ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2622510060
SEGMENT: KU008

 DATE PRINTED: 07/25/91

LOCATION: KUKAK BAY

SURVEY TYPE: 90 PRE SCREEN - SS METHOD: GROUND

DATE: 04/28/90 TEAM RECORDER: WEISS

START TIME: 1420 OBSERVERS: BARNHART THOMAS
END TIME: 1428

TIDES: FLOOD AGENCY: FG EXX
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: - N

STATION: 2622510060 ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: N OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: MOD SHORELINE TYPE: BEACH

SUBSTRATE TYPE: BEDROCK 10 BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL 40 SAND 50 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: - N

| SPECIES: | COUNT: |
|---|---|
| -0- | -0- |
| -0- | -0- |
| -0- | -0- |
| -0- | -0- |
| -0- | -0- |

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST



DATE PRINTED: 07/26/91

STREAM# : 2622510060
SEGMENT#: KU008

SURVEY TYPE : 90 PRE SCREEN - SS
LOCATION: KUKAK BAY
DATE: 04/28/90
TIMES: 1420 - 1428
TEAM RECORDER: WEISS

-- OILING EXTENT --

| SITE# | SITE TYPE | DEPTH (cm) | LENGTH (m) | WIDTH (m) | AREA (m) | % | THICK (cm) | PEN (cm) | OIL TYPE CODES |
|---|---|---|---|---|---|---|---|---|---|
| 1 | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- N |

COMMENTS:
NO OIL FOUND. RECOMMEND NO ANADSSAT.

90 PRESCREEN

ADF&G MULTI-ASSESSMENT DATA FORM

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

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

METHOD: Aerial (Ground) Boat

3 DATE: 4/28/90

4 START TIME: 1420

5 STOP TIME: 1428

6 SEGMENT #: KU008A

7 STATION #:

8 K-UNIT: K0921

9 STAT AREA:

10 LAT:

11 LONG:

12 SOURCE: Map Loran

13 LOCATION: KUKAK BAY, AK PENINSULA

14 DESCRIPTION:

15 HIGH TIDE TIMES: /

16 HIGH TIDE HTS: /

17 LOW TIDE TIMES: 1136 /

18 LOW TIDE HTS: ~4.2 /

19 TIDE HT AT SURVEY:

Ebb Slack (Flood) Slack

20 USCG QUAD:

21 TEAM RECORDER: E. WEISS

22 OBSERVERS: J. BARNHART, B. THOMAS

23 AGENCY: ADFG / EXXON

24 PHOTOS TAKEN: Y N ?

Roll #: Frame:

25 VIDEO TAKEN: Y ✓ TAPE#:

Start: End:

26 SAMPLES TAKEN? Y ✗ Number

Oil

Sediment

Biological

Water

EXTENT OF OIL

| | SHORELINE L | W | M² | % | STREAM L | W | M² | % |
|---|---|---|---|---|---|---|---|---|
| 27 SURFACE COVERAGE | | | | | | | | |
| 28 SURFACE THICKNESS | | | | | | | | |
| 29 PENETRATION | | | | | | | | |

30 OVERALL OIL IMPACT: ✗ VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y ✗

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

34 WAVE EXPOSURE: High (Moderate) Low

35 SUBSTRATE TYPE: Bedrock 10 Boulder Cobble

Gravel 40 Sand 50 Mud/silt

36 CATALOGED ANAD. FISH SREAM? ✗ N

37 CATALOG #: 262-25-10060

38 STREAM NAME: SOURCE CREEK

39 OIL IN STREAM BED? Y ✗

40 OIL ON STREAM BANKS? Y ✗

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: NOT SURVEYED

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

| Species | Aerial | Ground |
|---|---|---|
| NON | observed | |
| | | |
| | | |
| | | |

COMMENTS: NO OIL FOUND.

+/F/HF
ACE 1951645

RECOMMEND: NO ANABSSAT

90 Prescreen

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: 4/28/90  15 HIGH TIDE TIMES: ____ / ____  21 TEAM RECORDER: E. WEISS

