

BA -002--A ASC 16451 site 1
BATH TUB COVE

ACE 1369512



- 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. sur. 1)
- ___ '90 ASAP Survey ___ ASAP Rec. ✓ ADEC Rec. (Fall)
- ___ '90 Other Documents _____

POST TREATMENT SURVEY REPORT

FINAL ANADROMOUS STREAM TREATMENT INFO

DEC BIOREMEDIATION DAILY REPORT

ANADROM. FISH STREAM OILING/CONDITION

ECOLOGICAL EVALUATION

CULTURAL RESOURCE EVAL

SITEMAPS

SITE SKETCHES

STREAM REPORT (Narrative)

WORK PLAN MODIFICATION RECOMMENDATION

FIELD SHORELINE COMMENT SHEET

PHOTOLOG

OPERATIONS FIELD NOTES

FIELD SHORELINE COMMENT SHEET

SSAT DATA ENTRY FORM

INTERTIDAL SPAWNING AREAS AFFECTED



ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BA-002 ASC# 226-40-16451 Location Bath tub cove-Bainbridge

Date 8/12/90 Recorder/Observer Aimee Weseman

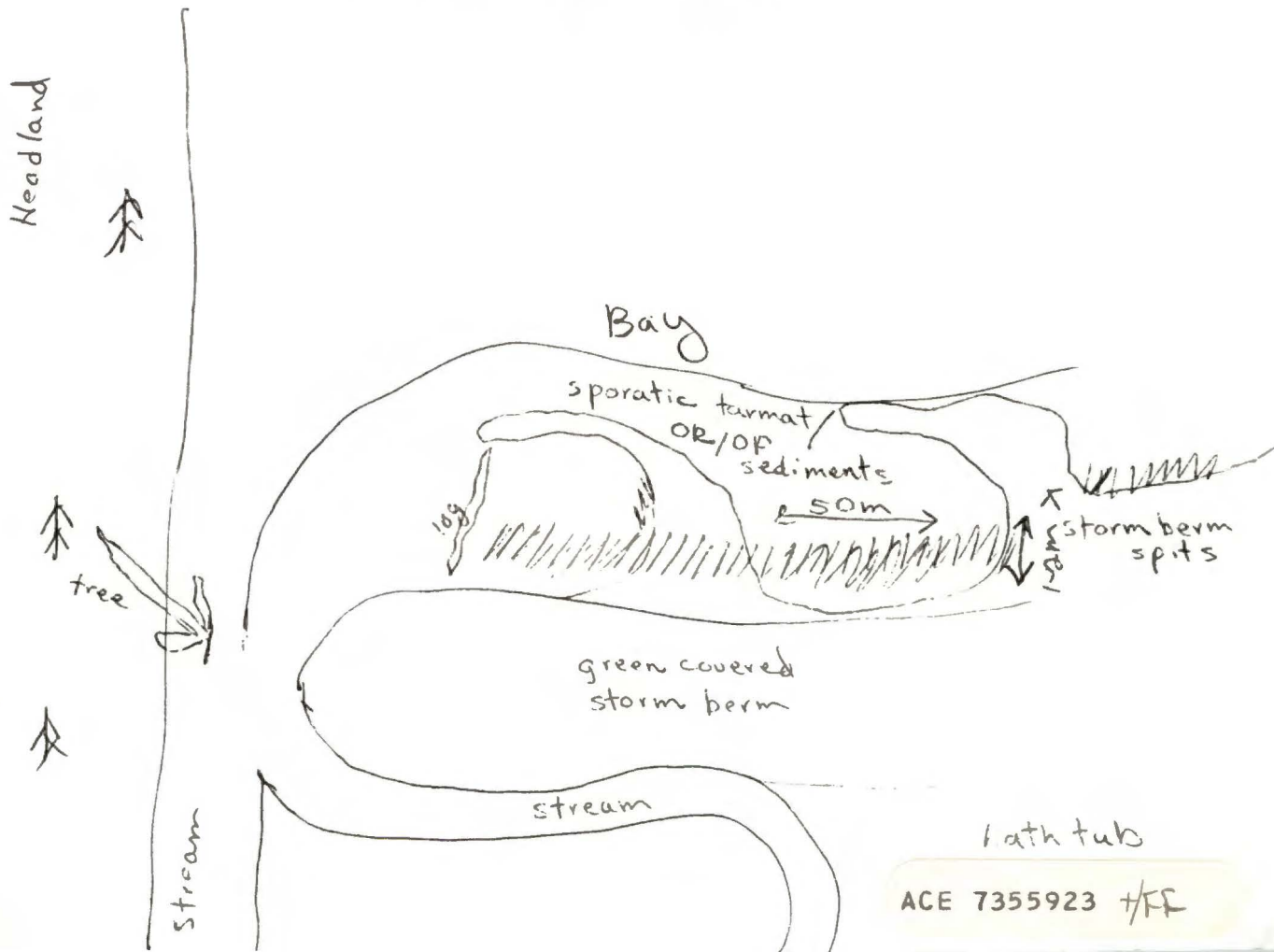
Oil in streambed none sighted Oil on streambanks none sighted

Oil within 50m of mouth yes Anadromous Fish present none in stream, jumpers off the mouth.

Description of oil and comments east side of stream - a 50m long x 1-2m wide band of broken tar mat / OP/OR sediments in the LUTZ

Rec- some manual removal of OP/heavy OR sediments and tar mat followed by tilling & custom tlen of remaining oiled sediments.

Oil Distribution Diagram



A. DW

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BA-002 ASC# 226-40-16451 Location Bathtub cove-Bainbridge

Date 8/12/90 Recorder/Observer Aimee Weseman

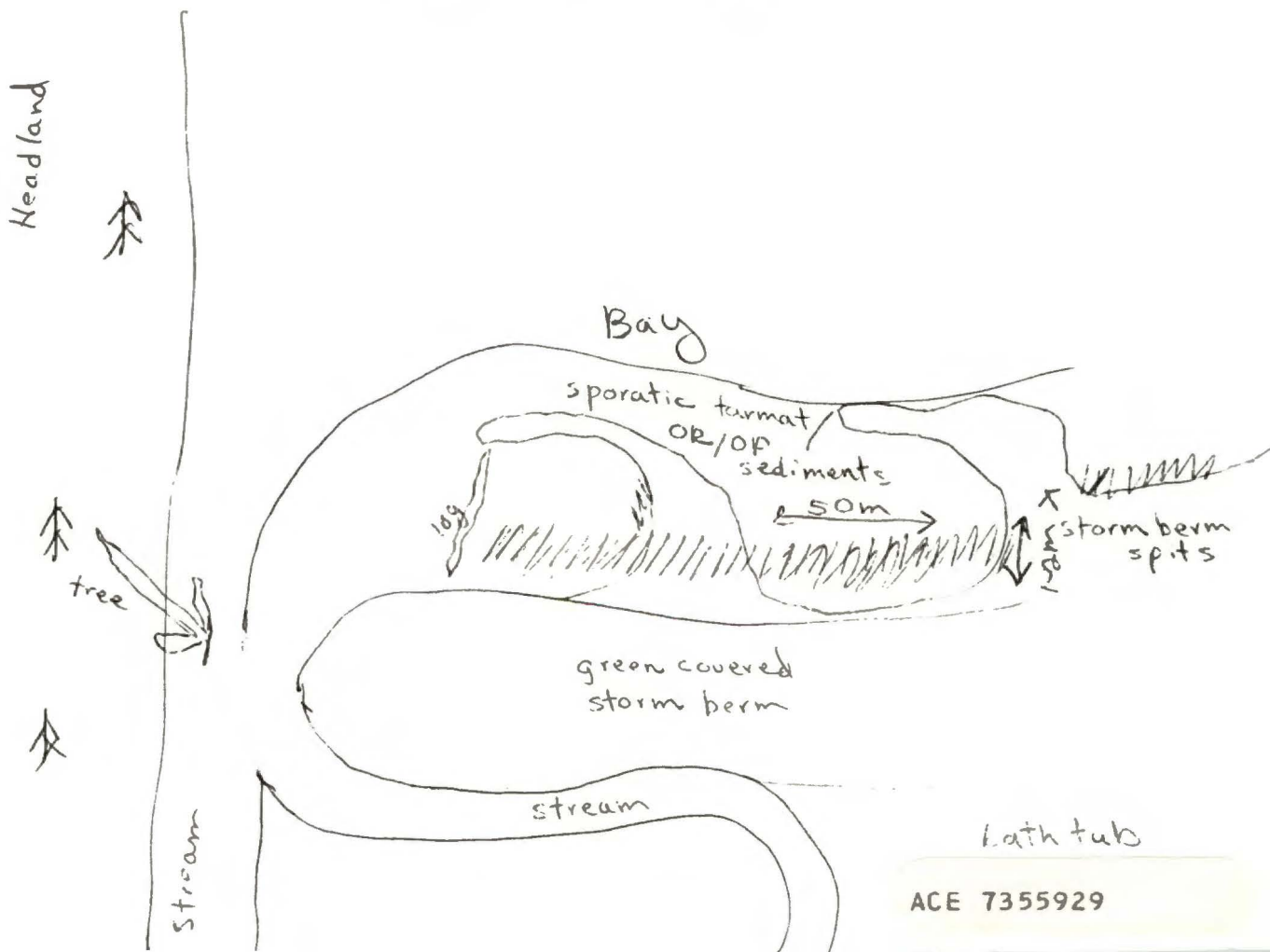
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Rec - some manual removal of OP/heavy OR sediments and tar mat followed by tilling & custom tlen of remaining oiled sediments.

Oil Distribution Diagram



ACE 7355929

2 Dup

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BA-002 ASC# 226-40-1645 Location Bathtub Cove-Bainbridge

Date 8/12/90 Recorder/Observer Aimee Wesean

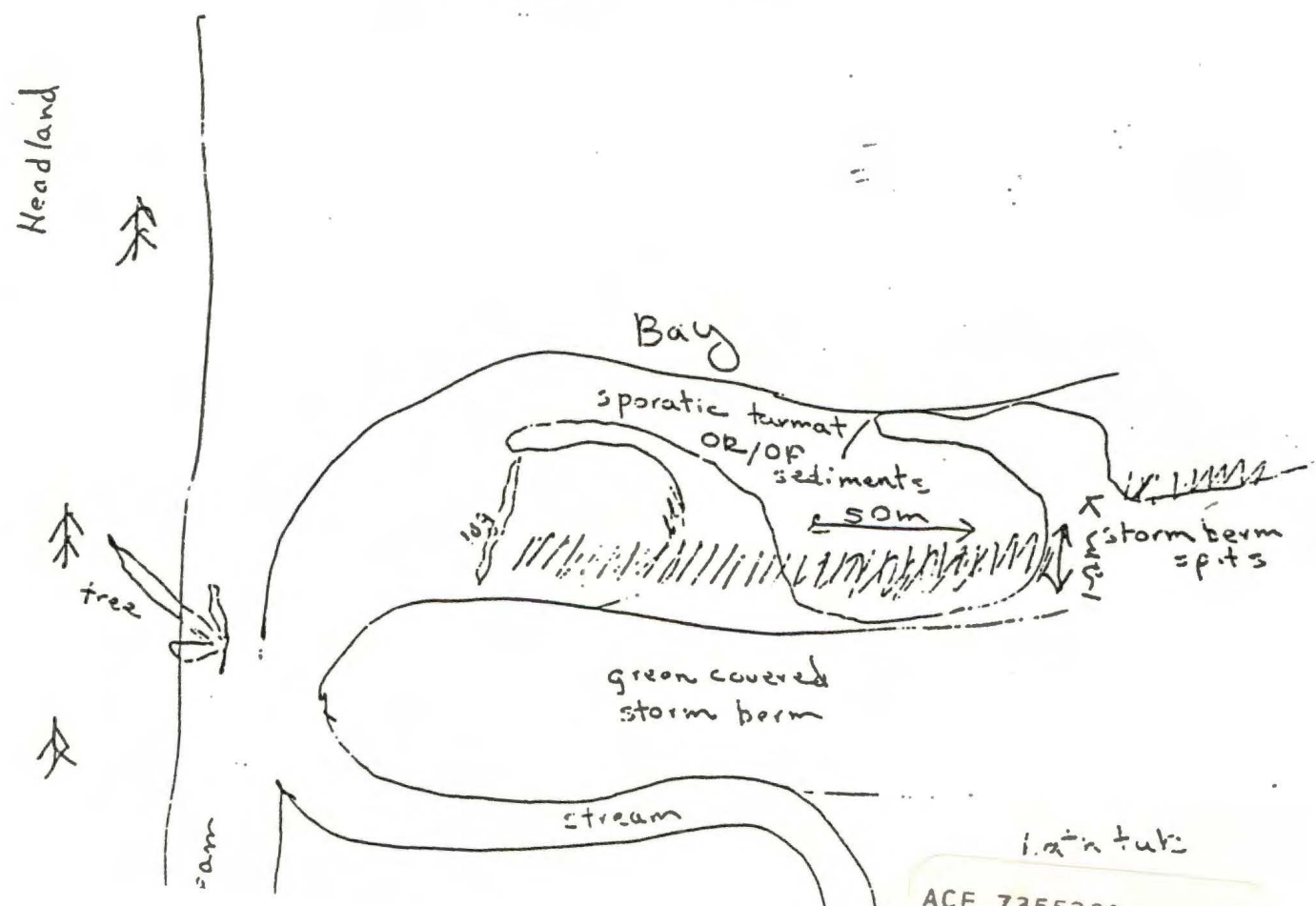
Oil in streambed none sighted Oil on streambanks none sighted

Oil within 50m of mouth yes Anadromous Fish present none in stream, jumpers off the mouth.

Description of oil and comments east side of stream - a 50m long x 1-2m wide band of broken tar mat / OP/OR sediments in the LUTZ

Rec- some manual removal of OP/heavy OR sediments and tar mat followed by tilling & custom blen of remaining oiled sediments.

Oil Distribution Diagram



ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BA-002 ASC# 226-40-1645 Location Bathtub Cove-Bainbridge

Date 8/12/90 Recorder/Observer Aimee Weseman

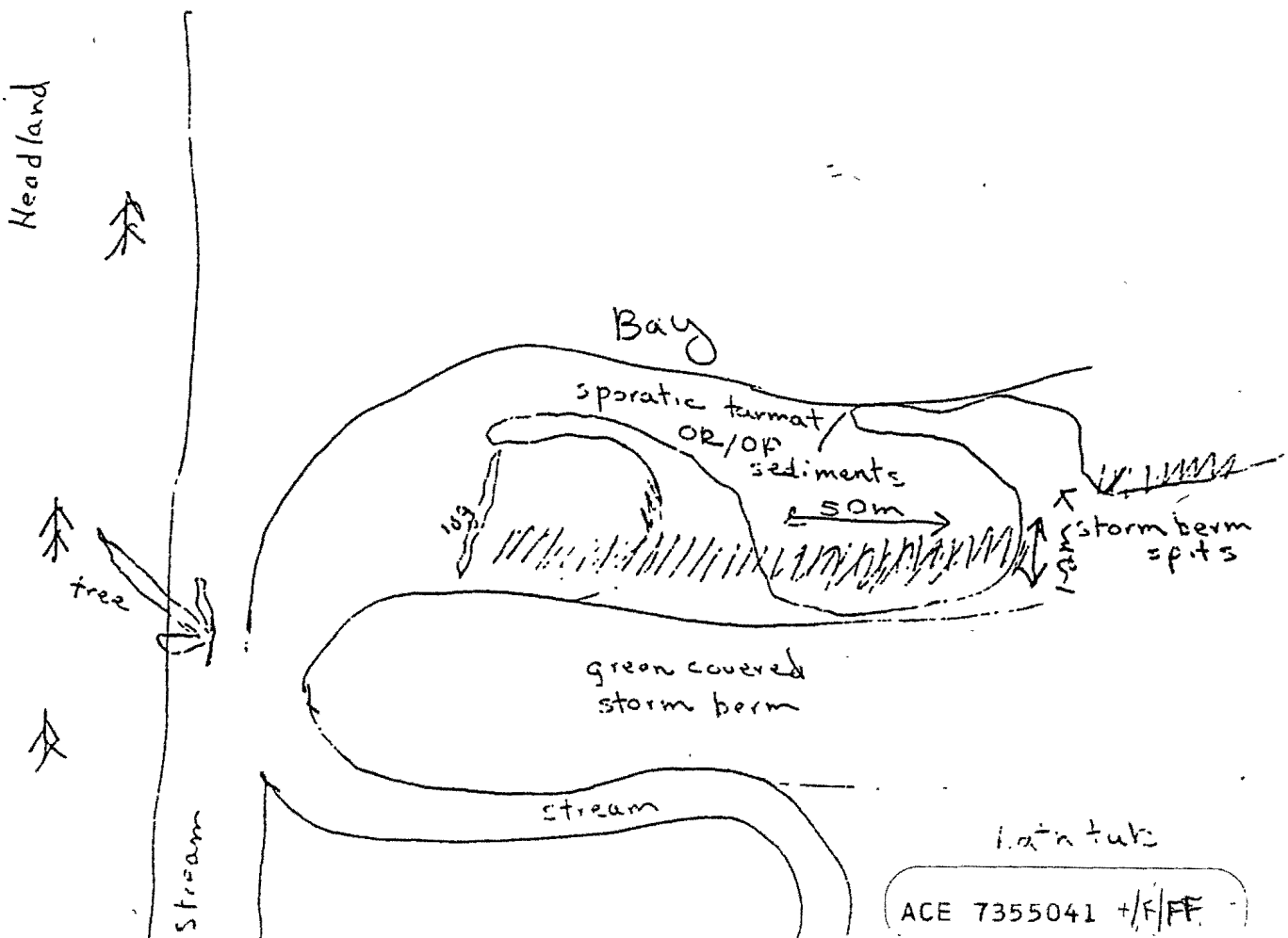
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Rec- some manual removal of OP/heavy OR sediments and tar mat followed by tilling & custom blend of remaining oiled sediments.

Oil Distribution Diagram



ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BA-002 ASC# 226-40-16451 Location Bathtub cove-Bainbridge

Date 8/12/90 Recorder/Observer Aimee Weseman

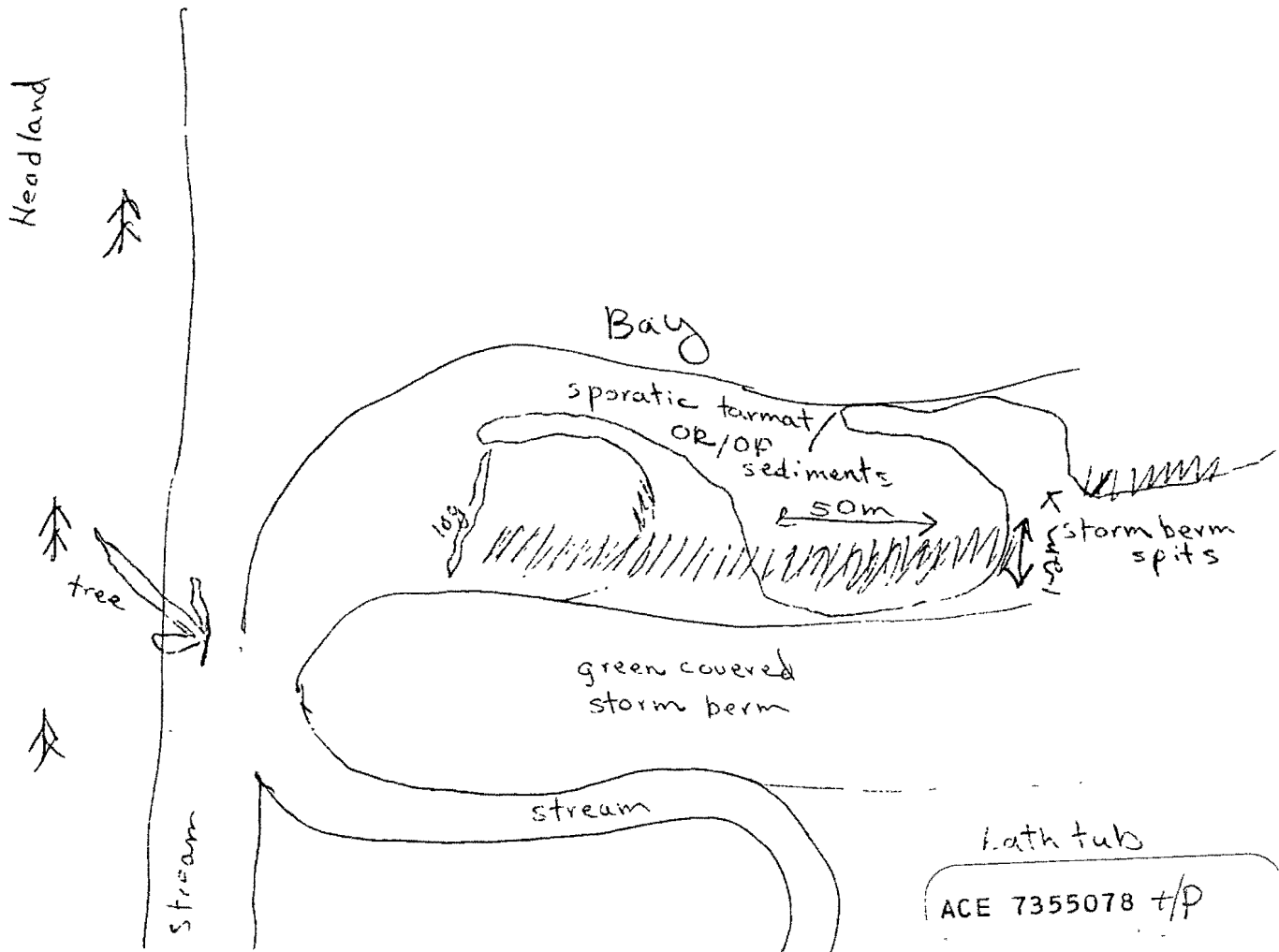
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Rec- some manual removal of OP/heavy OR sediments and tar mat followed by tilling & custom tlen of remaining oiled sediments.

Oil Distribution Diagram





ATW
Pre-ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

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. Wister

4 START TIME: 1035 16 HIGH TIDE HTS: 1 22 OBSERVERS: 1

5 STOP TIME: 1040 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG HAB

6 SEGMENT #: BA002 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 011 _____

13 LOCATION: Bainbridge Is. Sediment _____

14 DESCRIPTION: Barkley 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 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 V Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? (Y) N
826-40-16541 ATW

37 CATALOG #: 16541 16451

38 STREAM NAME: _____

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? (Y) N
Where: uply inter tidal
Barkley

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

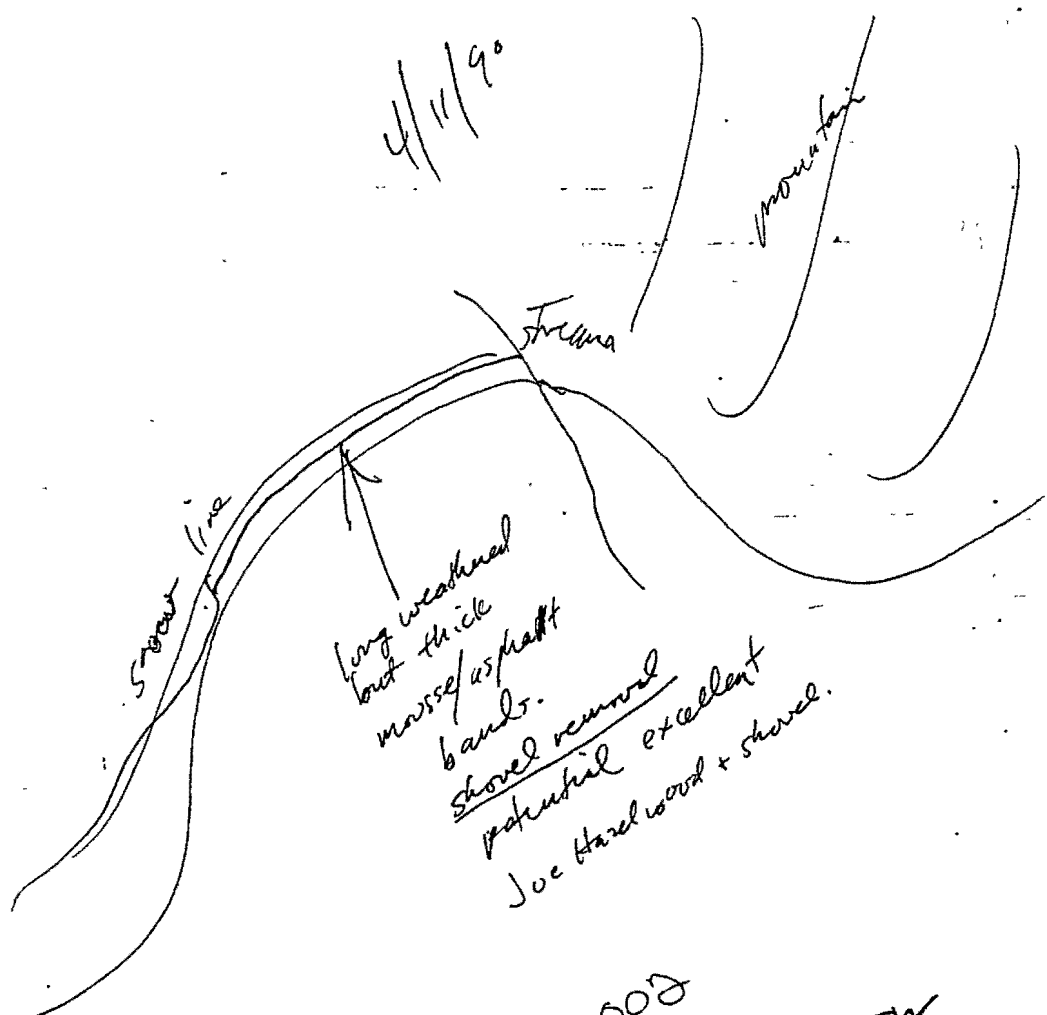
Species	Aerial	Ground

Recommend for anadrom

COMMENTS: bands of asphalt 3-4" thick some penetration 2-4" in gravel
bands are broken - 3-4 feet wide some still some covered
60-70 meters long near + crossing salmon stream
Most of the oil is located in upper intertidal zone

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



BA-002
 226-40-1645/ ATW

Sample taken
 Photo frame # and
 shot direction.

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

ASC NUMBER: *226-40-16451*
 SURVEY TYPE: *SS*
 METHOD: *6*
 DATE: *4/11/96*
 START TIME: *10:35*
 STOP TIME: *10:40*

TEAM RECORDER: *R. Gustin*
 OBSERVERS:
 AGENCY(IES): *ADP&G*
 PHOTOS TAKEN? *N*
 Roll #: Frames:
 VIDEO TAKEN? *N* Tape Number:
 Counter Start:

SAMPLES TAKEN? *N*

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

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	<i>60-70</i>	<i>1</i>			<i>70</i>	<i>70</i>	<i>AP</i>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *HIGH*

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? *YES*

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble <i>X</i>	Silt
Pebble <i>X</i>	Veget.

SPECIES	<i>ASA</i>			
COUNT	<i>0</i>			

COMMENTS: *Bands of asphalt 3-4" thick, some penetration 2-4" in gravel bands are broken - 3-4 feet wide, some still snow covered. 60-70 meters long near and crossing salmon stream. Most of oil is located in upper intertidal zone. Long weathered but thick mousee/asphalt bands.*



BA002A

ANASCAT Spring 90

no entry needed

entry run 1

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCWA MMHS PTA 2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90 15 HIGH TIDE TIMES: 0021 11257 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1545 16 HIGH TIDE HTS: 11.5' 10.5' 22 OBSERVERS: CROWE

5 STOP TIME: 1610 17 LOW TIDE TIMES: 0648 11855 23 AGENCY: ADF&G

6 SECTENT #: BA-002 18 LOW TIDE HTS: -0.8' 10.5' 24 PHOTOS TAKEN: Y N

7 STATION #: 226-40-16451 19 TIDE HT AT SURVEY: 5.35' 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, BAINBRIDGE I. Sediment _____

14 DESCRIPTION: BAINBRIDGE COVE Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	200		2	200	3		<1
28 SURFACE THICKNESS	5cm	5cm	3cm					
29 PENETRATION	10cm	10cm	5cm					

30 OVERALL OIL IMPACT: N VL L H 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 50
Gravel 50 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SKEAN? Y N

37 CATALOG #: 226-40-16451

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
FRT PRESUMED

44 ANADROMOUS FISH OBSERVATION C
Species Aerial Ground

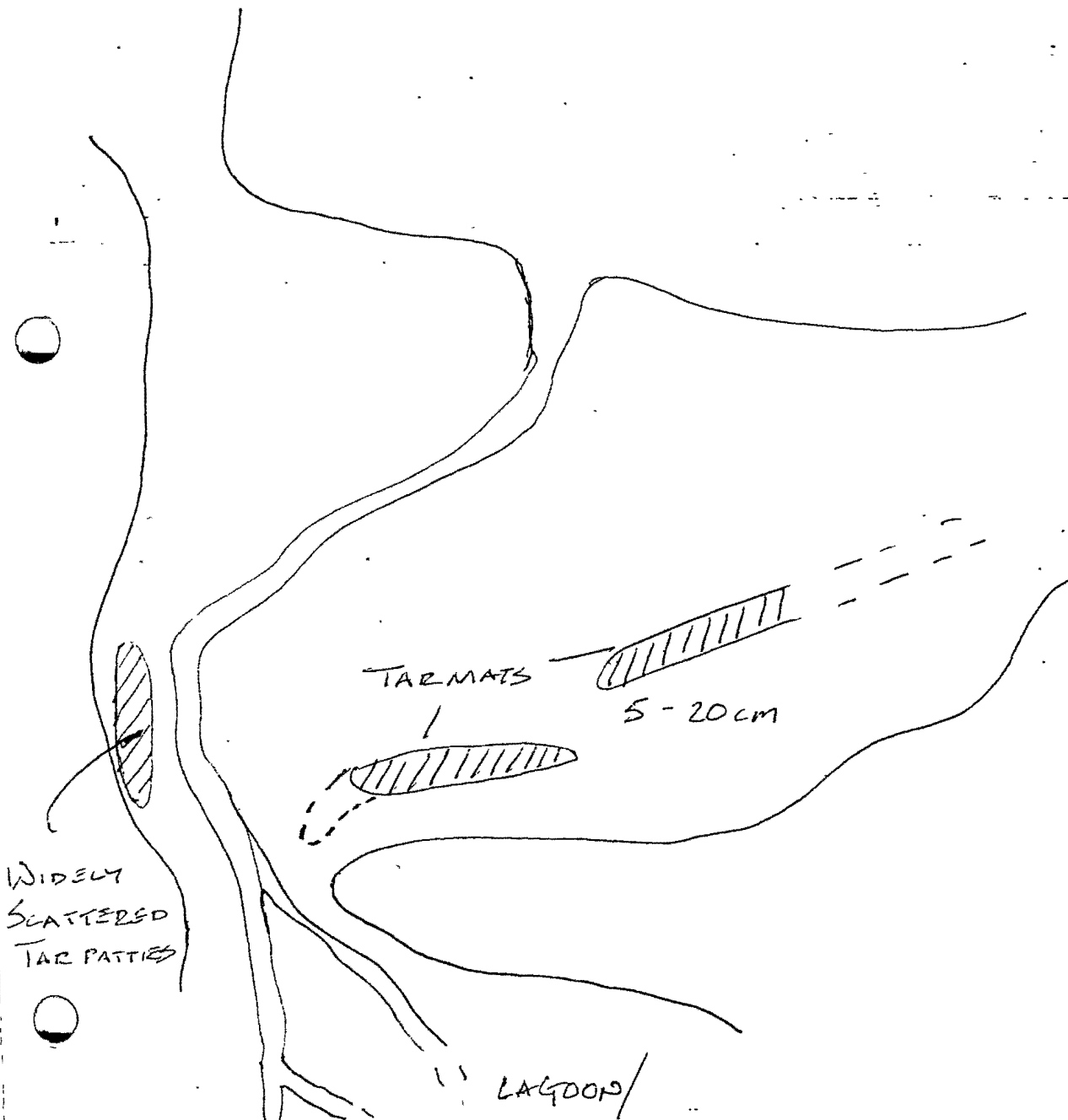
COMMENTS: SHALEY GRAVEL & COBBLE INTERTIDAL ZONE
SUBTLE BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE
EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL.
VERY SCATTERED PATCHES IN LAGOON/MARSH ARE UPSTREAM OF
STORM BERM.

FF (S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF
TAR MATS

48 OIL DISTRIBUTION DIAGRAM



Sample taken
photo frame # and
shot direction.

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

ASC NUMBER: 226-40-16451
 SURVEY TYPE: 55
 METHOD: G
 DATE: 4/23/98
 START TIME: 1545
 STOP TIME: 1610

TEAM RECORDER: M. Widmer
 OBSERVERS: Crowe
 AGENCY(IES): ADFAC
 PHOTOS TAKEN? N
 Roll #: Frames:
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN? N

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

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1					5	10	AP
SITE 2					5	10	AP
SITE 3					3	5	PT
SITE 4							PT
SITE 5							

OVERALL OIL IMPACT: H

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 50	Silt
Pebble 50	Veget.

SPECIES					
	PISA				
COUNT					

COMMENTS: Shaley gravel + cobble intertidal zone. Surface band of asphalt/tar along upper intertidal zone east of channel. No obvious subsurface oil. Very scattered patches in lagoon/marsh upstream of storm berm. (site 4)

Fry presumed.

100 x 200 m area of shoreline was surveyed w/ 29% coverage
 200 x 30 m wide section of stream was surveyed w/ <1% coverage



ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 4/29/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: Aimee Weseman
- 5) START TIME: 0855 17) HIGH TIDE HTS: _____ 23) OBSERVERS: Tom Crow
- 6) STOP TIME: 1015 18) LOW TIDE TIMES: 09:36 24) AGENCY: ADF&G
- 7) SEGMENT #: BA002A 19) LOW TIDE HTS: -1.8 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: -1.5 to +.2 ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
- 11) ASC #: 226-40-16451 START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y N
- 13) LOCATION: North east Bainbridge I SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach _____
- Cove Lagoon Marsh _____

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	25m	2m			3-7		AP
SITE 2	15m	2m			3-5		AP
SITE 3	1	1m		50%	5		MSOR
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y N
- H = >6m band with ≥50% oil coverage
- M = >6m band with ≤ 50% oil coverage or ≥3m to ≤6m with ≥10% oil coverage
- L = <3m band with >10% oil coverage
- VL = ≤10% oil coverage regardless of band width
- N = No oil observed
- 34) WILDLIFE OBSERVATION
- | Species | Number |
|------------------|--------|
| eagle | 1 |
| gulls/kitt.wakes | 37 |
- 30) OIL IN STREAMBED: Y N
- 31) OIL ON BEACH ADJACENT TO MOUTH: 8 N within 50m
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock 5 Boulder _____ Gravel 60 Sand 5 Cobble 30 Mud/Silt _____

35) COMMENTS: Commercial Fishing & Recreation Designation.
The beach, east of the stream looks significantly better than
2 year ago. A new stream channel has broken through
the storm berm & flows adjacent to what is now a patch
of MOR-site 1. When agitated this site emitted a brown oil scum
on the surface waters. It deserves a quick tilling at least.
There are also AP+HOR sediments on the shale outcrop - see site 2.
These were only 50% removed. 15 hand-carriable bags of oily sed. removed.

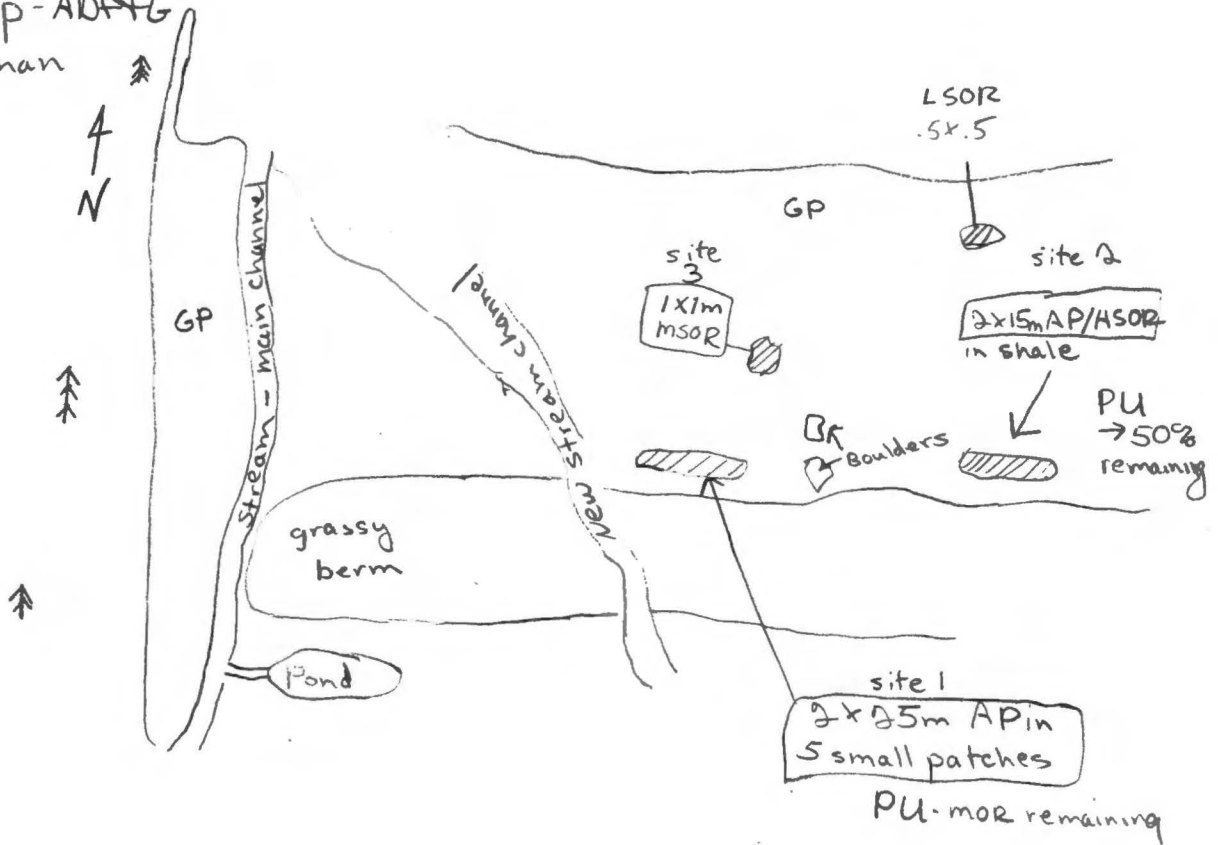
BA002-A

Bainbridge Island

ASC# 226-40-16451

May sap-ADPTG
Weseman

4/29/91



Treatment Recommendation

To complete treatment, a crew of 2 workers should return midsummer & manually till the remaining MOR sediments in sites 1 & 3. The AP sediments in site 2 could be removed at the same time

ADF&G MAD OILING EXTENTS
(INCLUDES OG DATA)

PRINTED: 10/29/91 17:58:42

NON-DUCK STREAMS

PAGE 1

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB 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-ANADS CAT	1	1 x 60-70 BOTH		10	AP	UITZ - BROKEN BAND OF AP/MOUSSE CROSSES STREAM. MOSTLY SURFACE WITH SOME PENETRATION 5-10CM. SOME SNOW COVERAGE OF BAND.
<p>MAD vs. OG: COMMENTS: RECOMMEND FOR ANADSAT.</p>							

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/23/90	ANADSCAT	1	 SURFACE		5	AP	EAST SIDE: TARMAT BAND IN UITZ.
04/23/90	ANADSCAT	2	 SURFACE		5-20	AP	EAST SIDE: CONTINUATION OF TARMAT IN MITZ.
04/23/90	ANADSCAT	3	 SURFACE		3	PT	WEST SIDE ALONG STREAM BANK: WIDELY SCATTERED TAR PATTIES.
04/23/90	ANADSCAT	4	 SURFACE			PT	UPSTREAM IN LAGOON AND MARSH AREA: VERY SCATTERED TAR PATTIES.

MAD vs. OG:
COMMENTS:
SHALEY GRAVEL AND COBBLE INTERTIDAL ZONE. SURFACE BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL. VERY SCATTERED PATTIES IN LAGOON/MARSH UPSTREAM OF STORM BERM. OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF TARMATS. 100 X 200 AREA OF SHORELINE WAS SURVEYED WITH 2% COVERAGE. 200 X 3M WIDE SECTION OF STREAM WAS SURVEYED WITH < 1% COVERAGE.

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/23/90	OG'S ANADSCAT	1	6 x 30 SURFACE	51-90	5	AP	BROKEN AP, TAR PATTIES - EAST SIDE UITZ OF STREAM. (DIMENSIONS FROM OFN).
04/23/90	OG'S ANADSCAT	2	2 x 25 SURFACE	91-100	5	AP	CONTINUOUS AP - FURTHER EAST FROM SITE 1 - UITZ. (DIMENSIONS FROM OFN).
04/23/90	OG'S ANADSCAT	3	SUBSURF			NONE	FIVE PITS DUG IN STREAM VICINITY - NO SUBSURFACE OIL DISCOVERED.

MAD vs. OG: MAD SHOWS SCATTERED TAR PATTIES ALONG WEST BANK. OG DOES NOT. MAD HAS PENET. TO 20CM INTO TARMAT.
COMMENTS:

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DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
08/12/90	PRE-ASAP	1	1-2 x 50 SURFACE	51-90		AP OP OR	EAST SIDE: BROKEN TARMAT/OP/OR IN LUITZ.

MAD vs. OG:
COMMENTS:
EAST SIDE OF STREAM REC - SOME MANUAL REMOVAL OF OP/HEAVY 'OR' SEDIMENTS AND TARMAT FOLLOWED BY TILLING AND CUSTOMBLN OF REMAINING OILED SEDIMENTS. NO OIL OBSERVED ON STREAM BANKS.

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/29/91	MAYSAP	1	2 x 25 SURFACE		3-7	AP/MSOR	EAST SIDE: UITZ - AP IN 5 SMALL PATCHES.

2 x 15

1 x 1

East

East

OIL

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB 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	1 x 60-70 SURFACE subsurf		10	AP	UITZ - Broken band of AP/mousse crosses stream. - Mostly surface with some penetration 5-10 cm. Some snow coverage of band

MAD vs. OG:

COMMENTS:

RECOMMEND FOR ANADSCAT. BANDS OF ASPHALT 3-4" THICK, SOME PENETRATION 2-4" IN GRAVEL BANDS ARE BROKEN, 3-4 FEET WIDE SOME STILL SNOW COVERED. 60-70 METERS LONG NEAR & CROSSING SALMON STREAM. MOST OF THE OIL IS LOCATED IN UPPER INTERTIDAL ZONE. LONG WEATHERED BUT THICK MOUSSE/ASPHALT BANDS. OIL ON STREAM BANKS.

