

AFS 251-70-10020
SHANGIN BAY, SHUYAK ISLAND
SITE 52-3

ACE 1369716



251-70-703

RESERVED
710



89 Stream Survey

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE: Beach

LATITUDE:

LONGITUDE:

LEGAL:

WAVE EXPOSURE: L

ASC NUMBER: 251-70-10020

SURVEY TYPE: SS

METHOD: F

DATE: 8/31/89

START TIME: 1430

STOP TIME: N/A

TEAM RECORDER: JEFFREY P. BARNHART

OBSERVERS: Randy Talvi

AGENCY(IES): ADF+G

PHOTOS TAKEN? Y

Roll #: 89 RGT-001-K Frames: 6

VIDEO TAKEN? N Tape Number:

Counter Start:

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. S2-3-1H

2. S2-3-2H

3. S2-3-1MP

4. S2-3-2MP

5. S2-3-1P

6. S2-3-2P

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	250m	3m	750	Ø			NO oil observed
SITE 2	200m	3m	600	Ø			NO oil observed
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: No oil observed

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES	SS				
COUNT					

COMMENTS: site no. S2-3. Salmon spp. which appeared to be Coho were observed jumping at stream mouth and in the Bay. Shangin Bay, Shuyak Island.



89 Stream Survey

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

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METHOD: F
DATE: 8/31/89
START TIME: 1430
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OBSERVERS: Randy Talvi

AGENCY(IES): ADFG

PHOTOS TAKEN? Y
Roll #: 89RGT-001-K Frames: 6
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. S2-3-1H 2. S2-3-2H 3. S2-3-1MP
4. S2-3-2MP 5. S2-3-1P 6. S2-3-2P

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	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
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SITE 3							
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OVERALL OIL IMPACT: No oil observed

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES	SS				
COUNT					

COMMENTS: site no. S2-3. Salmon spp. which appeared to be coho were observed jumping at stream mouth and in the Bay. Shangin Bay, Shuyak Island.

Shangin Bay, Shuyak Island

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI (X) AP OBSERVER(S) JEFF BARNHART
Randy TALVI

SITE NO. 52-3 AERIAL PHOTO NO. K1-7 CAT NO. 251-70-10020

STREAM NAME _____ * NLAT 58° 33' 30" * WLONG 152° 27' 0"

DATE 08/31/89 TIME 1430 TIDE: Low slack (Flood) High slack Ebb

CATALOGED ANADROMOUS STREAM? (Y) N ANAD. FISH FOUND? (Y) N

OIL FOUND IN STREAM? Y (N) OIL FOUND NEAR STREAM (1 MI.)? Y (N)

Sediment
OIL SAMPLES TAKEN? (Y) N ID NOS. 52-3-1 H 52-3-1 MP 52-3-1 P
52-3-2 H 52-3-2 MP 52-3-2 P

Converted to 89 RG7-001-K

35 mm PICTURES TAKEN? (Y) N

ROLL NO(S). 195A 81B

EXPOSURE NO.

DESCRIPTION

6 View of Stream / Bay at mouth of Stream

VIDEO FOOTAGE TAKEN? Y (N) CASSETTE NO(S). _____

DESCRIPTION: _____

* Lat/Long Taken From pilot's navigation chart

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY		
Aerial								
Ground					YES			

COMMENTS: Salmon eggs identified as Coho salmon jumping at Stream mouth / Bay. Observed no salmon in the stream.

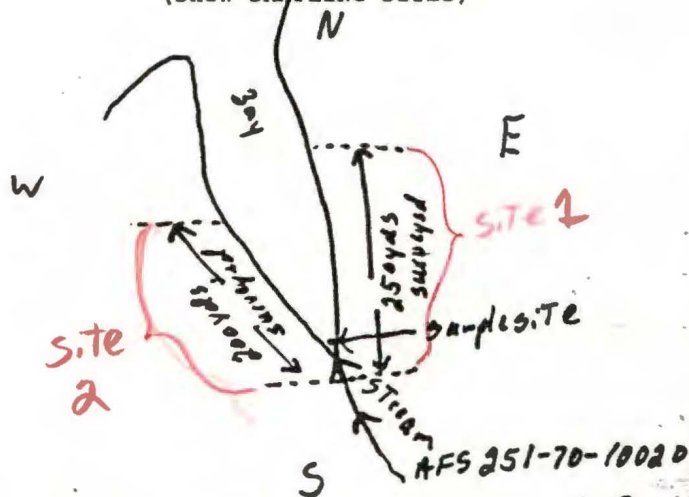
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	None observed	None observed
SURFACE THICKNESS	None observed	None observed
PENETRATION	None observed	None observed

OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)PREDOMINANT
SUBSTRATE TYPE:

1. Bedrock
2. Boulder
3. Cobble
- ④ Gravel
5. Sand
6. Mud
7. Other _____



COMMENTS: Sample Taken at confluence of stream and Bay

S2-3

"*Rite in the Rain*"
ALL-WEATHER WRITING PAPER ©



ALL-WEATHER

LEVEL

Notebook No. 311-M

Alaska Dept of Fish + Game Habitat Div.

Kodiak, Alaska 486-5033

Kodiak Archipelago Anadromous
Fish Habitat Assessment

1
Anadromous Fish Habitat Assessment
Exxon Valdez Oil Spill

Date: 8/31/89

Site number: S2-3

Location of sampling point:

Latitude - $58^{\circ} 33' 30''$ N

Longitude - $152^{\circ} 27' 0''$ W

Other Comments -

Lat/Long Taken from pilot's
aviation chart.

AFS 251-70-10020

Type of sample: Oil
Sediment (circle one)

How many samples taken?

6 samples Taken

2

Volume of Samples Taken

Approx 250 ml. each

Date and time of collection:

08/31/89 1505

List of sample identification numbers:

S2-3-1H S2-3-1MP

S2-3-2H S2-3-2MP

S2-3-1P

S2-3-2P

3

Description of sampling point and sampling methodology

Sampling point was on the Northern shore (bank) at confluence of Stream and Bay.

Sediment samples were placed into the jars using a sterile Tongue blade from surface sediment.

For more details on sampling Protocol see Draft plan. Anadromous Fish Habitat Assessment plan, page 9

4

References (Maps, photographs, video)

Aerial photo K1-7

Kodiak Area Salmon District map

Field Observations

observed no oil in area surveyed.

Jeff Barnhart
8/31/89

5

251-70-
 Site 52-1 at 1 pm Land Stream 10010 Shagin
 Bay (km stream #701) sample taken 1325

In Lagoon approx 125 yards from stream mouth.

with No fish observed.

No oil observed on island or

sample site on the approx 250 yard of
 shore(s) we walked from

the pass to the sampling point

photo Roll # 19SA Frame 5

Site 52-2

Landed Here, observed no oil on island

Lat. $58^{\circ} 35' 30''$ N

Long $152^{\circ} 25' 30''$ W

Stop Stream 10020 Site 52-3 stop 2:30 pm

Flying to this stream from last site 52-2 Randy & I both

observed live fish (appeared to be salmon) and carcasses at

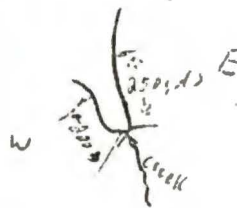
Stream #704 which is not a cataloged stream. Fish were in the

soft water where stream empties in to Shagin Bay



Site 52-3

Stream # 251-70-10020



Due to Topography & Tide constraints

we surveyed from stream mouth to

a point 250 yards up the E shore

of the bay and from the stream to

a point 200 yards out the Bay on the west shore

observed no oil. Salmon eggs jumping in Bay

at creek mouth & out in the Bay it's off. The salmon

eggs appeared to be eaten.

Lat. $58^{\circ} 33' 30''$ N

Long $152^{\circ} 27' 0''$ W

photo K1-7

beach sediment type - gravel

Sediment samples taken

3:05 pm

HT sample JPB

MP, Randy, P

JPB

Roll # 19
 Still photo: 19SA Frame # 6

52-3

ORIGINAL

SEGMENT INSPECTION RECORD

COPY

ADEC # K1-10

Shoreline Segment: SH-1

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

☐

Hot water wash

☐

Mechanical

☐

Warm water wash

☒

Non-mechanical

☐

Water deluge

☐

Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Exxon Comments

Signature

Date 8/27/89

Time 1040

Printed Name

Jim Wade

Existing Shoreline Condition As
Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☒	Very Light

100%

Subsurface Oil

☐ Yes ☒ No

Comment Below

Reassessment

☐ Yes - Necessary

☒ No - Not necessary unless re-oiled

ADEC Rep

Comments

Sand + gravel beach, well protected in Shuang Bay. No Oil Observed.

