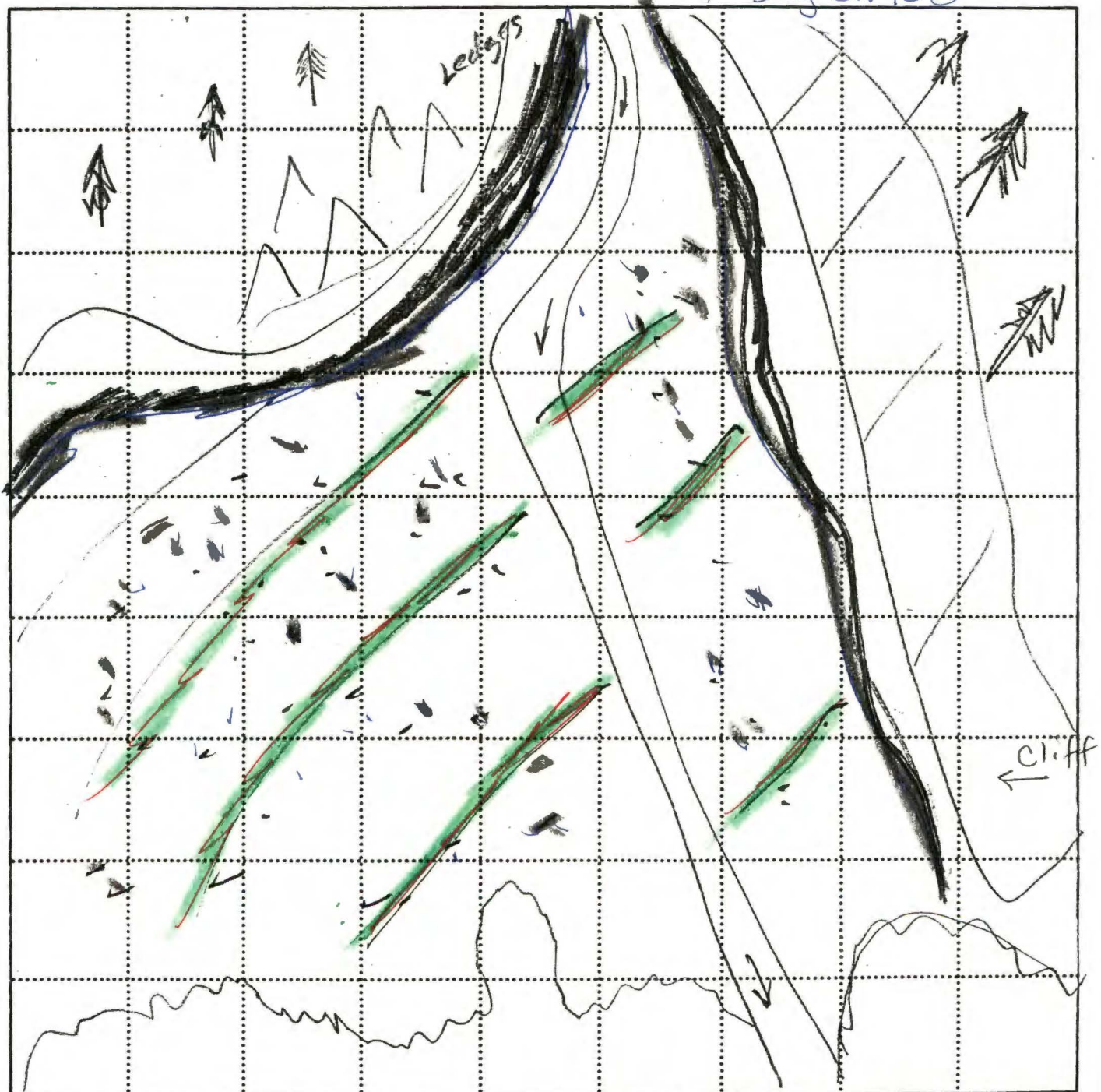
PHOTO #: 14715 Roll 67

STREAM CATALOG #: 16200

SCALE: ONE GRID EQUALS

seg Ch 900

NO OIL
SHEEN
MOUSSE
BLACK OIL



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

COMMENTS:

SEGMENT NUMBER: CH-900

STREAM NUMBER: No ASC No.

This stream was surveyed during the Pre-ANAD survey by a cooperative effort of ADF&G and Exxon on April 11, 1990. As a result of this pre-survey, the ANAD Fish Stream Team decided NOT to survey the stream, but simply to review the results of the pre-survey. The FIELD SHORELINE COMMENT SHEET was prepared from the review of the pre-survey. Also attached is a copy of the pre-survey for your consideration.