Delete

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/23/90	ANADSCAT	1	SURFACE		5	AP	EAST SIDE: TARMAT BAND IN UITZ. <u>Band</u>
04/23/90	ANADSCAT	2	SURFACE		5-20	AP	EAST SIDE: CONTINUATION OF TARMAT IN MITZ.
04/23/90	ANADSCAT	3	SURFACE		3	PT	WEST SIDE ALONG STREAM BANK: WIDELY SCATTERED TAR PATTIES.
04/23/90	ANADSCAT	4	SURFACE			PT	UPSTREAM IN LAGOON AND MARSH AREA: VERY SCATTERED TAR PATTIES.

MAD vs. OG:

COMMENTS:

SHALEY GRAVEL AND COBBLE INTERTIDAL ZONE. SURFACE BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL. VERY SCATTERED PATTIES IN LAGOON/MARSH UPSTREAM OF STORM BERM. OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF TARMATS. 100 X 200 AREA OF SHORELINE WAS SURVEYED WITH 2% COVERAGE. 200 X 3M WIDE SECTION OF STREAM WAS SURVEYED WITH < 1% COVERAGE.

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
------	--------	------	------------------------	----------------	-----------------------------	----------------------------------	------------------------

04/23/90	OG'S ANADSCAT	1	6 x 30 SURFACE	51-90	5	AP	BROKEN AP, TAR PATTIES - EAST SIDE UITSZ OF STREAM. (DIMENSIONS FROM OFN).
04/23/90	OG'S ANADSCAT	2	2 x 25 SURFACE	91-100	5	AP	CONTINUOUS AP - FURTHER EAST FROM SITE 1 - UITSZ. (DIMENSIONS FROM OFN).
04/23/90	OG'S ANADSCAT	3	SUBSURF			NONE	FIVE PITS DUG IN STREAM VICINITY - NO SUBSURFACE OIL DISCOVERED.

MAD vs. OG: MAD SHOWS SCATTERED TAR PATTIES ~~IN~~ WEST BANK. OG DOES NOT. MAD HAS PENETRATION TO 20CM INTO TARMAT.
COMMENTS:

along

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
08/12/90	PRE-ASAP	1	1-2 x 50 SURFACE	51-90		AP OP OR	EAST SIDE: BROKEN TARMAT/OP/OR IN LUITZ.

MAD vs. OG:
COMMENTS:

EAST SIDE OF STREAM -- ~~A 50M LONG X 1-2M WIDE BAND OF BROKEN TARMAT/OP/OR SEDIMENTS IN THE LUITZ.~~ REC - SOME MANUAL REMOVAL OF OP/HEAVY 'OR' SEDIMENTS AND TARMAT FOLLOWED BY TILLING AND CUSTOMBLEN OF REMAINING OILED SEDIMENTS. NO OIL OBSERVED ON STREAM BANKS.

CATALOG NUMBER: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
04/29/91	MAYSAP	1	2 x 25 SURFACE		3-7	AP/MSOR	East of stream UITSZ - AP in 5 small patches side:
04/29/91	MAYSAP	2	2 x 15 SURFACE		3-5	AP/HSOR	East of stream - continuation of site 1 - ut MITZ
04/29/91	MAYSAP	3	1 x 1 SURFACE	50	5	MS-OR MSOR	East side - MITZ

MAD vs. OG:

COMMENTS:

COMMERCIAL FISHING AND RECREATION DESIGNATION. THE BEACH, EAST OF THE STREAM, LOOKS SIGNIFICANTLY BETTER THAN A YEAR AGO. A NEW STREAM CHANNEL HAS BROKEN THROUGH THE STORM BERM AND FLOWS ADJACENT TO WHAT IS NOW A PATCH OF ~~MOR~~ ^{MSOR} SITE 1. WHEN AGITATED THIS SITE EMITTED A BROWN OIL SCUM ON THE SURFACE WATER. IT DESERVES A QUICK TILLING AT LEAST. THERE ARE ALSO 'AP' AND 'MOR' SEDIMENTS ON THE SHALE OUTCROP - SEE SITE 2. THESE WERE ONLY 50% REMOVED. 15 HAND CARRIABLE BAGS OF OILY SEDIMENT REMOVED.

RECOMMENDATION: TO COMPLETE TREATMENT, A CREW OF 2 WORKERS SHOULD RETURN MID SUMMER & MANUALLY TILL THE REMAINING 'MOR' SEDIMENTS IN SITS 1 & 3. THE 'AP' SEDIMENTS IN SITE 2 COULD BE REMOVED AT THE SAME TIME.

MSOR

9 pits - no subsurface found

MSORsites

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: BA002
 LOCATION: E BAINBRIDGE ISLAND

DATE: 10/13/89
 TIME: 9:05

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

WEATHER AND SEA CONDITIONS

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

Low Tide: 6:42 Feet: 0.22 High Tide: 12:53 Feet: 13.4
 Low Tide: 19:10 Feet: -0.9 High Tide: 0:34 Feet: 12.4

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

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

Max. Oil Thickness: 25 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: BA002-1 / BA002-2 / BA002-3 / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

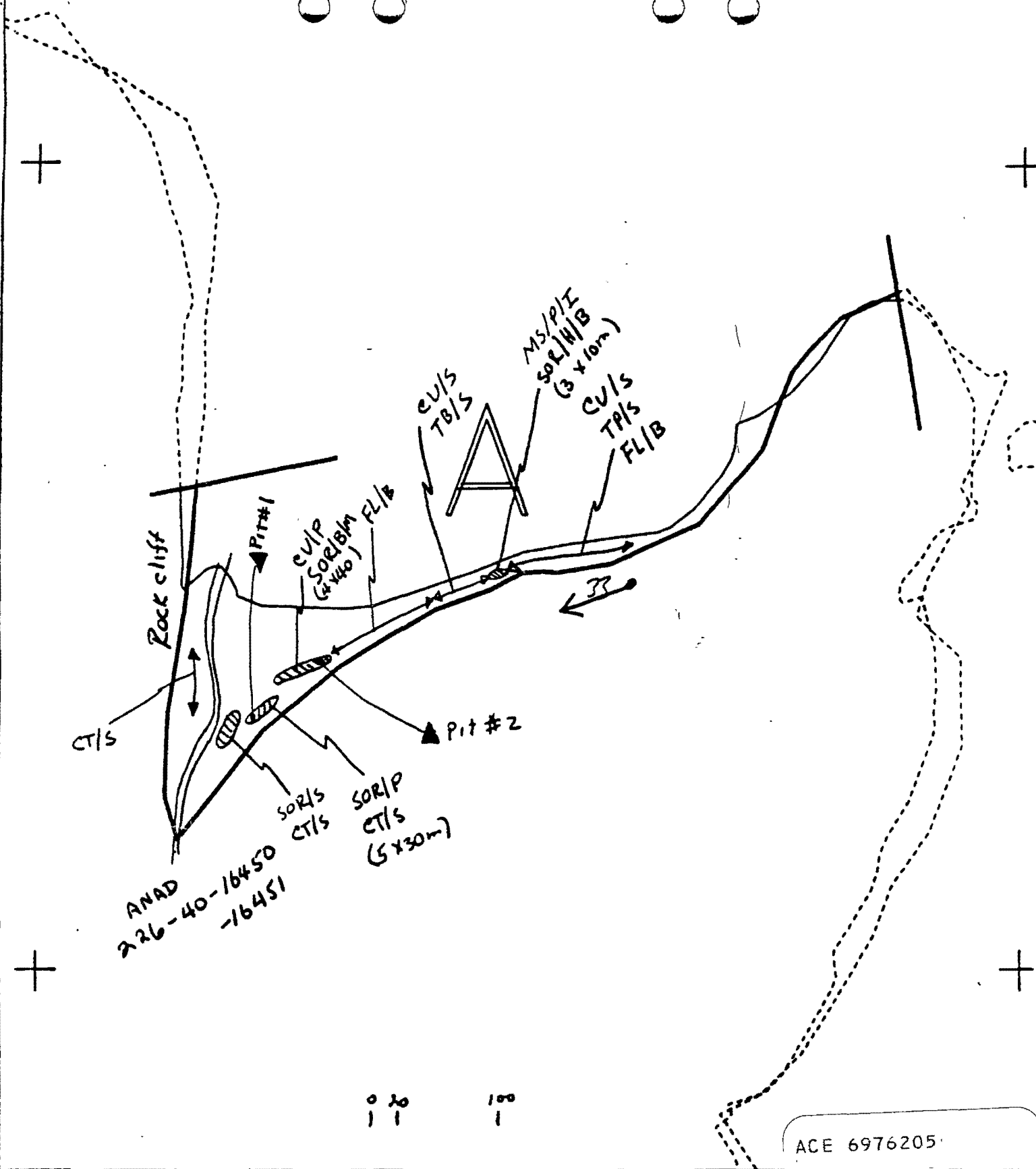
Type: Few localities
 Bags Collected: 0

Draft

Printed: 12/12/89 10:59

Walk-A-Thon

ACE 6976200 +/AC



ACE 6976205

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

BA-2 A
 ADEC Subsegment Length: 1095m
 METERS
 0 112 228
 AK State Plane Zone 4 1:4420
 98a-2c



Subdivision Field Map
 Map Key: PWSBA-2A
 Name: Reimer
 Date: 8/2/90
 Date Entered:



ASAP TAG Evaluations/Recommendations

TAG RECOMMENDATIONS

BA-02	A	Bioremediation and Reassessment 91
BA-06	C	*Reapplication Bioremediation
BA-07	A	NTR
CH-10	C	NTR - Reassessment 91
CH-13	A	Bioremediate - Inipol 90
EB-11	A	*Bioremediation and Reassessment 91
EL-55	B	*Reapplication Bioremediation
EL-55	C	*Reapplication Bioremediation
EL-56	A	*Reapplication Bioremediation
EL-58	B	*Reapplication Bioremediation
ER-08	A	Manual pickup of tarmats site 1-low priority
ER-09	A	Bioremediate reapply - middle of site 1
ER-11	A	*Manual rake and Bioremediation
EV-03	A	*Reapplication Bioremediation
EV-54	A	*Reapplication Bioremediation
FL-01	A	NTR - Completed by field crew
FL-04	A	*Manual rake and Bioremediation
FL-04	B	*Manual rake and Bioremediation
GR-01	A 1	*Reapplication Bioremediation
GR-01	A 2	*NTR - Reassessment 91
GR-01	A 3	*Reapplication Bioremediation
GR-01	B	*Reapplication Bioremediation
GR-02	A 1-3	*NTR
GR-07	A 1-2	NTR
KN-19	A 1	*Reapplication Bioremediation
KN-400	A	*Bioremediation reapply and assessment 91
KN-401	A 1	Pickup asphalt and mousse-moderate priority
KN-401	A 2	NTR set aside
LA-39	A 1	Manual remove asphalt - low priority

TAG

Andy Tom Deal

DATED:

08/09/90

EXXON

Ray Morris

ADEC

USCG

D. D. Rome

FOSC:

[Signature]

NOAA

Burl Wescott

DATED:

8/9/90

NOTE: * - ALREADY SCHEDULED FOR REAPPLICATION

BA002A 226-406450 Kathrin -museorg

CATALOG NUMBER: 2264016451					SEGMENT NUMBER: BA002 A				
STREAM NAME:					SHORELINE TYPE:				
LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE					DATE: 04/11/90 TIME: COVE -1040				

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	1	60-70			10	10	SURFACE	AP	

COMMENTS: RECOMMEND FOR ANADSAT
 SOME PENETRATION 2-4" IN GRAVEL BANDS ARE BROKEN, 3-4 FEET WIDE SOME STILL SNOW COVERED. 60-70 METERS LONG NEAR & CROSSING SALMON STREAM. MOST OF THE OIL IS LOCATED IN UPPER INTERTIDAL ZONE. LONG WEATHERED BUT THICK MOUSSE/ASPHALT BANDS. OF STREAM AND ON STREAMBANKS.

BANDS OF ASPHALT 3-4" THICK OIL WITHIN 1 MILE

CATALOG NUMBER: 2264016451					SEGMENT NUMBER: BA002 A				
STREAM NAME:					SHORELINE TYPE: Cove				
LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE					DATE: 04/23/90 TIME: COVE -1610				

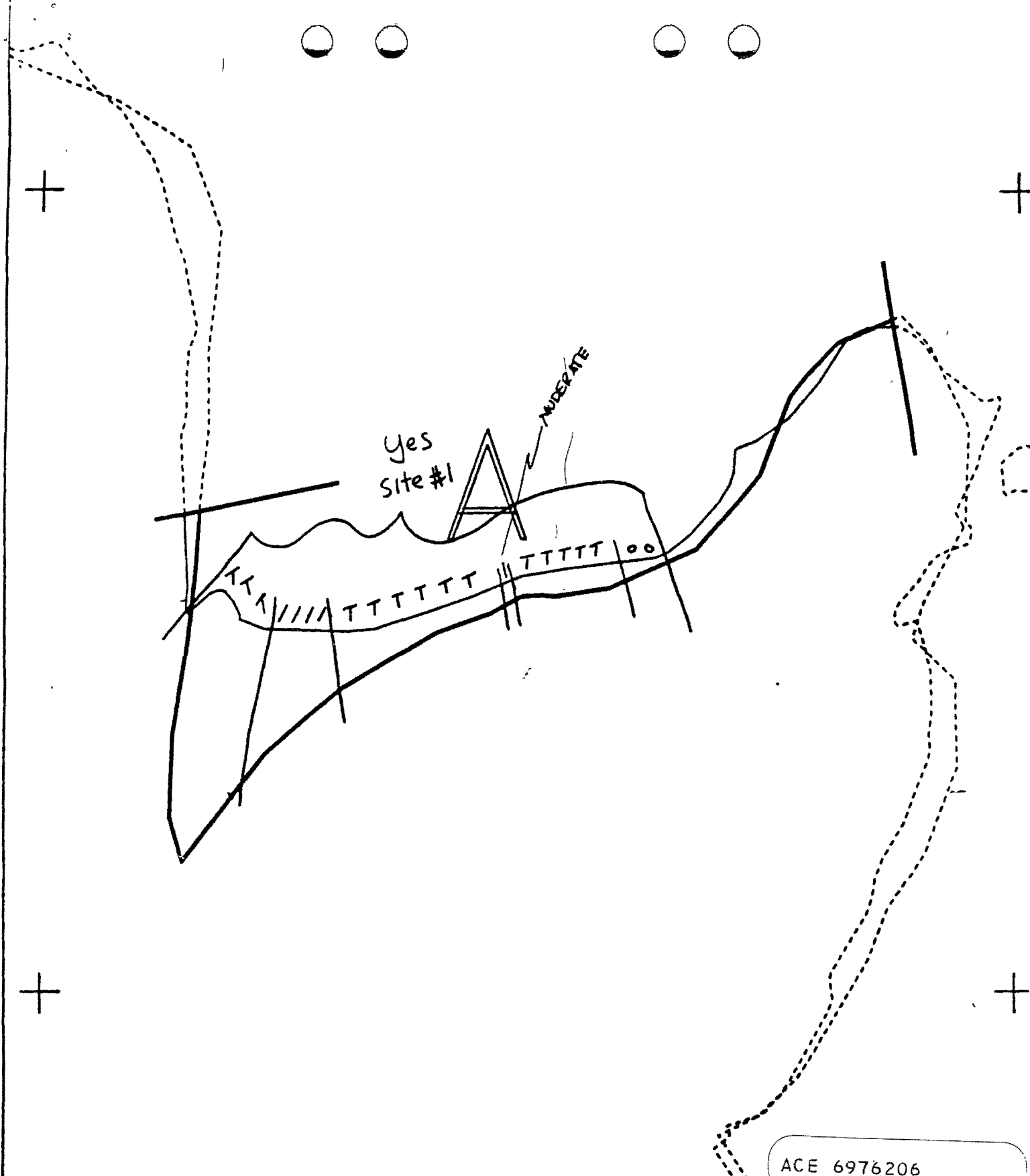
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1					5	10	SURFACE	AP	east side of stream - tarmat band in MIZ east side of stream - continuation of tarmat in MIZ west side of stream along bank - widely scattered tar patties upstream in lagoon, marsh area - very scattered tar patties.
2					5-20cm	10	SURFACE	AP	
3					3	5	SURFACE	PT	
4							SURFACE	PT	

COMMENTS: SHALEY GRAVEL & COBBLE INTERTIDAL ZONE. SURFACE BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL. VERY SCATTERED PATTIES IN LAGOON/MARSH UPSTREAM OF STORM BERM. ANADROMOUS FISH PRESENT: FRY PRESUMED.
 RECOMMENDATIONS: MANUAL REMOVAL OF TARMATS. 100 X 200 AREA OF SHORELINE
 WAS SURVEYED WITH 2% COVERAGE. 200 X 3M WIDE SECTION OF STREAM WAS SURVEYED WITH < 1% COVERAGE.
 OIL WITHIN 1 MILE OF STREAM AND ON BANKS.

CATALOG NUMBER: 2264016451					SEGMENT NUMBER: BA002 A				
STREAM NAME:					SHORELINE TYPE:				
LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE					DATE: 04/29/91 TIME: COVE -1015				

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	2	25			3-7		SURFACE	AP	
2	2	15			3-5		SURFACE	AP	
3	1	1		50	5		SURFACE	MS OR	

COMMENTS:
COMMERCIAL FISHING & RECREATION DESIGNATION. THE BEACH, EAST OF THE STREAM, LOOKS SIGNIFICANTLY BETTER THAN A YEAR AGO. A NEW STREAM CHANNEL HAS BROKEN THROUGH THE STORM BERM & FLOWS ADJACENT TO WHAT IS NOW A PATCH OF 'MOR' - SITE 1. WHEN AGITATED THIS SITE EMITTED A BROWN OIL SCUM ON THE SURFACE WATER. IT DESERVES A QUICK TILLING AT LEAST. THERE ARE ALSO 'AP' & 'HOR' SEDIMENTS ON THE SHALE OUTCROP - SEE SITE 2. THESE WERE ONLY 50% REMOVED. 15 HAND CARRIABLE BAGS OF OILY SEDIMENT REMOVED.
TREATMENT RECOMMENDATION: TO COMPLETE TREATMENT, A CREW OF 2 WORKERS SHOULD RETURN MID SUMMER & MANUALLY TILL THE REMAINING 'MOR' SEDIMENTS IN SITS 1 & 3. THE 'AP' SEDIMENTS IN SITE 2 COULD BE REMOVED AT THE SAME TIME.



ACE 6976206

XXXX	Wide	BA-2 A	Subdivision Field Map
////	Medium	ADEC Subsegment Length: 1095m	Map Key: PWSBA-2A
---	Narrow	METERS	Name: <u>Reimer</u>
TTTT	Very Light	0 112 225	Date: <u>8/2/90</u>
0000	No Oil	AK State Plane Zone 6 1:4420	Date Entered:



pbe-2a

BA002A AOC 22-40-16450

ASAP
22640
16450

WORK PLAN MODIFICATION RECOMMENDATION

SEGMENT BA-2 SUBDIVISION A DATED 8/2/90

MODIFICATION CLASS I _____ CLASS II CLASS III _____

1. REASON FOR MODIFICATION

SOR and OR/H* Subsurface oiling to 10cm. UITZ
See sketch map for location.

2. SUGGESTED ADJUSTMENT TO WORK PLAN

Reapplication of Bib. custombler

3. TIMING ISSUES

NOTE: ARCHAEOLOGICAL CONSTRAINTS

ADEC [Signature]

EXXON _____

USCG _____

LAND MANAGER Douglas Gibson (If field rep is on scene)

TAG: Bioremediate

SEGMENT AS/ BA 2 SUBDIVISION: A SITE: 1 DATE 8/2/90

USCG

NAME MSE Michael D. Brown SIGNATURE Michael D. Brown

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

ADEC

NAME John Hayer SIGNATURE John Hayer

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

North east end of segment has SOR/m with subsurface OR/m 5-10cm. Recommend reapplications of curbs to areas identified on sketch map in 1990. OR SS drilling on this segment did not show signs of appreciable degradation.

LAND MANAGER

NAME DOUGLAS GIBSON SIGNATURE Douglas Gibson

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

NOTE: ARCHAEOLOGICAL CONSTRAINTS FOR BA 2

EXXON

NAME Martinez N.J. SIGNATURE Nicholas J. Martinez

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

TAG: Bio remediate

ACE 6976202

TEAM NO. ONE ERMON MARTINEZ SEGMENT AS 1-1-1
 CG Reimer USCG BROWN SUBDIVISION A
 ADEC HAYES LAB REP GIBSON TOTAL NO. SITES 1
 DATE 8/2/90 TIME 17:10:17.50 TIDE LEVEL 5.5 to 6
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 720 m
 SURVEYED FROM: Foot Boat Helo WEATHER: Sun Clouds Fog Rain Snow
 OIL CATEGORY LENGTH: W 6 m M 10 m N 0 m VL 570 m NO 40 m US 375 m

SURFACE OIL				SITE 1				SITE 2				SITE 3																
CHARACTER	DISTRIBUTION				OILED ZONES				DISTRIBUTION				OILED ZONES				DISTRIBUTION				OILED ZONES							
	/C	/B	/P	/S	SU	UI	MI	LI	/C	/B	/P	/S	SU	UI	MI	LI	/C	/B	/P	/S	SU	UI	MI	LI				
ASPHALT																												
S.O.R.		H	M	X	✓																							
POOLED																												
COVER						✓	X																					
COAT							X																					
STAIN																												
MOUSSE						I																						
PATTIES/T B.							X																					
FILM		X					X	X																				
NO OIL							X																					
EST. SITE LENGTH					720																							

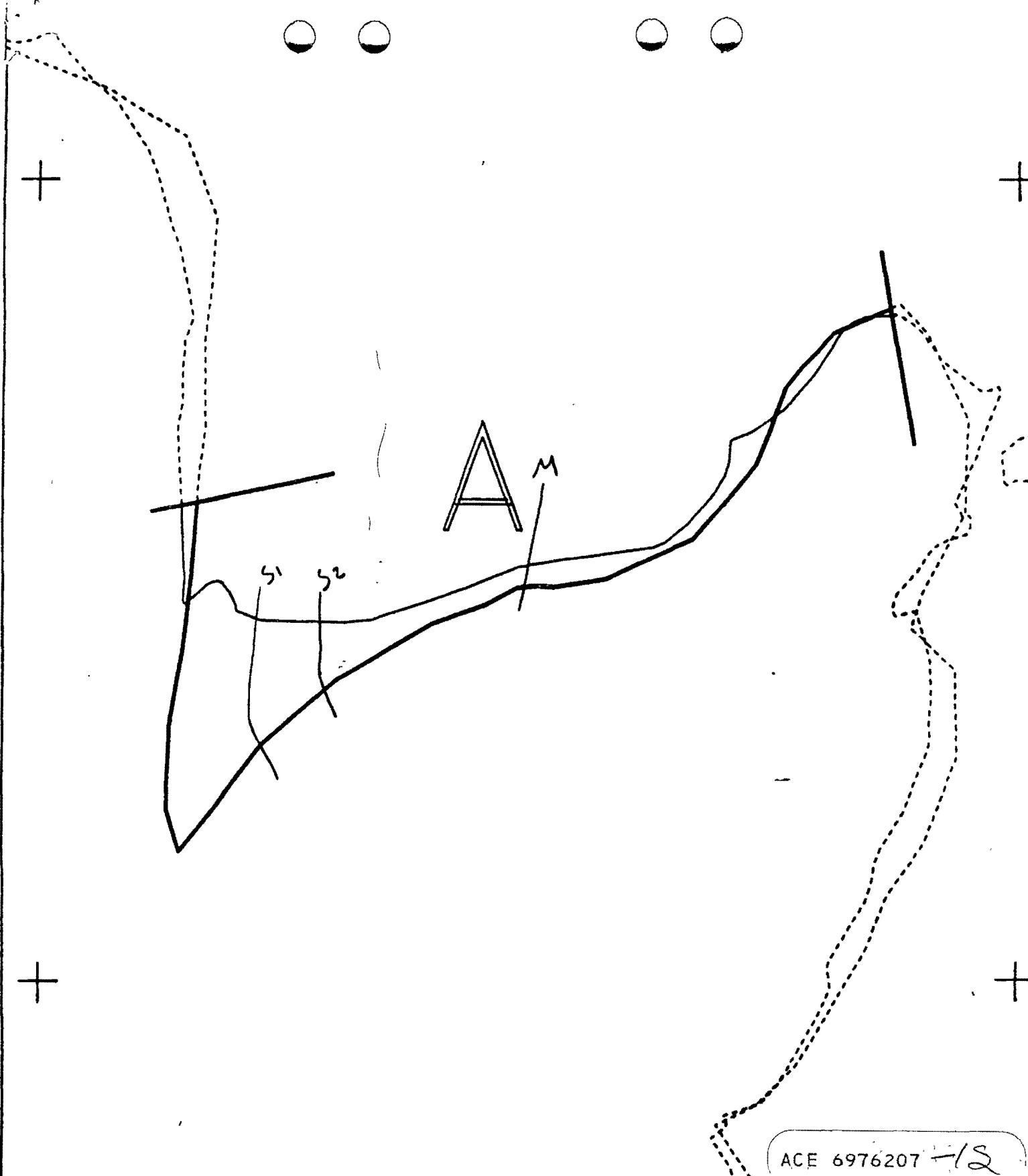
SUBSURFACE OIL

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	12		M			5-9	Y		X			P-GP
1	2	15		M			5-10	Y		X			P-GP
							.						
							.						
							.						
							.						
							.						
							.						
							.						
							.						

Photographs:
 Roll No. ASX-01-1
 Frames 33

COMMENTS The heaviest oiling conditions are just to the east of the canal stream (226-40-16450) in this site. Oiling is predominantly SOR remaining after Tarmat removal and ev/ct on cobbles/pebbles associated with Tarmats. The area has been fairly well tilled however the undersides of some cobbles are still coated.

ACE 6976203



ACE 6976207-12

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

BA-2 A

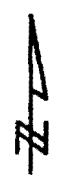
ADEC Subsegment Length: 1095m

METERS

0 112 220

AK State Plane Zone 4 1:4420

pbe-2a



Subdivision Field Map

Map Key: PWSBA-2A

Name: Reimer

Date: 8/2/90

Date Entered:

Column
ANADSCAT
RECOMMENDATIONS
OBS.
Y, N, -0-

Alaska Department of Fish and Game

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

23 April 1990

ASC # 226-40-16451

Segment BA-002

2

Observations This large cove has a gradual gradient with a large grassy meadow in the supratidal zone. The intertidal substrate is shale gravel and cobble. East of the channel, extensive tar mats ring the high tide line. West of the channel, widely scattered tar patties dot the upper-intertidal zone. No obvious subsurface oil was identified. Two to three tar patties were observed above the storm berm in the grassy lagoon area.

Treatment Recommendations Manually remove tar mats and patties.

ASC # 226-40-16400

Segment FL-005

Observations The intertidal zones surrounding this stream channel are confined to a small area by bedrock walls. Boulder rubble borders the bases of these walls. Along the north side of the channel, a sticky oil film coats a portion of the underside of some of the shale boulders. No obvious oil penetration of the substrate was noted. Narrow tar bands ring the boulder outcrops south of the channel.

Treatment Recommendations Manually turn over the shale boulders to enhance the weathering of the oiled surfaces. This was completed by the ANADSCAT crew, therefore further treatment is not required. No treatment is recommended for the tar rings on the bedrock outcrops.

#

ASC # 226-40-16390

Segment FL-002

Observations The intertidal zone surrounding this stream is very confined by bedrock walls on either side. Scattered tar splatters dot the bedrock and associated bedrock rubble on the east side of the channel. A heavy tar stain coats a significant

I

portion of the bedrock outcrop at the mouth of the stream.

Treatment Recommendations The quantity of oil and its distribution relative to the stream do not pose a significant risk to salmon or other organisms. Therefore no treatment is recommended.

ASC # 226-20-16397

Segment BF-004

Observations A very heavy band of thick tar rings the high tide line to either side and through the stream channel. Oiled logs are deposited in the middle of the channel. Oiled debris line the stream banks and the grass at the stream's edge. A fine-grained gravel berm adjacent to the west bank of the stream contains oil to a minimum of 10 cm below the surface.

3

Treatment Recommendations Manual removal of all surface tar mats up to edge of stream. Removal of oiled debris from stream bank and adjacent grass. Removal of oiled logs in stream channel. Removal of oiled substrate from bottom of stream channel. Hot water wash fine gravel berm west of channel.

ASC # 226-20-16395

Segment BF-004

Observations Tar patties are scattered in two bands on either side of the stream channel. Some of the patties are partially or completely buried. Pools of mousse are trapped between boulders to the east of the channel.

2

Treatment Recommendations Manually remove all surface and subsurface tar patties. Manually remove all mousse deposits trapped between the boulders east of the stream. Removal of this mousse may require trowels and absorbents.

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: BA002
 LOCATION: E BAINBRIDGE ISLAND

DATE: 10/13/89
 TIME: 9:05

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

WEATHER AND SEA CONDITIONS

Weather: Sunny
 Sea State: Calm

Wind Direction: NE
 Knots: 0-15

Low Tide: 6:42	Feet: 0.22	High Tide: 12:53	Feet: 13.4
Low Tide: 19:10	Feet: -0.9	High Tide: 0:34	Feet: 12.4

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

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

Max. Oil Thickness: 25 mm (1 = 1 mm or less, 0 = no oil)
 Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%
 Presence of Oiled Driftwood (y/n): n
 Oil Types: M,SY,T,A,ST
 (P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
 Samples: BA002-1 / BA002-2 / BA002-3 / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: Few localities
 Bags Collected: 0

Draft

Printed: 12/12/89 10:59

Walk-A-Thon

ACE 6976159 +/AC

Alaska Department of Fish and Game
ANADSCAT Observations and Recommendations
Team 15 - Michael Wiedmer and Tom Crowe

23 April 1990

ASC # 226-40-16451

Segment BA-002

2

Observations This large cove has a gradual gradient with a large grassy meadow in the supratidal zone. The intertidal substrate is shale gravel and cobble. East of the channel, extensive tar mats ring the high tide line. West of the channel, widely scattered tar patties dot the upper-intertidal zone. No obvious subsurface oil was identified. Two to three tar patties were observed above the storm berm in the grassy lagoon area.

Treatment Recommendations Manually remove tar mats and patties.

ASC # 226-40-16400

Segment FL-005

Observations The intertidal zones surrounding this stream channel are confined to a small area by bedrock walls. Boulder rubble borders the bases of these walls. Along the north side of the channel, a sticky oil film coats a portion of the underside of some of the shale boulders. No obvious oil penetration of the substrate was noted. Narrow tar bands ring the boulder outcrops south of the channel.

Treatment Recommendations Manually turn over the shale boulders to enhance the weathering of the oiled surfaces. This was completed by the ANADSCAT crew, therefore further treatment is not required. No treatment is recommended for the tar rings on the bedrock outcrops.

1

ASC # 226-40-16390

Segment FL-002

I 1

Observations The intertidal zone surrounding this stream is very confined by bedrock walls on either side. Scattered tar splatters dot the bedrock and associated bedrock rubble on the east side of the channel. A heavy tar stain coats a significant



portion of the bedrock outcrop at the mouth of the stream.

Treatment Recommendations The quantity of oil and its distribution relative to the stream do not pose a significant risk to salmon or other organisms. Therefore no treatment is recommended.

ASC #

226-20-16397

Segment

BP-004

Observations A very heavy band of thick tar rings the high tide line to either side and through the stream channel. Oiled logs are deposited in the middle of the channel. Oiled debris line the stream banks and the grass at the stream's edge. A fine-grained gravel berm adjacent to the west bank of the stream contains oil to a minimum of 10 cm below the surface.

3

Treatment Recommendations Manual removal of all surface tar mats up to edge of stream. Removal of oiled debris from stream bank and adjacent grass. Removal of oiled logs in stream channel. Removal of oiled substrate from bottom of stream channel. Hot water wash fine gravel berm west of channel.

ASC #

226-20-16395

Segment

BP-004

Observations Tar patties are scattered in two bands on either side of the stream channel. Some of the patties are partially or completely buried. Pools of mousse are trapped between boulders to the east of the channel.

2

Treatment Recommendations Manually remove all surface and subsurface tar patties. Manually remove all mousse deposits trapped between the boulders east of the stream. Removal of this mousse may require trowels and absorbents.

ACE 6976211 -18

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/20/89

SHORELINE SEGMENT BA-2

LOCATION: (see enclosed map) Northeast side of Bainbridge Island, Prince William Sound, beach west of USGS triangulation station Pikuk

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/17/89

Recommended Cleanup Activity(ies):

- Manually remove contaminated drift material (fucus), pooled oil and patches of mousse.
- ~~Because the contaminated berm sediments are fine grained, diskings or relocating them into the middle intertidal zone would accelerate natural cleaning. This is an exposed beach in which the sediments would be reworked and redistributed back up the intertidal zone. Do not disturb any sediments near the fish stream. DO NOT RECOMMEND ON THIS SEGMENT.~~
- Use other approved methods as appropriate. ^{DISKING}

SC 7/28/89
6 890728

Priorities Considerations:

Class 3: moderate oil
Class A: resources present

Ecological Constraints (from site survey):

Work at mid tide + or take appropriate measures to protect lower intertidal zone. Anadromous fish stream (No. 16570 is located within this segment (Anadromous Water Catalog, 2/84). Notify ADF&G and RAT 48 hours prior to beginning any cleanup in this area.

SC 7/28/89
6 890728

Archeological Constraints (from site survey):

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

W Douglas Reger

State Historic Preservation Officer *

Date: 7/24/89

ISCC: Sharon K. Christopherson

Date: 7/28/89

EXXON: [Signature]

Date: 890728

FOSC: A.C. Ullendorn, by dcr.

Date: 7/28/89

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

ACE 6976221 +15

BA-2

DOCUMENTATION:

Map/Aerial photo marking segment boundaries _____

VTR: Y/N Tape Number(s) _____

Photography: Y N Roll Number(s) _____

Sample Numbers Collected: _____

**Plan View of Segment BA-2
("Pikuk Point")**

Note: map foreshortened towards the east

≈ 20m

N

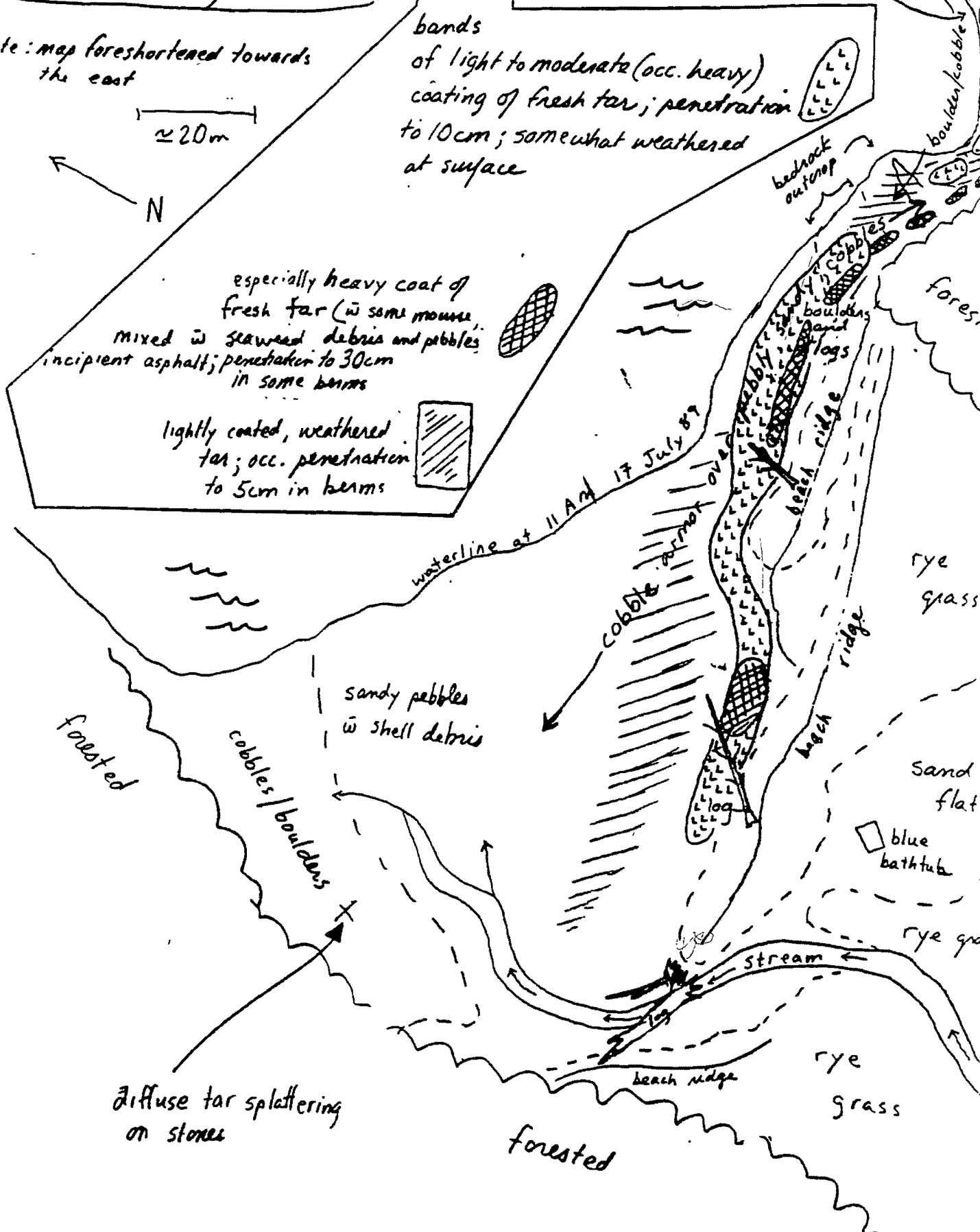
KEY

bands of light to moderate (occ. heavy) coating of fresh tar; penetration to 10cm; somewhat weathered at surface

especially heavy coat of fresh tar (w some mouse mixed w seaweed debris and pebbles incipient asphalt; penetration to 30cm in some berms

lightly coated, weathered tar; occ. penetration to 5cm in berms

oiled plastic sheet



ECOLOGICAL EVALUATION

LOCATION: BRIMBRIDGE ISLAND SITE: NE side, PWS OBSERVER: MEYER

LOCATION PREFIX: BA SEG. NO.: 2 LENGTH: 700 (M)

DATE: 07 / 17 / 89 TIME (HHMM): 1045 TIDE HT.: +4 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 Sparse Y/N None Y/N

Fucus sparse and patchy, not in oiled zone.

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

Some patchy beds of mussels, mostly simply scattered in substrate. Not oiled.

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

Scattered throughout pebble/cobble beach - not oiled.

Littorina

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

Some adults in Fucus; many Littorina abundant on lower cobble beach.

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

Few Limpets seen.

OTHER OBSERVATIONS: Edgrass bed in subtidal of segment (see Map). Pink Salmon Spawning Stream (ADFIG site # 16570).

CLEANUP PRECAUTIONS: Notify ADFIG and RAT 48 hours prior to beginning cleanup in this segment (Pink Salmon Stream present).

MAMMALS: Otters Harbor Seals Sea Lions Whales
Other Beaver in uplands.

BIRDS: Glaucous-winged Gull - 1; Mew Gull - 1; Black-legged Kittiwake - 5

GENERAL OBSERVATIONS: Algae/seaweed not abundant, primarily pebble/cobble beach with scattered barnacles and patchy sparse Fucus.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 7/17/89 Location Bunbury Island site

Location Prefix BA Segment # BA-2 Length 700m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRs #) None Data Source None

Oil conditions/beach visibility light to moderate

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

Cultural resources observed in beach zone (AHRs code) None

Cultural resources observed in tree fringe (AHRs code) CMT

General observations justifying survey method and segment's site probability

Shore Profile flat, broad beach

Fresh Water Sources stream

Sea Exposure protected to north

Access/Safety good

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 # _____ Frames _____

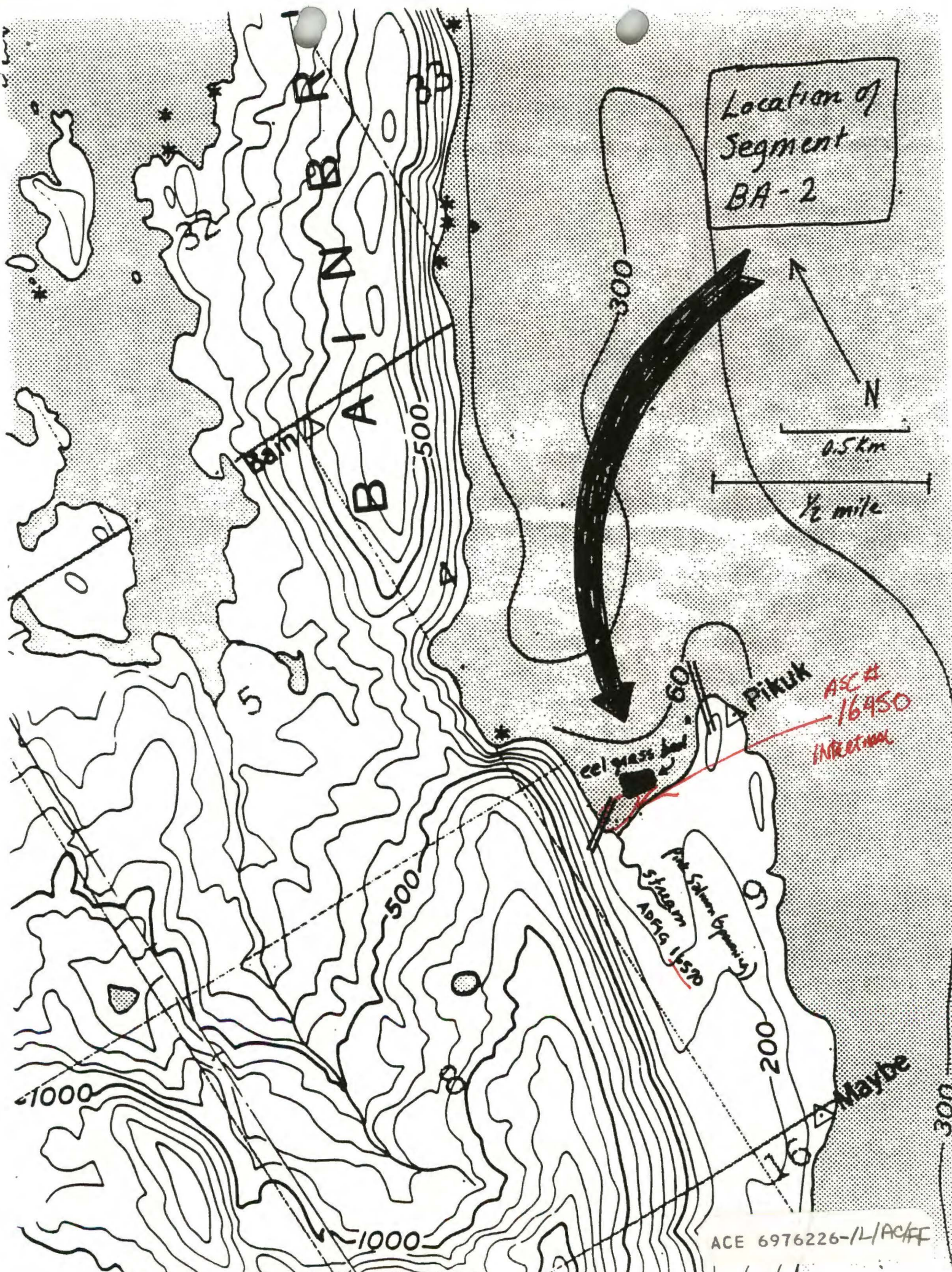
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1000 Time survey ended 1430

Cultural resource considerations/restraints:

standard.