Existing Shoreline Condition As
Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☒	Very Light

100%

Subsurface Oil

☐ Yes ☒ No

Comment Below

Reassessment

☐ Yes - Necessary

☒ No - Not necessary unless re-oiled

Signature

Date 29 Aug 89 Time 1154

Printed Name JEANNE T. HEMPHILL

FOSC Rep

Demobilization approved/disapproved

Comments

NO OIL OBSERVED. NO CLEANUP REQUIRED.

Signature

Date 29 AUG 89 Time 1200

Printed Name PAUL O. MASELLA

Copy: Exxon ADEC FOSC ISCC

Return All Signed Originals to Exxon

ACE 1852128/HFIS/HF

ORIGINAL

RECEIVED

TYPE A SHORELINE CLEANUP WORK ORDER

Date 8/27/89

Shoreline Segment SH-1

Location (see map)

Shangin Bay

ADEC No. K1-10

Shoreline assessment date 8/11/89

Recommended Cleanup Activities

No cleanup recommended due to the very light oiling conditions and unimpacted environment. Subject to FOSC reassessment at a later date.

Priority Considerations

Class 5-A

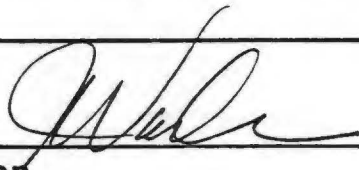
Limited access into bay by skiff during rough weather.

Ecological Constraints

None, since no cleanup is recommended.

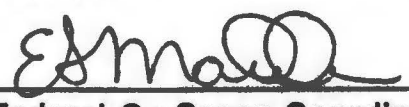
Archaeological Constraints (from site survey)

If any archaeological or historical sites or artifacts are discovered during the clean up activity, they must remain undisturbed and the Exxon archaeologist Jim Haggarty contacted (486-5680) (take action prescribed in the "Guideline for Shoreline Cleanup" dated 4/21/89 as amended) .

Submitted by: 

Exxon

Date 8/22/89

Approved: 

Federal On-Scene Coordinator Representative

Date 30 Aug 89

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/23/89

SHORELINE SEGMENT K1-10-SH-1

LOCATION: (see enclosed map) Shangin Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/11/89

Recommended Cleanup Activity(ies):

- No cleanup recommended due to the very light oiling conditions and unimpacted environment. Subject to FOSC reassessment at a later date.

Priorities/Considerations: Class 5-A

- Limited access into bay by skiff during rough weather.

Ecological Constraints (from site survey):

- None, since no cleanup is recommended.

Archaeological Constraints (from site survey):

- If cleanup is conducted inspection by an archaeological monitor is required.
- If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archaeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

J. Paul McMan
State Historic Preservation Officer *

Date: 8/24/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

A. General

C. Oil Summary

Comments:

SEE PAGE 2 FOR SUPPLEMENTAL INFORMATION

SUPPLEMENTAL SHORELINE OIL EVALUATION25. Oil Type

Fresh	_____	%
Mousse	_____	%
Weathered	<u>50</u>	%
Tar	<u>50</u>	%
	<u>100</u>	%

26. Total Oil Coverage

	Length(yd)	Width (yd)
Very Light:	<u>1/4</u>	<u>1/4</u>
Light:	_____	_____
Moderate:	_____	_____
Heavy:	_____	_____

27. Oil Distribution

pooled/continuous
coating/ splat
cracks / crevices
patties (>10cm diameter)
balls (< 10cm diameter)
asphalt pavement

					Thick			Burial
SP	H	M	M	>1in	Length(yd)	Width(yd)	Depth	
	X							
	X							

28. Preliminary Cleanup Est.

Total TYPE A: 0 yds.
Total TYPE B: 0 yds.
Total TYPE A/B: 0 yds.

29. Remobilization Potential: High/Medium/Low

DOCUMENTATION:

Map/Aerial photo marking segment boundaries See Attached

VTR: Y/N Tape Number (s) KOS-39

Photography: Y/N Roll Number (s) DINC-28

Additional Comments:

11 AUG

FRIDAY

1535 FLY OVER SHANGIN BAY

K01-10-SH-1

1547 x LD ROCKY HARBOR (15 FT HIGH) W/ PACKET
BEACH - BICIPIS

THE BALL W/ OILED (TAREY) C-WD DEPT
(SP). VILT SPAT (HITE/SP) WEATHERED
MOUSE. CAN EASILY SEE WEATHERED
MOUSE IS DEGRADING? ACTUALLY ROCK
GRINDING BY WAVE ACTION IS ABRADING
THE OIL OFF ROCKS. GOOD SIGN
OIL IS INERT - NO MOBILITY