4 START TIME: 1420  16 HIGH TIDE HTS: ____ / ____  22 OBSERVERS: J. BARNHART, B. THOMAS

5 STOP TIME: 1428  17 LOW TIDE TIMES: 1136 /  23 AGENCY: ADFG / EXXON

6 SEGMENT #: KU008A  18 LOW TIDE HTS: ~4.2 /  24 PHOTOS TAKEN: Y N ?

7 STATION #: ____  19 TIDE HT AT SURVEY: ____  Roll #: ____ Frame: ____

8 K-UNIT: K0921  Ebb Slack (Flood) Slack  25 VIDEO TAKEN: Y ✗ TAPE#: ____

9 STAT AREA: ____  20 USCG QUAD: ____  Start: ____ End: ____

10 LAT: ____  11 LONG: ____  26 SAMPLES TAKEN? Y ✗ Number

12 SOURCE: Map Loran  Oil ____

13 LOCATION: KUKAK BAY, AK PENINSULA  Sediment ____

14 DESCRIPTION: ____  Biological ____

Water ____

EXTENT OF OIL

| | SHORELINE L | SHORELINE W | SHORELINE M² | SHORELINE % | STREAM L | STREAM W | STREAM M² | STREAM % |
|---|---|---|---|---|---|---|---|---|
| 27 SURFACE COVERAGE | | | | | | | | |
| 28 SURFACE THICKNESS | | | | | | | | |
| 29 PENETRATION | | | | | | | | |

36 CATALOGED ANAD. FISH SREAM? ✗ N

37 CATALOG #: 262-25-10060

38 STREAM NAME: SOURCE CREEK

39 OIL IN STREAM BED? Y ✗

40 OIL ON STREAM BANKS? Y ✗

30 OVERALL OIL IMPACT: ✗ VL L M H

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? Y ✗

Where: NOT surveyed

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High (Moderate) Low

44 ANADROMOUS FISH OBSERVATION

| Species | Aerial | Ground |
|---|---|---|
| NON | observed | |
| | | |
| | | |
| | | |

35 SUBSTRATE TYPE: Bedrock 10 Boulder ____ Cobble ____ Gravel 40 Sand 50 Mud/silt ____

COMMENTS: NO OIL FOUND.

+IF+HF
ACE 1951645

RECOMMEND: NO ANADSSAT

E. Weiss

## 45 PHOTOLOG

| FRAME(S) | DESCRIPTION |
| --- | --- |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

## 46 OIL DISTRIBUTION DIAGRAM

= Sample taken
= Photo frame # and shot direction.

ACE 1951646

# SEGMENT INSPECTION RECORD

RECEIVED 8/8/89

ADEC # K9-21

Shoreline Segment: KK-2,3,4,5,6,8 & other areas Sub

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [X] Non-mechanical
- [ ] Other

Exxon

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

Exxon Comments

Signature [signature] Date 8/6/89 Time 1715

Printed Name Gayle Cannon

**Existing Shoreline Condition As Visually Determined by USCG**

Surface Oil

| Percent | Degree of Oiling |
|---|---|
| 0 | Heavy |
| <1 | Medium |
| 2 | Light |
| 21 | Very Light |
| 100% | |

Subsurface Oil

[X] Yes [ ] No

Comment Below

Reassessment

[X] Yes - Necessary

[ ] No - Not necessary unless re-oiled

**Existing Shoreline Condition As Visually Determined by ADEC**

Surface Oil

| Percent | Degree of Oiling |
|---|---|
| 0 | Heavy |
| 1 | Medium |
| 0 | Light |
| 75 | Very Light |
| 100% | |

of beach section walked.

Subsurface Oil

[X] Yes [ ] No

Comment Below

Reassessment

[X] Yes - Necessary

[ ] No - Not necessary unless re-oiled

ADEC Rep

Comments K9-21 was inspected by air for the most part. From (over)

Signature [signature] Date 8-20-89 Time 5PM

Printed Name Clarke A Pelz

FOSC Rep

Demobilization approved/disapproved

Comments Inspected with ADEC, NRS and Exxon Rep See Comment on Reverse

Signature [signature] Date 8-20-89 Time 1315

Printed Name D.A. Maguire

Copy: Exxon ADEC FOSC ISCC Return All Signed Originals to Exxon

ACE 1951647 +/S

K9-21(8)

8-20-85

Noted in segment KK-6 (Black is scat drift)
1 corner of drift approx 1 x 1.5 sq m of mousse
approx 7.5cm thick, also oil scattered loss of
stone beach area. All type A work complete
and satisfactory. Reassessment for type B
next spring is recommended.

D.M. Masson

ADEC an up to date NPS survey compilation indicated that much of this area was light or very light. From the air very little oil was seen; occasional splatters on drift and no large stains. In KK-6, ~~Kulichkof~~ directly inland of Kulichkof Island, a bay was found where some pooled oil was ~~found~~ discovered; Several square feet of 5" thick oil. ~~It appeared to me that~~ There is still some type-A work to do here, however the expediency of redeploying a team to this area is questionable.