ANADSCAT - Spring 90

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90

15 HIGH TIDE TIMES: 0021 11257

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1545

18 HIGH TIDE HTS: 11.5' 10.5'

22 OBSERVERS: T. CROWE

5 STOP TIME: 1610

17 LOW TIDE TIMES: 0648 11855

23 AGENCY: ADF&G

6 SECTMENT #: BA-002

18 LOW TIDE HTS: -0.8' 10.5'

24 PHOTOS TAKEN: Y N

7 STATION #: 226-40-16451

19 TIDE HT AT SURVEY: 5.35'

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCC QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION: EAST SIDE, BAINBRIDGE I.

14 DESCRIPTION: BATHING COVE

Oil _____
Sediment _____
Biological _____
Water _____

EXTENT OF OIL

10/31/91
Not Good Data
STREAM

	SHORELINE		L		W		M ²	
	L	W	M ²	L	W	M ²	S	
27 SURFACE COVERAGE	100	200		2	200	3		<1
28 SURFACE THICKNESS	5cm	5cm	3cm					
29 PENETRATION	10cm	10cm	5cm					

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-40-16451

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: _____

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 50
Gravel 50 Sand _____ Mud/silt _____

43 ANADROMOUS FISH PRESENT? Y N

FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SHALY GRAVEL & COBBLE INTERTIDAL ZONE

SUBTLE BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL.

VERY SCATTERED PATCHES IN LAGOON/MARSH ARE UPSTREAM OF STORM BERM.

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-40-16451

SEGMENT BA-2 SUBDIVISION A

WORK WINDOW	
Manual Pickup Tarnat Removal	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous streams (226-40-16451 and 226-40-16450) are in Subdivision A and are more than 100m from work site. No constraint to manual pickup and tarnat removal.

OTHER ECOLOGICAL CONSIDERATIONS

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

SEE SUBDIVISION CONSTRAINT ADDENDUM BA-2A
FOR ADDITIONAL CONSTRAINT INFORMATION.

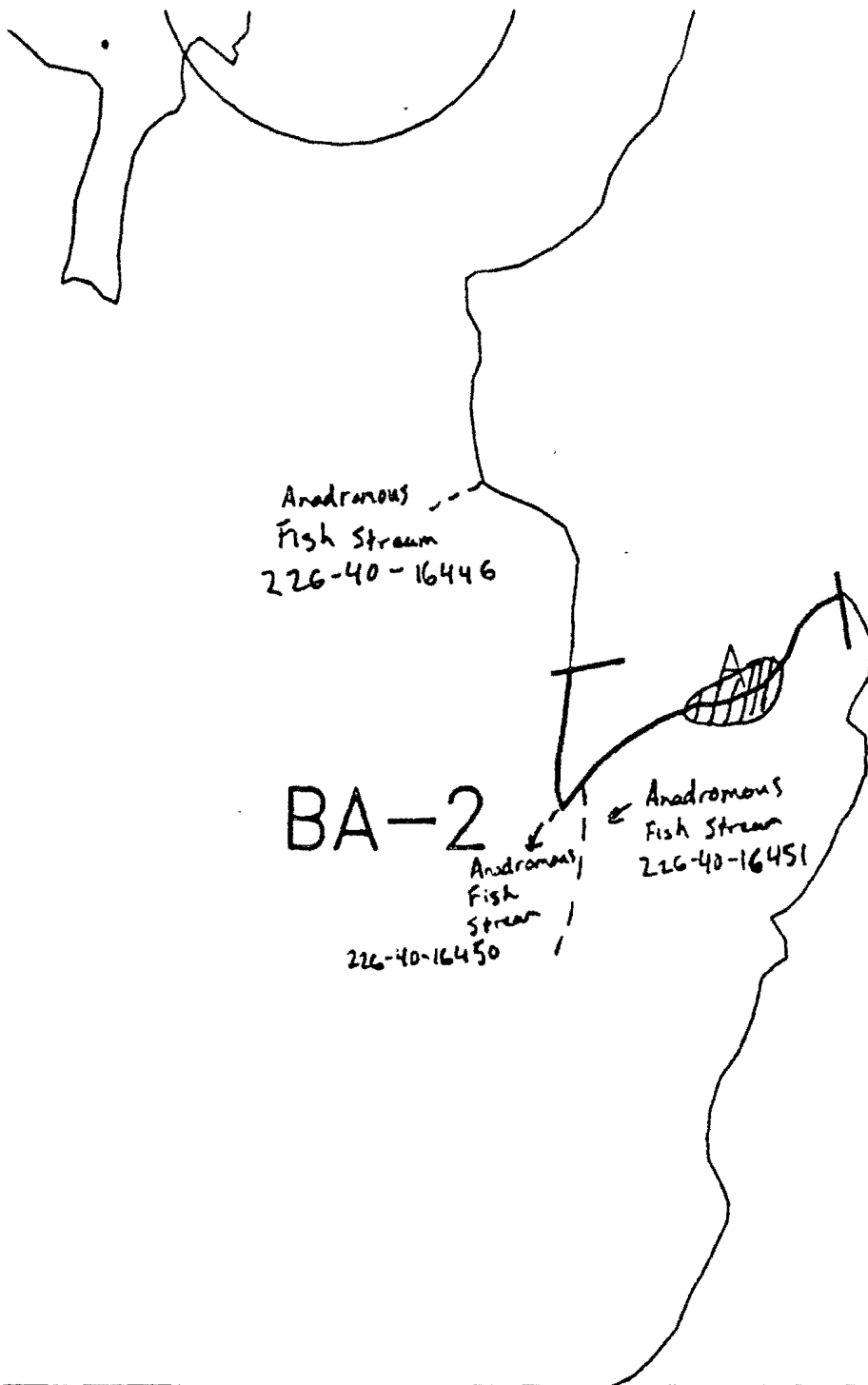
FOSC _____

Date _____

Prepared by _____

Date _____

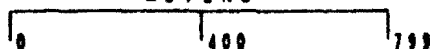
ACE 6976259 +/sg



Exxon Company, USA
 Map Key: PWS-BA-2
 June 08, 1990



ECOLOGY MAP
 SEGMENT BA-2
 SUBDIVISION A (L of L)
 METERS



★	Seabird Colony
▲	Active Eagle Nest
△	Inactive Eagle Nest

1 Inch = 1311 feet

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BA-02 STREAM NO: 226-40-16451 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two catalogued streams in BA-02: 226-40-16451, 226-40-16450.

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

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

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

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 in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

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

Subsurface Oil Observed: Yes No Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats and pickup of tarballs/patties as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraint.

 SEE CONSTRAINTS ADDENDUM DATED 6/18/90. JPP

TAG COMMENTS:

TAG APPROVAL DATE: 5/7/90.
ADEC Art Weimer
EXXON Andy Tate
NOAA Gary Patrae
USCG G.A. BEITER

FOSC: DATE: 5-15-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BA-02 STREAM NO: 226-40-16451 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two catalogued streams in BA-02: 226-40-16451, 226-40-16450.
1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
6U Recreation: Tent sites (6/1 to 9/15)
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 in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: *J. David McMonahan* DATE: *5/8/90*

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats and pickup of tarballs/patties as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraint.

TAG COMMENTS: _____

TAG APPROVAL DATE: *5/7/90.*
ADEC *Art Weimer*
EXXON *Andy Tetz*
NOAA *Gary Petros*
USCG *C.A. Reiter*

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

ACE 6976262 *HS*

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

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

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

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

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

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

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

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

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

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

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

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

1H Remote release site

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

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

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

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

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

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

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

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

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

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

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

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

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

3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)

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

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Pothly 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

Recreation:

6V Tent sites (6/1 to 9/15)

6W Anchorages (6/1 to 9/15)

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

6Y Lodge (6/1 to 9/15)

Special use destination

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

7HH Finfish harvesting

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

7JJ Invertebrate harvesting

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

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

ACE 6976263

FIELD SHORELINE COMMENT SHEET

RSS

SEGMENT ST 1 BA 002 SUBDIVISION: 16461 DATE 4/23/90

USCG

NAME CUB McMAHON SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

1. MANUAL REMOVAL ASPHALT
LEFT SIDE (LOOKING OUTSIDE)

ADFC
ADEC

NAME NO TEAM MEMBER SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

SOME PATTIES MAY BE FOUND ON RIGHT SIDE IN UPPER INTER
TIDAL ZONE. IF FOUND, THEY SHOULD BE REMOVED.

LAND MANAGER

NAME NO TEAM MEMBER SIGNATURE _____

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

ACE 6976264

SHORELINE OILING SUMMARY (ANAD.)

REVISION 2

CG WILLIAM LEW USCG McMAHON SEGMENT ST/ BA002 31
 BIO MICHAEL FAWCETT LAND REP TOM CRAVE ADEG STRATA 22640-1651
 EXXON GUS GARCIA ADPG MIKE WIDMER TIME 15:45 to 16:15
 TEAM NO. 15 TIDE LEVEL 5.5 FT DATE 23 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m Sun Clouds Fog Rain Snow
 UPLANDS DESCRIPTION: Grass Forest Rock
 SURVEYED FROM: Foot Boat Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 30 % P 60 % G 10 % S 0 % M 0 % V
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: Low Med H
 OIL CATEGORY LENGTH: W 0 m M 0 m N 4.5 m VL 0 m NO 1

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	R	B	C	P	W	M	N	VL	NO	SW	SE	EW	EU
ASPHALT PAVEMENT	X				X					X			
POOLED COVER													
COAT													
STAIN													
MOUSSE													
PATTIES	X				X					X	X		
TARBALLS													
FILM													
NO OIL										X			X

PAVEMENT H (F) S 60 sq. m by 5

PATTIES / TARBALLS 1

NEAR SHORE SHEEN? (NO) BR RW SL

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

Did you see 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				ANA	SHEEN (Y/N)	V	SURF SUBSURF SEDIM	
		OP	OR	OL	OP	OS		SW	SE	W	M	N	VL	NO	SW	SE	EW	EU					
1	40					X	.													N			P/C
2	40					X	.													N			P/C
3	35					X	.													N	70		P/C
4	35					X	.													N			P/GA
5	60					X	.													N			P/G/L

COMMENTS

Δ5: NO OIL LAYER, 1 GOLF BALL SIZE TAN BALL FOUND

REVIEWED JW DATE 4-25

3515 00 WILLIAM KEID
 SEGMENT ST/ BA002
 STREAM 226-40-16451
 DATE 23 / APR 80

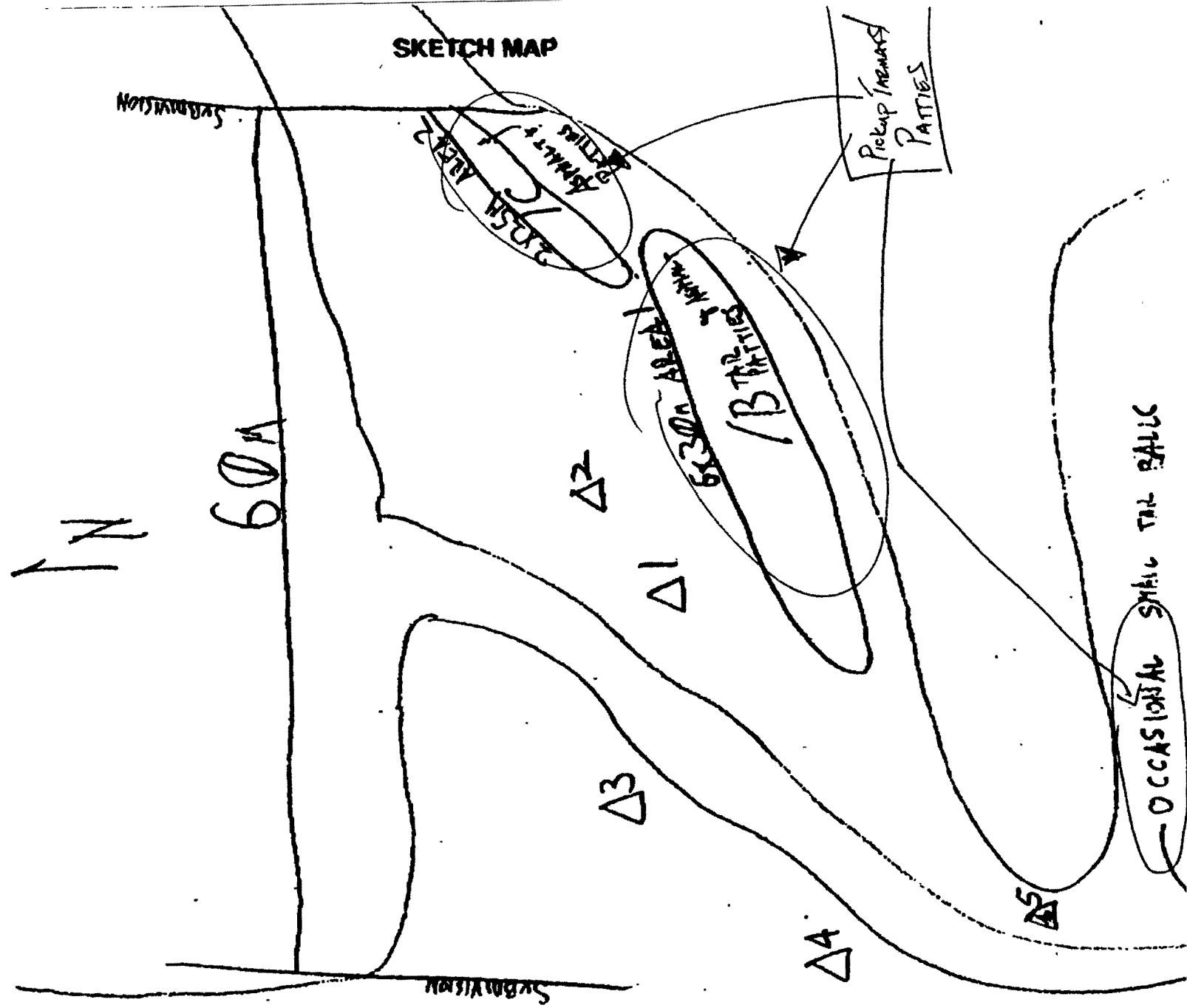
SKETCH MAP

CHECKLIST

- N Area
- Approx. Size
- Seg/Str Study
- Oil Dist.
- Wash
- Length
- % Cover
- Substrate Character
- Ed. MFL/AVL
- STL
- Profile Location(s)
- Photo(s)
- PI Location(s)
- Photo Location(s)

LEGEND

- ' Δ
- PI - No Substrate Oil
- ' Δ
- PI - Substrate Oil
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Spotted Distribution
- lll
- Clad Vegetation
- ' <>
- Photo location, direction, and repeat



ACE 6976266

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

RENDERING

ADP&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES SS DS TS AVS SCM MPHS PTA 2 REGION: PNB XP,CI K,AP
 METHOD: Aerial Ground Boat
 3 DATE: 4/23/90 18 HIGH TIDE TIMES: 0021 11257 21 TEAM RECORDER: M. WIEDMER
 4 START TIME: 1545 19 HIGH TIDE HTS: 11.5' 10.5' 22 OBSERVERS: T. CROWB
 5 STOP TIME: 1610 17 LOW TIDE TIMES: 0649 11856 23 AGENCY: ADP&G
 6 SEGMENT #: BA-002 18 LOW TIDE HTS: -0.9' 10.5' 24 PHOTOS TAKEN: Y (N)
 7 STATION #: 226-40-1645/19 TIDE HT AT SURVEY: 5.35' Roll #: _____ Frames: _____
 8 K-UNIT: _____ (DB) Stack Flood Stack 25 VIDEO TAKEN: Y (N) TAPES: _____
 9 STAT AREA: _____ 20 USCG QUAD: _____ Starts: _____ Ends: _____
 10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN: Y (N) Number
 12 SOURCE: Map Loran Oil _____
 13 LOCATION: EAST SIDE, BAINBRIDGE I. Sediment _____
 14 DESCRIPTION: BATHUR COVE Biological _____
 Water _____

EXTENT OF OIL

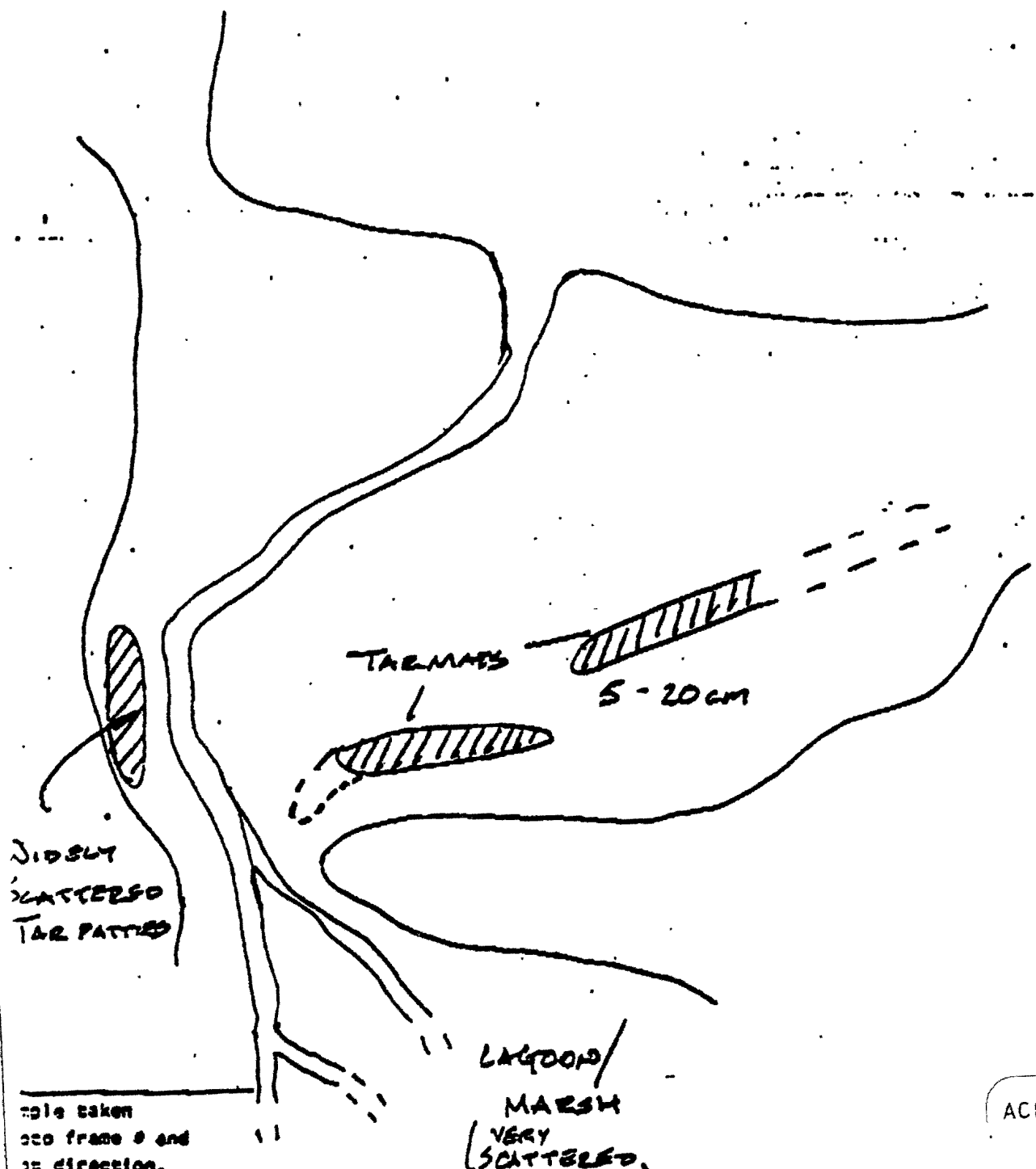
	SHORELINE				STREAM			
	L	V	H	S	L	V	H	S
27 SURFACE COVERAGE	100	200		2	200	3		<1
28 SURFACE THICKNESS	5cm	5cm	3cm					
29 PENETRATION	10cm	10cm	5cm					
30 OVERALL OIL IMPACT:	N	VL	L	<u>(N)</u>	N			
31 OIL TYPE:	Pooled	Residue	<u>Tar</u>	<u>Asphalt</u>	Sticky	Stain		
32 OILED DEBRIS:	Y	<u>(N)</u>						
33 SHORELINE TYPE:	Woodland	Lagoon	Low-lying Rocks	Marsh	Beach	<u>Cave</u>		
34 WAVE EXPOSURE:	High	<u>Moderate</u>						
35 SUBSTRATE TYPE:	Bedrock	Gravel	Boulder	Sand	Cobble	<u>50</u>		
		<u>50</u>						

36 CATALOGED ANAD. FISH SKELET (N)
 37 CATALOG #: 226-40-16451
 38 STREAM NAME: _____
 39 OIL IN STREAM BED? Y (N)
 40 OIL ON STREAM BANKS? (Y) N
 41 OIL ON BEACH ADJACENT TO MOUTH (within 50 meters) (Y) N
 42 OIL WITHIN 1 MILE OF STREAM? (Y) N
 Where: _____
 43 ANADROMOUS FISH PRESENT? (Y) N
Fry Presumed
 44 ANADROMOUS FISH OBSERVATION
 Species _____ Aerial _____ Ground _____

COMMENTS: SHALEY GRAVEL & COBBLE INTERTIDAL ZONE
TURBID BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE
EAST OF CHANNEL. NO OBVIOUS SURFACE OIL.
VERY SCATTERED PATCHES IN LAGOON/MARSH AND UPSTREAM OF
STORM BERM.

PAGE(S)	DESCRIPTION
	RECOMMENDATIONS: MANUAL REMOVAL OF TAR MATS
	I agree with recommendation. <i>M. H. Fournier</i>

48 OIL DISTRIBUTION DIAGRAM

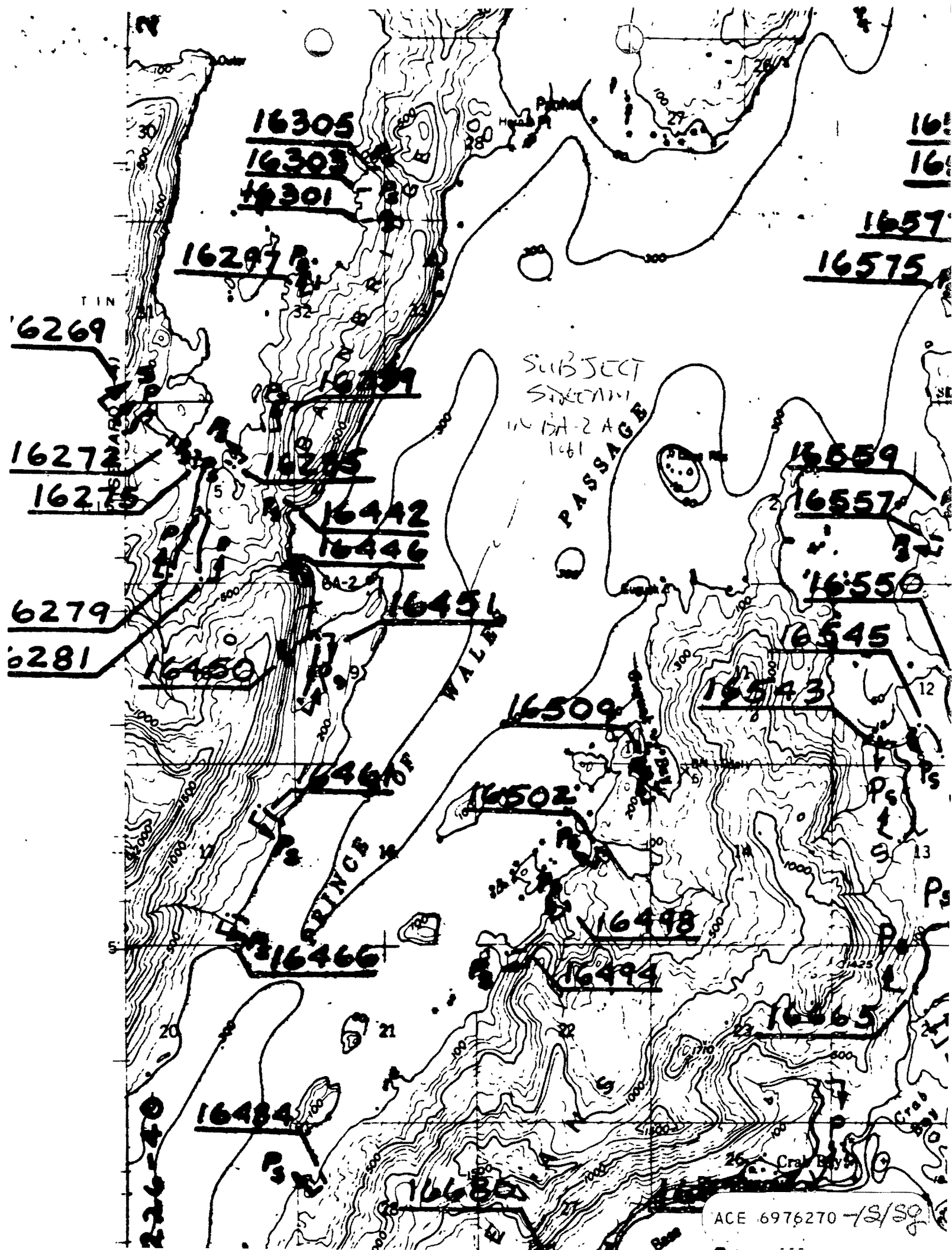


Segment BA002
Stream 226-40-16451
Ecological Summary

4/23/90
Michael Fawcett

The intertidal portion of this stream meanders through a grassy flat before reaching the cobble/pebble/gravel beach. A healthy Fucus-barnacle community exists on scattered cobbles around the stream mouth, becoming more dense toward each end of the cove as the sediments become more stable. Main silt consists of a band of tar mats in UTZ. No ecological constraints re: intertidal biota. One bald eagle sighted, flying by.

M Fawcett



16305
16303
16301

16297

TIN
16269

16272
16275

16279
16281

16442
16446

16454

16450

16466

16484

16685

SUBJECT
SECTION
IN 17A-2 PAGE
1 of 1

PASSAGE

PRINCE OF WALES

16559

16557

16550

16545

16543

16509

16502

16498

16494

16565

16575

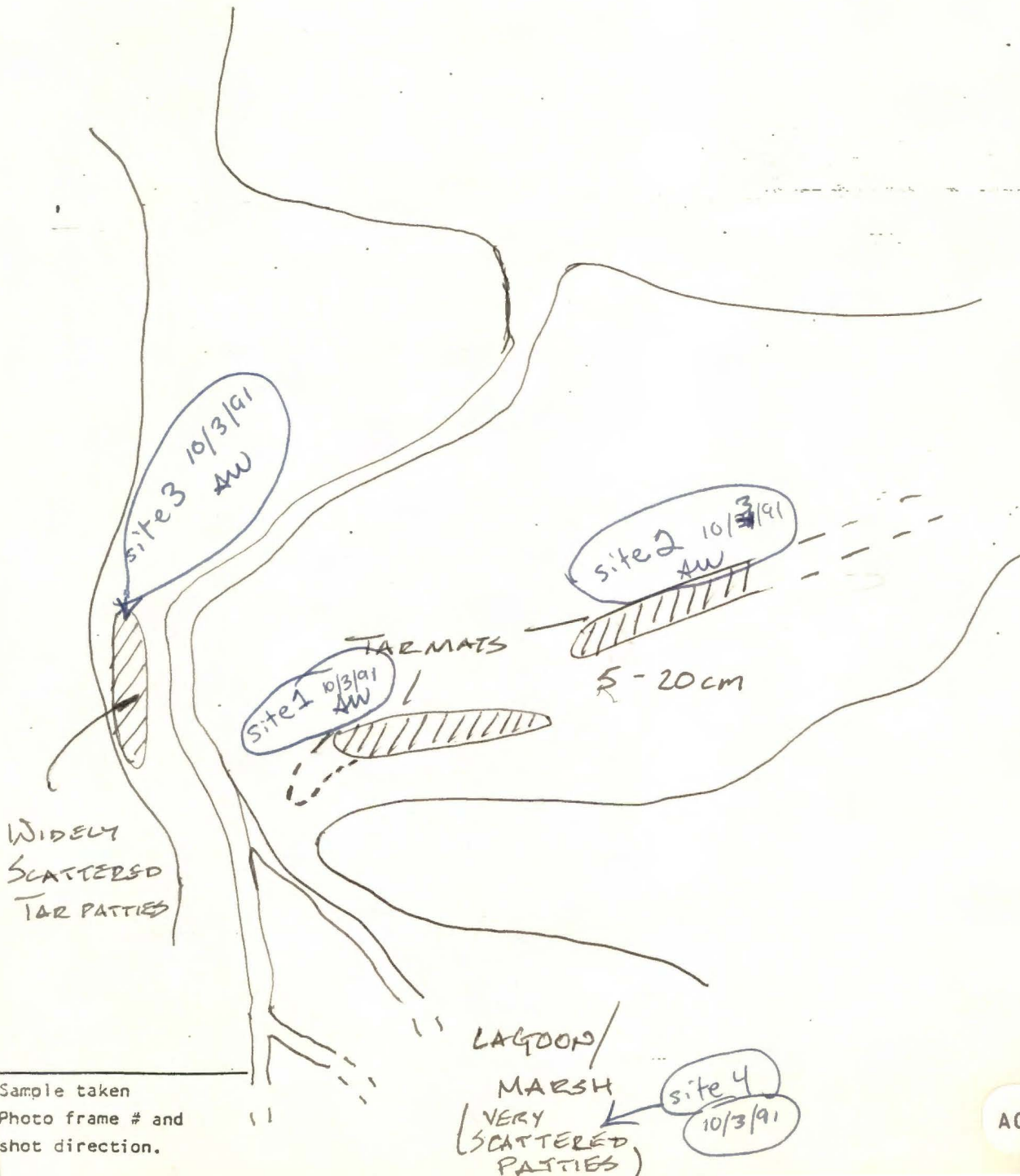
16571

FRAME(S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF
TAR MATS

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

35/53 OG WILLIAM REID
 SEGMENT ST/ BA002
 STREAM 226-A0-16451

DATE 23 / APR 90

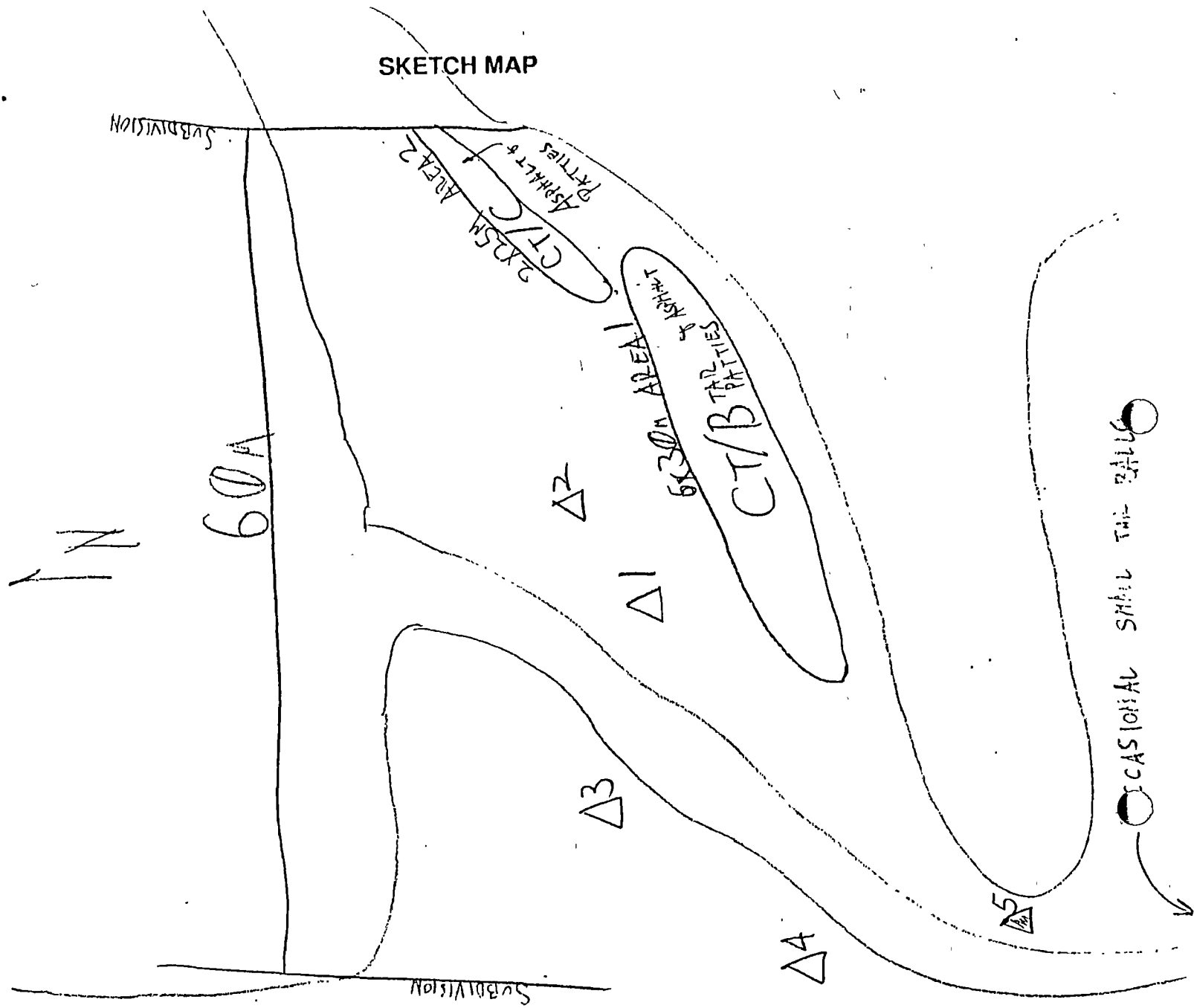
CHECKLIST

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

LEGEND

- 1 Δ Pit - No Subsurface Oil
- 2 ▲ Pit - 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

SKETCH MAP



ACE 6976287

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

4.2.5.11
File Ace
199710

Aimee Weseman
ADF&G Oil Spill Response
M/V Corinthian, PWS

June 23, 1990

Re: Stream Report
ASC# 226-40-16451, Seg. BA-02, Bainbridge I.

This stream received treatment on June 22nd and 23rd, 1990. On the morning of June 22nd, I accompanied Darryl Yoes Exxon, Larry Smith OOPS, Rick Reaner Archeologist, Jan Krieger DEC, Barbara Winkley DEC and Jim Davis USCG in a pre-assessment of the oiling conditions of the stream. The site appeared to have already received some tarmat removal. We later learned that the BA-02 segment had been worked and signed off on May 5, 1990, however significant amounts of oil remained.

A crew of 10 began treatment, the manual removal of oiled sediments, at 1445. The majority of the oil was located in a tarmat band running the length of the upper-intertidal zone on the east side of the stream. Much of it was just below 1-2 inches of clean gravel. A few tar patties were located in the same zone on the west side of the stream. The crews worked until 1815 having removed 7 supersacks of oiled gravel and .75 supersacks of oily material. The USCG stopped treatment at one point contending that some of the oil was subsurface and not addressed on the workplan. Work continued once the agency reps. discussed the situation and agreed upon further removal. By the end of the day, we estimated the job to be 75% complete.

June 23, 1990

Work was in progress on the stream when I arrived at 0800. A crew of 10 worked the stream area until 1200. After lunch 8 of them moved down the segment, off of the stream portion. Two workers remained with me on the stream area and continued working until 1500. At that time, several more workers returned to assist me after I discovered a 7ftx2ftx3" oil lense, 6-8 inches below clean material. This area was close to the stream. The USCG was somewhat reluctant to allow this removal but finally agreed. Manual removal on the whole segment was completed by 1530. Four additional supersacks of oiled gravel were removed bringing the total to 11 supersacks.

The application of Custonblen, not originally called for on the workplan was agreed upon for an area approximately 35mx 2m on the east side of the stream, where some residual oil remains. Fourteen pounds was applied to this area and raked over.

Work was completed on the stream and the rest of the segment by 1530 and I am satisfied with the results. In the evening, the same agency reps. as mentioned earlier returned to the site and agreed upon demobilization.

Aimee Weseman

ACE 1967893

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

Low energy

SEGMENT#: BA002
LOCATION: E SAINBRIDGE ISLAND

DATE: 10/13/89
TIME: 9:05

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

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NE
Knots: 0-15

Low Tide: 6:42 Feet: 0.22 High Tide: 12:53 Feet: 13.4
Low Tide: 19:10 Feet: -0.9 High Tide: 0:34 Feet: 12.4

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

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

Max. Oil Thickness: 25 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%
Presence of Oiled Driftwood (y/n): n
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: BA002-1 / BA002-2 / BA002-3 / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: Few localities
Bags Collected: 0

Draft

Printed: 12/12/89 10:59

Walk-A-Thon

ACE 6976228 +/AC

Final Hydromous 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 226-10-16908					X	6/30/90	6/30/90
EL052 226-10-16902		X	6/28/90	9/4/90			
ER005 226-50-16432					X	6/21/90	6/21/90
ER006 226-50-16430					X	6/20/90	6/20/90
ER007 226-50-16428					X	6/20/90	6/20/90
ER019 226-50-16406	X						
EV003 226-40-16590					X	6/10/90	6/10/90
EV007 226-40-16559	X						
EV012 EV012-UNCAT		X	6/22/90	6/23/90	X	6/22/90	6/23/90
EV014 226-40-16640					X	6/23/90	6/23/90
EV017 226-40-16620					X	6/19/90	6/19/90
EV017 226-40-16630					X	6/19/90	6/19/90
EV025 226-40-16613		X	7/1/90	7/1/90	X	6/9/90	6/9/90
EV027 226-40-16610					X	7/8/90	7/8/90
EV070 226-40-16509		X	6/12/90	9/1/90	X	6/12/90	6/12/90
EV071 226-40-16484		X	7/5/90	9/1/90	X	6/21/90	6/21/90
FL002 226-40-16390	X						
FL005 226-40-16400	X						
GR007 GR007-UNCAT					X	6/27/90	6/27/90
GR013 227-20-17890	X						
GR103 227-20-17880					X	6/24/90	6/26/90
IN031 226-10-16916					X	7/5/90	7/5/90
K0101-SI008 251-81-10010	X						
K0101-SI014 251-82-10090					X	7/3/90	7/3/90
K0112-SS009 251-50-10045					X	7/2/90	7/2/90
K0201-SI013 251-81-812	X						
K0302-IB005 252-31-10020					X	6/5/90	6/5/90
K0911-CD018 262-10-10100					X	7/5/90	7/7/90
K0911-CD020 262-10-10040					X	7/3/90	7/8/90
K0911-CD020 262-10-10070	X						

**ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT**

287
\$

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

From: _____ (please print)
RE: SEGMENT NUMBER BA-QZ SUBSEGMENT NUMBER A

ADEC REP JEFF GIVALIAS USCG REP JOHN DOWD

EXXON REP CHRIS KATSIMPALIS BOAT NAME/SQUAD NUMBER ARCTIC SALVOR
OG: MIKE ACTON OPS: DAVID BELLOW SQUAD # 4

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
1	100 x 3 @ 100%	300	-	50

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

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

Residual scattered along UIZ band. Band often disappeared then reappeared around bedrock upthrusts. No penetration, band no wider than 2-3 meters in any place.

Additional Comments (keep objective)

Very light oiling; area should weather well over winter.
Not a priority to reassess in 1991

signature _____

Date and time of demobilization from segment 9-12-90 @ 13:00
Shoremon/Demob.bio 55/30/90

ADEC BIOREMEDIATION DAILY REPORT

187
\$

DATE: 9.12.90

ADEC Monitor: _____

TIDES: TIME: HEIGHT:
 Low 1:31 1.2
 High 8:27 8.9
 Low 13:19 5.3
 High 19:58 11.8

WEATHER: Cloudy Rain Fog Sun
 TEMP: 49° SEA COND: choppy 1ft swells
 WIND DIR: N-NE-E-SE-S-SW-W-NW
 WIND SPEED 0-15 16-30 30+

USCG John Dowd

Exxon Chus Katsmpelis

OOPS Dave Bellow

Other VECO Foreman: Paul Reynolds

OGS Mike Acton, Dale Parent

Segment Sub No. Inipol Custom Comments
 sites (gal) (lbs.)

BA-Q2	A	1	-	50	Light remaining oil, scattered o/r amongst flat seaweeds U1Z - low priority reassessmt 1991
FL-Q4	A	1	40	20	Light oil - Residual o/r in sediments & amongst flat granules, U1Z. Area should weather well, not substantial penetration Low priority reassessmt 1991
		2	-	6	
		3	2	1	
		4	-	55	
		5	.5	.25	
		6	6	3	
		7	-	11	
		8	4	2	
		9	9	5	
FL-Q4	B	1	-	25	Same comments as for FL-Q4(A) above
		2	-	20	
		3	60	30	
		4	5	25	
LA-20	C	1	275	250	Heavy oil remains MITZ to U1Z storm berm. Cobble/boulders central, sediments heavy o/r; penetration deep into sediments.