MUCH OF SHANGIN BAY NOT

1640 B MUD/PE3/B - LO ENERGY COVE
& MATCH - NO OBS OIL.1650 P SAME AS B - NO MUD THROUGH
NO OBS OIL

11 AUG

FRIDAY

1740 B

NEAR OF BAY
SAME AS P BEACH COM

VERY L SPAT - ACTUALLY MELTED MOUSE
BALLS HITZ - VERY RARE - 2 DIMINISHES
AS ONE GOES AWAY FROM STREAMS
- NO CLEANUP RECOMMENDED

1821 R S/P BEACH - NO OBS OIL

END K01-10-SH-1

1832 LV FOR ADR

1904 - LO ADR

1930 - AR OFFICE

DINNER & GOOD NIGHT

ACE 1852134

12 AUG

SAT. EDI

0730 OFFICE

WRITE UP K01-10-SH-1

LEVEL

ACE 1852133

ACE 1852135

ECOLOGICAL EVALUATION

LOCATION: Shanghai Bay N. SHUYAK IS SITE: _____ OBSERVER: D. McCormick
 LOCATION PREFIX: KI-G-SH- SEG. NO.: 1 LENGTH: 22200 (M)
 DATE: 8/11/89 TIME (HMM): 1545 TIDE HT.: 7.0 ft (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
Granules + Pebble

LIVE BIOTA

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

Dense on larger boulders

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

Interspersed dense clumps

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

Dense in patches

Littorina

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

Dense in patches

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

None observed

OTHER OBSERVATIONS: Black ducks, terns, gulls, deer tracks, salmon jumps

Quail, Colaptes + Eutamias on shrubs, T. alpestris, H. arcticus
Endorhynchus, sculpin

CLEANUP PRECAUTIONS: None since no cleanup recommended

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

BIRDS: ospreys, 2 bald eagles (1 nest see map)

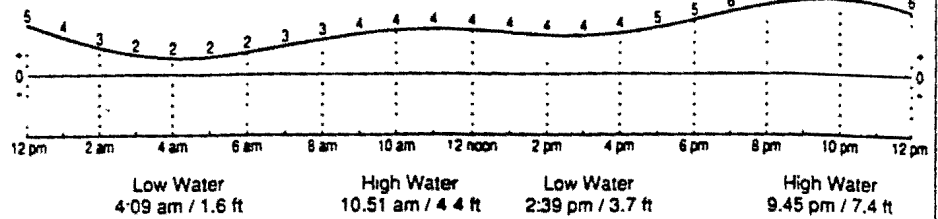
GENERAL OBSERVATIONS: Five stops were made along this segment to look for oil.

Some very light splatter was observed in the upper ITZ on beach #1.

At stop #4 a few mouse peltus were found in the upper ITZ but not enough to warrant cleanup.

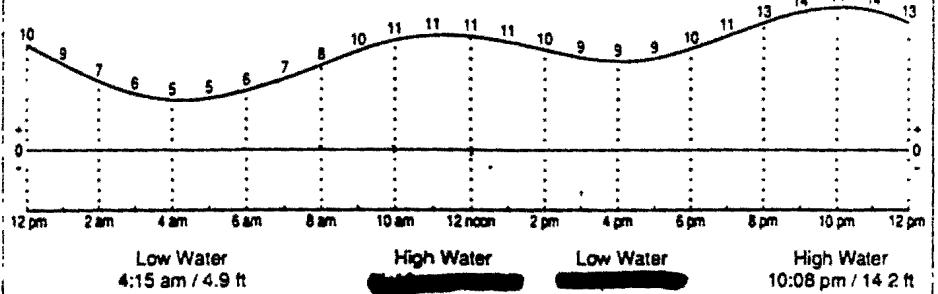
Kodiak

Friday 11 August



Seldovia

Friday 11 August



ADJUSTED TIDE
FOR SHADOWN BAY
August 11, 1989

11.4
- .8
9.6

8 =
2.2

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/11/89 Location AFOGNAK C-2/C-3 Site SECTION K-1/10

Location Prefix SH Segment # 1 Length 22200m

Survey Method:

Air ~90% (A - indicate on map) Boat - (A - indicate on map)