The ANAD Fish Stream Team recommends: NO TREATMENT

TAG Concurrence Date: _____

ADEC	<u>Art Weiner</u>	<u>Art Weiner</u>
EXXON	<u>Amy Katz</u>	<u>Amy Katz</u>
NOAA	<u>Burt Wescott</u>	<u>Burt Wescott</u>
USCG	<u>W. J. Hall</u>	<u>W. J. Hall</u>

FOSC: [Signature]

Date: 5-24-90

CH900

westg

ASC: NONE

CHENEGA ~~EAST~~ TIDE

ACE 1369526



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. 5000...)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (5000...)
____ '90 Other Documents _____



ADF&G MULTI-ASSESSMENT DATA FORM

AJW
Pre-ANADSCAT-901 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/11/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: R. Gustaf4 START TIME: 115016 HIGH TIDE HTS: 122 OBSERVERS: 15 STOP TIME: 120017 LOW TIDE TIMES: 123 AGENCY: ADFG HAB.6 SEGMENT #: CH 90018 LOW TIDE HTS: 124 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY:

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

13 LOCATION: CHEVEGA EAST COAST.14 DESCRIPTION: SOUTH WEST OF MASKED BAY

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 N33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh34 WAVE EXPOSURE: High Moderate Low35 SUBSTRATE TYPE: Bedrock Boulder Cobble
Gravel Sand Mud/silt36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: NONE38 STREAM NAME: 226 NOLOC (K)39 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? Y N41 OIL ON BEACH ADJACENT TO MOUTH? 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 OIL FOUND

ACE 7236614-12/AC/FF

CATALOG NUMBER: 226NOLOC01

SEGMENT NUMBER: CH900

STREAM NAME:

SHORELINE TYPE:

LOCATION: CHENEGA ISLAND, MASKED BAY, SOUTHWEST OF

DATE: 04/11/90

TIME: COVE -1200

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

COMMENTS:

NO OIL FOUND.

STREAM BANKS: NO

MILE OF STREAM: NO

OIL ON
OIL WITHIN 1

CATALOG NUMBER: 226NOLOC01		SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, MASKED BAY, SOUTHWEST OF			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADS CAT		SURFACE				
MAD vs. OG: COMMENTS: NO OIL FOUND. NO OIL WITHIN 1 mile of stream location. (Could not determine exact location of survey site). OIL WITHIN 1 MILE OF STREAM: NO							

CATALOG NUMBER: 226NOLOC02 SEGMENT#: CH900 LOCATION: CHENEGA ISLAND, EAST SIDE, SMALL POCKET COVE, ANAD							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADS CAT		SURFACE				
MAD vs. OG: COMMENTS: NO OIL NOTED IN OR AROUND STREAM. (COULD NOT DETERMINE EXACT LOCATION OF SURVEY SITE).							

CATALOG NUMBER: 226NOLOC02		SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, EAST SIDE, SMALL POCKET COVE, ANAD			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADS CAT		SURFACE				
MAD vs. OG: COMMENTS: NO OIL NOTED IN OR AROUND STREAM. (could not determine exact location of survey site). location?							

ADJ
Pre-ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4/11/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: R Gustin4 START TIME: 120516 HIGH TIDE HTS: 122 OBSERVERS: 15 STOP TIME: 121517 LOW TIDE TIMES: 123 AGENCY: ADFG HAB.6 SEGMENT #: CH 90018 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 Number _____12 SOURCE: Map Loran

Oil _____

13 LOCATION: East side Cheney Is.

Sediment _____

14 DESCRIPTION: small pocket low with salmon stream

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 H36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: NOVE38 STREAM NAME: 226 NOLOC #2 1/239 OIL IN STREAM BED? Y N40 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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

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 oil noted in or aroundstream.

ACE 7236613

CATALOG NUMBER: 226NOLOC02

STREAM NAME:

LOCATION: CHENEGA ISLAND, EAST SIDE, SMALL POCKET COVE, ANAD

SEGMENT NUMBER: CH900 (?)

SHORELINE TYPE:

DATE: 04/11/90 TIME: -1215

west? cannot ID location

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

COMMENTS:

NO OIL NOTED IN OR AROUND STREAM.