ACE 1951648

ORIGINAL

RECEIVED 8/8/89

# SEGMENT INSPECTION RECORD

ADEC # K9-21

Shoreline Segment: KK ~~K0~~-2,3,4,5,6,8 & other areas Sub

Yards Signed Off: All segments

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [X] Non-mechanical
- [ ] Other

Exxon

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

Exxon Comments

Signature [signature] Date 8/6/89 Time 1715

Printed Name Gayle Cannon

**Existing Shoreline Condition As Visually Determined by USCG**

Surface Oil

| Percent | Degree of Oiling |
|---|---|
| 0 | Heavy |
| <1 | Medium |
| 2 | Light |
| 2 | Very Light |

100%

Subsurface Oil

[X] Yes [ ] No

Comment Below

Reassessment

[ ] Yes - Necessary

[X] No - Not necessary unless re-oiled

**Existing Shoreline Condition As Visually Determined by ADEC**

Surface Oil

| Percent | Degree of Oiling |
|---|---|
| 0 | Heavy |
| 1 | Medium |
| 0 | Light |
| 75 | Very Light |

of beach section walked.

100%

Subsurface Oil

[X] Yes [ ] No

Comment Below

Reassessment

[X] Yes - Necessary

[ ] No - Not necessary unless re-oiled

ADEC Rep

Comments: K9-21 was inspected by air for the most part. From (over)

Signature [signature] Date 8-20-89 Time 5PM

Printed Name Clarke A Pelz

FOSC Rep

Demobilization approved/disapproved

Comments: Inspected with ADEC, NPS and Exxon Reps See comment on Reverse

Signature [signature] Date 8-20-89 Time 1315

Printed Name D.M. Maguire

Copy: Exxon ADEC FOSC ISCC Return All Signed Originals to Exxon

ACE 1951649

8-20-85

Noted in segment KK-6 (Block is SCAT data)
a corner of area approx 1000.5 sq m of mousse
approx 7.5cm Black, also oil scattered loss of
stone beach area. All type A work complete
and satisfactory

D.M. Masuda

ADEC an up to date NPS survey compilation indicated that much of this area was light or very Light. From the air very little oil was seen; occasional splatters on drift and no large stains. In KK-6, ~~Kulichkof~~ directly inland of Kulichkof Island, a bay was found where some pooled oil was ~~found~~ discovered; Several square feet of 5" thick oil. ~~It appeared to me that~~ There is still some type-A work to do here, however the expediency of redeploying a team to this area is questionable.

ACE 1951650

ORIGINAL

# TYPE A SHORELINE CLEANUP WORK ORDER

8/3/89

**Date** 8/02/89 **Shoreline Segment** K9-21-KU-2,3,4,5,6,8

**Location (see map)**

Kukak Bay

**ADEC No.** K9-21 **Shoreline assessment date** 7/15/89

**Recommended Cleanup Activities**

Manual removal of mousse patties, oiled seaweed & debris. Manual removal of oil coatings from rocky/boulder areas at end of pocket beaches. No Cleanup recommended in KU-1,7,9,10

**Priority Considerations**

KU-2 Class 5-A Segment located within Katmai National Monument. Numerous salmon rivers in Kukak Bay, as well as extensive clam beds and dungeness crab nursery grounds. KU-3 Class 4-A Segment located within Katmai National Monument. Harbor seal handouts and Dungeness crab nursery in Bay. Herring spawning area across bay in Devils Cove. Priority Considerations continued on next page.

**Ecological Constraints**

KU-2 For beaches 2 and 3 where cleanup is recommended: Avoid foot traffic over healthy biota on rocky points at each end of the beach. Avoid oil contamination of stream on beach #3.KU-3 Avoid excessive foot traffic on healthy biota and rocky points. Work at midtide plus or take appropriate measures to protect lower intertidal zone. Ecological Constraints continued on next page.

**Archaelogical 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 ammended ).

**Submitted by:** [signature] **Date** 8/2/89

Exxon

**Approved:** [signature] **Date** 5 Aug 89

Federal On-Scene Coordinator Representative

by Direction

ACE 1951651

**Recommended Cleanup Activities:**

KU-4 Manual removal of oiled debris. Manual removal of mousse coatings (rocky/boulder areas) and pools where present.
KU-5 Manual removal of contaminated drift debris, patches of mousse and any pooled oil.
KU-6 Manual removal of contaminated debris, patches of mousse and small pools of oil. Manual removal of oil coatings from rocks and boulders.
KU-8 Removal of occasional tar balls on beaches #1 and #2 (see map).