Ground ~10% (G - indicate on map)

Known cultural resources (AHRS #) AFO-83 Data Source AHRS

Oil conditions/beach visibility LIGHT; OCCASIONAL SPLASHES / VISIBILITY GOOD

Width of beach zone surveyed 0-20 m Tree fringe surveyed 0-10m

Cultural resources observed in beach zone (AHRS code) HSP, MDN

Cultural resources observed in tree fringe (AHRS code) -

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

Shore Profile GENTLY SLOPING PEBBLE/LOBBLE BEACHES; SOME ROCKY HEADLANDS

Fresh Water Sources STREAMS

Sea Exposure ENTRANCE TO BAY EXPOSED TO NORTH; SHANGIN BAY PROTECTED INLAND

Access/Safety ACCESSIBLE BY AIR OR BOAT

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 # CLD-1 Frames 15, 16, 19-25

B/W Roll # Frames

Observer(s) C. DONTA

Time survey started 15:30 Time survey ended 18:30

Cultural resource considerations/restraints:

STANDARD CONSTRAINTS; SITE NOT ERODING BADLY, CLEAR OF OILED AREAS
AND NOT DIRECTLY ON BEACH

FISH HABITAT ASSESSMENT FORM

JEFF BARNHART

REGION: PWS KP, CI AP OBSERVER(S) Randy TALVISITE NO. 52-3 AERIAL PHOTO NO. K1-7 CAT NO. 251-70-10020STREAM NAME NLAT $58^{\circ} 33' 30''$, WLONG $152^{\circ} 27' 0''$ DATE 08/31/89 TIME 1430 TIDE: Low slack Flood High slack EbbCATALOGED ANADROMOUS STREAM? (Y) N ANAD. FISH FOUND? (Y) NOIL FOUND IN STREAM? Y (N) OIL FOUND NEAR STREAM (1 MI.)? Y (N)Sediment
OIL SAMPLES TAKEN? (Y) N ID NOS. 52-3-1 H 52-3-1 MP 52-3-1 P
52-3-2 H 52-3-2 MP 52-3-2 P35 mm PICTURES TAKEN? (Y) N ROLL NO(S). 195A

EXPOSURE NO. DESCRIPTION

6 View of Stream / Bay at mouth of StreamVIDEO FOOTAGE TAKEN? Y (N) CASSETTE NO(S). _____

DESCRIPTION: _____

* Lat/Long Taken From pilot's navigation chart

ACE 67258541FF

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY		
Aerial								
Ground					YES			

COMMENTS: Salmon eggs identified as Coho salmon jumping at
Stream mouth / Bay. Observed no salmon in the stream.

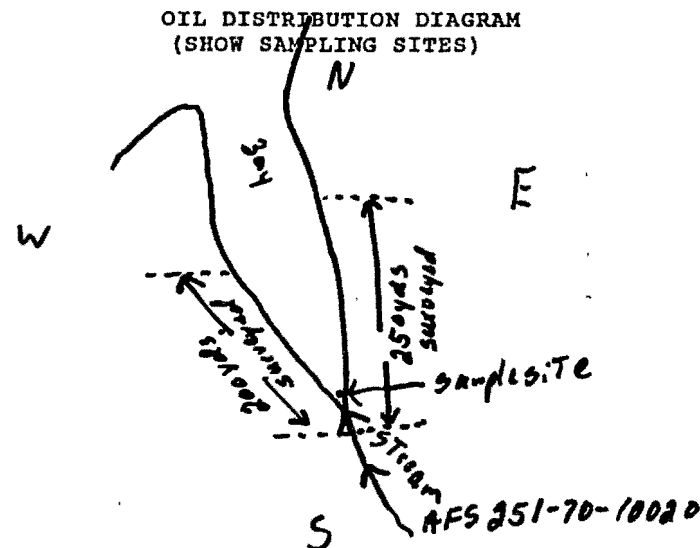
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	<u>None observed</u>	<u>None observed</u>
SURFACE THICKNESS	<u>None observed</u>	<u>None observed</u>
PENETRATION	<u>None observed</u>	<u>None observed</u>

OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)PREDOMINANT
SUBSTRATE TYPE:

1. Bedrock
2. Boulder
3. Cobble
4. Gravel
5. Sand
6. Mud
7. Other _____

COMMENTS: Sample Taken AT confluence of Stream and Bay

ACE 6725855

S2-3

"Rite in the Rain"
ALL-WEATHER WRITING PAPER ®



ALL-WEATHER

LEVEL

Notebook No. 311-M

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

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Alaska Dept of Fish + Game Habitat Div.
Kodiak, Alaska 486-5033

Kodiak Archipelago Anadromous
Fish Habitat Assessment

ACE 6725856

Anadromous Fish Habitat Assessment
Exxon Valdez Oil Spill

Date: 8/31/89

Site number: S2-3

Location of sampling point:

Latitude - 58° 33' 30" N

Longitude - 152° 27' 0" W

Other Comments:

Lat/Long Taken from pilot's
aviation chart.