STREAM BANKS: NO

MILE OF STREAM: NO

OIL ON
OIL WITHIN 1

CATALOG NUMBER: 226NOLOC03							
SEGMENT#: CH900							
LOCATION: CHENEGA ISLAND, EAST SIDE, SMALL COVE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADSCAT	1	60 SURFACE		2-5	AP MS	NARROW BAND OF MOUSSE AND ASPHALT IN UITSZ 2M DOWN FROM SNOW LINE.
MAD vs. OG: COMMENTS: OIL ON STREAM BANKS. RECOMMEND FOR ANADSCAT. (COULD NOT DETERMINE EXACT LOCATION OF SURVEY SITE). OIL WITHIN 1 MILE OF STREAM: YES							

CATALOG NUMBER: 226NOLOC03			SEGMENT#: CH900		LOCATION: CHENEGA ISLAND, EAST SIDE, SMALL COVE		SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADSCAT	1	27 x 60 SURFACE		2-5	AP MS	Narrow band of mousse + asphalt in UITE 2 m down from snow line.
MAD vs. OG: COMMENTS: SMALL COVE NEAR SOUTH END OF DANGEROUS PASSAGE. NARROW BAND OF MOUSSE AND ASPHALT APPROX 60 METERS LONG, PENETRATIONS APPROX 1-2" LOCATED UPPER INTERTIDAL 2 METERS DOWN FROM SNOW LINE. OIL ON STREAM BANKS. RECOMMEND FOR ANADSCAT. OIL WITHIN 1 MILE OF STREAM: YES (could not determine exact location of survey site).							

ANAD Pre-survey

ADF&G MULTI-ASSESSMENT DATA FORM

ATW
Pre-ANADSCAT-90

1 SURVEY TYPE: BS SP DS TS AVS SCHA MMS PTA

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

ASC #16200

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Guster

4 START TIME: 1135

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1147

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB

6 SEGMENT #: CH 900

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

Oil

13 LOCATION: CHENEGA EAST SIDE

Sediment

14 DESCRIPTION: SMALL COVE

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%

36 CATALOGED ANAD. FISH SREAM? Y (N)

37 CATALOG #: NONE

28 SURFACE THICKNESS

38 STREAM NAME: 226 NOLOC #3

29 PENETRATION

39 OIL IN STREAM BED? (Y) N

30 OVERALL OIL IMPACT: N VL L M H

40 OIL ON STREAM BANKS? (Y) N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

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

32 OILED DEBRIS? (Y) N

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

Where: upper intertidal

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock Boulder Cobble

Gravel Sand Mud/silt

Species Aerial Ground

COMMENTS: Small cove near south end of Dangerous passage.

narrow band of mousse + asphalt approx. 60 meters long.
penetration approx. 1-2" located upper intertidal 2 meters down
from snow line.

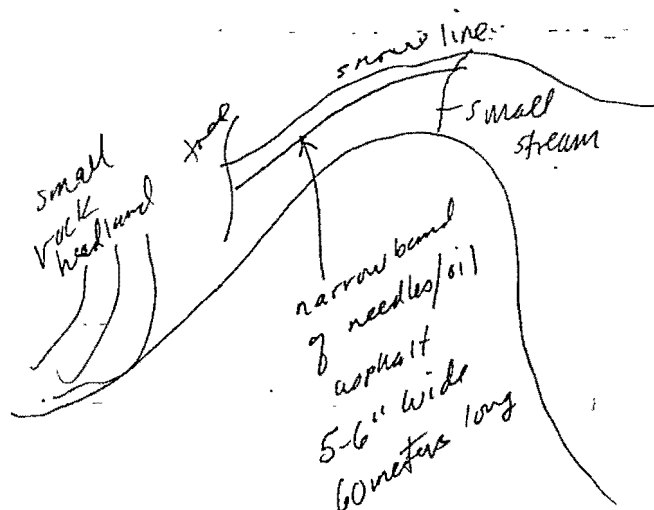
ACE 7236610 +HS/AS

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

4/11/90



looking forward
ICY BAT
NASSAU Fjord

Ch900

Sample taken
Photo frame # and
shot direction.

ACE 7236611-15

ASC NUMBER:
LOCATION:
STREAM NAME:
KODIAK K-UNIT:
USGS QUADRANGLE:
SHORELINE TYPE:

SEGMENT NUMBER: CH900

YR CATALOGED: 1980

LOCAL STREAM #: 16200

LATITUDE:
LONGITUDE:
LEGAL: S

ALL SEGMENTS:

ASC NUMBER: None
SURVEY TYPE:
METHOD:
DATE: 4/11/90
START TIME:
STOP TIME:

TEAM RECORDER:
OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

WAVE EXPOS:

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	60	.13				03	AP, MS
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: 226NOLOC03

STREAM NAME:

LOCATION: CHENEGA ISLAND, ~~EAST~~ ^{west} SIDE, SMALL COVESEGMENT NUMBER: CH900 (? ^{ASC 16200})

SHORELINE TYPE:

DATE: 04/11/90 TIME: -1147

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	13 2	60				3	SURFACE	AP MS	narrow band of needles/oil/AP on south side of stream.