**Priorities/ Considerations:**

KU-4 Class 4-A Segment located within Katmai National Monument. Harbor seal handouts and Dungeness crab nursery in Bay.
KU-5 Class 4/5-A Segment located within Katmai National Monument. Bald eagle nest at northern end of segment. Harbor seal handouts.
KU-6 Class 4-A Segment located within Katmai National Monument. Eagle nests located within this segment. Harbor seal handouts and seabird colonies within segment. Extensive reefs and rocks offshore.
KU-8 Class 5-A Segment located within Katmai National Monument. Segment contains bald eagle nests, harbor seal handouts and Dungeness crab nursery.

**Ecological Constraints (from site survey)**
KU-4 Avoid oil contamination of streams. Work at mid tide plus or take appropriate measures to protect lower intertidal zone.
KU-5 Avoid oil contamination and heavy foot traffic across healthy low intertidal zone and rocky boulder points between pocket beaches. Avoid oil contamination of streams.
KU-6 Avoid oil contamination of healthy lower intertidal zone streams. Avoid foot traffic on healthy biota and rocky points. Do not disturb eagle nests or seabird colonies on offshore rocks.
KU-8 Avoid heavy foot trraffic across healthy lower intertidal and intertidal rocky boulder outcrops.

(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Block (see enclosed map): K9-21

Includes Shoreline Segments: KU-1 KU-2, KU-3, KU-4, KU-5, KU-6, KU-7, KU-8, KU-9, KU-10

Location: Kukak Bay

Submitted: _____ Date: _____
(for Exxon)