\shorelin\rowann\biorept 8/7/90

- Separat not completed this day; chiral out by weather and tide.
 - Definite work work 1991
 High priority reassessmt

ACE 6976231

ADDEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: _____ (please print)

RE: SEGMENT NUMBER BA02 SUBSEGMENT NUMBER A

ADEC REP Rowann Hudnall USCG REP Dan Fearcy

EXXON REP Frank Boy BOAT NAME/SQUAD NUMBER Don Bollinger
Squad 3

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

See Daily Report / OG Report for details

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

yes. bio reapplication. ADF+G Aimee
weseman approves bio 20ft out from
stream. customblen only.

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

Oiling very light. Patchy coat in UITZ
on slate beach.

Additional Comments (keep objective)

Spawning pinks in stream.

signature Rowann T. Hudnall

Date and time of demobilization from segment 8/27/90

Shoremon\Demob.bio 55/30/90

ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: _____ (please print)

RE: SEGMENT NUMBER BA02 SUBSEGMENT NUMBER A

ADEC REP Rowann Hudnall USCG REP Don Pearcy

EXXON REP Frank Boy BOAT NAME/SQUAD NUMBER Don Bollinger
Squad 3

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
See Daily Report / OG Report for details				

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

yes. bio reapplication. ADF+G Aimee
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Oiling very light. Patchy coat in UITZ
on slate beach.

Additional Comments (keep objective)

Spawning pinks in stream.

signature Rowann T. Hudnall
Date and time of demobilization from segment 8/27/90
Shoremon\Demob.bio 55/30/90

ADEC BIOREMEDIATION DAILY REPORT

DATE: 8/27/90

ADEC Monitor: Rowann Hudnall

TIDES:	TIME:	HEIGHT:	WEATHER: Cloudy <u>Rain</u> Fog Sun
Low	<u>11:31</u>	<u>-0.9</u>	TEMP: 55°F SEA COND: 1 ft chop
High	<u>05:05</u>	<u>12.0</u>	WIND DIR: N-NE-E-SE-S-SW-W-NW
Low	<u>23:58</u>	<u>2.6</u>	WIND SPEED <u>0-15</u> 16-30 30+
High	<u>18:12</u>	<u>11.5</u>	

USCG Dan Percy Exxon Frank Box
 OOPS James Byars Other _____

OGS Dan Mann, John Wardrop

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

Segment	Sub	No. Sites	Inipol (gal)	Custom (lbs.)	Comments
<u>BA02</u>	A	1	0	45	
<u>BP04</u>	A	5	0	200	
<u>CH20</u>	A	3	8	12	
<u>CH01</u>	A	1	0	1.5	
<u>CH02</u>	A	1	0	138	
<u>CH09</u>	A	3	0	210	
<u>CH13</u>	A	2	4.5	6	
<u>CH09</u>	A-S	1	0	182	

\shorelin\rowann\biorept 8/7/90



ADFTG



Quick Oil Assessment - Aug 90 for ASAP team

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BA-002 ASC# 226-40-16451 Location Bathtub cove-Bainbridge

Date 8/12/90 Recorder/Observer Aimee Weseman

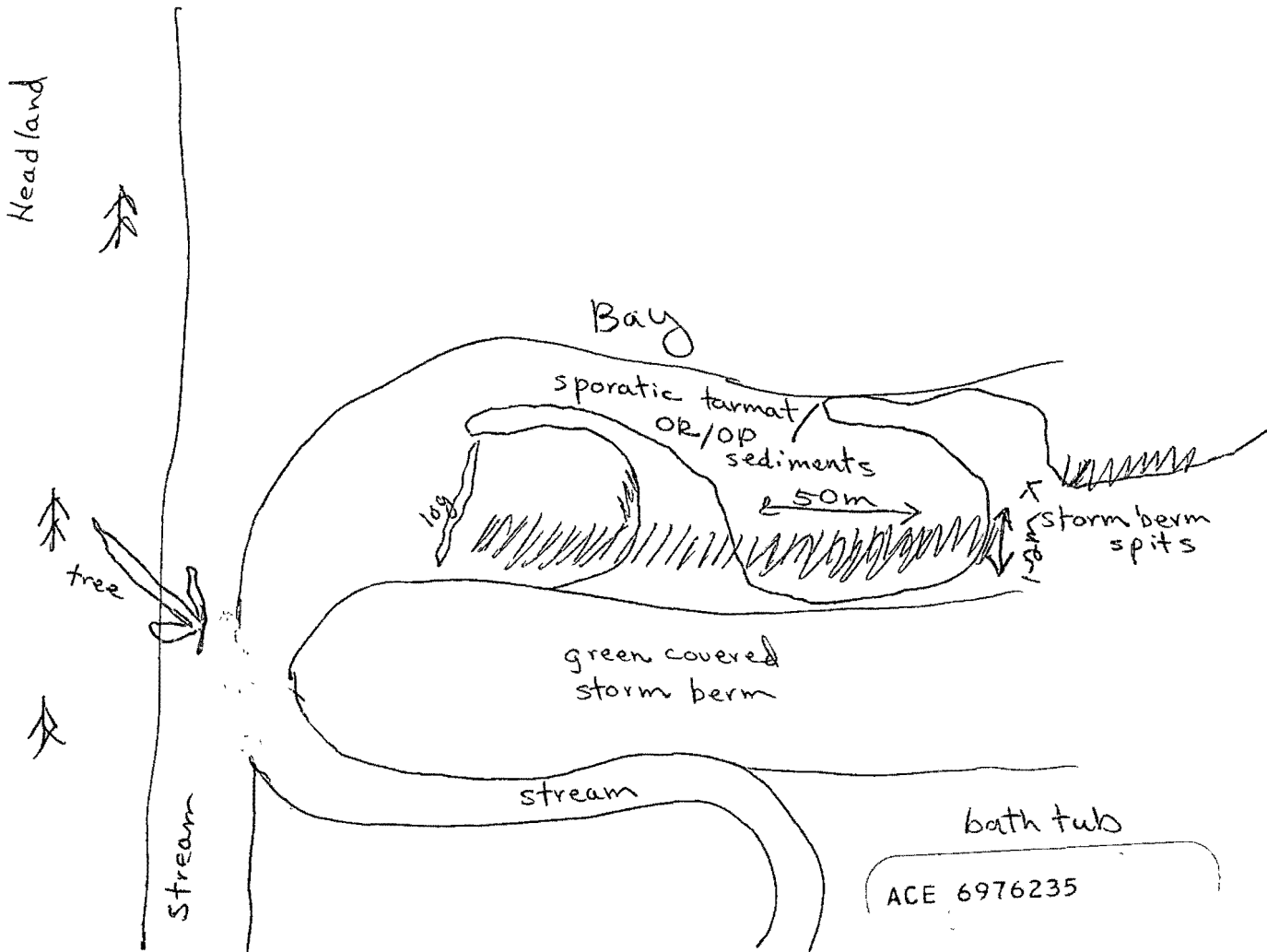
Oil in streambed none sighted Oil on streambanks none sighted

Oil within 50m of mouth yes Anadromous Fish present none in stream, jumpers off the mouth.

Description of oil and comments east side of stream - a 50m long x 1-2m wide band of broken tar mat / OP/OR sediments in th LUTZ

Rec- some manual removal of OP/heavy OR sediments and tar mat followed by tilling & custom blen of remaining oiled sediments.

Oil Distribution Diagram



SEGMENT AS/ BA 2 SUBDIVISION: A SITE: 1 DATE 8/2/90

USCG

NAME MSE Michael D. Brown SIGNATURE Michael D. Brown

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

ADEC

NAME John Hayes SIGNATURE John Hayes

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

North east end of segment has SOR/m with
subsurface OR/m 5-10cm. Recommend reapplication of curbs to areas
identified on sketch map in 1990. OR SS oiling on this segment
did not show signs of appreciable degradation.

LAND MANAGER

NAME DOUGLAS GIBSON SIGNATURE Douglas Gibson

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

NOTE: ARCHAEOLOGICAL CONSTRAINTS
FOR BA 2

EXXON

NAME Martinez N.J. SIGNATURE Nicholas J. Martinez

YES NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

TEAM NO ONE ECTION MARTINEZ E3.0.7.25
 CG Reimer USCG BROWN SUBDIVISION A
 ADEC HAYES LAND REP GIBSON TOTAL NO. SITES 1
 DATE 8/2/90 TIME 12:10-17:50 TIDE LEVEL 5.5 to 6
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 720 m
 SURVEYED FROM: Foot Boat Helo WEATHER: Sun Clouds Fog Rain Snow
 OIL CATEGORY LENGTH: W 6 m M 10 m N 0 m VL 570 m NO 40 m US 375 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.		H M	X	✓		H M	X V	
POOLED								
COVER			✓	X		✓	X	
COAT				X			X	
STAIN								
MOUSSE			I			I		
PATTIES/T.B.				X		X	X	
FILM		X				X	X	
NO OIL					X			X
EST. SITE LENGTH					720			

SITE 2

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								

SITE 3

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

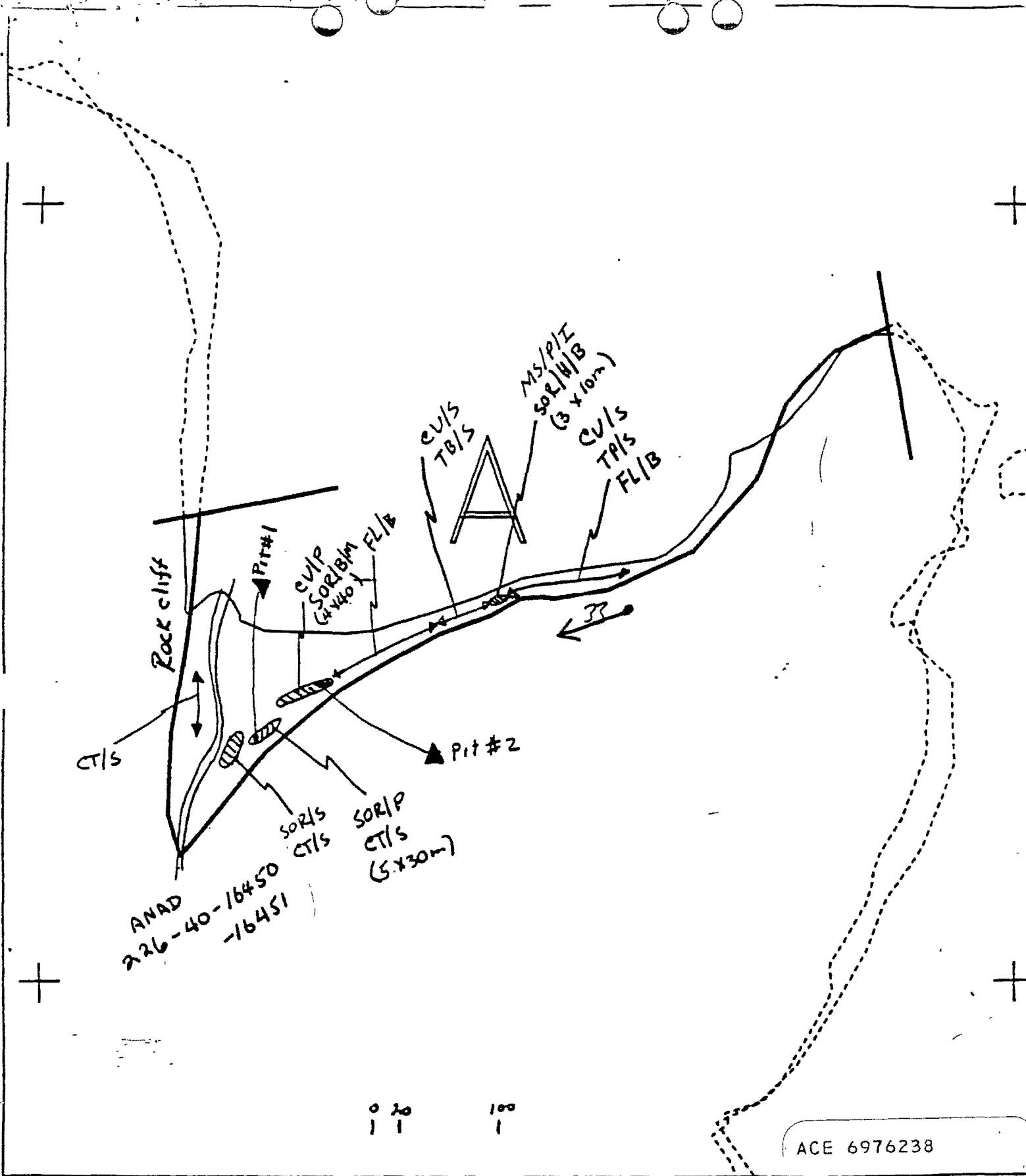
SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER				OILED INTERVAL (cm)	CLEAN BELOW (Y/N)	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS
			OP	OR	OF	NO			SU	UI	MI	LI	
1	1	12		M			5-9	Y		X			P-GP
1	2	15		M			5-10	Y		X			P-GP

Photographs:
 Roll No. ASA-201-2
 Frames 33

"ADF+G OILING SURVEY FOR ASAP"
 SAT
 (DEC)

ACE 6976237

COMMENTS The heaviest oiling conditions are just to the east of the canal stream (226-40-16450) in this site Oiling is predominately SOR remaining after Tarmat removal and CV/CT on cobbles/pobbles associated with Tarmats. The area has been fairly well filled however the heaviest oiling conditions are just to the east of the canal stream.



ACE 6976238

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

BA-2 A
 ADEC Subsegment Length: 1095m
 METERS

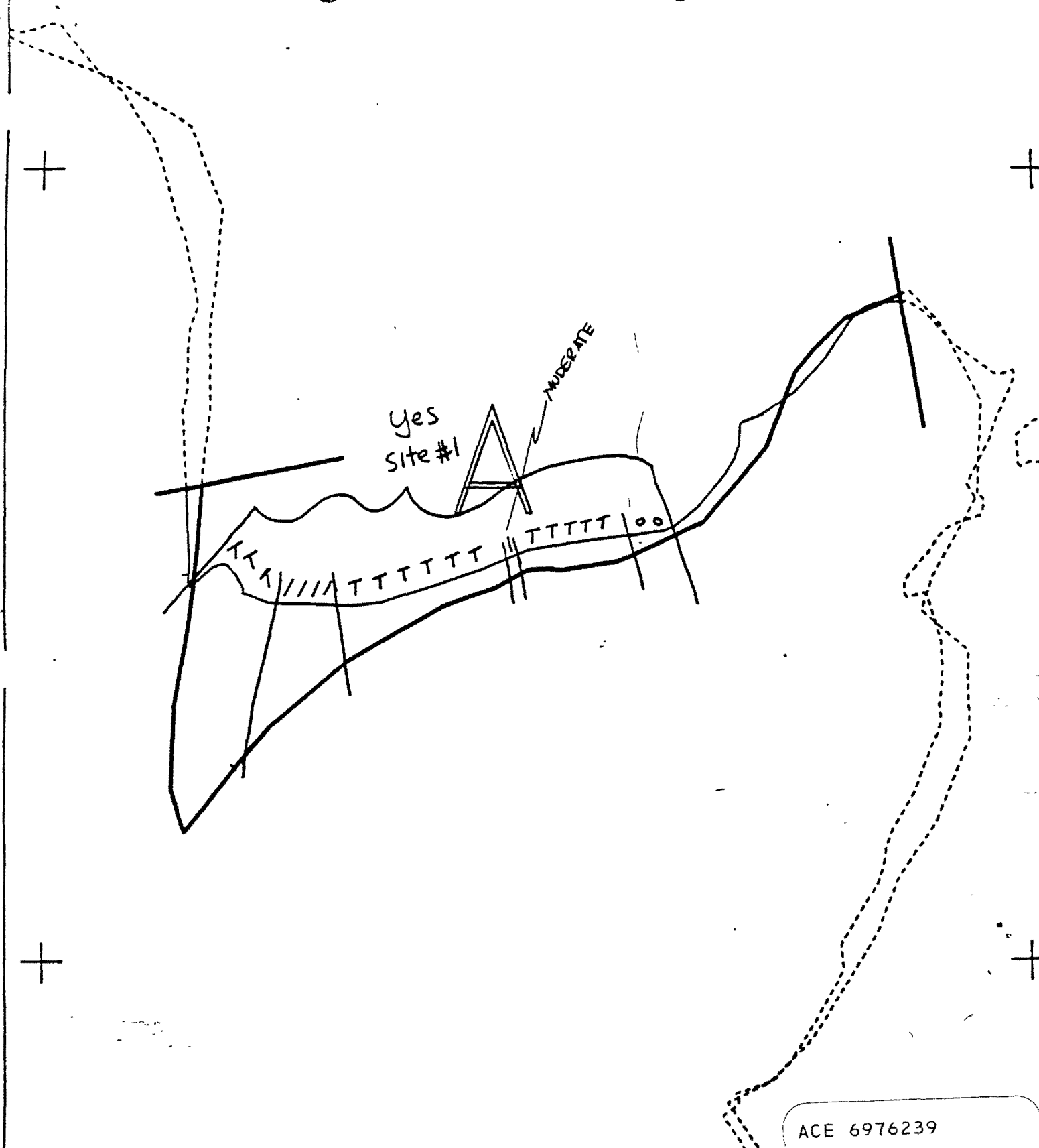


AK State Plane Zone 4 1:4420



Subdivision Field Map
 Map Key: PWSBA-2A
 Name: Reimer
 Date: 8/2/90
 Data Entered:





ACE 6976239

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

BA-2 A

ADEC Subsegment Length: 1095m

METERS

0 112 225

AK State Plane Zone 4 1:4428

Subdivision Field Map

Map Key: PWSBA-2A

Name: Reimer

Date: 8/2/90

Data Entered:



A.S.A.P.

BA 02-a
site 1

August 6, 1990

ADEC recommends the following treatment:

- 1) Manually rake and aerate subsurface oil
- 2) Reapply customblen

ACE 6976240-15

(version 5/02/89)

Work Order

SHORELINE CLEANUP PROGRAM

DATE 7/20/89

SHORELINE SEGMENT BA-2

LOCATION: (see enclosed map) Northeast side of Bainbridge Island,
Prince William Sound, beach west of USGS triangulation station
Pikuk

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/17/89

Recommended Cleanup Activity(ies):

- Manually remove contaminated drift material (fucus), pooled oil and patches of mousse.
- ~~Because the contaminated berm sediments are fine grained, diskling or relocating them into the middle intertidal zone would accelerate natural cleaning. This is an exposed beach in which the sediments would be reworked and redistributed back up the intertidal zone. Do not disturb any sediments near the fish stream. DO NOT RECOMMEND ON THIS SEGMENT.~~
- Use other approved methods as appropriate. ^{DISKING}

Priorities Considerations:

Class 3: moderate oil
Class A: resources present

Ecological Constraints (from site survey):

Work at mid tide + or take appropriate measures to protect lower intertidal zone. Anadromous fish stream (No. 16570 ²⁶⁴⁰ is located within this segment (Anadromous Water Catalog, 2/84). Notify ADF&G and RAT 48 hours prior to beginning any cleanup in this area.

Archeological Constraints (from site survey):

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

Wonglas Peger

State Historic Preservation Officer *

Date: 7/24/89

ISCC: Sharon K. Christopherson

Date: 7/28/89

EXXON: [Signature]

Date: 8-07-89

FOSC: A.C. Ullendorn, by dcr.

Date: 7/28/89

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

ACE 6976241 +15

SC 7/28/89
6 8-07-89

SC 7/28/89
6 8-07-89

SHORELINE OIL EVALUATION

Date: 17 July Time: 1045-1210 hr

Observer: MANN

Surveyed From: Foot/Boat/Helio/Plane

Weather: (Sun) Cloud/Rain/Snow/F.
 hot weather

LOCATION

LOCATION NE side Bainbridge Island SEGMENT NUMBER BA-2

LENGTH OF SHORELINE SEGMENT: 700 m (0.4 mile)

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

SHORELINE:

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

Slope: (LANG)/HANG/VER

Wave Exposure: (High/Med)/Low

Sediment: B 5 % / C 50 % / P 25 % / G 10 % / S 10 % / M 0 % / R <1 %

Drift Debris on Beach: (Yes)/No (Supra/Upper/Mid/Lower) Type logs and esp. seaweed

OIL

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

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

Continuous: (Y)/N % of Segment 70 Width of Band: 5-10 m

Sporadic: (Y)/N % of Segment 30

Est. Oil Thickness where > 1cm: NA cm Est. Oil Penetration: to 30 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 20 % / M 40 % / L 40 %

Fresh 0 % Mousse 20 % Tar Formation: 80 %

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

Comments:

This north-facing pocket beach trapped a large quantity of oil in seaweed debris. Fresh, tar also coats parts of this shoreline's surface. Vertical penetration is slight due to the presence of finer particle sizes at depth except in the case of pebble berms where freshly tanned pebbles and some mousse is buried below 20cm depth.

This is a geomorphologically active site relative to much of the rest of interior PW Sound so that oil, if not removed, will become buried in accumulating sediments.

BA-2

DOCUMENTATION:

Map/Aerial photo marking segment boundaries _____

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) _____

Sample Numbers Collected: _____

ACE 6976243

Plan View of Segment BA-2 ("Pikuk Point")

Note: map foreshortened towards
the east

≈ 20m

N

KEY

bands
of light to moderate (occ. heavy)
coating of fresh tar; penetration
to 10cm; somewhat weathered
at surface

especially heavy coat of
fresh tar (w some marine
mixed w seaweed debris and pebbles
incipient asphalt; penetration to 30cm
in some berms

lightly coated, weathered
tar; occ. penetration
to 5cm in berms

oiled plastic
sheet

rested pi

forest

rye
grass

sand
flat

blue
bathtub

rye gra

rye
grass

forested

waterline at 11 AM 17 July 89

cobble armor

over

beach ridge

beach ridge

stream

beach ridge

forested

cobbles/boulders

sandy pebbles
w shell debris

diffuse tar splattering
on stones

ECOLOGICAL EVALUATION

LOCATION: BAMBRIDGE ISLAND SITE: NE side, PWS OBSERVER: MEYER

LOCATION PREFIX: BA SEG. NO.: 2 LENGTH: 700 (M)

DATE: 07 / 17 / 89 TIME (HHMM): 1045 TIDE HT.: +4 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 Sparse Y/N None Y/N

Fucus sparse and patchy, not in oiled zone.

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

Some patchy beds of mussels, mostly simply scattered in substrate. Not oiled.

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

Scattered throughout pebble/cobble beach - not oiled.

Litterina

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

Some adults in Fucus; tiny Litterina abundant on lower cobble beach.

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

Few Limpets seen.

OTHER OBSERVATIONS: Edgrass bed in subtidal of segment (see Map). Pink Salmon

Spawning Stream (ADFIG site # 16570).

CLEANUP PRECAUTIONS: Notify ADFIG and RAT 48 hours prior to beginning cleanup
in this segment. (Pink Salmon Stream present).

MAMMALS: Otters Harbor Seals Sea Lions Whales

Other Bea Scot in uplands.

BIRDS: Glaucous-winged Gull - 1; Mew Gull - 1; Black-legged Kittiwake - 5

GENERAL OBSERVATIONS: Algae/seaweed not abundant, primarily pebble/cobble beach with

scattered barnacles and patchy sparse Fucus.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 7/17/89 Location Banbridge Island Site _____

Location Prefix BA Segment # BA-2 Length 700m

Survey Method:

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

Ground (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility light to moderate

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

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) CMT

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

Shore Profile flat, small beach

Fresh Water Sources stream

Sea Exposure protected to north

Access/Safety good

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 # _____ Frames _____

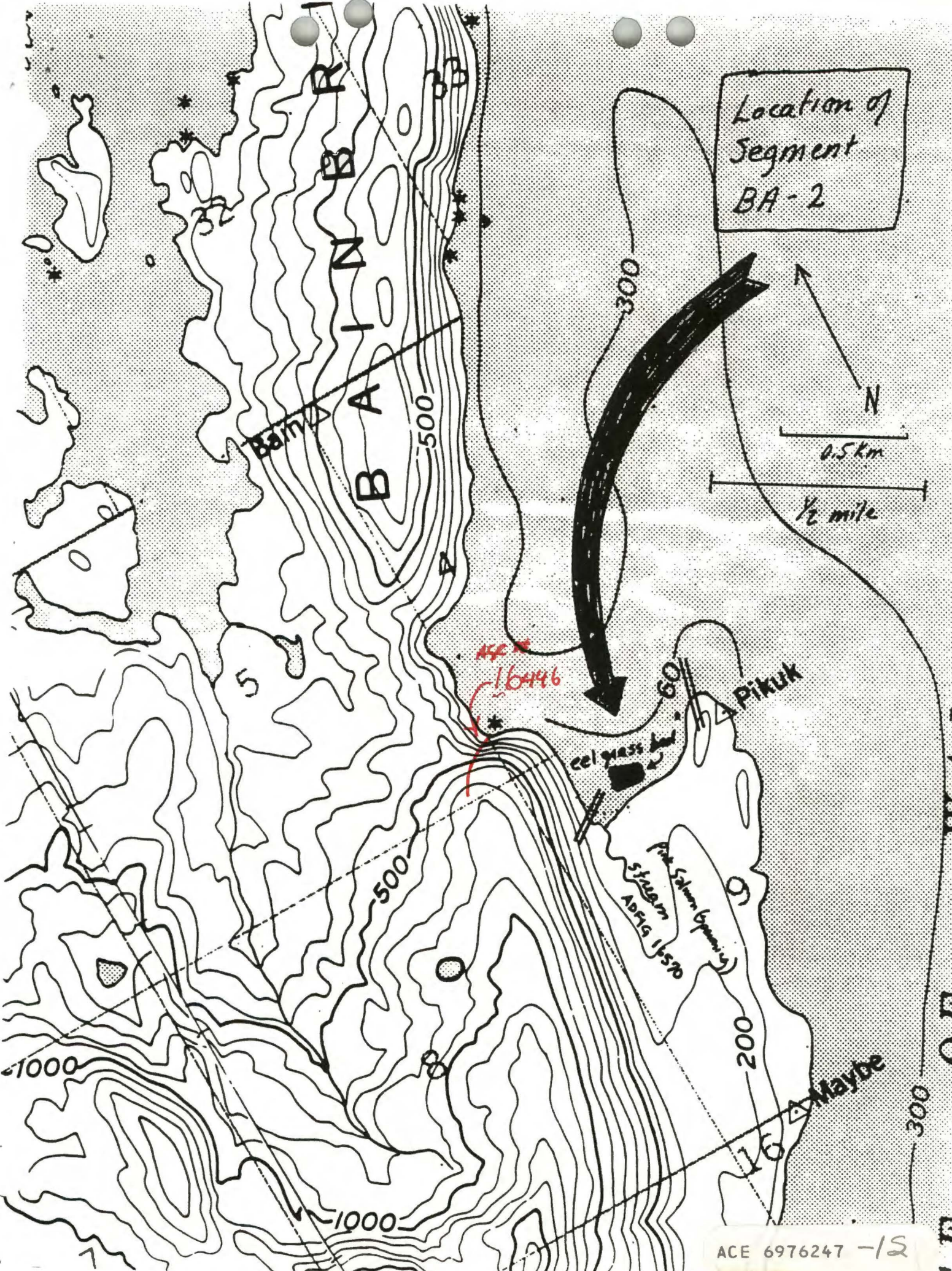
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1000 Time survey ended 1430

Cultural resource considerations/restraints:

standard



Location of
Segment
BA-2

N
0.5 km

1/2 mile

16446

60
Pikuk

Pik Salam (gumiris)
Stasiun Adria (1950)

16 Maybe

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/20/89

SHORELINE SEGMENT BA-2

LOCATION: (see enclosed map) Northeast side of Bainbridge Island,
Prince William Sound, beach west of USGS triangulation station
Pikuk

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/17/89

Recommended Cleanup Activity(ies):

- Manually remove contaminated drift material (fucus), pooled oil and patches of mousse.
- Because the contaminated berm sediments are fine grained, disking or relocating them into the middle intertidal zone would accelerate natural cleaning. This is an exposed beach in which the sediments would be reworked and redistributed back up the intertidal zone. Do not disturb any sediments near the fish stream.
- Use other approved methods as appropriate.

Priorities Considerations:

Class 3: moderate oil
Class A: resources present

Ecological Constraints (from site survey):

Work at mid tide + or take appropriate measures to protect lower intertidal zone. Anadromous fish stream No. 16570 is located within this segment (Anadromous Water Catalog, 2/84). Notify ADF&G and RAT 48 hours prior to beginning any cleanup in this area.

Archeological Constraints (from site survey):

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

W Douglas Rege

State Historic Preservation Officer *

Date: 7/24/89

ISCC: _____

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 6976248 +HS

SHORELINE OIL EVALUATION

Date: 17 July Time: 1045-1210 hr

Observer: MANN

Surveyed From: Foot/Boat/Helio/Plane

Weather: (Sun) Cloud/Rain/Snow/F
hot weather

LOCATION

LOCATION NE side Bainbridge Island SEGMENT NUMBER BA-2

LENGTH OF SHORELINE SEGMENT: 700 m (0.4 mile)

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

SHORELINE:

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

Slope: (LANG/HANG/VER)

Wave Exposure: (High/Med/Low)

Sediment: B 5 % / C 50 % / P 25 % / G 10 % / S 10 % / M 0 % / R < 1 %

Drift Debris on Beach: (Yes/No) (Supra/Upper/Mid/Lower) Type logs and esp. seaweed

OIL

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

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

Continuous: (Y/N) % of Segment 70 Width of Band: 5-10

Sporadic: (Y/N) % of Segment 30

Est. Oil Thickness where > 1cm: NA cm Est. Oil Penetration: to 30 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 20 % / M 40 % / L 40 %

Fresh 0 % Mousse 20 % Tar Formation: 80 %

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

Comments:

This north-facing pocket beach trapped a large quantity of oil in seaweed debris. Fresh, tar also coats parts of this shoreline's surface. Vertical penetration is slight due to the presence of finer particle sizes at depth except in the case of pebble berms where freshly tanned pebbles and some mousse is buried below 20cm depth.

This is a geomorphologically active site relative to much of the rest of interior PW sound so that oil, if not removed, will become buried in accumulating sediments.

BA-2

DOCUMENTATION:

Map/Aerial photo marking segment boundaries _____

VTR: Y/N **Tape Number(s)** _____

Photography: **Roll Number(s)** _____

Sample Numbers Collected: _____

ACE 6976250

Plan View of Segment BA-2
("Pikuk Point")

Note: map foreshortened towards
the east

≈ 20m

N

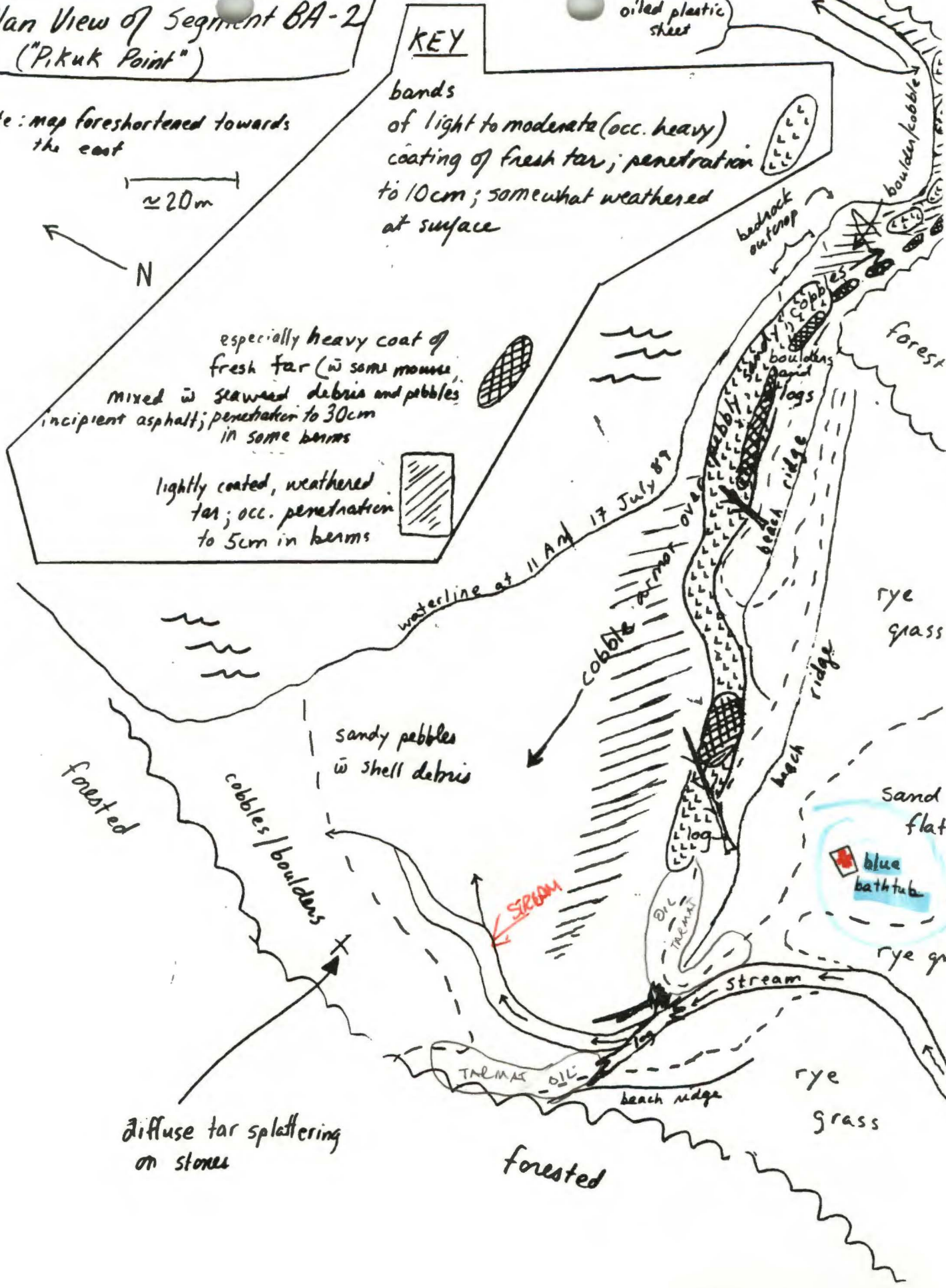
KEY

bands
of light to moderate (occ. heavy)
coating of fresh tar; penetration
to 10cm; somewhat weathered
at surface

especially heavy coat of
fresh tar (w some mosses
mixed w seaweed debris and pebbles
incipient asphalt; penetration to 30cm
in some berms

lightly coated, weathered
tar; occ. penetration
to 5cm in berms

oiled plastic
sheet



ECOLOGICAL EVALUATION

LOCATION: BAMBRIDGE ISLAND SITE: NE side, PWS OBSERVER: MEYER
 LOCATION PREFIX: BA SEG. NO.: 2 LENGTH: 700 (M)
 DATE: 07 / 17 / 89 TIME (HHMM): 1045 TIDE HT.: +4 FT (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rock Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

Fucus sparse and patchy, not in oiled zone.

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

Some patchy beds of mussels, mostly simply scattered in substrate. Not oiled.

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

Scattered throughout pebble/cobble beach - not oiled.

Littorina

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

Some adults in Fucus; many Littorina abundant on lower cobble beach.

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

Few Limpets seen.

OTHER OBSERVATIONS: Eelgrass bed in subtidal of segment (see Map). Pink Salmon

Spawning Stream (ADFIG site # 16570).

CLEANUP PRECAUTIONS: Notify ADFIG and RAT 48 hours prior to beginning cleanup
in this segment (Pink Salmon Stream present).

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
 Other Beaver Scat in uplands.

BIRDS: Glaucous-winged Gull - 1; Mew Gull - 1; Black-legged Kittiwake - 5

GENERAL OBSERVATIONS: Algae/seaweed not abundant, primarily pebble/cobble beach with
scattered barnacles and patchy sparse Fucus.

CULTURAL RESOURCE EVALUATION

Date 7/17/89 Location Bainbridge Island Site _____

Location Prefix BA Segment # BA-2 Length 700m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRs #) None Data Source None

Oil conditions/beach visibility light to moderate

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

Cultural resources observed in beach zone (AHRs code) None

Cultural resources observed in tree fringe (AHRs code) CMT

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

Shore Profile flat, broad beach

Fresh Water Sources stream

Sea Exposure protected to north

Access/Safety good

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 # _____ Frames _____

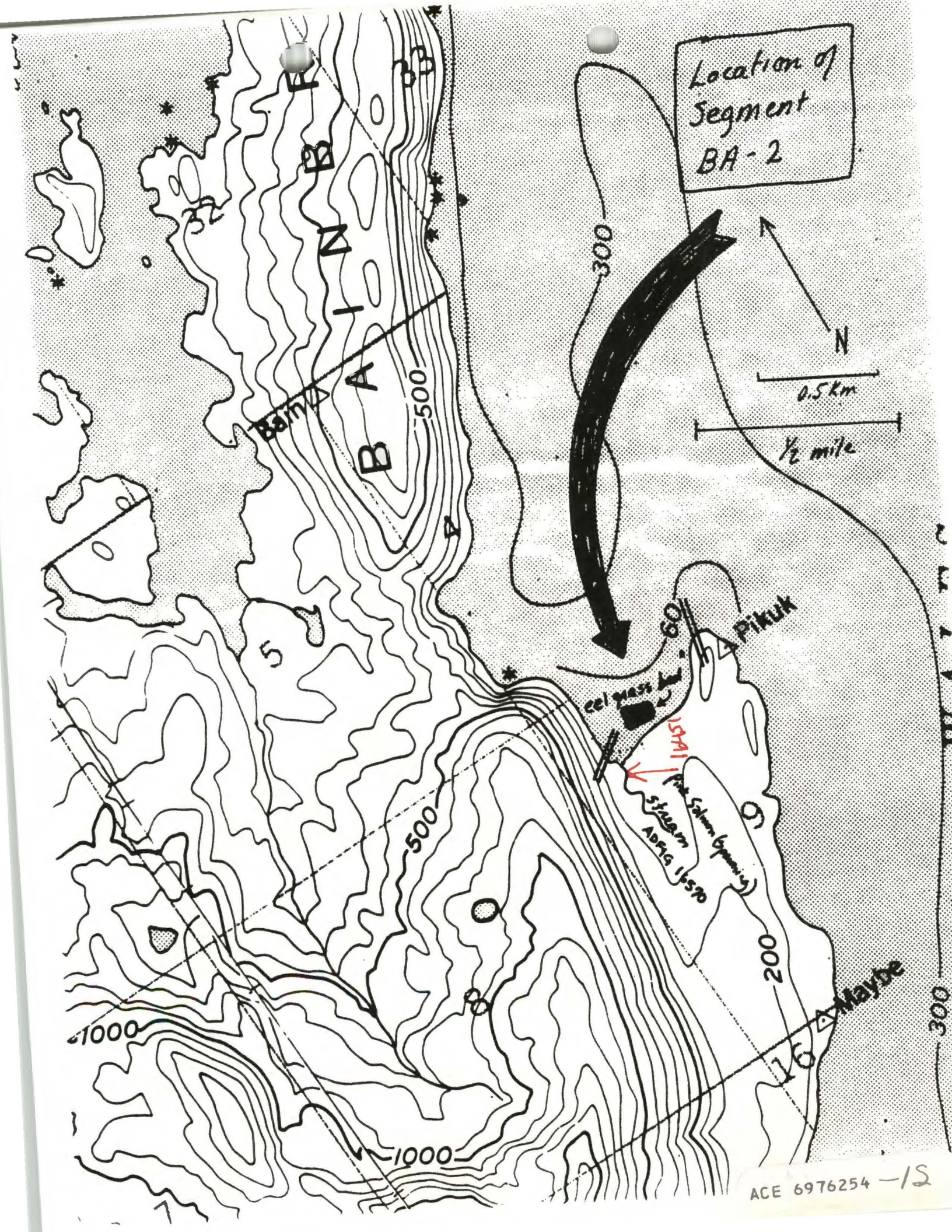
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1000 Time survey ended 1430

Cultural resource considerations/restraints:

standard



Location of Segment BA-2

N
0.5 km

1/2 mile

ceel mass
Pikuk

15741
Stream Aorta (1959)
Pik Salam (banyan)

200
16
Maybe

ADDEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMBIEN

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

RE: SEGMENT NUMBER BAOZ SUBSEGMENT NUMBER A

DEC REP JAN KRIEGER USCG REP Jim DAVIS

EXXON REP DARYL YOE BOAT NAME/SQUAD NUMBER M/V CORINTHIAN SQUAD # 1

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, INCLUDING APPLICATION OF BIOREMEDIATION (IN THE FORM OF CUSTOMBIEN)

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

NO

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

UNDER THE NEOS TARMAT WAS REMOVED (CUSTOMBIEN WAS APPLIED) THERE IS SOME RESIDUAL OF/OR OIL IN THE SURFACE LAYER (TOP 2-4 CM'S) LOCATED THROUGHOUT THE WITZ.



Additional Comments (keep objective)

BOTH THE ANAD STREAM # 226-40-16451 & THE REST OF SEGMENT BAOZA WERE TREATED ACCORDING TO THEIR INDIVIDUAL TAG REPORTS & DEMOVED TOGETHER.

signature Jan Krieger
Date and time of demobilization from segment 06/23/90 22:00
Shoremon\55 5-12-90

Aimee Weseman
ADF&G Oil Spill Response
M/V Corinthian, PWS

June 23, 1990

Re: Stream Report
ASC# 226-40-16451, Seg. BA-02, Bainbridge I.

This stream received treatment on June 22nd and 23rd, 1990. On the morning of June 22nd, I accompanied Darryl Yoes Exxon, Larry Smith OOPS, Rick Reaner Archeologist, Jan Krieger DEC, Barbara Winkley DEC and Jim Davis USCG in a pre-assessment of the oiling conditions of the stream. The site appeared to have already received some tarmat removal. We later learned that the BA-02 segment had been worked and signed off on May 5, 1990, however significant amounts of oil remained.

A crew of 10 began treatment, the manual removal of oiled sediments, at 1445. The majority of the oil was located in a tarmat band running the length of the upper-intertidal zone on the east side of the stream. Much of it was just below 1-2 inches of clean gravel. A few tar patties were located in the same zone on the west side of the stream. The crews worked until 1815 having removed 7 supersacks of oiled gravel and .75 supersacks of oily material. The USCG stopped treatment at one point contending that some of the oil was subsurface and not addressed on the workplan. Work continued once the agency reps. discussed the situation and agreed upon further removal. By the end of the day, we estimated the job to be 75% complete.