COMMENTS:

SMALL COVE NEAR SOUTH END OF DANGEROUS PASSAGE. NARROW BAND OF MOUSSE & ASPHALT APPROX 60 METERS LONG, PENETRATIONS APPROX 1-2" LOCATED UPPER INTERTIDAL 2 METERS DOWN FROM SNOW LINE. RECOMMEND FOR ANADSCAT.

BANKS: YES

STREAM: YES

OIL ON STREAM
OIL WITHIN 1 MILE OF

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: CH900A
LOCATION: SW CHENEGA ISLAND

DATE: 10/11/89
TIME: 16:49

Survey Type: Boat, Ground
Team: M. Ebel, B. Fitzsimons

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Moderate

Wind Direction: N
Knots: 0-15

Low Tide: 5:18	Feet: 1.32	High Tide: 11:41	Feet: 11.1
Low Tide: 17:41	Feet: 2.77	High Tide: 23:42	Feet: 11.7

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

OIL CHARACTERISTICS

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

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

Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / 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: None
Bags Collected: 0

Draft

Printed: 12/12/89 11:03

Walk-a-thon

ACE 7236609

CANNOT ID LOCATION
(Ks 10/8/91)

ASW
Pre-ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gusten

4 START TIME: 1205

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1215

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB.

6 SEGMENT #: CH 900

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 2 Loran

Oil

13 LOCATION: East side Cheney Is.

Sediment

14 DESCRIPTION: small packet core with salmon stream

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 #: NONE 16200

38 STREAM NAME:

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 oil noted in or around
stream.

ACE 7236613

ANAD
Pre-survey

ADF&G MULTI-ASSESSMENT DATA FORM

CANNOT ID LOCATION

Pre-ANADSCAT-90

ATW

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gusten

4 START TIME: 1135

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1147

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB

6 SEGMENT #: CH 900

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: CHENEGA WEST EAST SIDE

14 DESCRIPTION: SMALL COVE

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%

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 SREAM? Y (N)

37 CATALOG #: NONE

38 STREAM NAME: _____

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

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

Where: upper intertidal

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: Small cove near south end of Dangerous passage.
narrow band of mousse + asphalt approx. 60 meters long.
penetration approx. 1-2" located upper intertidal 2 meters down
from snow line.

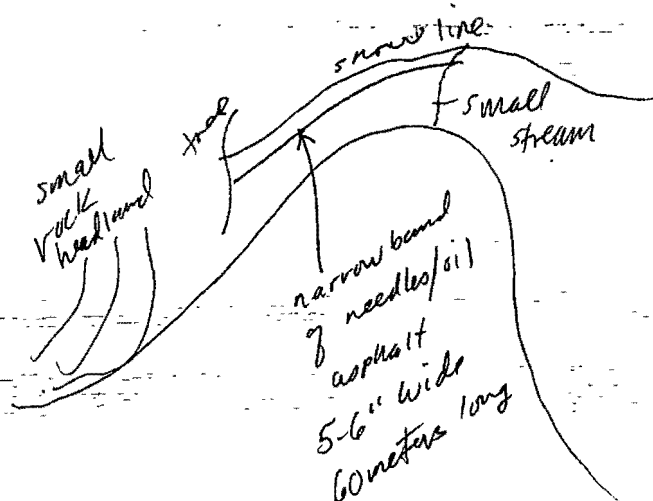
ACE 7236610 +15/AC

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

4/11/90



looking forward
ICY BAY
NASSAU Fjord

CH900

Sample taken
Photo frame # and
shot direction.

ACE 7236611-15

ADFG MULTI-ASSESSMENT DATA FORM

CANNOT ID LOCATION (Ks 10/8/91)

ATW Pre-ANADSCAT-90

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: R. Gustie

4 START TIME: 1150 16 HIGH TIDE HTS: 1 22 OBSERVERS: 1

5 STOP TIME: 1200 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG HAB.

6 SEGMENT #: CH 900 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 _____ Oil _____

13 LOCATION: CHEVEGA west EAST COAST. Sediment _____

14 DESCRIPTION: SOUTH WEST OF MASKED BAY Biological _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL L M H 36 CATALOGED ANAD. FISH SREAM? Y (N)

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain 37 CATALOG #: NONE

32 OILED DEBRIS? Y (N) 38 STREAM NAME: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove 39 OIL IN STREAM BED? Y (N)

Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low 40 OIL ON STREAM BANKS? Y (N)

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble _____

Gravel / Sand / Mud/silt _____

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: NO OIL FOUND

ACE 7236614-JL/AC/FF