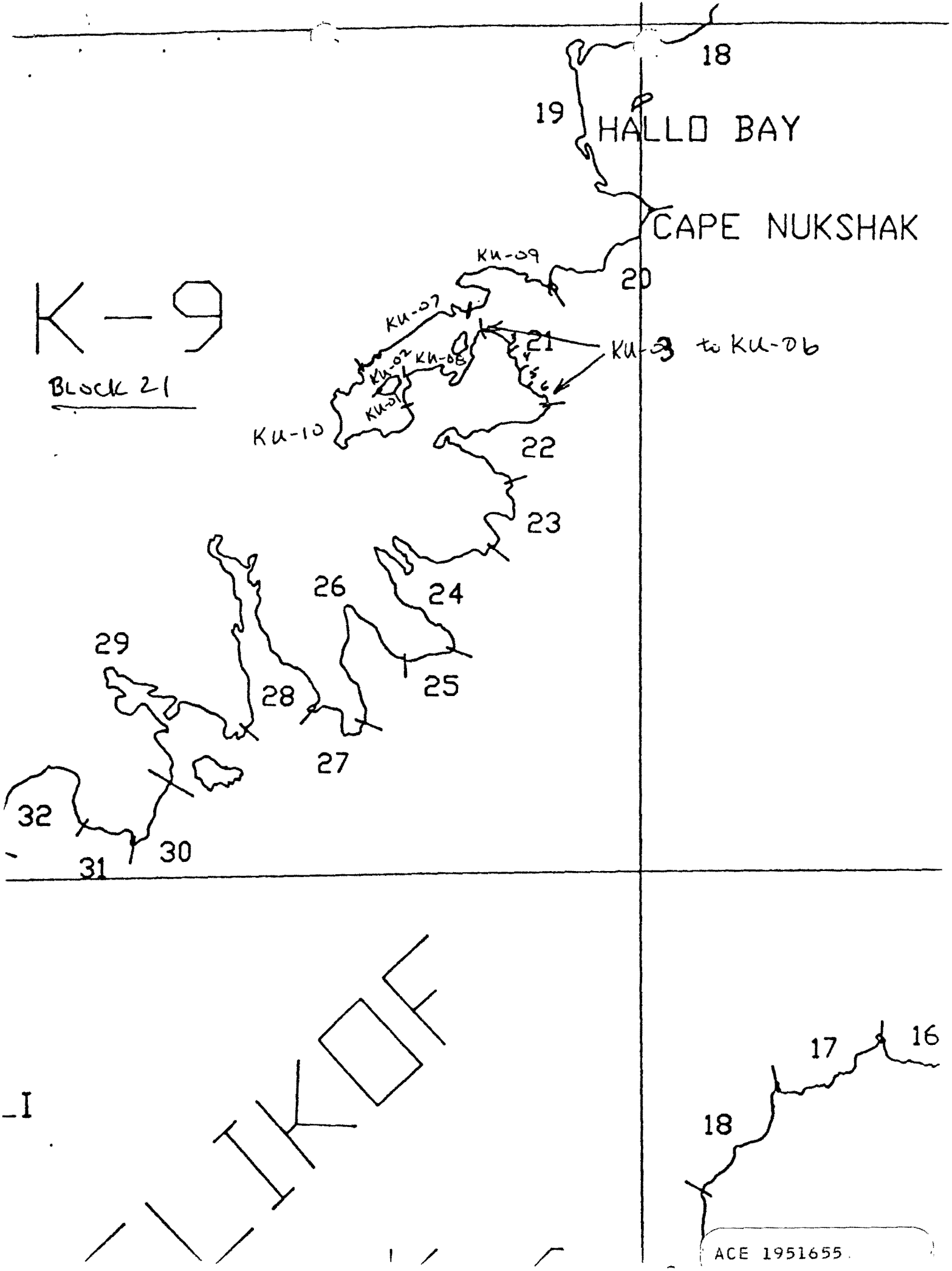
FOSC Approval: _____ Date: _____

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. Requirements for safety and the protection of cultural material must be observed.

CC: KISCC

Exxon

HALL GLACIER
Crevasses
Devils Cove
BAY
KU-03
KU-04
KU-05
KU-02
KU-01
Aguchik Island
Tidal Flat
Gravel
Sand and Gravel
ACE 1951654


K-9
BLOCK 21
HALLO BAY
CAPE NUKSHAK
KU-09
KU-07
KU-02
KU-08
KU-01
KU-10
KU-3 to KU-06
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LIKOF
ACE 1951655

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/28/89 SHORELINE SEGMENT K9-21-~~K8~~K-8

LOCATION: (see enclosed map) Kukak Bay, AK Peninsula

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/23/89

Recommended Cleanup Activity(ies):

- Removal of occasional tar balls and oiled cobbles on beaches #1 and #2 (see map).
- No cleanup recommended on remainder of segment due to apparent absence of oil.

Priorities/ Considerations: Class 5-A

- Segment located within Katmai National Monument.
- Segment contains bald eagle nests, harbor seal handouts and Dungeness crab nursery.

Ecological Constraints (from site survey):

- Avoid heavy foot traffic across healthy lower intertidal and intertidal rocky boulder outcrops.

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.

J. David McMahan Date: 7/30/89
State Historic Preservation Officer *

EXXON: _____ Date: _____

FOSC: _____ Date: _____

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

ACE 1951656

ersion July 05, 1989)

## S. RELINE OIL EVALUATION

te: 07/23/89 / Time: 14:00 - 15:45 Observer: RICK GILLIE
rveyed From: (Foot) (Boat) Helio/Plane Weather: Sun/(Cloud)/(Rain)/Snow/Fog

**CATION**
cation: KUKAK BAY (SOUTH SIDE) Segment ID: K09-21-KK-03
gment Length: 14,000 m. Access: Vehicle/(Boat)/(Barge)/(Helio)/(Float Plane)
cess Restrictions: LIMITED NEARSHORE ROCKS

**ORELINE**
oreline Type: SPI/(BEA)/(COV)/(HLD)/STRT Slope: Lo/(Med)/(Hi)/(Vert)
ve Exposure: High/(Med)/(Low)
diment: B 20 % / C 10 % / P 10 % / G&S ____ % / M ____ % / R 60 %

**L**
g. Degree of Oiling: HEAVY / MODERATE / LIGHT / (VERY LIGHT) / (NONE OBSERVED)
ea of Impact: SU/SP/(H)/M/L

**L DISTRIBUTION**
ntinuous % of Segment ____ SU/SP/H/M/L H/M/L/VL
oradic % of Segment <1 SU/(SP)/(H)/M/L H/M/L/(VL)

| tal | Length(m) | Width(m) |
|---|---|---|
| ry light: | 10 | <1 |
| ht: | | |
| erate: | | |
| avy: | | |

Thickness >1cm: — cm SU/SP/H/M/L
Penetration/Rework: — cm SU/SP/H/M/L
Burial Depth: — cm SU/SP/H/M/L

bilization Potential: High/Medium/(Low)
ift Debris Oiled? Y/(N) Amount: H/M/L/VL SU/SP/H/M/L Type: NONE

**L MORPHOLOGY**

oled Oil: — % SU/SP/H/M/L
ree" Oil: — % SU/SP/H/M/L
lattered: 50 % H/M/L/(VL) SU/(SP)/(H)/M/L
ated: ____ % H/M/L/VL SU/SP/H/M L
ncakes/Balls: 50 % SU/SP/H/M/L

Preliminary Cleanup Est.
Total TYPE A: 10 m
Total TYPE B: ____ m
Total TYPE A/B: ____ m

**WEATHERING**
esh: ____ % SU/SP/H/M/L
usse: ____ % SU/SP/H/M/L
eathered Mousse: 100 % SU/(SP)/(H)/M/L
phalt Mousse: ____ % SU/SP/H/M/L
r: ____ % SU/SP/H/M/L

**MMENTS**
) RARE TAR BALLS ON BEACHES (1) and (2). APPROX 1 PIECE OF MOUSSE (5 cm DIAMETER DIAMETER / 20 M OF BEACH).

) OTHER AREAS (3-6) NO OIL.