June 23, 1990

Work was in progress on the stream whne I arrived at 0800. A crew of 10 worked the stream area until 1200. After lunch 8 of them moved down the segment, off of the stream portion. Two workers remained with me on the stream area and continued working until 1500. At that time, several more workers returned to assist me after I discovered a 7ftx2ftx3" oil lense, 6-8 inches below clean material. This area was close to the stream. The USCG was somewhat reluctant to allow this removal but finally agreed. Manual removal on the whole segment was completed by 1530. Four additional supersacks of oiled gravel were removed bringing the total to 11 supersacks.

The application of Custonblen, not originally called for on the workplan was agreed upon for an area approximately 35mx 2m on the east side of the stream, where some residual oil remains. Fourteen pounds was applied to this area and raked over.

Work was completed on the stream and the rest of the segment by 1530 and I am satisfied with the results. In the evening, the same agency reps. as mentioned earlier returned to the site and agreed upon demobilization.

Aimee Weseman ACE 6976256

Aimee Weseman

U

WORK PLAN MODIFICATION RECOMMENDATION

SEGMENT: BA-2

SUBDIVISION: A
(Anad Stream #226-40-16451)

DATED: 5/15/90

MODIFICATION CLASS I CLASS II _____ CLASS III _____

1. REASON FOR MODIFICATION:

Current addendum does not specify bioremediation of subsegment.

2. SUGGESTED ADJUSTMENT TO WORK PLAN:

Some oiled sediments remain below surface of cobble in an isolated area approx 100 meters east of the stream bed following tarmat removal. Application of Customblen fertilizer is recommended to this isolated area.

3. TIMING ISSUES:

Customblen applied to isolated area specified above on June 23, 1990.

ADEC [Signature]

EXXON [Signature] 6-23-90

USCG [Signature]

LAND MANAGER _____ (If field rep is on scene)

AOE of C Rimco Wessman

ACE 6976257

STATE OF ALASKA

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date June 22 1990

EXXON Authorized Representative M.D. Yoes

Shoreline Segment Ba-02

Anadromous Fish Stream Number(s) 226-40-16451

Approved Cleanup Techniques Manual Removal of oiled
sediments as specified in the ANADScat Stream
work order approved by the FOSC.

Approved Cleanup Period 5/15/90 - 7/10/90

Alaska Department of Fish and Game

Aimee Weseman
Authorized Officer

M.D. Yoes
Permittee's Signature

ACE 6976258

WORK PLAN MODIFICATION RECOMMENDATION

SEGMENT: BA-2

SUBDIVISION: A
(Anad Stream #226-40-16451)

DATED: 5/15/90

MODIFICATION CLASS I CLASS II _____ CLASS III _____

1. REASON FOR MODIFICATION:

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ADEC [Signature]

EXXON [Signature] 6-23-90

USCG JAMES B. DAVIS JR

LAND MANAGER _____ (If field rep is on scene)

AOE of Renee Wexman

will enter (Dec)
cite for.

ACE 6976271 +/S

Aimee Weseman
ADF&G Oil Spill Response
M/V Corinthian, PWS

June 23, 1990

Re: Stream Report
ASC# 226-40-16451, Seg. BA-02, Bainbridge I.

This stream received treatment on June 22nd and 23rd, 1990. On the morning of June 22nd, I accompanied Darryl Yoes Exxon, Larry Smith OOPS, Rick Reaner Archeologist, Jan Krieger DEC, Barbara Winkley DEC and Jim Davis USCG in a pre-assessment of the oiling conditions of the stream. The site appeared to have already received some tarmat removal. We later learned that the BA-02 segment had been worked and signed off on May 5, 1990, however significant amounts of oil remained.

A crew of 10 began treatment, the manual removal of oiled sediments, at 1445. The majority of the oil was located in a tarmat band running the length of the upper-intertidal zone on the east side of the stream. Much of it was just below 1-2 inches of clean gravel. A few tar patties were located in the same zone on the west side of the stream. The crews worked until 1815 having removed 7 supersacks of oiled gravel and .75 supersacks of oily material. The USCG stopped treatment at one point contending that some of the oil was subsurface and not addressed on the workplan. Work continued once the agency reps. discussed the situation and agreed upon further removal. By the end of the day, we estimated the job to be 75% complete.

June 23, 1990

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Aimee Weseman

ACE 6976272



June 23, 1990
Corinthian
A.Weseman, T.Crowe, R.Gustin
ADFG Monitors
PWS

ALASKA DEPT. OF
FISH & GAME

JUN 25 1990

REGION II
HABITAT DIVISION

Anadromous streams cleaned or being cleaned

ASC#226-40-16451 BA002A Bathtub Cove A.Weseman
Complete.

ASC# none EV012 Evans Is. T.Crowe
Complete.

ASC#226-40-16640 EV014 Evans Is. T.Crowe
Complete.

ASC#226-30-16865 KN135A Bay of Isles Knight R.Gustin
Complete.

KN26 Beach Segment Storm berm relocation test R.Gustin\T.Crowe
Observation and video documentation.

A.Weseman No trouble encountered, crew did an excellent job and
it is complete.

T.Crowe No trouble encountered at EV012, EV014 missed a small
area of tarmat on the south east side, but the creek was cleaned
well.

R.Gustin No trouble encountered, customblen was applied, and the
area to be inipoled was delineated.

R.Gustin\T.Crowe observed the storm berm relocation crew at the
first test site on KN26. It was successful in digging down to
depth below maximum oil penetration.

Corexit test went off as planned, hard to say what propaganda
will come of it. The corexit does loosen the oil but a good job
with high pressure Landa unit or steam generator would do the
same without the concerns regarding toxicity, recovery etc.
They were not able to recover all the oil washed off the rock.
Oil got past there boom and absorbant. Sheens were in the water.
I don't see that any tremendous valid scientific statement was
made regarding Corexit's use. There are other methods to clean
cliff faces and large rock that are less toxic and more
effective.

STATE OF ALASKA

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date June 22 1990

EXXON Authorized Representative M.D. Yoes

Shoreline Segment Ba-02

Anadromous Fish Stream Number(s) 226-40-16451

Approved Cleanup Techniques Manual Removal of oiled sediments as specified in the ANADScat stream work order approved by the FOSC.

Approved Cleanup Period 5/15/90 - 7/10/90

Alaska Department of Fish and Game

Aimee Weseman
Authorized Officer

M.D. Yoes
Permittee's Signature

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 BA 002 SUBDIVISION: 16451 DATE 4/23/90

USCG
NAME CUB McMAHON SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

1. MANUAL REMOVAL ASPHALT
LEFT SIDE (LOOKING ONSHORE)

~~ADEC~~
ADEC
NAME NO TEAM MEMBER SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

SOME PATTIES MAY BE FOUND ON RIGHT SIDE IN UPPER INTER-TIDAL ZONE. IF FOUND, THEY SHOULD BE REMOVED.

LAND MANAGER
NAME NO TEAM MEMBER SIGNATURE _____

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

ACF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90

15 HIGH TIDE TIMES: 0021 11257

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1545

16 HIGH TIDE HTS: 11.5' 110.5'

22 OBSERVERS: T. CROWE

5 STOP TIME: 1610

17 LOW TIDE TIMES: 0648 11855

23 AGENCY: ADFG

6 SEGMENT #: BA-002

18 LOW TIDE HTS: -0.8' 10.5'

24 PHOTOS TAKEN: Y (N)

7 STATION #: 226-40-16451

19 TIDE HT AT SURVEY: 5.35'

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: _____

28 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: EAST SIDE, BAINBRIDGE I.

Sediment _____

14 DESCRIPTION: BATHING COVE

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	200		2	200	3		41

36 CATALOGED ANAD. FISH SREAM? (Y) N

28 SURFACE THICKNESS	5cm	5cm	3cm				
29 PENETRATION	10cm	10cm	5cm				

37 CATALOG #: 226-40-16451

38 STREAM NAME: _____

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

39 OIL IN STREAM BED? Y (N)

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

40 OIL ON STREAM BANKS? (Y) N

32 OILED DEBRIS? Y (N)

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

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

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

Where: _____

34 WAVE EXPOSURE: High (Moderate) Low

43 ANADROMOUS FISH PRESENT? (Y) N
FRY PRESUMED

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 50
Gravel 50 Sand _____ Mud/silt _____

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

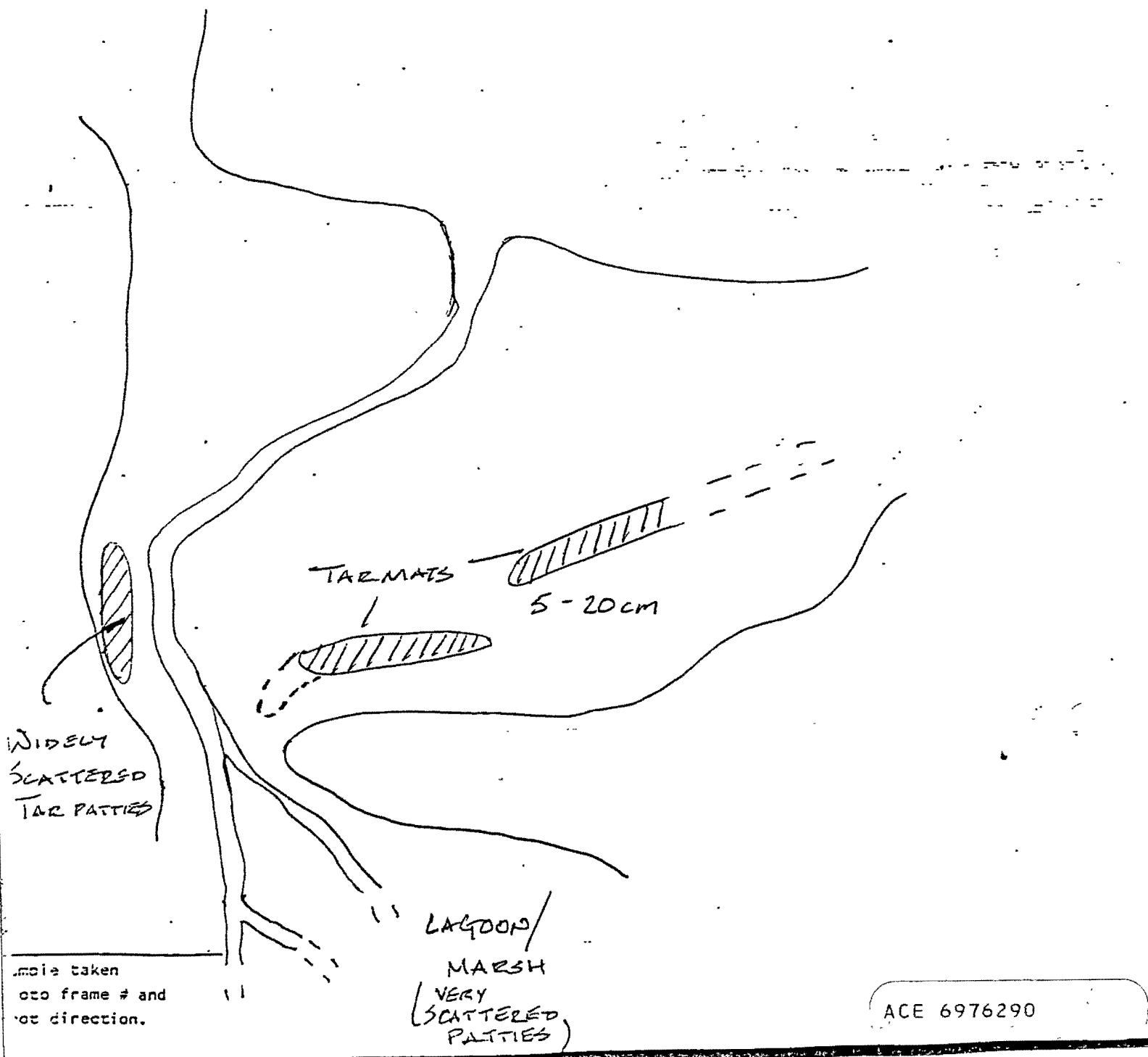
COMMENTS: SHALEY GRAVEL & COBBLE INTERTIDAL ZONE

SURFACE BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL.

VERY SCATTERED PATCHES IN LAGOON/MARSH AREA UPSTREAM OF STORM BERM.

NAME(S)	DESCRIPTION
	RECOMMENDATIONS: MANUAL REMOVAL OF TAR MATS
	& agrees with recommendation. M. H. Fawcett

46 OIL DISTRIBUTION DIAGRAM



SHORELINE OILING SUMMARY (ANAD.)

REVISION NO 04/1

OG WILLIAM REID USCG McMAHON SEGMENT ST/ BA002 3/53
 BIO MICHAEL FAWCETT LAND REP TOM CROWE ADFG STREAM 22640-16451 OF
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 15:45 to 16:15
 TEAM NO. 15 TIDE LEVEL 5.5 FT DATE 23 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m Sun Clouds Fog Rain Snow
 UPLANDS DESCRIPTION: Grass Forest Rock
 SURVEYED FROM: Foot Boat Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 30 % P 60 % G 10 % S 0 % M 0 % V 0
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: Low Med High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 45 m VL 0 m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR							IMPACTED ZONES			
	TC	FB	FP	FS	SB	DB	GB	GB	DB	TL	LR	SU	U	M	L
ASPHALT PAVEMENT	X								X				X		
POOLED															
COVER															
COAT															
STAIN															
MOUSSE															
PATTIES		X							X			X	X		
TARBALLS															
FILM															
NO OIL															

PAVEMENT H S 60 sq. m by 5
 PATTIES / TARBALLS _____ BAG
 NEAR SHORE SHEEN? NO BR RW SL TL

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

Did you COLLECT DEBRIS
 YES NO
 TYPE _____
 #BAGS _____

Photographs:
 Roll No. _____
 Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM INTERVAL)	BELOW		OIL / FILM COLOR							PIT ZONE				A N A	SHEEN (Y/N)	DEPTH (cm)	SURFACE SUBSURFACE SEDIMENT		
		OP	OR	OL	OF	NO		UO	UC	SB	DB	GB	GB	DB	TL	LR	SU	U	M	L						
1	40					X	.									X							N			P/C/G
2	40					X	.										X						N			P/C/G
3	35					X	.										X						N	20		P/C/G
4	35					X	.									X							N			P/G/C
5	60					X	.									X							N			P/G/C

COMMENTS

45: NO OIL LAYER, 1 GOLF BALL SIZE TAIL BALL FOUND

REVIEWED _____ DATE _____

ACE 6976291

OG WILLIAM REID

SEGMENT ST/ BA002

STREAM 226-A0-16451

DATE 23, APR 90

CHECKLIST

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

LEGEND

1 Δ

Pit - No Subsurface Oil

2 ▲

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

lll

Oiled Vegetation

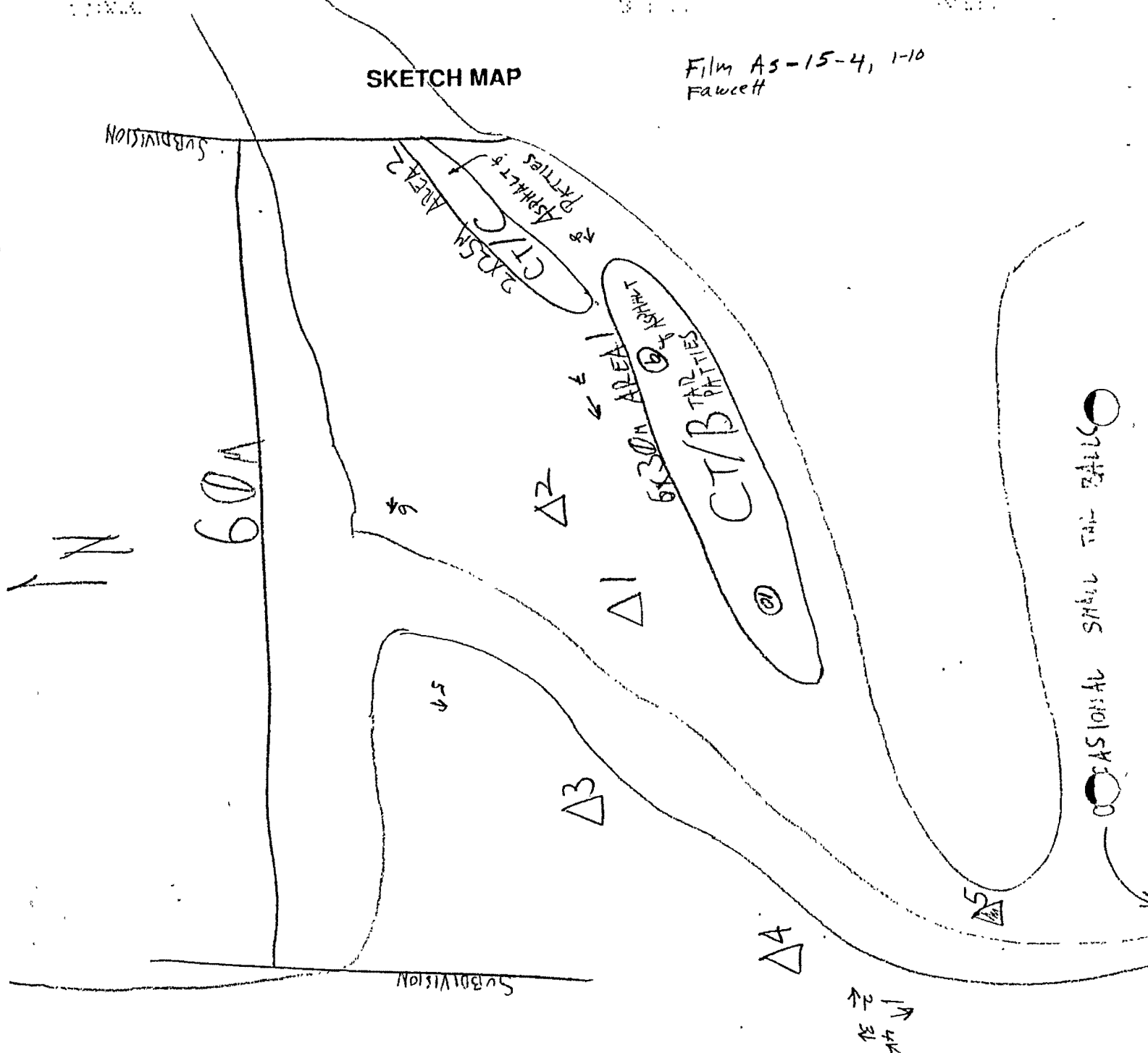
1 →

Photo location, direction, and number

⊙ = closeup photo

SKETCH MAP

Film A5-15-4, 1-10
Fawcett



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

ACE 6976292

41/53

SSAT DATA ENTRY FORM

GENERAL DATA

SEG ID: BA002 ²²⁶⁻⁴⁰⁻SUBDIV: 16451 TEAM: A5-15 SURVEY DATE: 4/23/90
 PAVEMENT: CHAR F AREA 60 THICKNESS 5 TARBALLS 0
 OILED: LGS SM VEG SM TRH - DBR - WAVE EXP: LW - MD X HG -
 FAX RCVD: _____ DT: _____ AGENCY DISAGREE: _____
 EST SUBDIV LGTH: 60 OIL CATEGORY: W 0 M 0 N 45 VL 0 NO 15 U 0

SURFACE DATA

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

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

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

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

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

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

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

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

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

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: BA002 SUBDIV: 226-40-16451

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 40 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 # 3 PIT DEPTH 35 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 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 # 5 PIT DEPTH 60 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

PROBLEMS:

Segment BA002

4/23/90

Stream 226-40-16451

Michael Fawcett

Ecological Summary

The intertidal portion of this stream meanders through a grassy flat before reaching the cobble/pebble/gravel beach. A healthy Fucus-barnacle community exists on scattered cobbles around the stream mouth, becoming more dense toward each end of the cove as the sediments become more stable. Main siltling consists of a band of tar mats in UTZ. No ecological constraints re: intertidal biota. One bald eagle sighted, flying by.

M Fawcett

Sport Fish Survey - Spring 89

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

NAME: Prince of Wales Passage

USGS MAP: Seaward A-7

MAP #:

DATE: 4/17

TIME OF SURVEY: 17:00

LOW TIDE +1.4 TIME 15:26

COLLECTORS: DR SM

NO OIL
SHEEN
MOUSSE
BLACK OIL

OIL TYPES PRESENT (1 2 3 4)

PHOTO #: 29 + 30 R.H. =

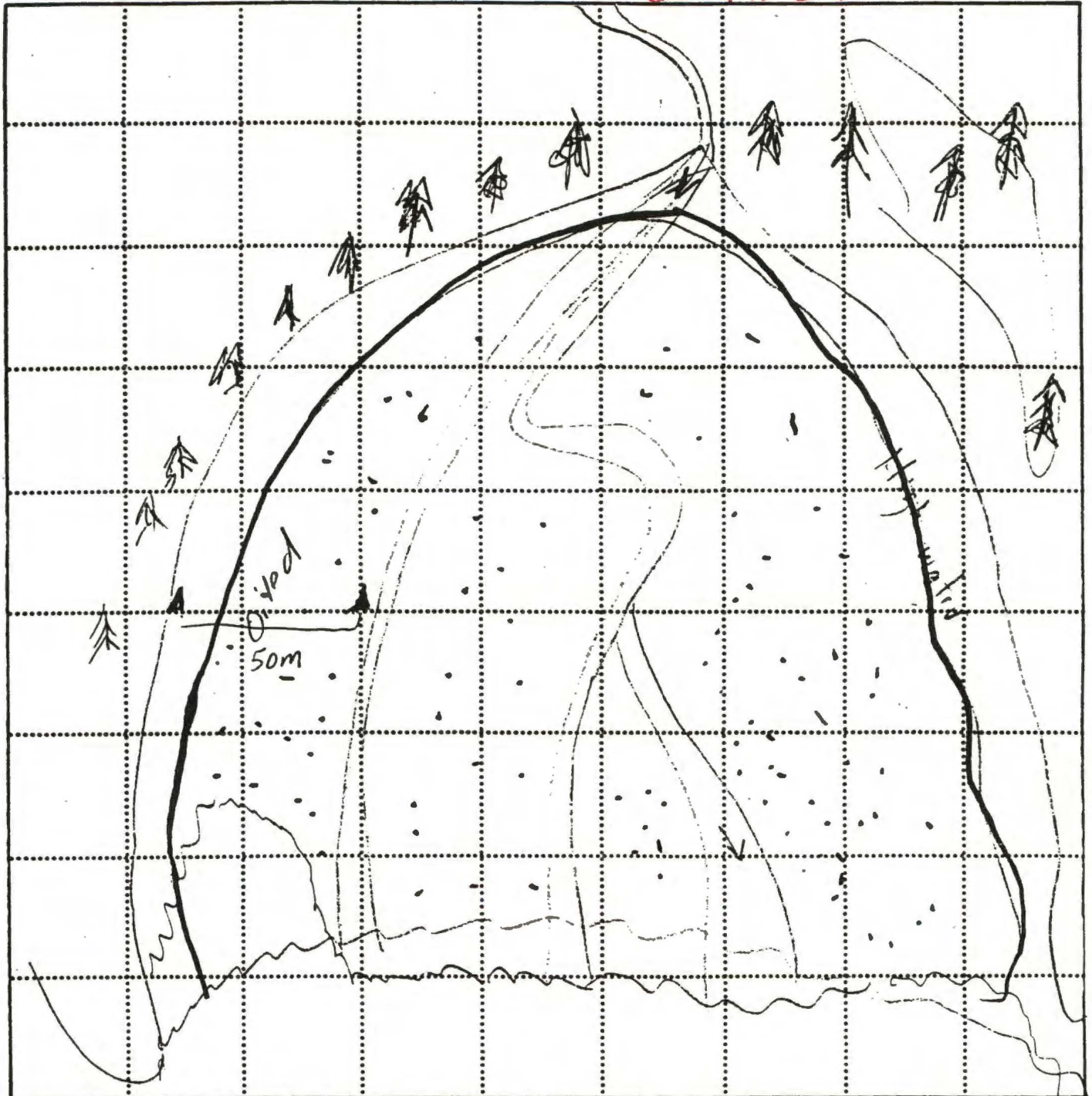
STREAM CATALOG #: 16570

SCALE: ONE GRID EQUALS

NOV 16451

BA002

BATH TUB COVE



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

COMMENTS: 100's of dead shrimp 4-5 min long
thick black band of oil ringing tidal area

ACE 6976296

ADF&G MULTI-ASSESSMENT DATA FORM

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. Hunter
 4 START TIME: 1035 16 HIGH TIDE HTS: 1 22 OBSERVERS: 1
 5 STOP TIME: 1040 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG HAB
 6 SEGMENT #: BA002 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: Bainbridge Is. Sediment: _____
 14 DESCRIPTION: Duck Inlet 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 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 #: 206-40-16544 16451 ATW
 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 banks
 43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

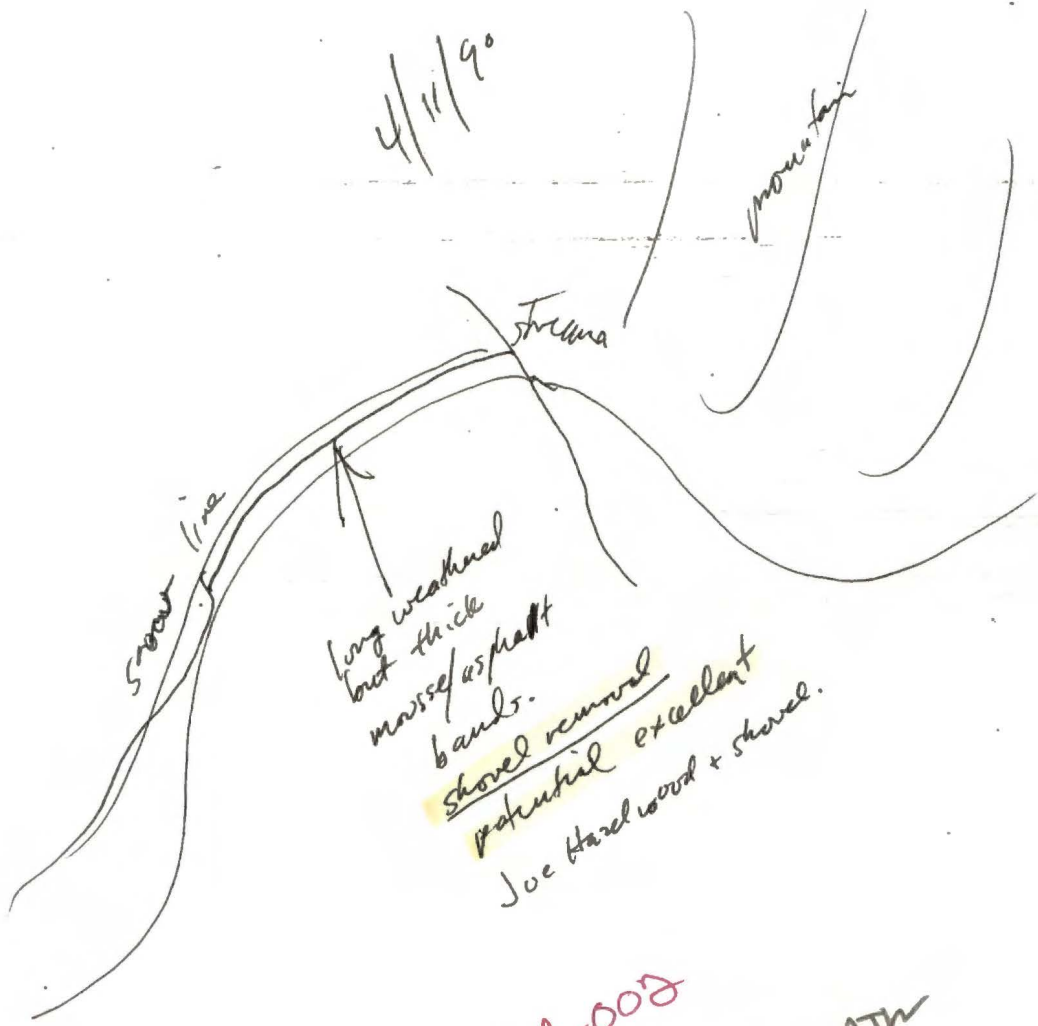
Recommend for analysis

COMMENTS: bands of asphalt 3-4" thick some penetration 2-4" in gravel
bands are broken - 3-4 feet wide some still some covered
60-70 meters long near + crossing salmon stream
Mostly the oil is located in upper intertidal zone

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



BA-002
 226-40-1645/ AJW

Sample taken
 Photo frame # and
 shot direction.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BA-02 STREAM NO: 226-40-16451 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two catalogued streams in BA-02: 226-40-16451, 226-40-16450.

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

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

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

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 in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

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

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats and pickup of tarballs/patties as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraint.

TAG COMMENTS:

TAG APPROVAL DATE: 5/7/90

ADEC Art Wornick

EXXON Amy Tetz

NOAA Gary Petros

USCG G.A. BEITER

FOSC: W L DATE: 5-15-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BA-02 STREAM NO: 226-40-16451 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two catalogued streams in BA-02: 226-40-16451, 226-40-16450.

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

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

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

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 in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

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

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats and pickup of tarballs/patties as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraint.

TAG COMMENTS:

TAG APPROVAL DATE: 5/7/90.
ADEC Art Weimer
EXXON Amy Tetz
NOAA Gary Petrac
USCG G.A. Reiter

FOSC: W L DATE: 5-15-90

335.00 WILLIAM REID
SEGMENT ST/ BA002

STREAM 226-AD-16451

DATE 23 / APR 00

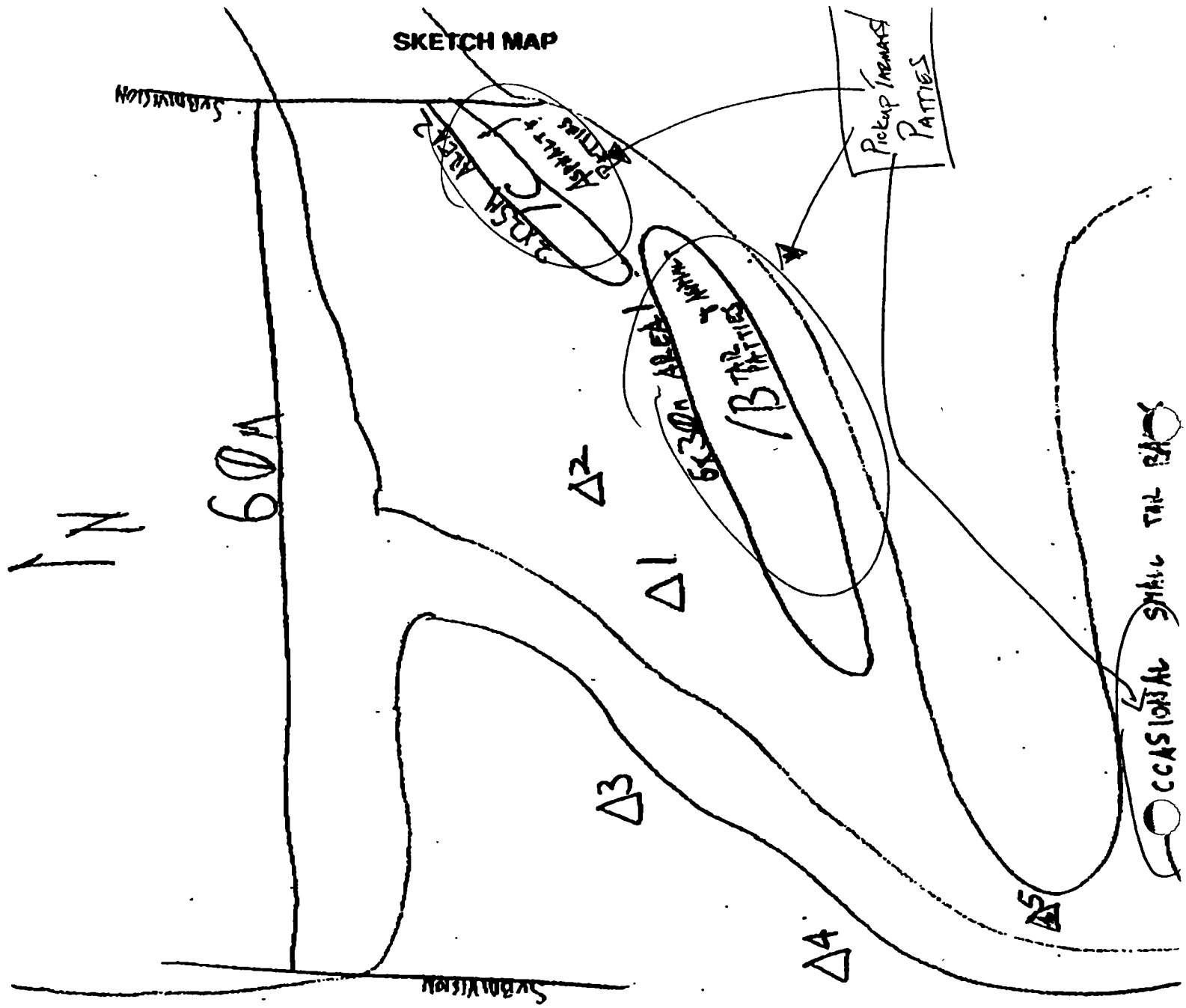
CHECKLIST

- N Area
- Approx. Scale
- Day/Date Study
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. HYDRAUL
- SFL
- Profile Location(s)
- Profile(s)
- PI Location(s)
- Photo Location(s)

LEGEND

- 1 Δ
PI - No Substrate Oil
- 2 Δ
PI - Substrate Oil
- CT/C
Complete Distribution
- CT/B
Broken Distribution
- CT/P
Patchy Distribution
- CT/S
Spotted Distribution
- lll
Clad Vegetation
- 1 00
Photo location, direction, and number

SKETCH MAP



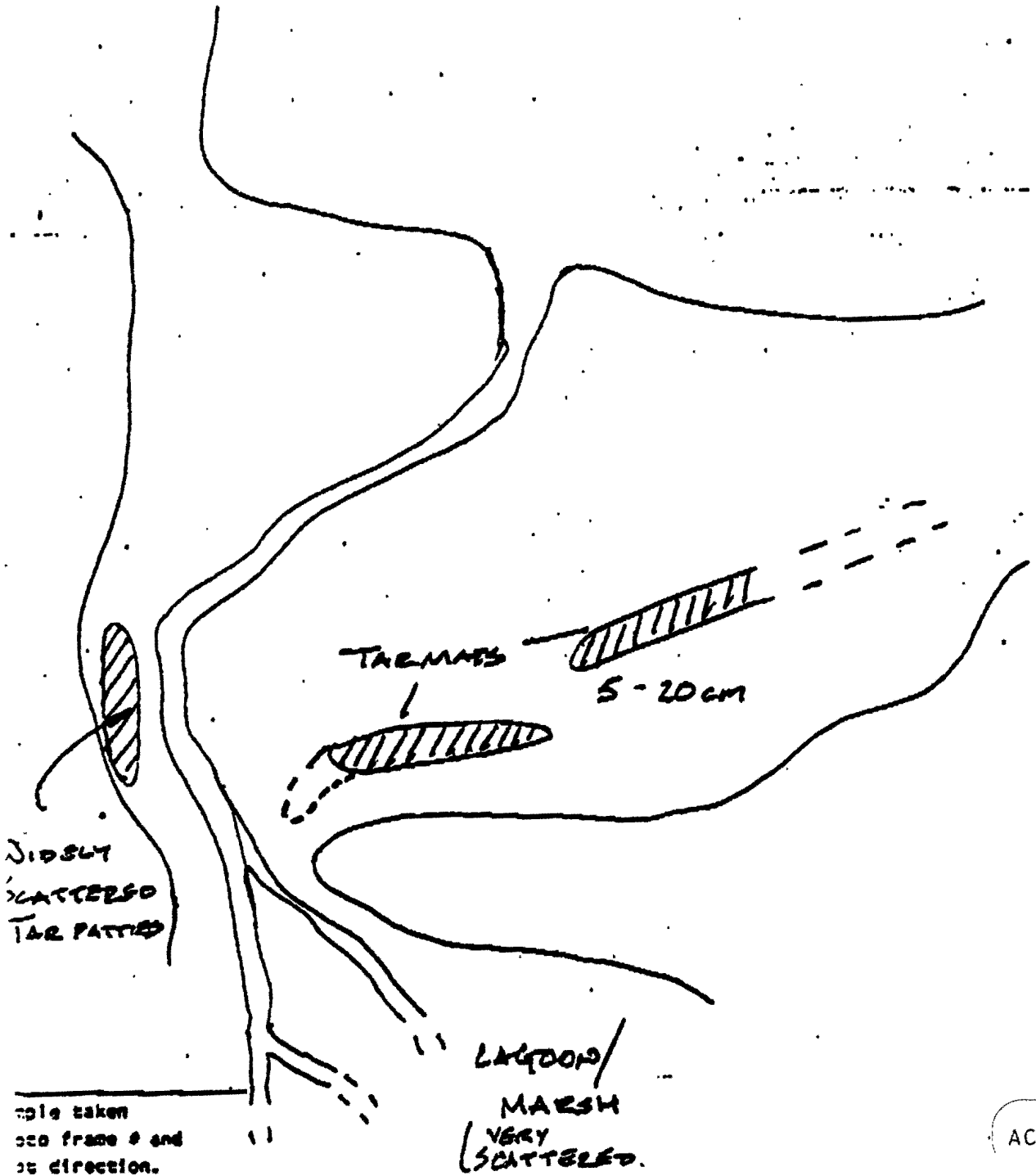
ACE 6976301

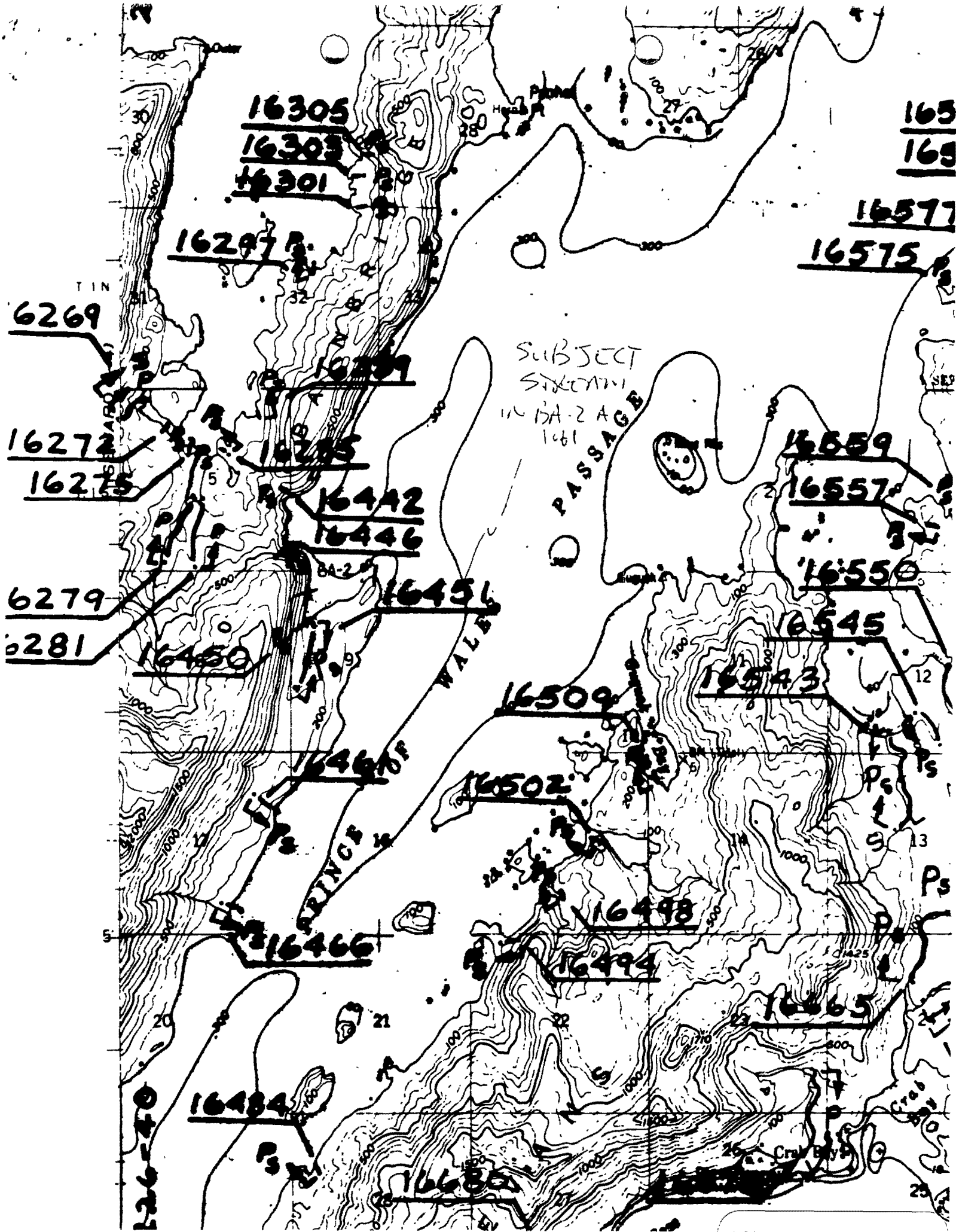
Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT _____ TB _____ FL _____ NO _____

REVISION 000000

DATE(S)	DESCRIPTION
	RECOMMENDATIONS: MANUAL REMOVAL OF TAR MATS
	I agree with recommendation. M. H. Fournier

48 OIL DISTRIBUTION DIAGRAM





SUBJECT
SECTION
IN BA-2 AGE
1461

*Processed
5/7/90
MK*

RECEIVED
MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: BA-02

STREAM NO: 226-40-16451

concur

ACE 6976304 *+15*

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BA-02 STREAM NO: 226-40-16451 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Two catalogued streams in BA-02: 226-40-16451, 226-40-16450.

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
- 1B Salmon stream mouth - spawning (7/10 to 8/31)
- 6U Recreation: Tent sites (6/1 to 9/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of tarmats and pickup of tarballs/patties as indicated on sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraint.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

- ADEC _____
- EXXON _____
- NOAA _____
- USCG _____

FOSC: _____ DATE: _____

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

Salmon stream mouth - fry outmigration (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 Suzomoto 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 unrolled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

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

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

3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)

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

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2206

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

FIELD SHORELINE COMMENT SHEET

RSS

SEGMENT ST 1 BA 002 SUBDIVISION: 16451 DATE 4/23/90

USCG NAME CMD McMAHON SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED

COMMENTS

1. MANUAL REMOVAL ASPHALT
LEFT SIDE / LOOKING OUTSIDE

ADFC
ADEC NAME NO TREAT MEMBER SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED

COMMENTS

SOME PATTIES MAY BE FOUND ON RIGHT SIDE IN UPPER INTER-TIDAL ZONE. IF FOUND, THEY SHOULD BE REMOVED.