AFS 251-70-10020

Type of sample: Oil (circle one)
Sediment

How many samples taken?

6 samples Taken

ACE 6725857

2

Volume of Samples Taken

Approx 250 ml. each

Date and time of collection:

08/31/89 1505

List of sample identification numbers:

S2-3-1H S2-3-1MP

S2-3-2H S2-3-2MP

S2-3-1P

S2-3-2P

3

Description of sampling point and sampling methodology

Sampling point was on the Northern shore (bank) at confluence of Stream and Bay.

Sediment samples were placed into the jars using a sterile Tongue blade from surface sediment.

For more details on sampling Protocol see Draft plan Anadromous Fish Habitat Assessment plan, page 9

ACE 6725858

4

References (Maps, photographs, video)

Aerial photo K1-7

Kodiak Area Salmon District map

Field Observations

Observed no oil in area surveyed.

Jff Barnhart
8/31/89

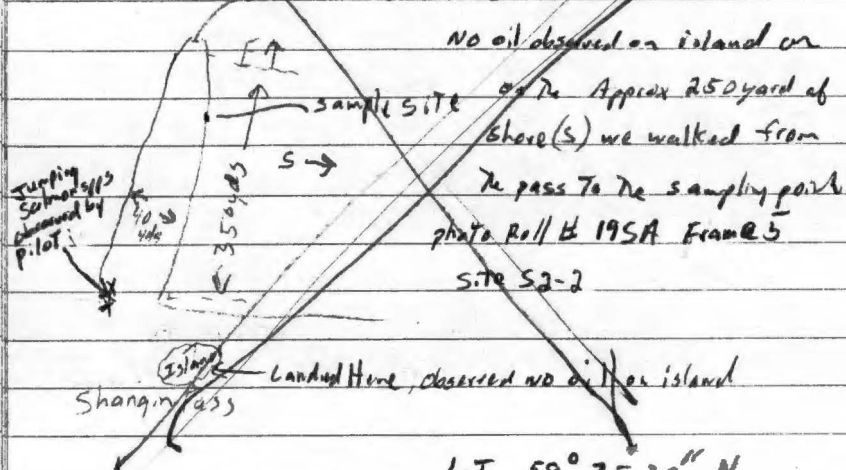
5

ACE 6725859

Depart site S2-1 at 1 pm Land Stream 10010 Shagin Bay (km stream #701) sample taken 1325

in Lagoon approx 12.5 yards from stream mouth

note: No fish observed.



Lat. $58^{\circ} 35' 30''$ N

Long $152^{\circ} 25' 30''$ W

Stop Stream 10020 site S2-3 stop 2:30 pm

Flying to this Stream from last site: S2-2 Randy & I both

observed live fish (appeared to be salmon) and carcasses at

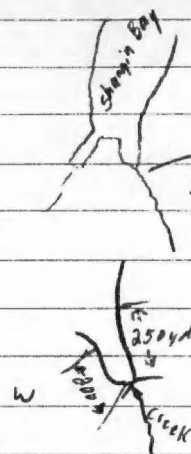
Stream #704 which is NOT a cataloged stream. Fish were in the

soft water where stream empties in to Shagin Bay

Roll #
Still photo: 195A Frame #6

site S2-3

Stream # 251-70 - 10020



Due to Topography & Tide constraints we succeeded from stream mouth to a point 250 yards up the E shore of the bay and from the stream to a point 200 yards out the Bay on the west shore observed no oil. Salmon spp jumping in Bay at creek mouth & out in the Bay itself. The salmon spp appeared to be chum.

Lat. $58^{\circ} 33' 30''$ N

Long $152^{\circ} 27' 00''$ W

photo K1-7

beach sediment type - gravel

Sediment samples taken

3:05 pm

HT sample JPB

MP, Randy, P

JPB

ACE 6725861-L/FF

ACE 6725860