ACE 1951657

DOCUMENTATION:

Map/Aerial photo marking segment boundaries K09-21-KK-08

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) RG-3

Sample Numbers Collected: N/A

ACE 1951658

July 23/09 Rick Gillie

SEGMENT K09-21-KK-08

Stop #1 @ 14:00
- shingle cobble beach
- v light oil
- rare oil splatter (mousse)
- recommend removal of oiled debris (stick + rocks)
- oil in SA-KTZ
- concentration - 1 piece (10cm diameter) every 80m of beach

- walk approx 200m of shoreline
- small mousse patches (5cm dia) every 20m of beach
- Very, very light oil

- Clean-up - walk shoreline
  - remove tarballs + oiled sticks

- Rocky shore
- Cliff / boulders
- Pocket gravel / cobble beaches with v v. light oil

14:25 Stop #2
- pocket beach in deep embayment
- 1 tarball observed
- otherwise - NO OIL!

14:60 Stop #3
- head of protected bay
- NO OIL on beaches

15:10 Stop #4
- NO OIL

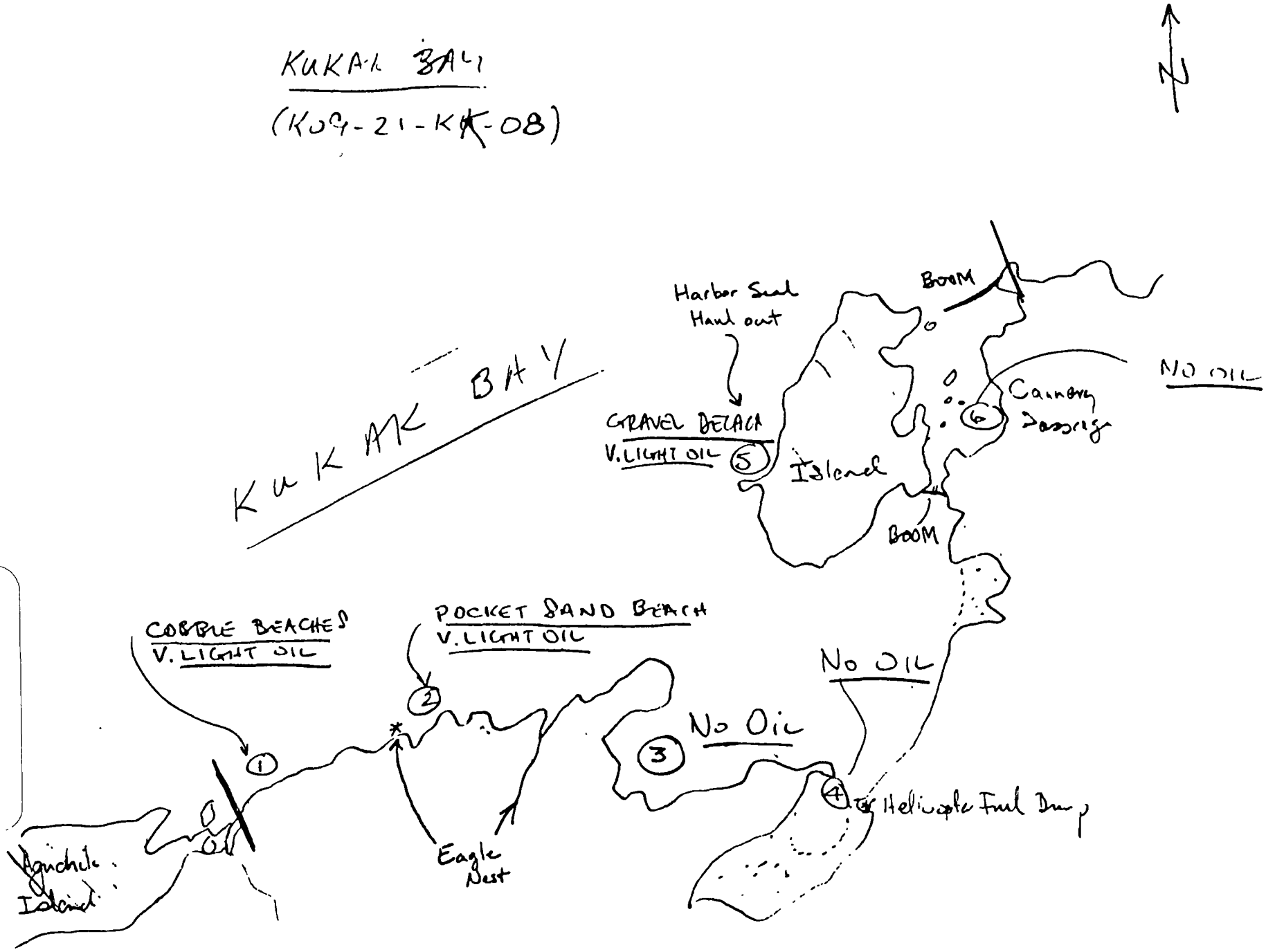
15:23 Stop #5
- pocket gravel beach
- 1-2 tarballs / mousse only