LAND MANAGER NAME NO TREAT MEMBER SIGNATURE _____

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED

COMMENTS

ACE 6976307

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO.

OG WILLIAM LEIN USCG McMAHON SEGMENT ST/ BA002 3/5
 BIO MICHAEL FAWCETT LAND REP TOM CROVE ADEG STRIP 22640-1645 L OF
 EXXON GUS GARCIA ADPG MIKE WIEDNER TIME 15:45 to 16:15
 TEAM NO. 15 TIDE LEVEL 5.5 FT DATE 23 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m Sun Clouds Fog Rain Snow
 UPLANDS DESCRIPTION: Grass Forest Rock
 SURVEYED FROM: Foot Boat Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 30 % P 60 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: Low Med Hi
 OIL CATEGORY LENGTH: W 0 m M 0 m N 2.5 m VL 0 m NO 1.2

SURFACE OIL

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

PAVEMENT H (F) S 60 sq. m by 5

PATTIES / TARBALLS 1

NEAR SHORE SHEEN? BR RW SL

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

Did you Co 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	ANA	SHEEN (Y/N)	SURF SUBSUR SEDIME
		OP	OR	OL	OF	NO			SW	SE	NE	NW					
1	40					X	.						X		N		P/C
2	40					X	.						X		N		P/C
3	35					X	.						X		N	20	P/C
4	35					X	.						X		N		P/GH
5	60					X	.						X		N		P/GH

COMMENTS

Δ5: NO OIL LAYER, 1 GOLF BALL SIZE TAIL BALL FOUND

REVIEWED JW DATE 4-25

ACE 6976308

3515
 OG WILLIAM REID
 SEGMENT ST/ BA002
 STREAM 226-40-16451
 DATE 23 / APR 00

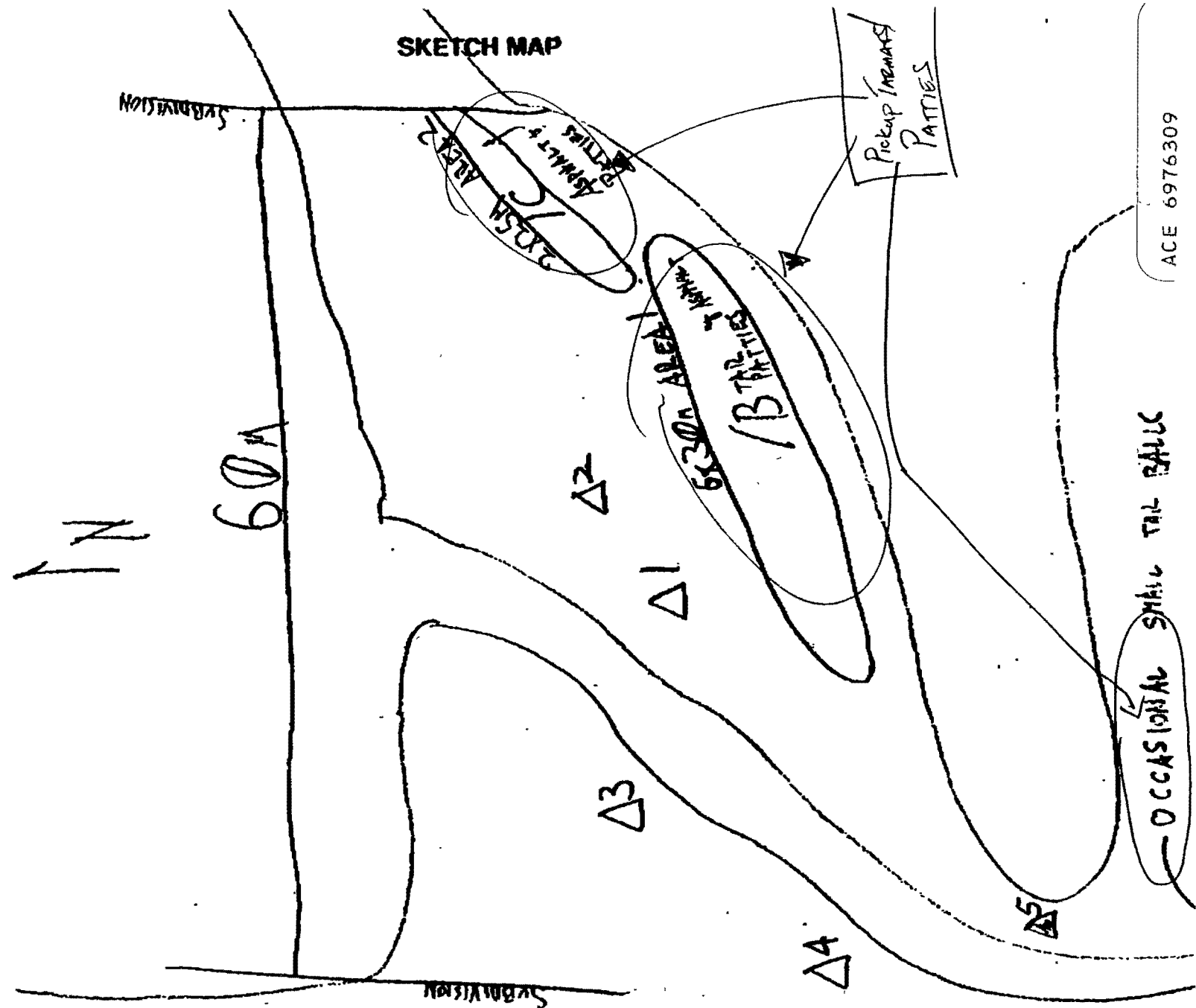
CHECKLIST

- N Area
- Approx. Scale
- Seg/Sub Entry
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. HW/LWL
- SWL
- Profile Location(s)
- Profile(s)
- FR Location(s)
- Photo Location(s)

LEGEND

- 1 Δ
- FR - No Subsurface Oil
- 2 Δ
- FR - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/D
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Spashed Distribution
- lll
- Clad Vegetation
- 1 →
- Photo location, direction, and number

SKETCH MAP



ACE 6976309

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

REVISION:00000

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS SS OS TS AVS SCM HOAS PTA 2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90 18 HIGH TIDE TIMES: 0021 11257 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1545 19 HIGH TIDE HTS: 11.5' 10.5' 22 OBSERVERS: T. CROWE

5 STOP TIME: 1610 17 LOW TIDE TIMES: 0649 11855 23 AGENCY: ADFG

6 SEGMENT #: BA-002 16 LOW TIDE HTS: -0.8' 10.5' 24 PHOTOS TAKEN: Y (N)

7 STATION #: 226-40-16451 19 TIDE HT AT SURVEY: 5.35' Roll #: _____ Frames: _____

8 K-UNIT: _____ (Ebb) Stack Flood Stack 25 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: _____ 20 USCG QUAD: _____ Starts: _____ Ends: _____

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

12 SOURCE: Map Loran Oil _____

13 LOCATION: EAST SIDE, BAINBRIDGE I. Sediment _____

14 DESCRIPTION: BURNING COVE Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	N	H ²	S	L	N	H ²	S
27 SURFACE COVERAGE	100	200		2	200	3		<1
28 SURFACE THICKNESS	5cm	5cm	3cm					
29 PENETRATION	10cm	10cm	5cm					

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

31 OIL TYPE: Pealed House (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 Beulder Cobble 50
Gravel 50 Sand Med/silt

36 CATALOGED ANAD. FISH SKELET (Y) N

37 CATALOG #: 226-40-16451

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
FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

GENERAL: SHALEY GRAVEL & COBBLE INTERTIDAL ZONE
GREEN BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE
EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL.
VERY SCATTERED PATCHES IN LAGOON/MARSH AND UPSTREAM OF
STORM BERM.

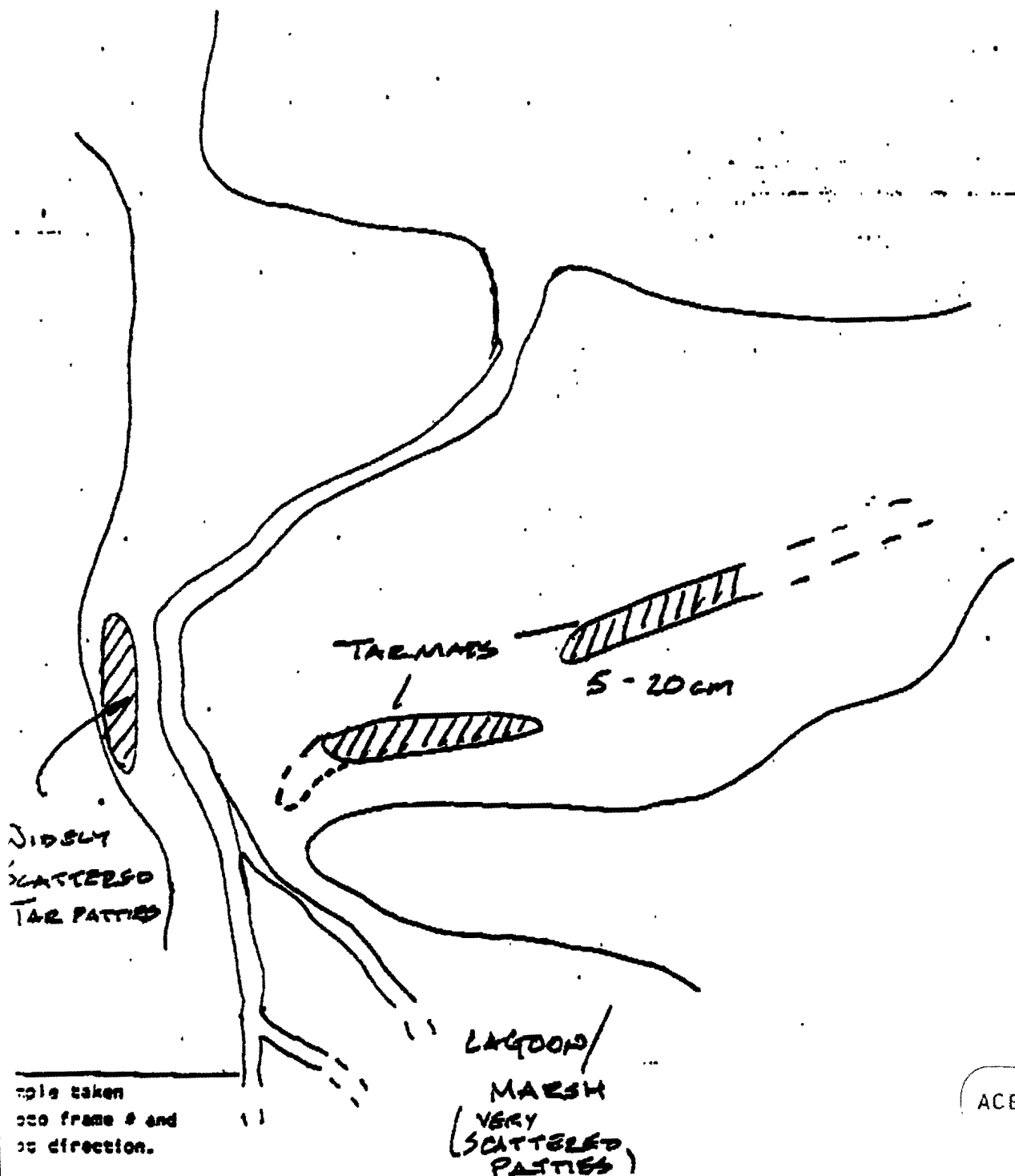
NAME(S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF
TAR MATS

I agree with recommendation. M. H. Fournier

48 OIL DISTRIBUTION DIAGRAM



role taken
oco frame 8 and
oc direction.

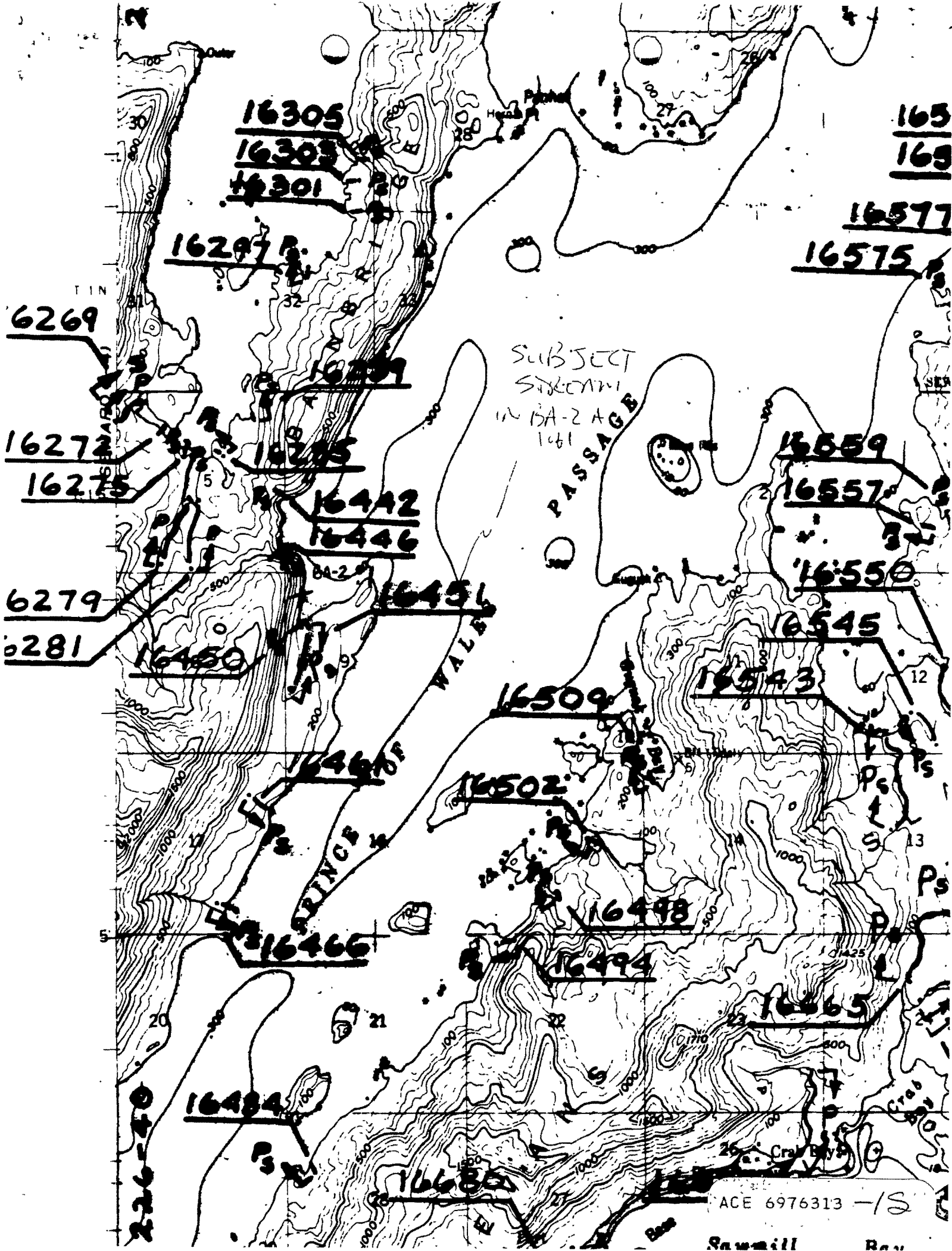
ACE 6976311

Segment BA002
Stream 226-40-16451
Ecological Summary

4/23/90
Michael Fawcett

The intertidal portion of this stream meanders through a grassy flat before reaching the cobble/pebble/gravel beach. A healthy Fucus-barnacle community exists on scattered cobbles around the stream mouth, becoming more dense toward each end of the cove as the sediments become more stable. Main siltling consists of a band of tar mats in UTZ. No ecological constraints re: intertidal biota. One bald eagle sighted, flying by.

M Fawcett



16305
16303
16301

165
169

16577

16575

16297 P.

TIN
6269

SUBJECT
STREAM
IN BA-2 A
141

PASSAGE

16272

16275

16442
16446

16559

16557

16550

6279

6281

16450

16456

16545

16543

16509

16502

16460 F

16460 F

16460 F

16460 F

16466

16498

16494

16565

16484

16680

ACE 6976313 -18

Summit

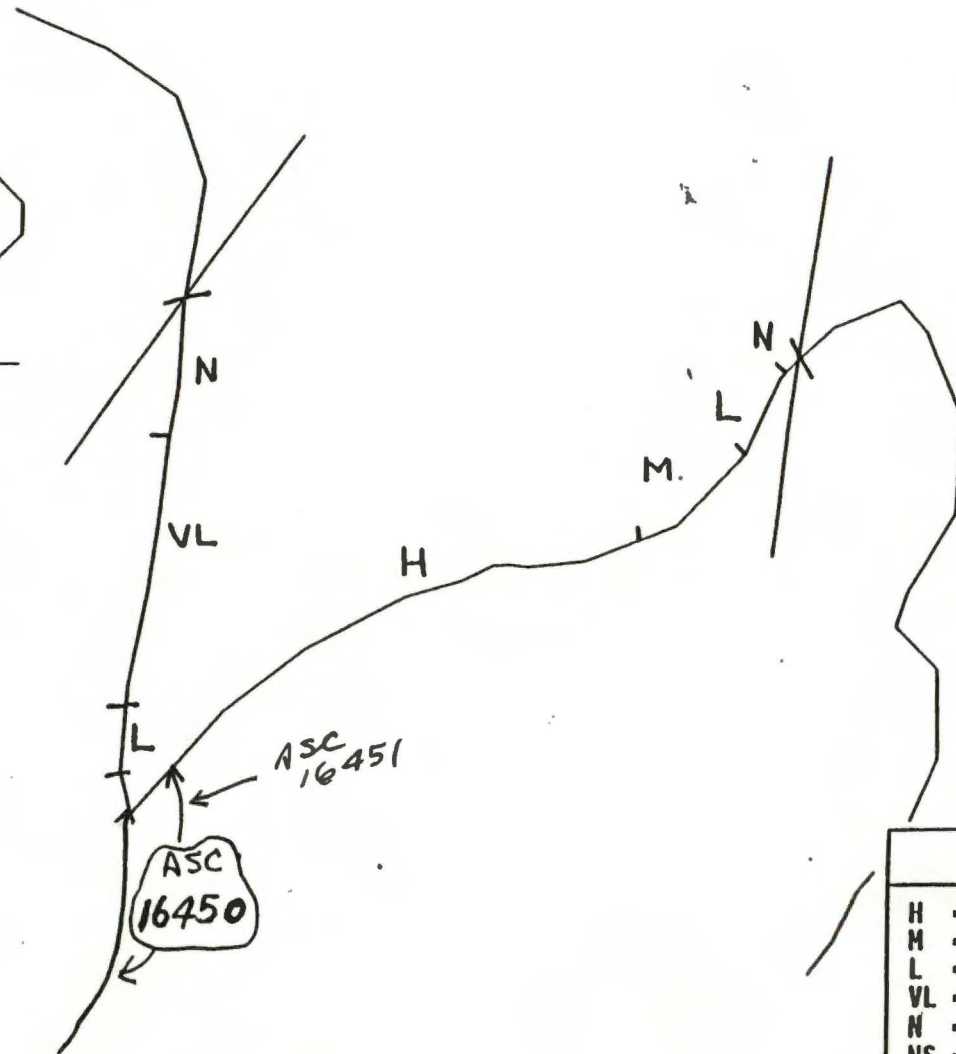
Run

Oiling from car
master list

Heavy oiling

BA002

500.0



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



AD 16 - Sport/com fish survey - Spring 89

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

NAME: Prince of Wales Passage

USGS MAP: Seward A-3

MAP #:

DATE: 4/17

TIME OF SURVEY: 1740

LOW TIDE +1.4 TIME 18:26

COLLECTORS: DR SM

ASC# 226-40-16451

NO OIL
SHEEN
MOUSSE
BLACK OIL

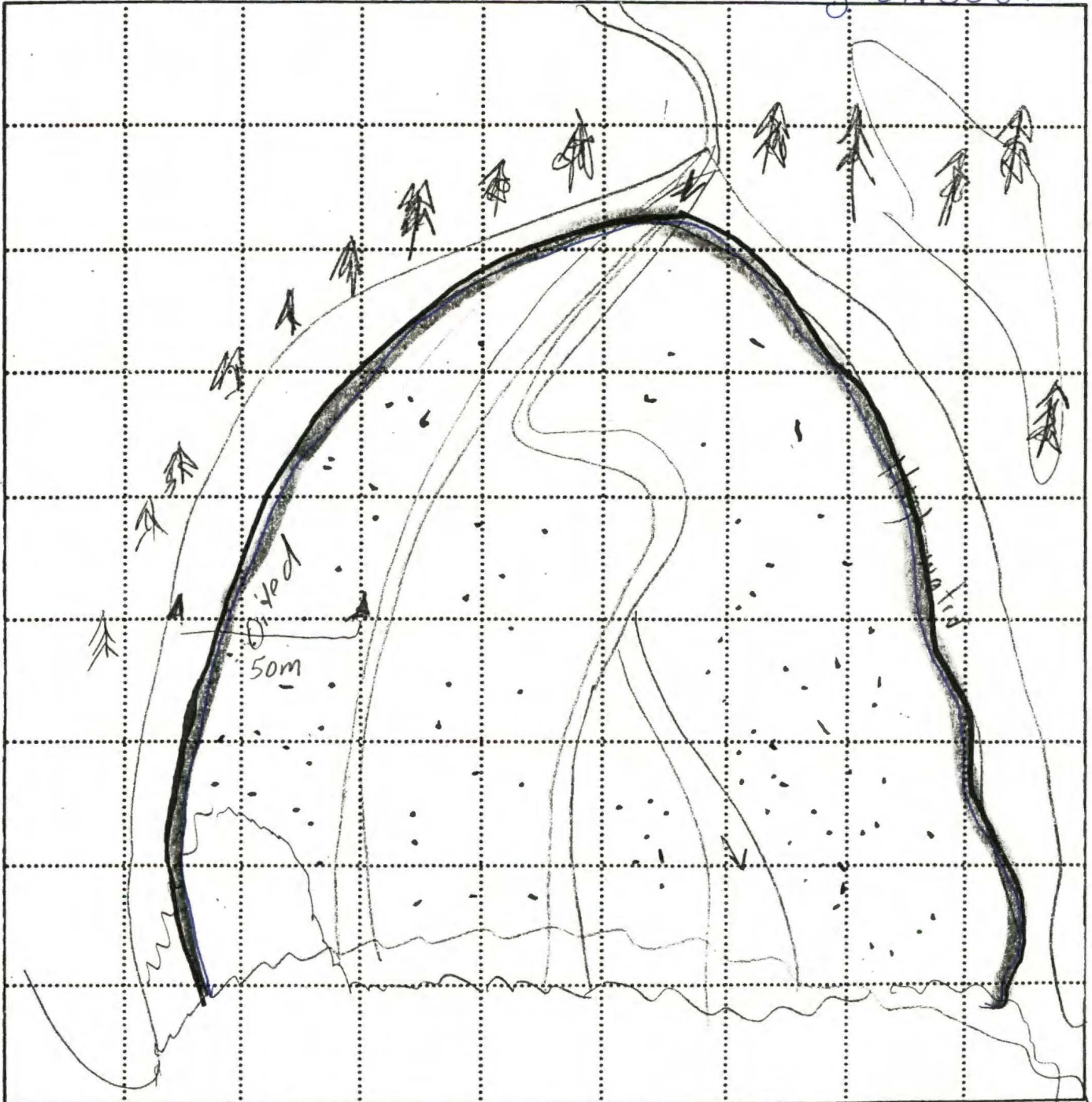
OIL TYPES PRESENT (1 2 3 4)

PHOTO #: 29 + 30 Roll #5

STREAM CATALOG #: 16570 now 16451

SCALE: ONE GRID EQUALS

seg BA002A



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

COMMENTS: 100's of dead shrimp 4-5mm long
thick black band of oil ringing tidal area

ACE 6976315 - 11/PC/FE

34/53

OPERATIONS FIELD NOTES

See Back for Instructions

①

SEGMENT ID ANAD BA-002
 STREAM ID # 226-40-16451
 ANNOTATED MAP INCLUDED N

DATE 4-23-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
	Length	Width	Area	None	Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band										
Medium Band										
Narrow Band										
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 <u>10% OF AREA</u>	<u>30</u>	<u>6</u>	<u>5</u>			✓	25 50		2
Area #2 <u>50% OF AREA</u>	<u>25</u>	<u>2</u>	<u>5</u>			✓			2
Area #3									
Area #4									
Sporadic Mats									

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

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

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

GENERAL Snow covering 10% 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? N, # of Times —

COMMENTS:
MANUALL REMOVE TARMATS IN AREAS 1 & 2 AS INDICATED
ON THE ATTACHED MAP. NO OTHER TREATMENT NECESSARY. TOTAL
MANDAYS REQUIRED FOR THIS STREAM IS 4.

ACE 6976277 +15

35/53 OG WILLIAM REID

SEGMENT ST/ BA002

STREAM 226-A0-16451

DATE 23, APR 90

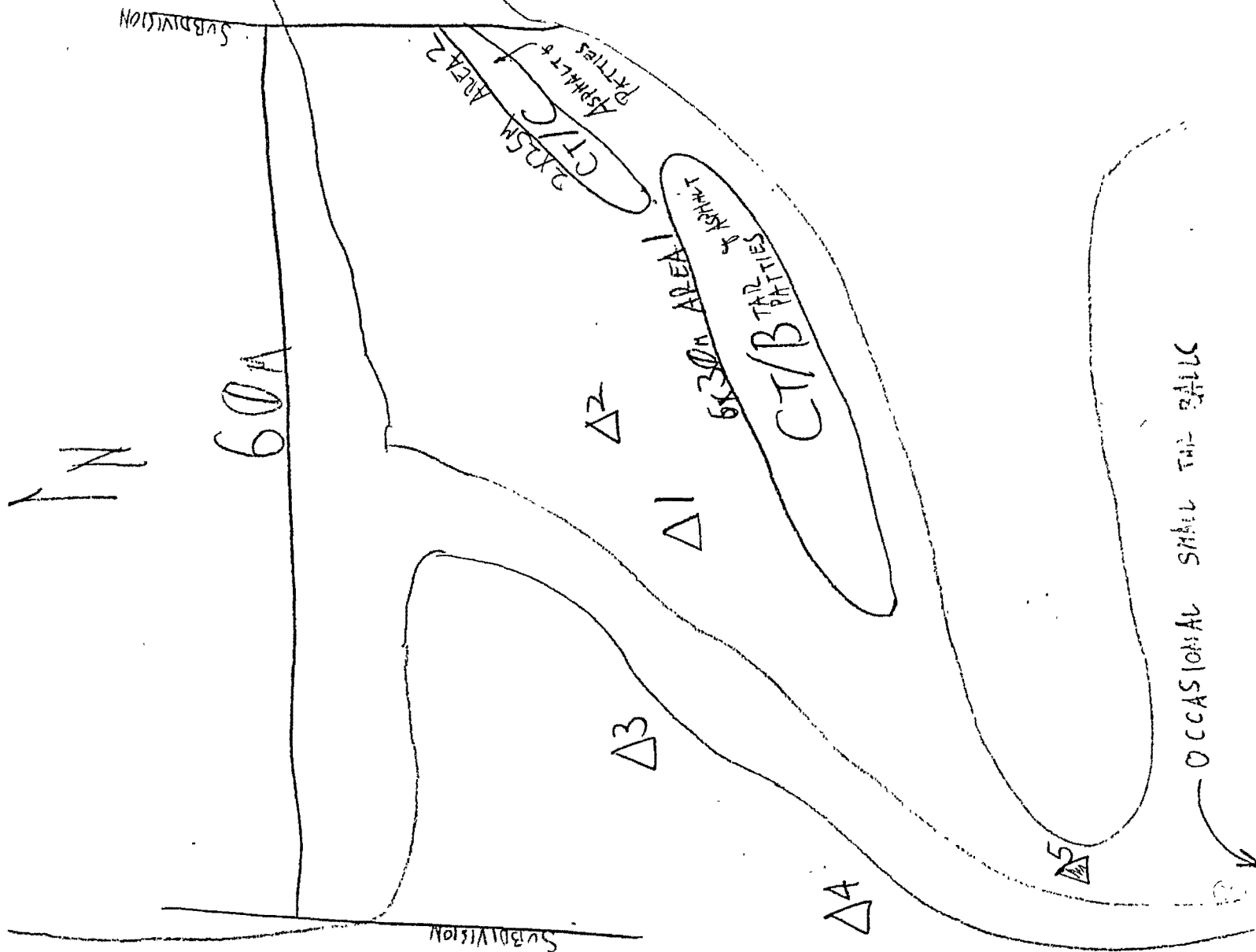
CHECKLIST

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

LEGEND

- 1 ▲ Pit - No Subsurface Oil
- 2 ▲ Pit - Subsurface Oil
- CT/C Continuous Distribution
- CT/B Broken Distribution
- CT/P Patchy Distribution
- CT/S Splashed Distribution
- eee Oiled Vegetation
- 1 → 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

ACE 6976278

OG WILLIAM REID

SEGMENT ST/ BA002

STREAM 226-A0-16451

DATE 23, APR 90

SKETCH MAP

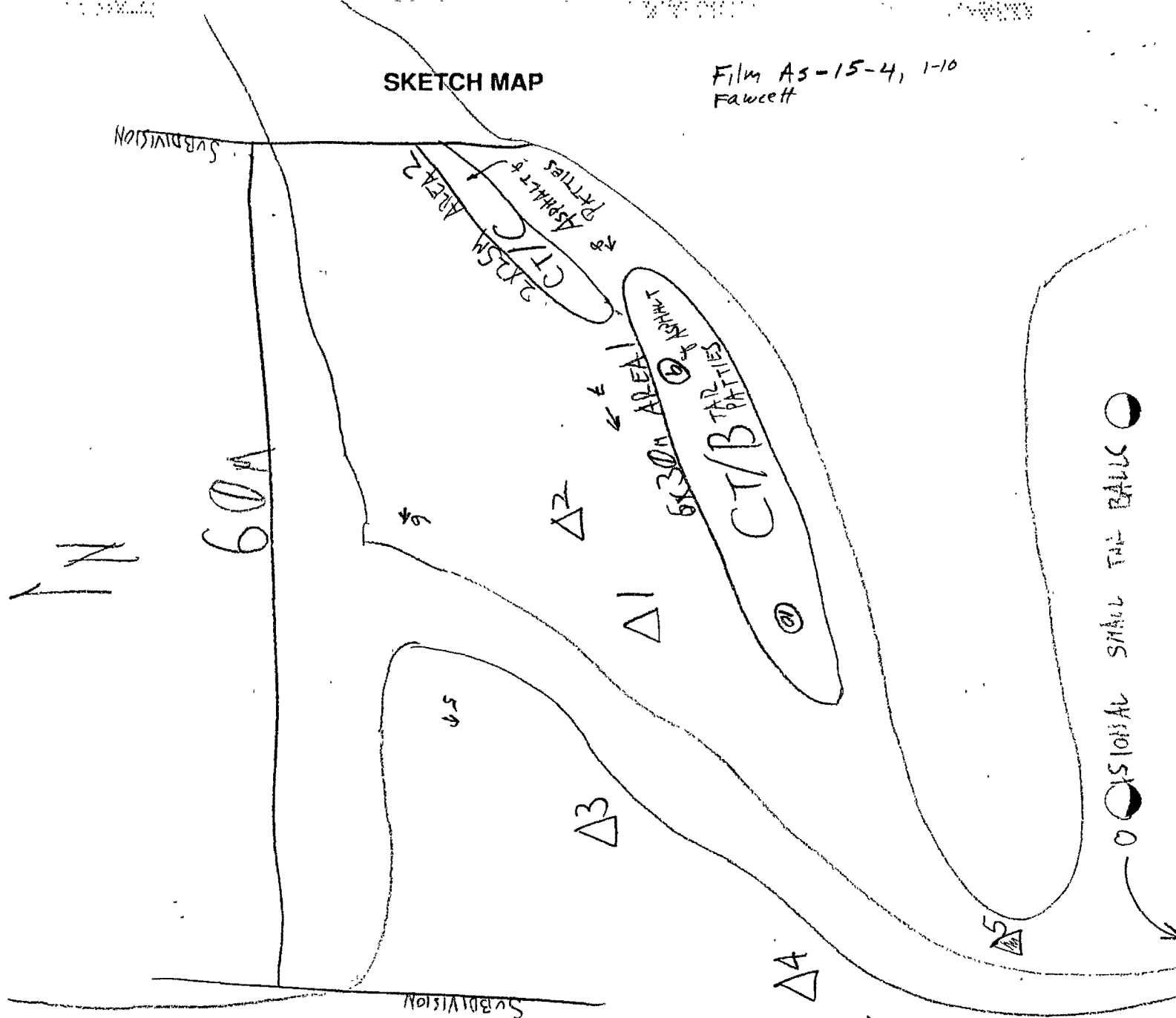
Film A5-15-4, 1-10
Fawcett

CHECKLIST

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

LEGEND

- 1 ▲
Pit - No Subsurface Oil
- 2 ▲
Pit - Subsurface Oil
- CT/C
Continuous Distribution
- CT/B
Broken Distribution
- CT/P
Patchy Distribution
- CT/S
Splashed Distribution
- eee
Oiled Vegetation
- 1 →
Photo location, direction, and number
① = close up photo



ACE 6976283

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

REVISION: 03/24/90

4/9/90

GENERAL DATA

SEG ID: BA002 ²²⁶⁻⁴⁰⁻ SUBDIV: 16451 TEAM: A5-15 SURVEY DATE: 4/23/90
 PAVEMENT: CHAR F AREA 60 THICKNESS 5 TARBALLS 0
 OILED: LGS SM VEG SM TRH - DBR - WAVE EXP: LW - MD X HG -
 FAX RCVD: _____ DT: _____ AGENCY DISAGREE: _____
 EST SUBDIV LGTH: 60 OIL CATEGORY: W 0 M 0 N 45 VL 0 NO 15 U 0

SURFACE DATA

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

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

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

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

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

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

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

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

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

no entry ACE 6976284

Segment BA002
Stream 226-40-16451
Ecological Summary

4/23/90
Michael Fawcett

The intertidal portion of this stream meanders through a grassy flat before reaching the cobble/pebble/gravel beach. A healthy Fucus-barnacle community exists on scattered cobbles around the stream mouth, becoming more dense toward each end of the cove as the sediments become more stable. Main siltling consists of a band of tar mats in UTZ. No ecological constraints re: intertidal biota. One bald eagle sighted, flying by.

M Fawcett

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / BA 002 SUBDIVISION: 16451 DATE 4/23/90

USCG
NAME CUB McMAHON SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

1. MANUAL REMOVAL ASPHALT
LEFT SIDE / LOOKING ONSHORE

~~ADDEC~~
ADEC MICHAEL WIEDMER
NAME NO TEAM MEMBER SIGNATURE [Signature]

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

SOME PATTIES MAY BE FOUND ON RIGHT SIDE IN UPPER INTER-TIDAL ZONE. IF FOUND, THEY SHOULD BE REMOVED.

LAND MANAGER
NAME NO TEAM MEMBER SIGNATURE _____

NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
COMMENTS

ACE 6976279

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SC4A MH4S PTA 2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90 15 HIGH TIDE TIMES: 0021 11257 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1545 16 HIGH TIDE HTS: 11.5' 110.5' 22 OBSERVERS: T. CROWE

5 STOP TIME: 1610 17 LOW TIDE TIMES: 0648 11855 23 AGENCY: ADF&G

6 SEGMENT #: BA-002 18 LOW TIDE HTS: -0.8' 10.5' 24 PHOTOS TAKEN: Y N

7 STATION #: 226-40-16451 19 TIDE HT AT SURVEY: 5.35' 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: EAST SIDE, BAINBRIDGE I. Sediment _____

14 DESCRIPTION: BAYMING COVE Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	200		2	200	3		<1
28 SURFACE THICKNESS	5cm	5cm	3cm					
29 PENETRATION	10cm	10cm	5cm					

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 50
Gravel 50 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-40-16451

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
FRY PRESUMED

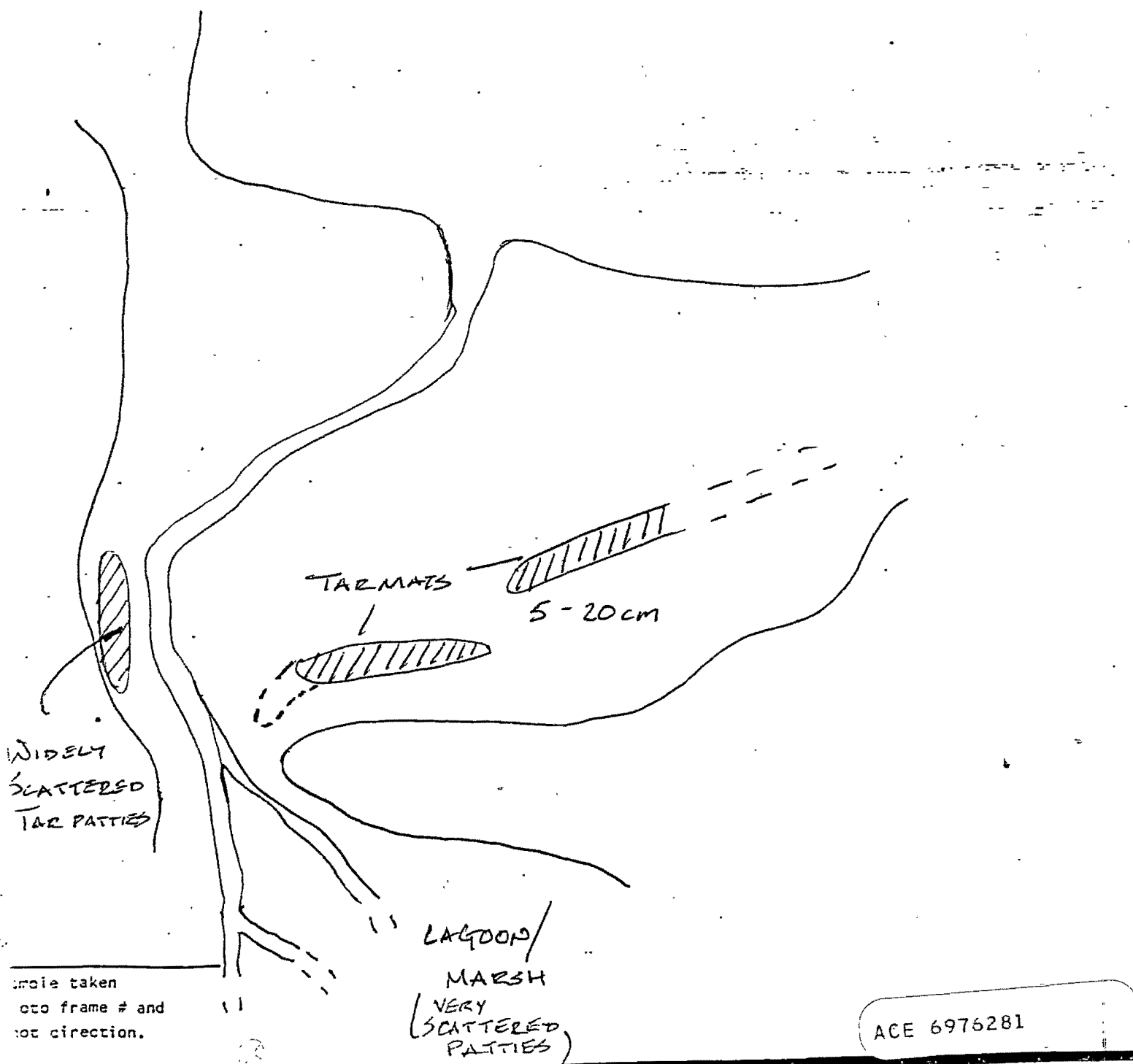
44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SHALEY GRAVEL & COBBLE INTERTIDAL ZONE
SUREN'S BAND OF ASPHALTIC TAR ALONG UPPER INTERTIDAL ZONE
EAST OF CHANNEL. NO OBVIOUS SUBSURFACE OIL.
VERY SCATTERED PATTIES IN LAGOON/MARSH ARE UPSTREAM OF
STORM BERM.

SITE(S)	DESCRIPTION
	RECOMMENDATIONS: MANUAL REMOVAL OF TAR MATS
	I agree with recommendation. M. H. Fawcett

46 OIL DISTRIBUTION DIAGRAM





ADF&G OIL SPILL RESPONSE MONITORING

ASC# 226-40-16451

Date: 7/19/91

Stream Name: _____

Observer: Aimee Weseman was informed of treatment via phone call from Marsha Hall.

Segment-Sub Unit BA-002A

Location: Rainbridge I-NF

Anad. Stream Permit Issued? Y N

Date: _____

Work Order Issued: Y N

Date: _____

Demob Date: _____

Oil Characteristics (circle appropriate ones)

Surface: AP, MS, TB, SOR, CV, CT, ST, FL, DB, None
Subsurface: OP, HOB, MOR, LOR, OF, TR, None

Treatment Techniques:

Manual Removal
Manual Raking
Spot Wash
Other

Bioremediation & Type
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: _____?

Lbs. or Bags of Oil/Sediment Removed

6 AW 3/25
geo bags

Other Agency Reps, and Names:

Marsha Hall ADNR ?

<u>Photos</u>	Y	N	<u>Roll #</u>	<u>Frames</u>
		?	_____	_____
			_____	_____

<u>Video</u>	<u>Tape #</u>	<u>Start</u>	<u>End</u>
	?	_____	_____
	_____	_____	_____

<u>Sediment/Oil Samples</u>	(Y <input checked="" type="radio"/> N <input type="radio"/>)	<u>Collection Number</u>

Purpose of Trip * phone call

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal



Describe extent of remaining oil (any comments on expected completion of cleanup).

Tarmat & subsurface tense - the majority of the remaining oil is >100m from stream. They will recommend re-assessment Spring of '92 - Priority 1

Comments: (Are work order procedures being followed?, etc.)

State Boat crew visited site to re-assess

They encountered tarmat (AP) continuing subsurface
They manually removed ~~16~~ 6 geo bags of oiled sediment & located & disposed of the 5 geo bags that had been removed during the MARSAP survey & never collected

I will attempt to secure monitor/treatment form for more explicit details

Aimee Woseman per Marsha Hall - 2/25/91 - No map produced

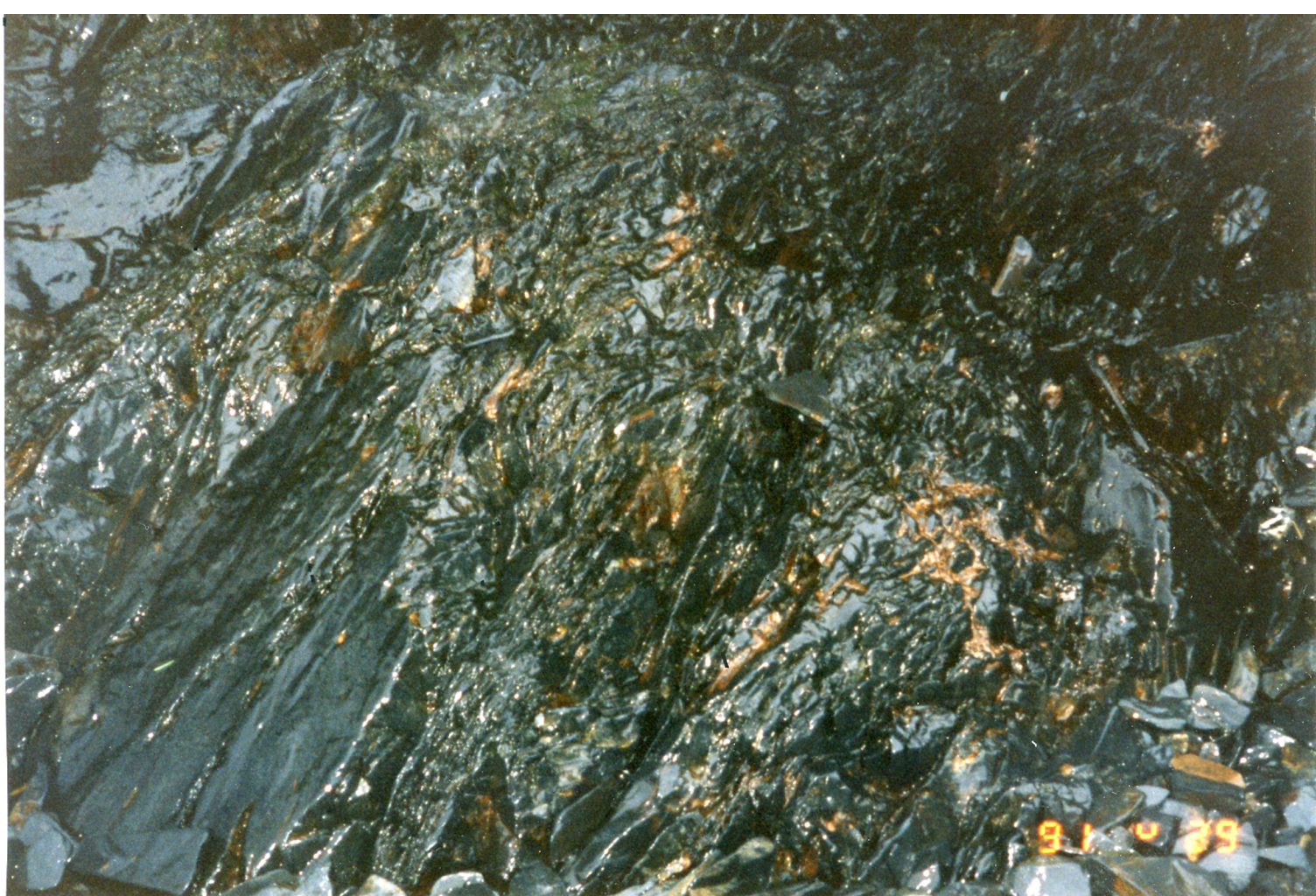
A:OPRESP
April 2, 1991



Date: 4/29/91 No. 818

Title: BA002A





Segment No BA002 Subdivision A
Date 4/29/91 Log Frame No 8
Photographer REBECCA HOFF
Location BAINBRIDGE ISLAND
Comments CLOSEUP OF MOUSSE LODGED
IN SHALE OUTCROP IN UPPER INTER-
TIDAL IN LOCATION D

Roll No MAYSAP-6-02 Neg. No 7
Control No 818 (Office Use Only)



Segment No BA002 Subdivision A
Date 4/29/91 Log Frame No 6
Photographer REBECCA HOFF
Location BAINBRIDGE ISLAND
Comments OVERVIEW OF BEACH FACING
EAST

Roll No MAYSAP-6-02 Neg. No 5
Control No 818 (Office Use Only)



Segment No BA002 Subdivision A
Date 4/29/91 Log Frame No 9
Photographer REBECCA HOFF
Location BAINBRIDGE ISLAND
Comments TAR/ASPHALT PATTY IN UPPER
INTERTIDAL IN LOCATION A IN MAP

Roll No MAYSAP-6-02 Neg. No 8
Control No 818 (Office Use Only)



Segment No BA002 Subdivision A
Date 4/29/91 Log Frame No 7
Photographer REBECCA HOFF
Location BAINBRIDGE ISLAND
Comments FROM OUTLET OF STREAM FAC-
ING UPSTREAM

Roll No MAYSAP-6-02 Neg. No. 6
Control No 818 (Office Use Only)



1991 MAYSAP EVALUATION

SEGMENT: BA 002 SUB: A REGION: PWS SURVEY DATE: 4/29/91

ENVIRONMENTAL SENSITIVITIES: ^{OB}

Work Window(s) OPEN 5/15- 7/10 (EXCEPT STREAM BED), RESTRICTED 7/10 - 9/15

Ecological/Constraints (see page two for details) Fish harvest area, Anadromous stream

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: Charles E. H. Jones Date: 5/8/91

RECOMMENDATIONS:	INITIAL	TAG	FOSC
TREATMENT REQUIRED (Y or N)	<u>N</u>	<u>N</u>	<u>N</u>
Manual Pickup (Check as Req.)	<u> </u>	<u> </u>	<u> </u>
Spot Washing	<u> </u>	<u> </u>	<u> </u>
Bio-Customblen Only	<u> </u>	<u> </u>	<u> </u>
Bio-Inipol/Customblen	<u> </u>	<u> </u>	<u> </u>
Other <u> </u>	<u> </u>	<u> </u>	<u> </u>
Other <u> </u>	<u> </u>	<u> </u>	<u> </u>

COMMENTS:

INITIAL: No + C

05/08/91

05/08/91

TAG: EXXON COMMENT: IN EXXONS VIEW THERE IS NO NET ENVIRONMENTAL BENEFIT IN TREATING THIS MINIMAL REMNANT OIL. Deal

05/10/91

FOSC: No + C

TAG APPROVAL DATE: MAY 8 1991 FOSC APPROVAL DATE: 5/10/91

ADEC John Bauer

FOSC E. E. Page

EXXON Deal

E. E. PAGE, CDR, USCG
CHIEF OF STAFF, FOSC

USCG John E. Mader

NOAA John

State will evaluate the need for treatment at this site John Bauer



1991 STATE WORK ORDER
EXXON VALDEZ OIL SPILL PROJECT
STATE OF ALASKA

PRINCE WILLIAM SOUND

SEGMENT: BA002 SUBDIVISION: A SITE:
COMMERCIAL FISHING AREA. ANADROMOUS STREAM. RECREATION AREA.

RECOMMENDED TREATMENT:
SITE A: MANUALLY REMOVE AP AND MANUALLY TILL REMAINING
SOR AND RELOCATE TO MITZ.

ENVIRONMENTAL SENSITIVITIES:
ANADROMOUS STREAM.

WORK WINDOW: 05/15/91 - 07/10/91

CLEANUP PLAN AND COST ESTIMATE DUE:

DATE SUBMITTED: 05/09/91

STATE ON SCENE COORDINATOR:

[Handwritten signature] for E. Piper

1991 STATE WORK ORDER
EXXON VALDEZ OIL SPILL PROJECT
STATE OF ALASKA

PRINCE WILLIAM SOUND

SEGMENT: BA002 SUBDIVISION: A SITE:
COMMERCIAL FISHING AREA. ANADROMOUS STREAM. RECREATION AREA.

RECOMMENDED TREATMENT:

SITE A: MANUALLY REMOVE AP AND MANUALLY TILL REMAINING
SOR AND RELOCATE TO MITZ.

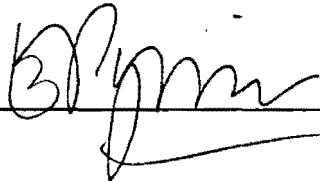
ENVIRONMENTAL SENSITIVITIES:
ANADROMOUS STREAM.

WORK WINDOW: 05/15/91 - 07/10/91

CLEANUP PLAN AND COST ESTIMATE DUE:

DATE SUBMITTED: 05/08/91

STATE ON SCENE COORDINATOR:



**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Fish Harvest Area: Unlimited treatment unless otherwise directed by ADF&G. Sheen containment/recovery procedures required for mechanical treatment.

Anadromous Stream: Unlimited treatment up to stream bank between May 15 and July 10. ADF&G approval required for work after July 10. Fish Habitat Permit required for instream work. ADF&G approval required for bioremediation within 100 meters of anadromous stream after July 10.

1991 MAYSAP EVALUATION

SEGMENT: BA 002 SUB: A REGION: PWS SURVEY DATE: 4/29/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN 5/15 - 7/10 (EXCEPT STREAM BED), RESTRICTED
7/10 - 9/15

Ecological/Constraints (see page two for details) Fish harvest
area, Anadromous stream

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: _____ Date: _____

<u>RECOMMENDATIONS:</u>	<u>INITIAL</u>	<u>TAG</u>	<u>FOSC</u>
TREATMENT REQUIRED (Y or N)	<u>N</u>	_____	_____
Manual Pickup (Check as Req.)	_____	_____	_____
Spot Washing	_____	_____	_____
Bio-Customblen Only	_____	_____	_____
Bio-Inipol/Customblen	_____	_____	_____
Other _____	_____	_____	_____
Other _____	_____	_____	_____

COMMENTS:

INITIAL: remove AP + fill Area A

TAG: NTK

FOSC: _____

TAG APPROVAL DATE: _____ FOSC APPROVAL DATE: _____

ADEC _____ FOSC _____

EXXON _____

USCG _____

NOAA _____

MAD



A few edits
for Nancy.

HABITAT EVOS MONITORING REPORT
NON-DUCK STREAMS

DATE: 10/16/91

REGION: PWS

Done. NM 10/25/91.

PAGE 1

STREAM#: 2264016451 SEGMENT#: BA002 A LOCATION: BAINBRIDGE ISLAND, BATHTUB COVE STREAM NAME:

PURPOSE: N/A

DATE	OBSERVER OTHER REPS	WORK ORDER DATE	DEMOBIL. DATE	SURFACE OIL SUBSURFACE OIL	TREATMENTS	AMOUNT REMOVED	REMAINING OIL
07/19/91	WESEMAN (BY PHONE) MARSHA HALL (DNR) INFORMED A. WESEMAN OF TR			AP SOR HOR MOR	MANUAL REMOVAL	7 GEO BAGS	TAR MAT AND SUBSURFACE DENSE - THE MAJORITY OF THE REMINING OIL IS OVER 100 M FROM THE STREAM. THEY WILL RECOMMEND REASSESSMENT IN SPRING 1992. <i>remaining</i>

COMMENTS:
STATE BOAT CREW VISITED THE SITE TO REASSESS. THEY ENCOUNTERED TAR MAT (AP) CONTINUING SUBSURFACE. THEY MANUALLY REMOVED 7 GEO BAGS OF OILED SEDIMENTS AND LOCATED AND DISPOSED OF THE 5 GEOBAGS THAT HAD BEEN REMOVED DURING THE MAYSAP SURVEY AND NEVER COLLECTED. I (AIMEE WESEMAN) WILL ATTEMPT TO SECURE MONITOR/TREATMENT FORM FOR MORE EXPLICIT DETAILS.

STREAM#: 2262016388 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS STREAM NAME:

PURPOSE: M/V DON BOLLINGER CREW ON SITE

DATE	OBSERVER OTHER REPS	WORK ORDER DATE	DEMOBIL. DATE	SURFACE OIL SUBSURFACE OIL	TREATMENTS	AMOUNT REMOVED	REMAINING OIL
07/12/91	HILL ADEC MONTESANO, EXX KATSIMPALIS,	07/02/91		AP MS TB	MANUAL REMOVAL MANUAL RAKING	25	SCATTERED 'TB' AND 'AP' REMAINS - 'TB' AND 'AP' WILL PROBABLY BE TURNING UP FOR A FEW YEARS DOWN THE LINE. OIL OBSERVED WAS PRIMARILY IN UPPER MITZ & UITZ. THE UPPER MITZ AND THE UITZ NEAR THE STREAM (SHOULD BE SURVEYED IN THE FUTURE).

COMMENTS:
CLEANUP SITE #1: PICKED UP A FEW TARBALLS/'MS' FROM THE STREAM CHANNEL AT THE MITZ AND UITZ - 25 POUNDS OF 'MS/AP' REMOVED FROM THE EAST SHORE AT UITZ - APPROX 50 YDS FROM STREAM. NO INIPOL OR CUSTOMBLN APPLICATION. CUSTOMBLN ONLY APPLIED IN VICINITY OF SITE #3 (MAYSAP/ASC #2262016388) ONLY.

✓

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
 3) METHOD: Aerial Ground Boat
 4) DATE: 4/29/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: Aimee Wesen
 5) START TIME: 0855 17) HIGH TIDE HTS: _____ 23) OBSERVERS: Tom Crow
 6) STOP TIME: 1015 18) LOW TIDE TIMES: 19:36 24) AGENCY: ADF&G
 7) SEGMENT #: BA002A 19) LOW TIDE HTS: -1.8 25) PHOTOS TAKEN: Y N
 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: -1.5 tot. @ ROLL #: _____ FRAMES: _____
 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
 11) ASC #: 226-40-16451 START: _____ STOP: _____
 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y N
 13) LOCATION: North east Bainbridge I SAMPLE I.D. _____
 14) WAVE EXPOSURE: High Moderate Low
 15) SHORELINE TYPE: Headland Low-lying Rocks Beach
Cove Lagoon Marsh

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	25m	2m			3-7		AP
SITE 2	15m	2m			3-5		AP
SITE 3	1	1m		50%	5		M.SOR
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y N
 H = >6m band with ≥50% oil coverage
 M = >6m band with ≤ 50% oil coverage or ≥3m to <6m with ≥10% oil coverage
L = <3m band with >10% oil coverage
 VL = ≤10% oil coverage regardless of band width
 N = No oil observed

34) WILDLIFE OBSERVATION

Species	Number
Bald Eagle	1
Gulls	37

- 30) OIL IN STREAMBED: Y N
 31) OIL ON BEACH ADJACENT TO MOUTH: Y N within 50m
 32) SUBSTRATE TYPE (PERCENT):
 Bedrock _____ Boulder _____ Gravel _____ Sand _____ Cobble _____ Mud/Silt _____

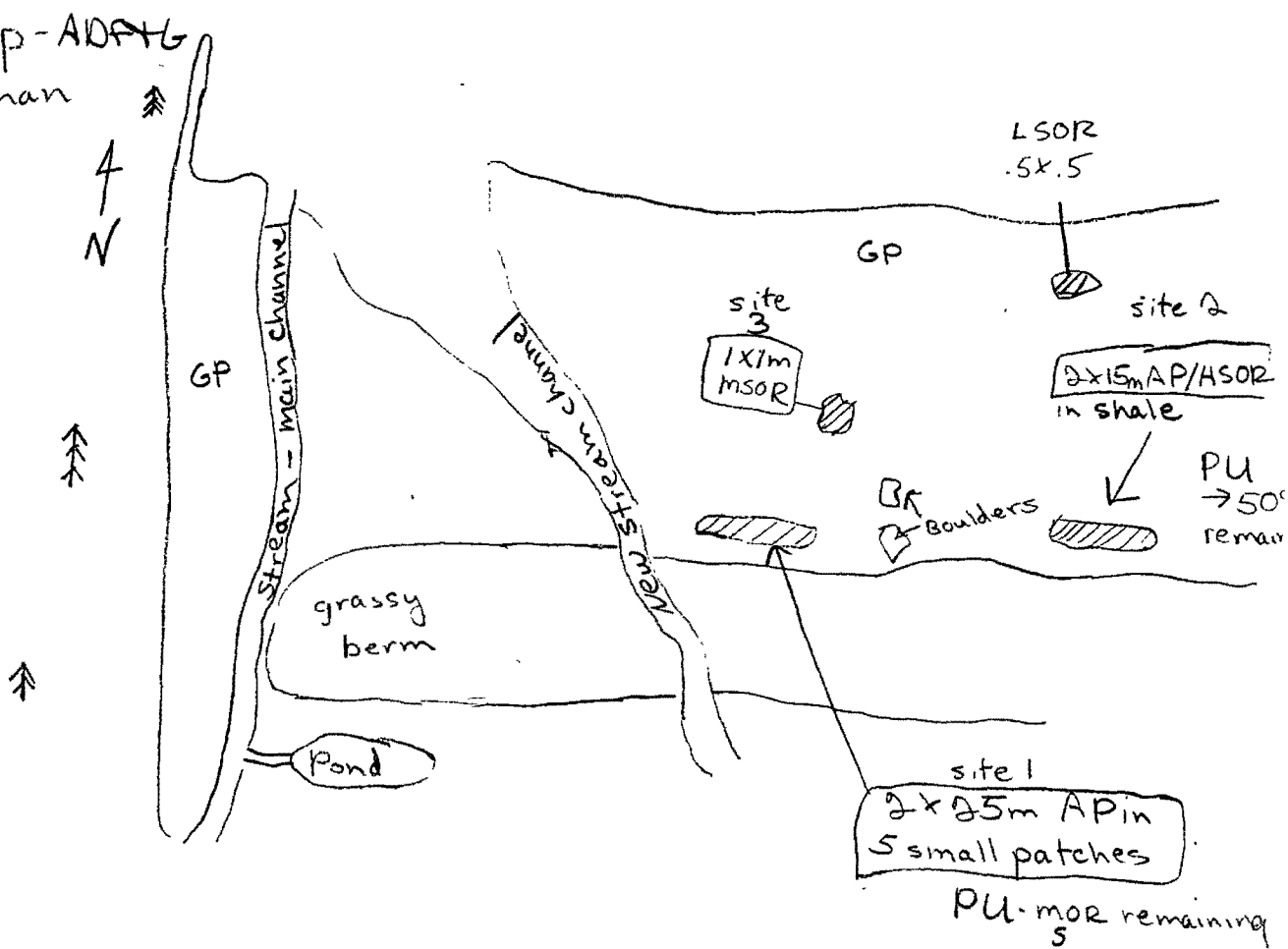
35) COMMENTS: Commercial Fishing & Recreation Designation.
The beach east of the stream looks significantly better than a year ago. A new stream channel has broken through the storm berm & flows adjacent to what is now a patch of MOR-site 1. When agitated this site emitted a brown oil scum on the surface waters. It deserves a quick tilling at least. There are also AP&HOR sediments on the shale outcrop - see site 2. These were only 50% removed. 15 hand-carriable bags of oily sed. removed

BA002-A

Bainbridge Island

ASC# 226-40-16451

May sap-ADPTG
Weseman
4/29/91



Treatment Recommendation

To complete treatment, a crew of 2 workers should return midsummer & manually till the remaining MOR sediments in sites 1 & 3. The AP sediments in site 2 could be removed at the same time

MAYSAP SHORELINE OILING SUMMARY

TEAM NO. 6
 OG DAVID LITTLE
 ADEC TOM CROWE
 EXXON RANDY BOYER

BIO TOM SCHROEDER
 LANDMANAGER AMTEE WESEMAN for ADFEG
 USCG/NOAA CWO SPURR/REBECCA HOFF

SEGMENT BA-002
 SUBDIVISION A
 DATE 04/29/91

TIME 08:50 to 10:40 TIDE LEVEL -2 ft. to +2 ft. ENERGY LEVEL H M L

SURVEYED FROM: FOOT BOAT HELO WEATHER: SUN CLOUDS FOG RAIN SNOW

TOTAL LENGTH SHORELINE SURVEYED: 1050 m NEAR SHORE SHEEN: BR RB SL NONE

EST. OIL CATEGORY LENGTH: W — m M — m N — m VL 125 m NO 925 m US — m

L O C	SURFACE OIL CHARACTER										SURFACE SEDIMENT TYPE	SHORE SLOPE VHML	AREA		ZONE			NOTES		
	AP	MS	TB	SOR	CV	CT	ST	FL	DB	NO			WIDTH m	LENGTH m	S	UI	MI		LI	
A	T			T							G-P	M	2	25			X			PU → light SOR remaining
B	T			S							G rock	M	2	15			X			Heavy SOR PU → 50% left
C				T							PG	L	0.2	0.1				X		Light SOR in 3 patches
D	P	P									G rock	L	0.1	1			X			—
ORIGINAL COPY																				

DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAYSAP- 6-02 FRAMES 6-9

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER							OILED ZONE cm-cm	CLEAN BELOW Y/N	H2O LEVEL (cm)	SHEEN COLOR B R S N	PIT ZONE				SURFACE- SUBSURFACE SEDIMENTS	NOTES
		OP	HOR	MOR	LOR	OF	TR	NO					S	UI	MI	LI		
1	30							X	—	Y	25	N		X			PGC	
2	30							X	—	Y	25	N		X			GP	
3	30							X	—	Y	25	N		X			GP	
4	30							X	—	Y	25	N	X				PG	
5	40							X	—	Y	10	N		X			GP	
6	30							X	—	Y	25	N		X			GP	
7	30							X	—	Y	25	N		X			PGC	
8	30							X	—	Y	25	N		X			GP	
9	30							X	—	Y	25	N		X			GP	

SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

OG COMMENTS:

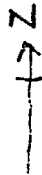
The remaining surface oil was of two types: (1) AP patches of < 1 m² on GP which were picked up, leaving only light SOR, (2) heavy SOR and AP in shale cleavage partings. About 50% of this was picked up, and the surface crusts disturbed to promote natural cleaning. No sheens observed until surface AP was disturbed.

No subsurface oil was observed in nine pits and numerous other scrapes

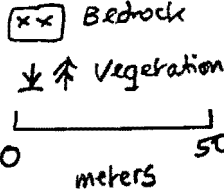
RECEIVED

APR 30 1991

BA-002-A 07/29/91
 OG. Map 0850 - 1040
 D.I. Little

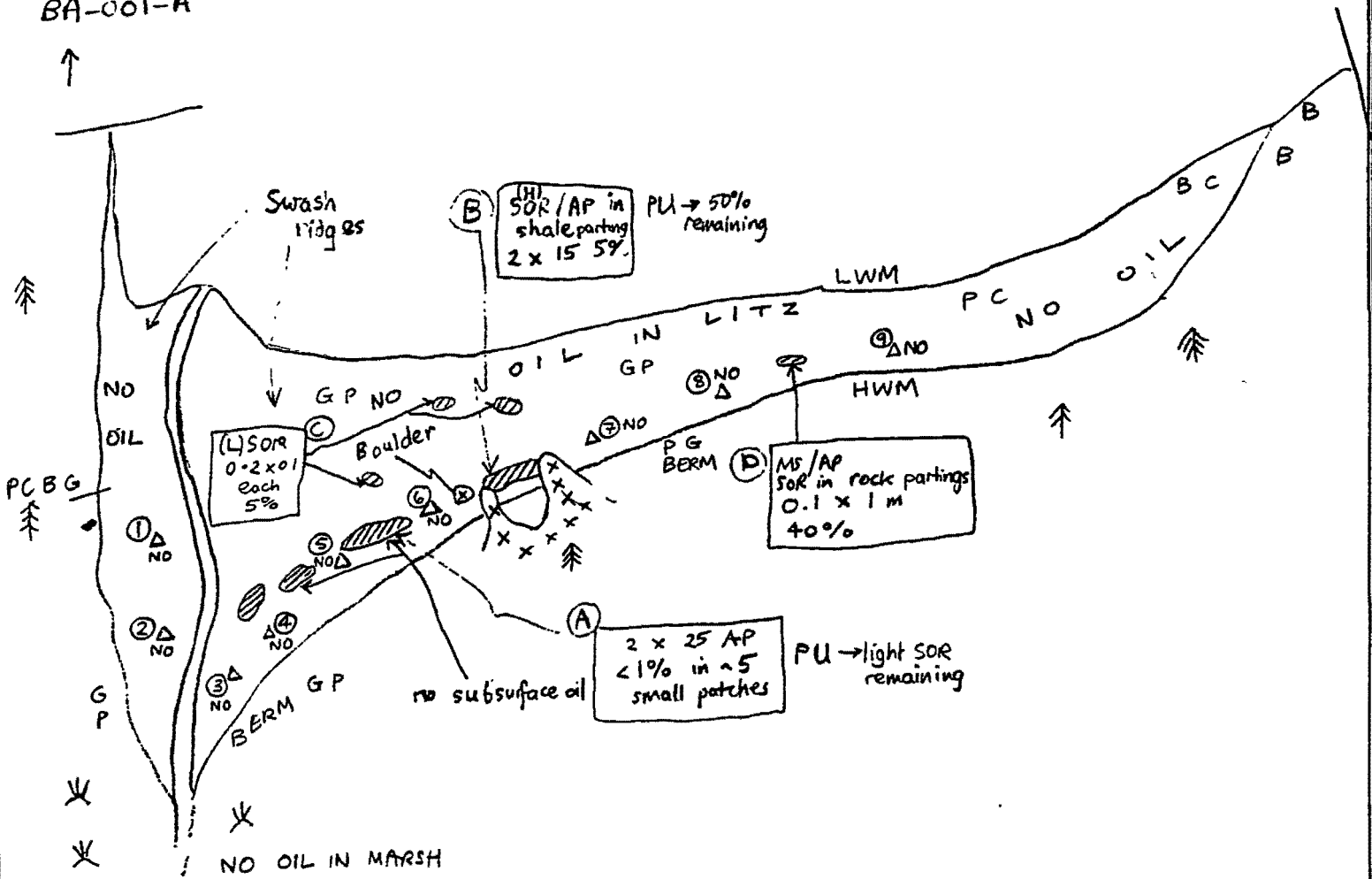


PRINCE OF WALES
 PASSAGE

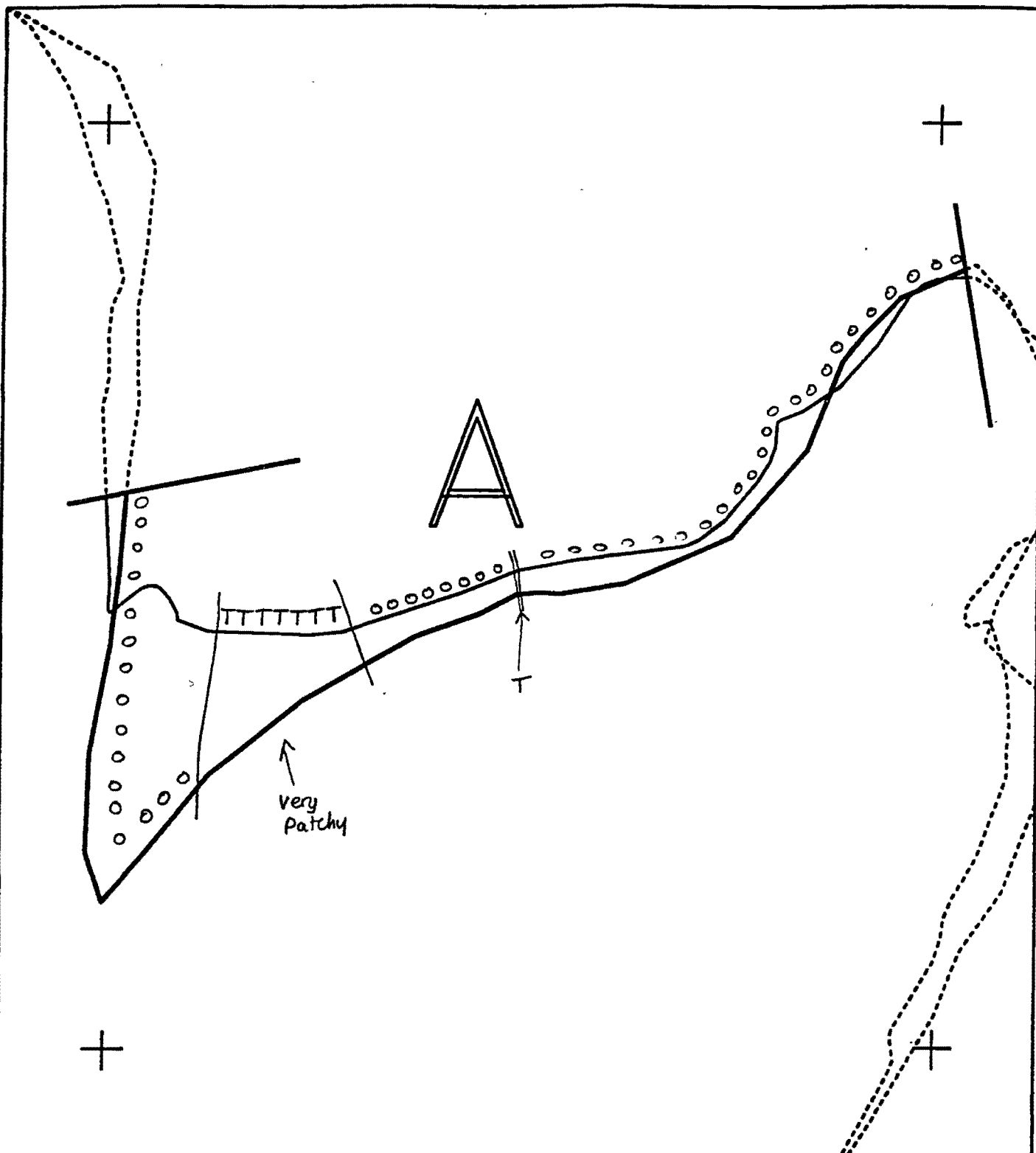


BA-003-A →

BA-001-A ↑



BAINBRIDGE ISLAND



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

BA002 A
 ADEC Subsegment Length: 1095m
 METERS
 0 100 200
 AK State Plane Zone 4
 pbs002aa



Subdivision Field Map
 Map Key: PWSBA002Aa
 Name: D-I-LITTLE
 Date: 04/29/91
 Date Entered:



MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 DATE _____
 SEGMENT # BA-002 TIDAL HEIGHT (Range) _____
 SUBDIVISION A BIOLOGIST _____
 SEA STATE White capping WIND SPEED/DIRECTION N-NE 25mph+
 PHOTOGRAPHS: ROLL # _____ FRAME # _____

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

(A-D) = oil asphalt and SOA located in MITZ to LITZ. area is composed of loose broken up shale. Most birds located in LITZ, so any activity near oil would have minimal impact if it occurred at a +2 foot or higher tide. Lower productivity around anadromous stream obviously is a result of continually shifting beach.

This is a medium energy beach. The mid to upper intertidal zone is low in productivity due to composition of shale and loose black sand. From the mid to lower intertidal zone, fucus beds patches are scattered near the anadromous stream but become more plentiful away from the stream on both sides. Mussel beds are well established in the lower intertidal amongst the fucus beds. Hard barnacles patch exist at all rock surfaces. Fucus abundant on lower portion of shale outcropping to east of stream.

**WILDLIFE OBSERVATIONS
 TO BE COMPLETED IN ALL SUBDIVISIONS**

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1	
Seabirds			
Waterfowl	1	3	
Gulls/Kittiwakes	2	37	
Shorebirds	1	2	
Corvids	1	1	
Other Birds			

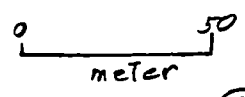
MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	/	/	/
Pinnipeds (specify)	/	/	/
Whales (specify)	/	/	/

Shoreline subdivision map showing important biological features attached.

BA-002-A 4/29/91
Bio. map 0850-1040
T.R. Schroeder



Prince of Wales
Passage



- ⊗ = rock
- ∇ = grass
- ⊙ = oil

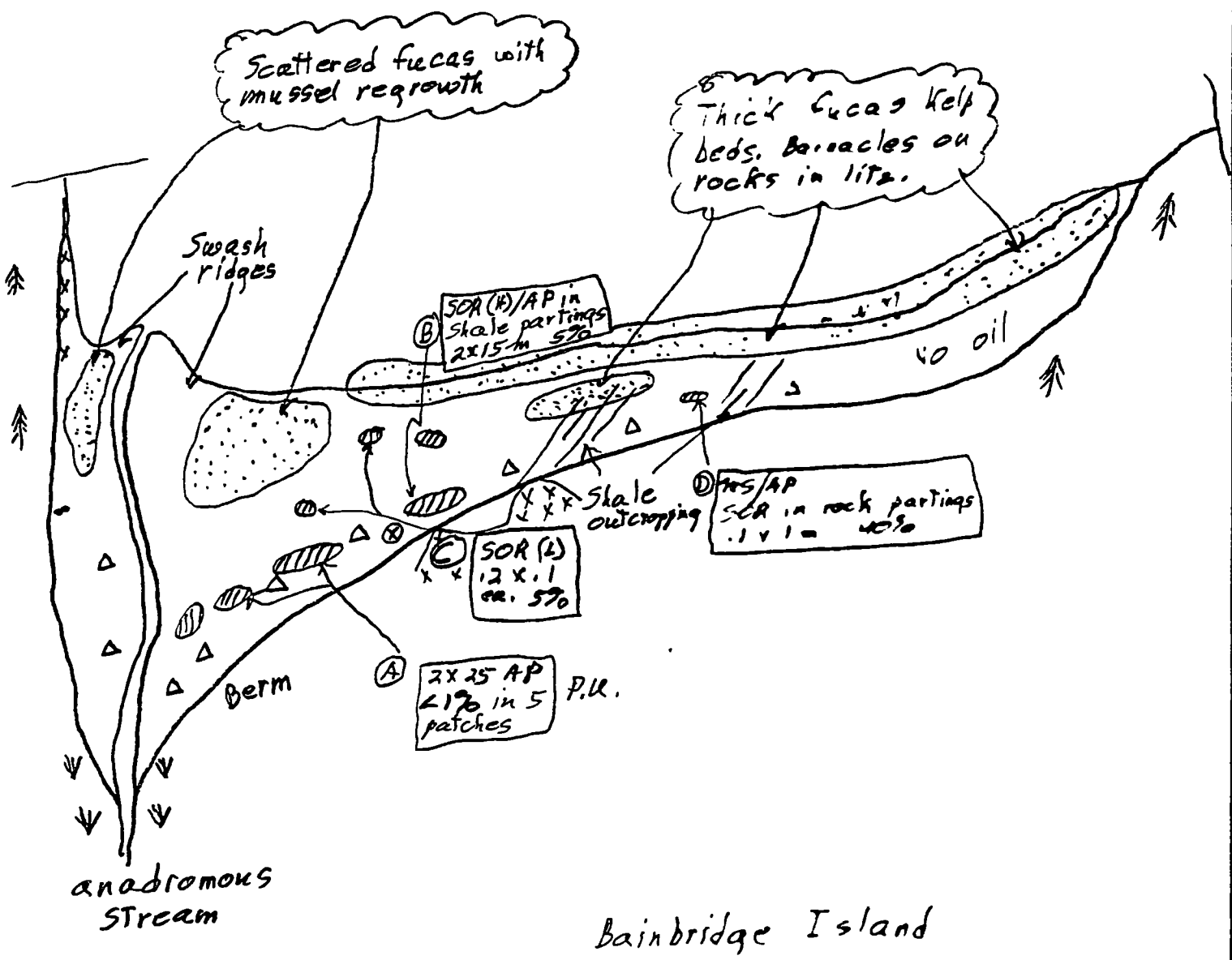
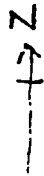


Photo Locations

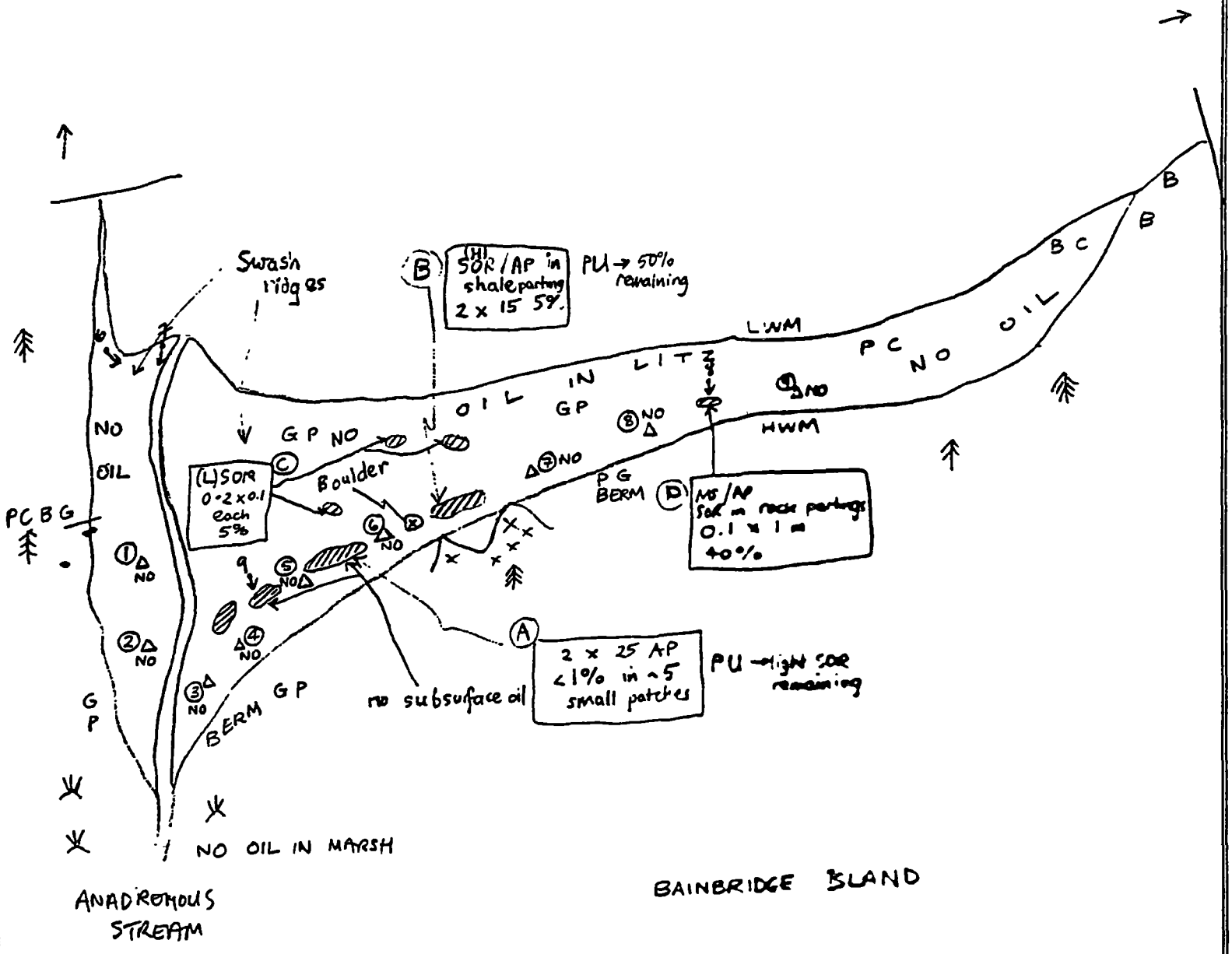


BA-002-A 07/29/91
 OG. Map 0850 - 1040
 D.I. Little

PRINCE OF WALES
 PASSAGE

☒ Bedrock
 ± ↑ Vegetation

PHOTO
 LOCATIONS



BAINBRIDGE ISLAND

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 6
Photographer _____
Location _____
Comments Overview of beach facing east

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 8
Photographer Rebecca Hoff
Location _____
Comments Close-up of mouse lodged in shale outcrop and upper intertidal in location D.