15:45 Thru Cannery Passage
NO OIL

ACE 1951659

KUKAK BAY

(KUG-21-KK-08)




LENGTH = 14,000 M

ACE 1951660

version: 4/24/89

# ECOLOGICAL EVALUATION

LOCATION: Kukak Bay SITE: South Shore OBSERVER: J. Tarpley

LOCATION PREFIX: K9/KU SEG. NO.: K9-21-KK-08 LENGTH: 14,000 (M)

DATE: 7/23/89 TIME (HHMM): 1400 - 1600 TIDE HT.: ~ +1.0m (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)

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

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

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

Margarites & Nucella also present

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

OTHER OBSERVATIONS: Bald Eagle nest in segment. Shell debris on beaches included Mytilus and Saxidomus. Jellyfish in small bays.

CLEANUP PRECAUTIONS: Avoid heavy foot traffic across healthy low ITZ and on intertidal rocky boulder outcrops.

MAMMALS: Otters ____ Harbor Seals ~12 Sea Lions ____ Whales ____

Other Bear tracks; Bear Bed; Harbor seals w/pups bunked out off Agulgik Island.

BIRDS: Eagles, Gulls, Kittiwakes, Harlequin Ducks

GENERAL OBSERVATIONS: ____

ACE 1951661

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 23 July 1989 Location Kukak Bay Site

Location Prefix KU Segment # KU-08 (K9-21/KU-08) Length 14 Km

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source —

Oil conditions/beach visibility No oiling to very light oiling

Width of beach zone surveyed 0-50 m Tree fringe surveyed Up to 10m

Cultural resources observed in beach zone (AHRS code) HTI

Cultural resources observed in tree fringe (AHRS code) HTI

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

Shore Profile Steep rocky shores; gravel/cobble/boulder beaches.

Fresh Water Sources Lake near coastline in western edge of segment.

Sea Exposure Protected to the south.

Access/Safety Boat landings could be dangerous in stormy weather.

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

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

Photos: Color Roll # None Frames —

B/W Roll # TLD-2 Frames 2-15

Observer(s) TY L. DILLIPLANE

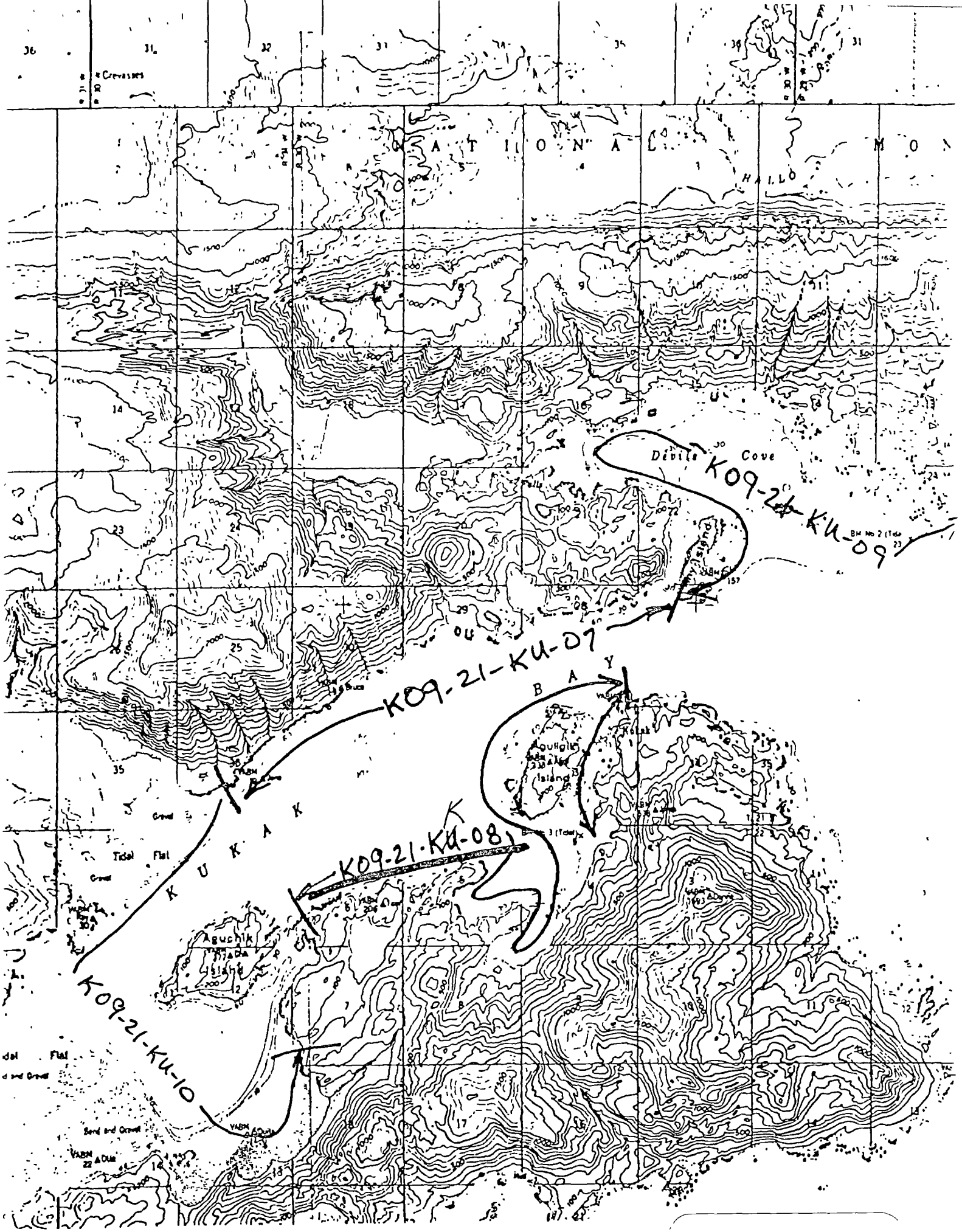
Time survey started 1357 hrs Time survey ended 1547 hrs

Cultural resource considerations/restraints:

(1) Archaeological monitoring is recommended during any clean-up activities.

(2) Standard Constraint.

ACE 1951662


Crevasses
Devils Cove
K09-21-KU-09
K09-21-KU-07
K09-21-KU-08
K09-21-KU-10
Aquiguk Island
Aguchik Island
Tidal Flat
Sand and Gravel

ACE 1951663

# Shoreline Segment Tracking Form

G files

| Zone | Unit-SubUnit-Segment ID | Date |
|---|---|---|
| KODIAK | K9-21 KKK-901 | 8/22/89 |

Shoreline / Segment Name

KUKAK BAY

**Predominant Sediment (circle one)**

Boulder (>256 mm) — Cobble (64-256 mm)
Pebble (4-64 mm) — Gravel (2-4 mm)
Sand (0.06-2 mm) — Mud (<0.06 mm)
Rock — Vertical Cliff

**Impact Classification (circle one) ****

Heavy — Moderate
Light — None — Very Light

**Oiling On Debris (circle one)**

Heavy — Moderate
Light — None

| Seg. Length (yds) | Oiled Width (yds) | % of Seg. Area* Oiled | Penetration (in.) |
|---|---|---|---|
| 29,920 | Ø | Ø | Ø |

* Seg. Area=Seg. Length x Oiled Width

**Treatment / Notes**

**Beach Treatment / Gross Contamination Removal**

Start Date

Completed Date

**Form Filled Out By (circle one)**

SCAT — ADEC — ADF&G — NPS
USFWS — USCG — NOAA — Other_____

** Heavy - >50% discontinuous coverage or >6m continuous band.
Moderate - 10 to 50% discontinuous coverage or 3 to 6 m continuous band.
Light - 1 to 10% discontinuous coverage or 1 to 3m continuous band.
Very Light - <1% discontinuous coverage or <1m continuous band.

Observer: _____

This form must be completed for any beach segment that is being treated, other than SCAT segments, and must be submitted with a map attached which shows the segment boundaries.

-1/L/51HF
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