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 7
Photographer Rebecca Hoff
Location _____
Comments From outlet of stream facing upstream

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 9
Photographer Rebecca Hoff
Location _____
Comments Tar/asphalt patch in upper intertidal in location A on map

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

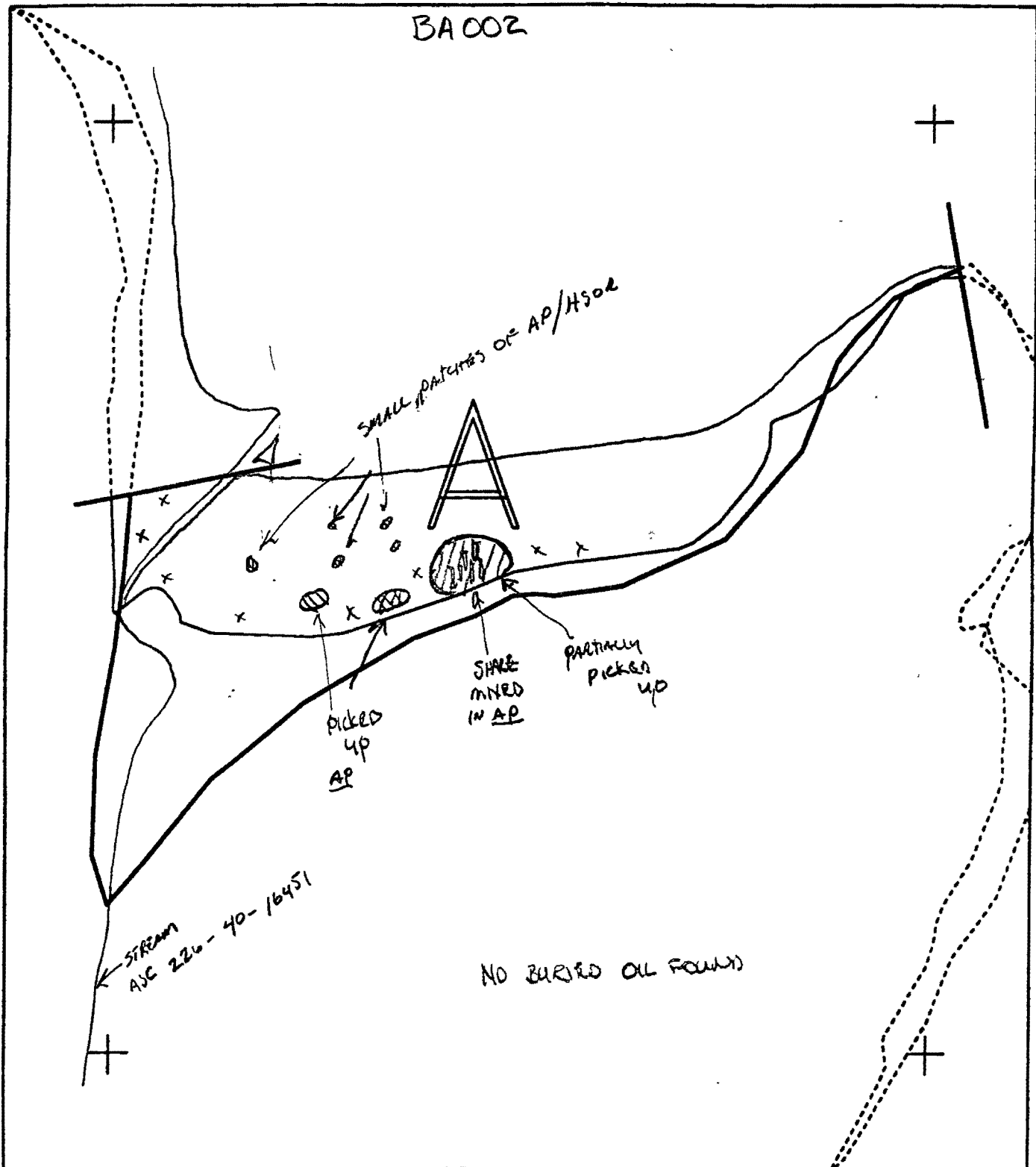
Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

BA002



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

BA002 A
 ADEC Subsegment Length: 1095m
 METERS
 0 100 200
 AK State Plane Zone 4
 p60020a



Subdivision Field Map
 Map Key: PWSBA002Ae
 Name: J. CROWE
 Date: 4/29/91
 Date Entered:

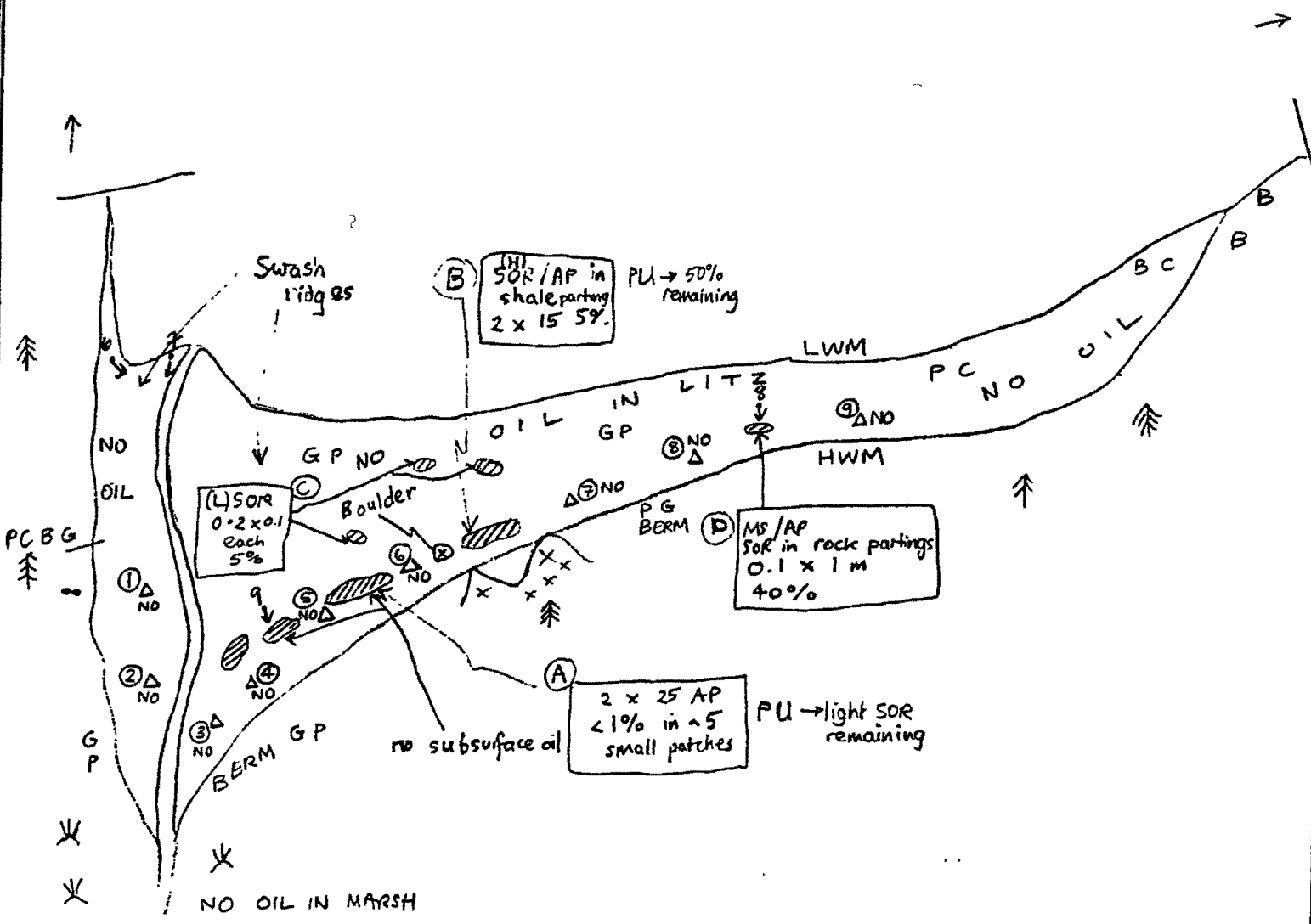
Photo locations

BA-002-A 07/29/91
 OG. Map 0850 - 1040
 D.I. Little



PRINCE OF WALES
 PASSAGE

xx Bedrock
 ↓ ↑ Vegetation



ANADROMOUS
 STREAM

BAINBRIDGE ISLAND

MAYSAP FIELD SHORELINE COMMENT SHEET



TEAM NO. 6 SEGMENT BA-002 SUBDIVISION A DATE 9/29/91

ADEC AND USF'S REPRESENTATIVE

NAME TOM CROWE SIGNATURE [Signature]

NTR TREATMENT RECOMMENDED
 WITH LITTLE EFFORT THE SMALL AMOUNT OF REMAINING AP SURFACE OILING COULD BE ELIMINATED FROM THIS STREAM HABITAT AREA. A SMALL CREW WITH MINIMAL EFFORT COULD FINALIZE THE TREATMENT OF THIS SEGMENT BY PICKING UP REMAINING AP AND MANUALLY TILLING LIGHTER SCATTERED OIL DEPOSITS.

EXXON

NAME RANDALL K. BOYER SIGNATURE [Signature]

NTR CERTAINLY SIGNIFICANT IMPROVEMENT IN SHORELINE CONDITIONS IN 1991. PROLIFIC BIOTA IN THE INTERTIDE ZONE. GULLS AND OTHER WILDLIFE SIGNS IN VICINITY. SURFACE OILING IN THE UPPER INTERTIDE ZONE IN THE FORM OF "AP" WERE IDENTIFIED AND RETRIEVED BY THE VECO PICKUP SQUAD. IN THE HEAVY RAIN, IT WAS APPARENT THAT LESS SHEENING IS EVIDENT THIS YEAR. NO NEED FOR FURTHER REASSESSMENT. OILING (SURFACE) IN THE VEHICLE STAKE AREA WAS DISTURBED AS TO BE FLUSHED BY TIDE MOVEMENT.

LANDMANAGER

NAME Aimee Weseman OF ADFG SIGNATURE [Signature]

NTR Treatment Rec. - Commercial Fishing & Recreation Area, Anad stream To complete treatment, a crew of 2 workers should return mid-summer & manually till the remaining OR sediments in Area A. After the AP was removed & the remaining sediments agitated, a brown oil scum collected on surface waters. Any newly formed AP sediments could be picked up at the same time

USCG/NOAA

NAME CWO R SPURR / Rebecca Hoff SIGNATURE [Signature]

NTR
 The small amounts of remaining asphalt & tar on the walking & do not represent a source of contamination to biological resources - the amount does not warrant further treatment and should continue to weather naturally

5/13/91

Discrepancy comments

1/2

Review

B0002A

226 40 16451

HAB

Site 1
2 * 25 m (in ⁵ small patches)

- Agree OK -

AP
MOR remaining
(comments explain)

←  →

Site 2
2 * 15 m
AP, H50R

- Agree OK -

Site 3
1 * 1 m
H50R
50%

- Δ -
- Δ -

OG

Site A
2 * 25 m (5 small patches)

AP
< 1%
light SOR remaining

Site B
2 * 15 m
5%
H50R, AP

Site C
0.2 * 0.1 m
LSOR in 3 patches
each 5%

site 1, 3 discrepancy reflected in recomms.

ADF&G OIL SPILL RESPONSE MONITORING

ASC# 226-40-16451

Date: 7/19/91

Stream Name: _____

Observer: Aimee Weseman was informed of treatment via phone call from Marsha Hall.

Segment-Sub Unit BA-002A

Location: Rainbridge I-NF

Anad. Stream Permit Issued? Y N

Date: _____

Work Order Issued: Y N

Date: _____

Demob Date: _____

Oil Characteristics (circle appropriate ones)

Surface: AP, MS, TB, SOR, CV, CT, ST, FL, DB, None
 Subsurface: OP, HOR, MOR, LOR, OF, TR, None

Treatment Techniques:

Manual Removal
 Manual Raking
 Spot Wash
 Other

Bioremediation & Type
 Mechanical Tilling
 Header Flood (Hot/Cold)

Crew Size: _____?

Lbs. or Bags of Oil/Sediment Removed 7 geo bags

Other Agency Reps, and Names:

Marsha Hall ADNR ?

<u>Photos</u>	Y	N	<u>Roll #</u>	<u>Frames</u>
		?	_____	_____
			_____	_____

<u>Video</u>	<u>Tape #</u>	<u>Start</u>	<u>End</u>
	?	_____	_____
	_____	_____	_____

Sediment/Oil Samples (Y N) Collection Number

Purpose of Trip * phone call

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Tarmat & subsurface tenses - the majority of the remaining oil is >100m from stream. They will recommend re-assessment Spring of '92

Comments: (Are work order procedures being followed?, etc.)

State Boat crew visited site to re-assess

They encountered tarmat (AP) continuing subsurface
They manually removed 2 geo bags of oiled sediment & located & disposed of the 5 geo bags that had been removed during the MAXSAP survey & never collected

I will attempt to secure monitor/treatment form for more explicit details

A:OPRESP
April 2, 1991

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 4/29/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: Aimee Weseman
- 5) START TIME: 0855 17) HIGH TIDE HTS: _____ 23) OBSERVERS: Tom Crow
- 6) STOP TIME: 1015 18) LOW TIDE TIMES: 09:36 24) AGENCY: ADF&G
- 7) SEGMENT #: BA002A 19) LOW TIDE HTS: -1.8 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: -1.5 to +.2 ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
- 11) ASC #: 226-40-16451 START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y N
- 13) LOCATION: North east Bainbridge I SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach _____
- Cove Lagoon Marsh _____

28) EXTENT OF OIL

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SITE 2	15m	2m			3-5		AP
SITE 3	1	1m		50%	5		MOR
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y N
- H = >6m band with ≥50% oil coverage
- M = >6m band with ≤ 50% oil coverage or ≥3m to ≤6m with ≥10% oil coverage
- L = <3m band with >10% oil coverage
- VL = ≤10% oil coverage regardless of band width
- N = No oil observed
- 34) WILDLIFE OBSERVATION
- | Species | Number |
|------------------|--------|
| eagle | 1 |
| gulls/kittiwakes | 37 |

- 30) OIL IN STREAMBED: Y N
- 31) OIL ON BEACH ADJACENT TO MOUTH: Y N within 50m
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock _____ Boulder _____ Gravel _____ Sand _____ Cobble _____ Mud/Silt _____

35) COMMENTS: Commercial Fishing & Recreation Designation.
The beach, east of the stream looks significantly better than a year ago. A new stream channel has broken through the storm berm & flows adjacent to what is now a patch of MOR-site 1. When agitated this site emitted a brown oil scum on the surface waters. It deserves a quick tilling at least. There are also AP+HOR sediments on the shale outcrop - see site 2. These were only 50% removed. 15 hand-carriable bags of oily sed. removed.

36) PHOTOLOG

FRAME(S)

DESCRIPTION

A = Sample Taken
2/ = Photo Frame # and
Shot Direction

BA002-A

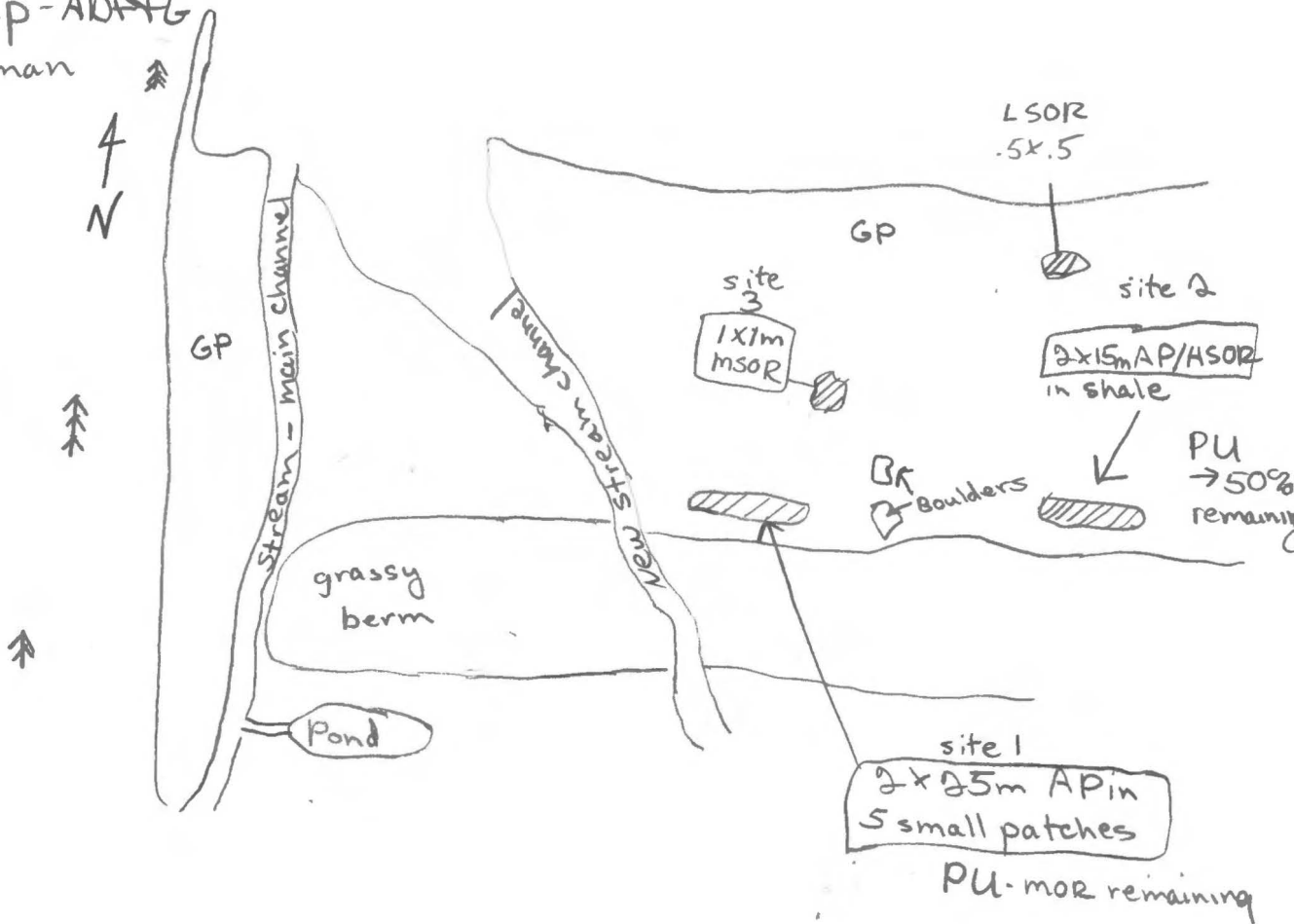
Bainbridge Island

ASC# 226-40-16451

May sap-ADPTG

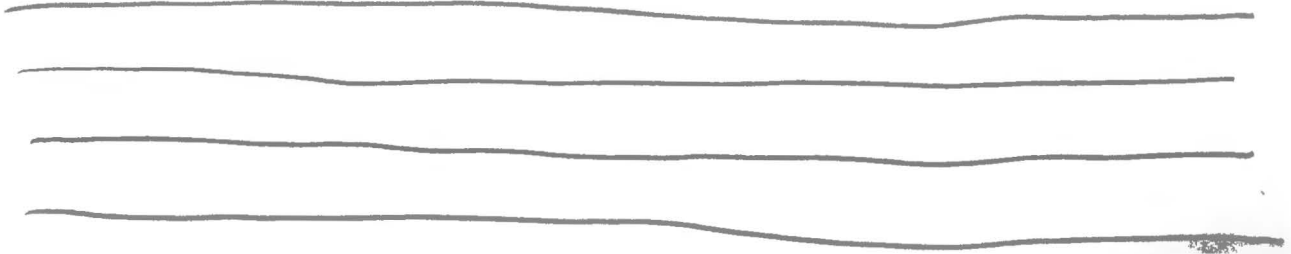
A. Weseman

4/29/91



Treatment Recommendation

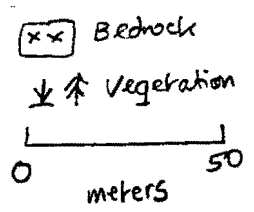
To complete treatment, a crew of 2 workers should return midsummer & manually till the remaining MOR sediments in sites 1 & 3. The AP sediments in site 2 could be removed at the same time.



BA-002-A 09/29/91
 OG. Map 0850 - 1040
 D.I. Little

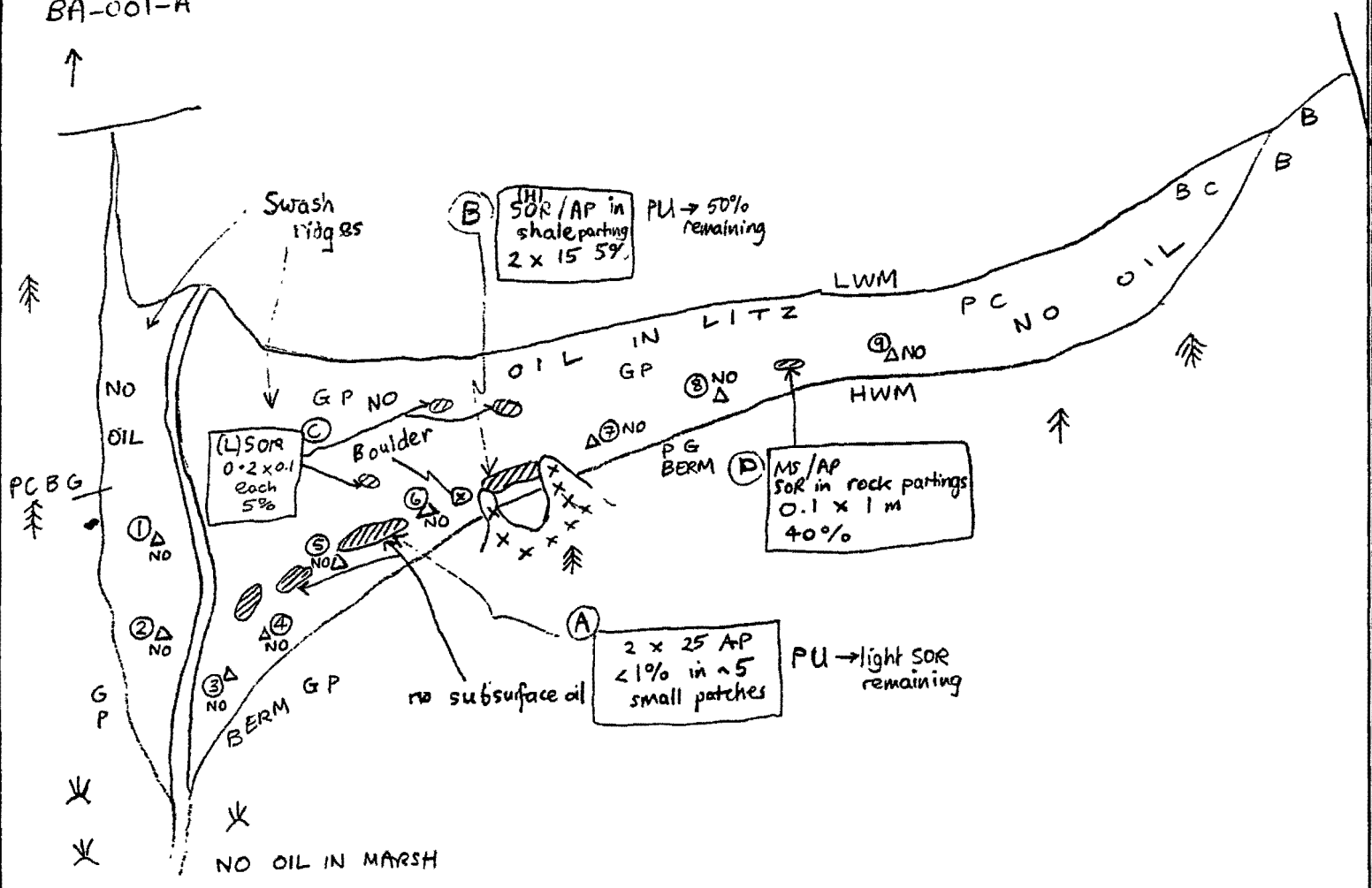


PRINCE OF WALES
 PASSAGE



BA-003-A
 →

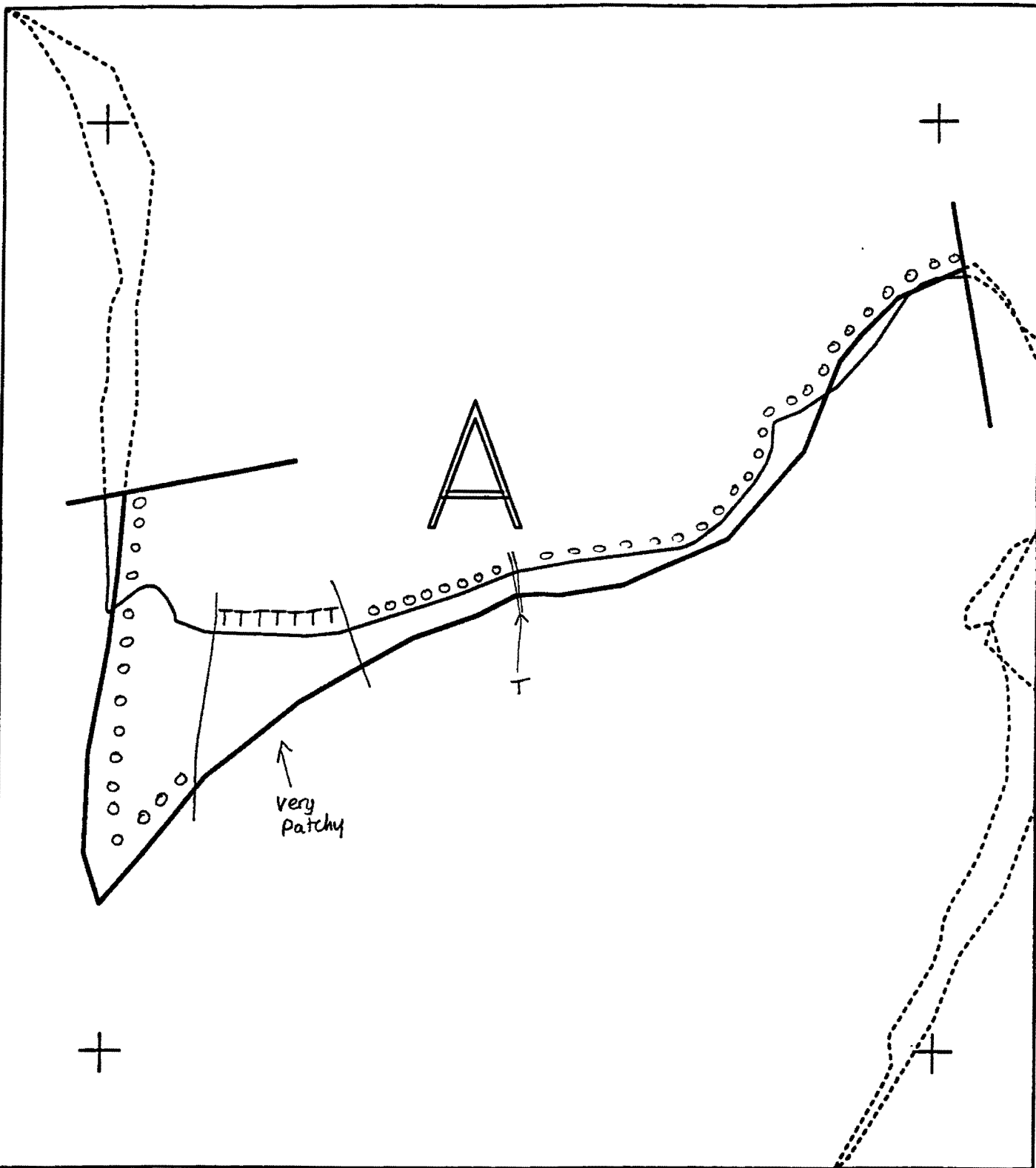
BA-001-A
 ↑



NO OIL IN MARSH

ANADROMOUS
 STREAM

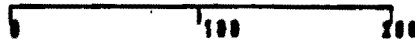
BAINBRIDGE ISLAND



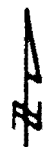
XXXX Wide
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

BA002 A

ADEC Subsegment Length: 1005m
 METERS



AK State Plane Zone 4
 pba002aa



Subdivision Field Map

Map Key: PWSBA002Aa

Name: D-1-LITTLE

Date: 04/29/91

Date Entered:

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 DATE _____
 SEGMENT # BA-002 TIDAL HEIGHT (Range) _____
 SUBDIVISION A BIOLOGIST _____
 SEA STATE White capping WIND SPEED/DIRECTION N-NE 25mph+
 PHOTOGRAPHS: ROLL # _____ FRAME # _____

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

(A-D) = all asphalt and SOB located in MITZ to LITZ area is composed of loose broken up shale. Most birds located in LITZ, as group activity near oil would have minimal impact if it occurred at a +2 foot or higher tide. Lower productivity around anadromous stream obviously is a result of continually shifting beach.

This is a medium energy beach. The mid to upper intertidal zone is low in productivity due to composition of shale and loose black sand. From the mid to lower intertidal zone, fucus help patches are scattered near the anadromous stream but become more plentiful away from the stream on both sides. Mussel beds are well established in the lower intertidal amongst the fucus help. Hard barnacles growth exists on all rock surfaces. Fucus abundant on lower portion of shale outcropping to east of stream.

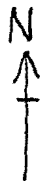
**WILDLIFE OBSERVATIONS
 TO BE COMPLETED IN ALL SUBDIVISIONS**

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1	
Seabirds			
Waterfowl	1	3	
Gulls/Kittiwakes	2	37	
Shorebirds	1	2	
Corvids	1	1	
Other Birds			

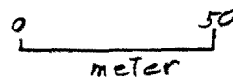
MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters			
Pinnipeds (specify)			
Whales (specify)			

Shoreline subdivision map showing important biological features attached.

BA-002-A 4/29/91
 Bio. map 0850-1040
 T.R. Schroeder



Prince of Wales
 Passage



- (x y x) = rock
- ∇ = grass
- ⊙ = oil

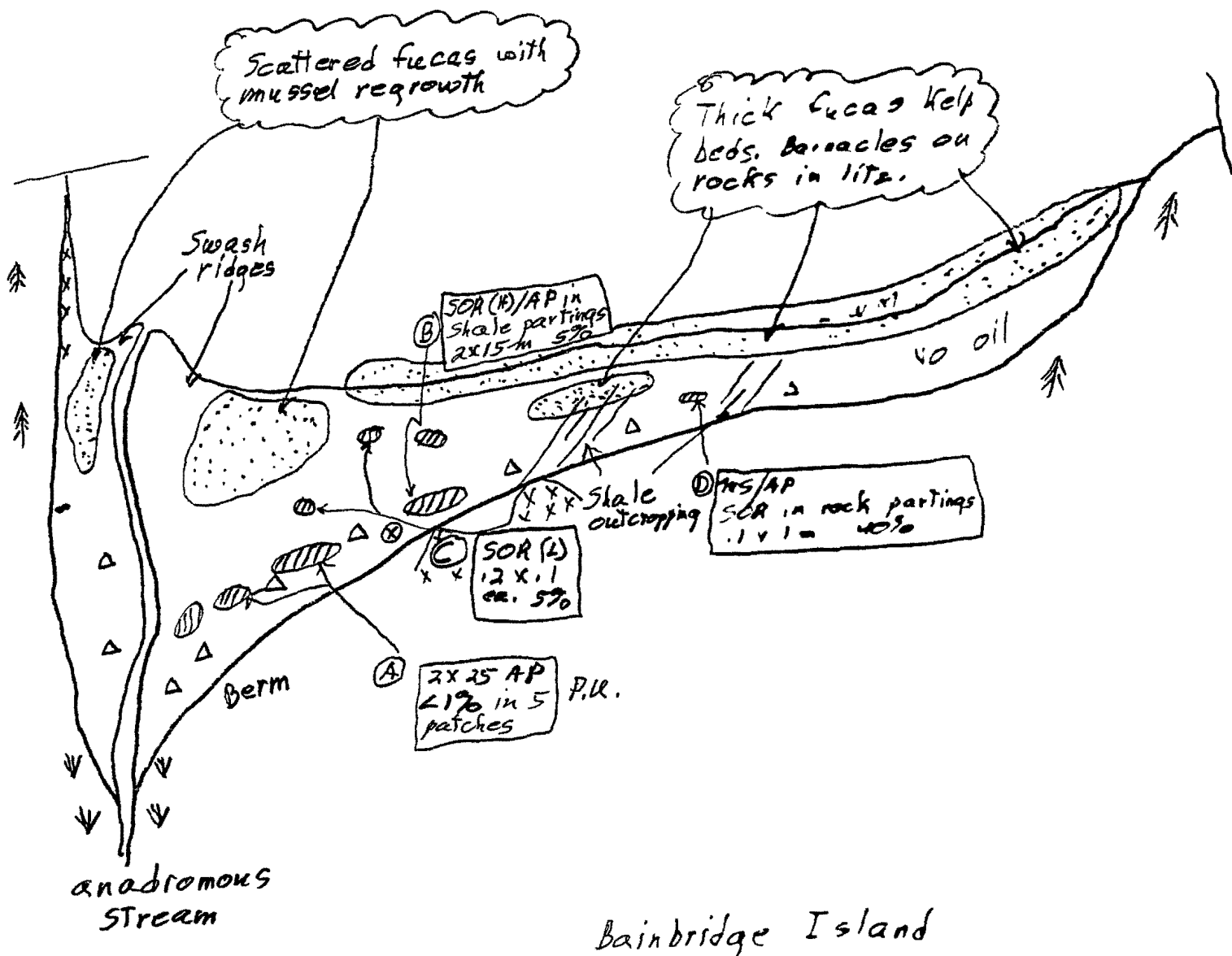


Photo Locations

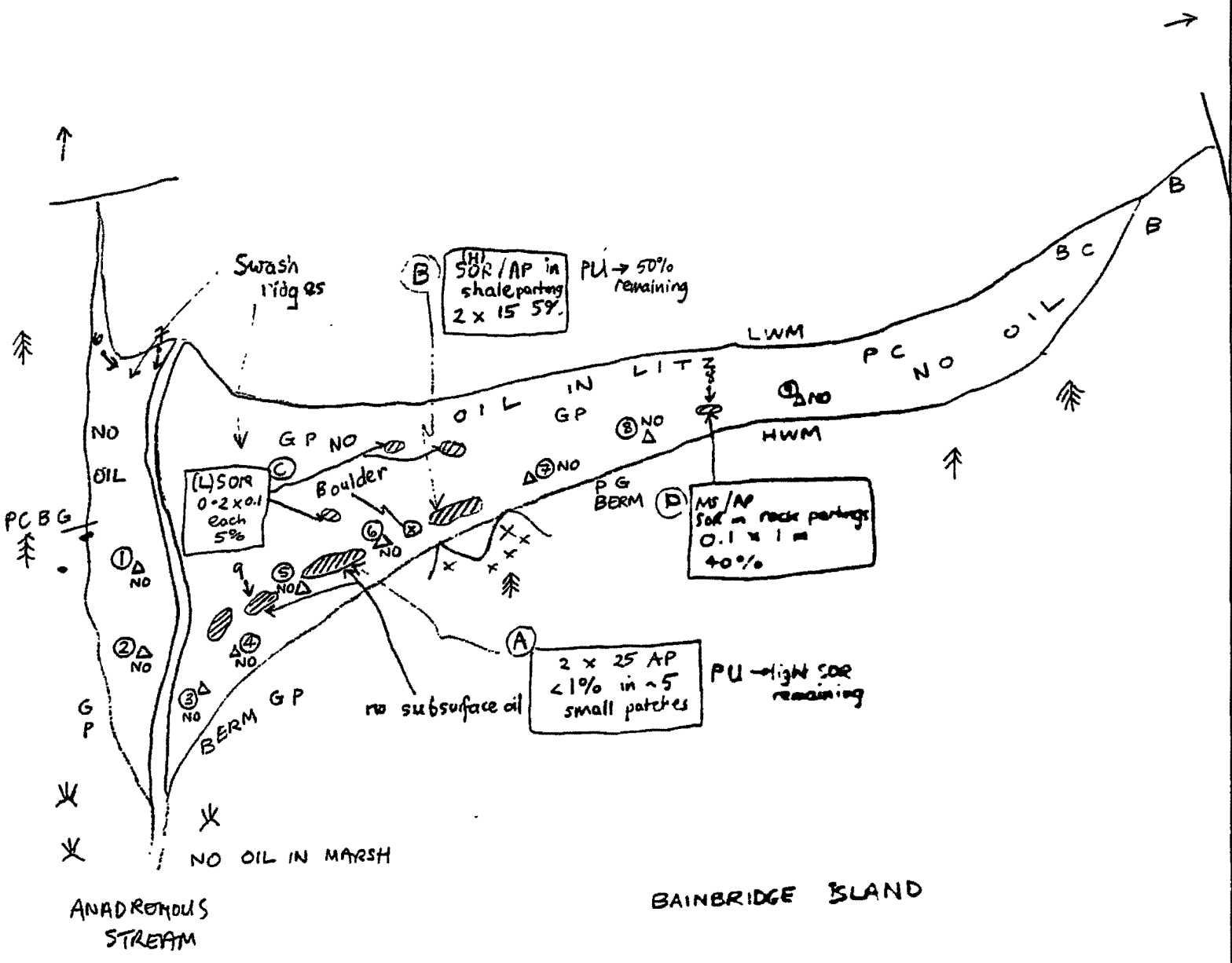


BA-002-A 09/29/91
 OG. Map 0850 - 1040
 D.I. Little

PRINCE OF WALES
 PASSAGE

☒ Bedrock
 ± ↑ Vegetation

PHOTO
 LOCATIONS



ANADROMOUS
 STREAM

BAINBRIDGE ISLAND

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 6
Photographer _____
Location _____
Comments Overview of beach facing east

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 8
Photographer Rebecca Hoff
Location _____
Comments Close up of mussels lodged in shale outcrop and upper intertidal in location D.

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 7
Photographer Rebecca Hoff
Location _____
Comments From outlet of stream facing upstream

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No BA2 Subdivision A
Date 4/29/91 Log Frame No 9
Photographer Rebecca Hoff
Location _____
Comments Tar/asphalt patch in upper intertidal in location A on map

Roll No MAYSAP-6-02 Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

Segment No _____ Subdivision _____
Date _____ Log Frame No _____
Photographer _____
Location _____
Comments _____

Roll No MAYSAP- Neg. No _____
Control No _____ (Office Use Only)

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6 SEGMENT BA-002 SUBDIVISION A DATE 9/29/91

ADEC AND USFS REPRESENTATIVE

NAME TOM CROWE SIGNATURE [Signature]

NTR TREATMENT RECOMMENDED

WITH LITTLE EFFORT THE SMALL AMOUNT OF REMAINING AP SURFACE OILING COULD BE ELIMINATED FROM THIS STREAM HABITAT AREA. A SMALL CREW WITH MINIMAL EFFORT COULD FINALIZE THE TREATMENT OF THIS SEGMENT BY PICKING UP REMAINING AP AND MANUALLY TILLING LIGHTER SCATTERED SOR DEPOSITS.

EXXON

NAME RANDALL K. BOYER SIGNATURE [Signature]

NTR

CERTAINLY SIGNIFICANT IMPROVEMENT IN SHORELINE CONDITIONS IN 1991. PROLIFIC BIOTA IN THE INTERTIDE ZONE. GULLS AND OTHER WILDLIFE SIGNS IN ^{THE} VICINITY. SURFACE OILING IN THE UPPER INTERTIDE ZONE IN THE FORM OF "AP" WERE IDENTIFIED AND RETRIEVED BY THE VECO PICKUP SQUAD. IN THE POOLING RAIN, IT WAS APPARENT THAT LESS SCREENING IS EVIDENT THIS YEAR. NO NEED FOR FURTHER REASSESSMENT. OILING (SURFACE) IN THE VEHICLE SLAKE AREA WAS DISTURBED AS TO BE FLUSHED BY TIDAL MOVEMENT.

LANDMANAGER

NAME Aimee Weseman OF ADFG SIGNATURE [Signature]

NTR Treatment Rec. - Commercial fishing & Recreation Area, Anad stream To complete treatment, a crew of 2 workers should return mid-summer & manually till the remaining OR sediments in Area A. After the AP was removed & the remaining sediments agitated, a brown oil scum collected on surface waters. Any newly formed AP sediments could be picked up at the same time

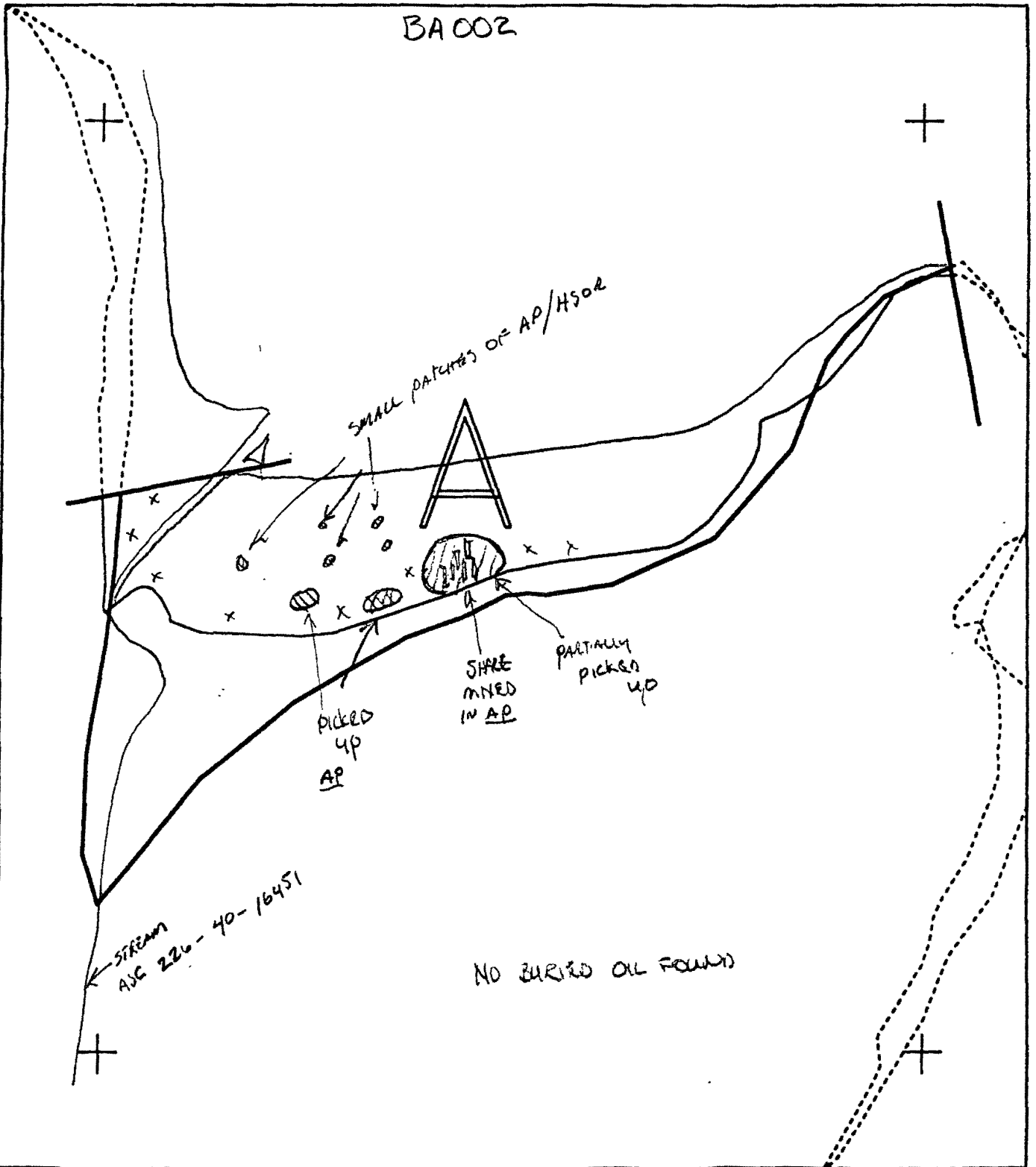
USCG/NOAA

NAME CWO R. SPURR / Rebecca Hoff SIGNATURE [Signature]

NTR

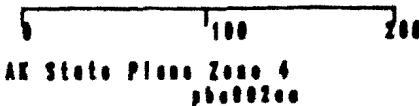
The small amounts of remaining asphalt & tar are weathering & do not represent a source of contamination to biological resources. This segment does not warrant further treatment and should continue to weather naturally.

BA002



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

BA002 A
 ADEC Subsegment Length: 1095m
 METERS



Subdivision Field Map
 Map Key: PWSBA002A
 Name: T. CROWE
 Date: 4/29/91
 Date Entered: