[Shoreline evaluations, 1989].

Volume 3

Latouche Island

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LIST OF KEY CODES USED ON SHORELINE CLEANUP EVALUATION FORMS

ISLANDS (Locations)

Naked Is.	NA
Peak Is.	PE
Stoney Is.	ST
Eleanor Is.	EL
Ingot Is.	IN
Block Is.	BL
Entrance Is.	EN
Sphinx Is.	SP
Disk Is.	DI
Knight Is.	KN
Smith Is.	SM
Seal Is.	SE
Applegate Is.	AP
Green Is.	GR
L. Green Is.	LG
Agnes (Bass) Is.	AB
L. Smith Is.	LS
Gore Point	GP
Montague Is.	MN
Aguliak Is.	AG
Squirrel Is.	SL
New Year Is.	NY
Murray Is.	MU
Squire Is.	SQ
Crafton Is.	CR
Pt. Nowell	PN
Junction Is.	JU
Chenega Is.	CH
Pleiades Is.	PL
Bainbridge Is.	BA
Flemming Is.	FL
Evans Is.	EV
Elrington Is.	ER
Latouche Is.	LA
Danger Is.	DA

* GEOLOGIC SEDIMENT TYPE

Boulder (>256mm)	B
Cobble (64-256)	C
Pebble (4-64)	P
Granule (2-4)	G
Sand (0.06-2)	S
Mud (less 0.06)	M
Rock	R

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

Supratidal (+SHWL)	SU
HWL to SHWL	SP
Upper 1/3 ITZ	H
Middle 1/3 ITZ	M
Lower 1/3 ITZ	L

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

SHORELINE TYPE

Beach	BEA
Cove	COV
High Angle	HANG
Low Angle	LANG
Vertical	VER
Headland	HLD
Spit	SPI

Comments:

* Multiple entry is acceptable, use decreasing order of type found. (ie. C/G/S where C is most predominant type and S is the least one.)

** Heavy (>6m wide and/or >1.0 cm thick)
Moderate (3-6m wide and/or 0.2-1.0 cm thick)
Light (0.1 -3m wide and/or <0.2 cm thick)
No Oil (free of vissible oil)

BEACH LEVEL

SUPRATIDAL (+SHWL)	SU
HWL to SHWL	SP
UPPER 1/3 ITZ	H
MIDDLE 1/3 ITZ	M
LOWER 1/3 ITZ	L

SEDIMENT TYPE

BOULDER (> 256 mm)	B
COBBLE (64 - 256)	C
PEBBLE (4 - 64)	P
GRANULE (2 - 4)	G
SAND (0.06- 2)	S
MUD (< 0.06)	M
ROCK	R

Can use multiple entries e.g. C/G/S; in which case the first letter is the predominant sediment type and the following are in decreasing order

KEY

LOCATION PREFIX

NAKED IS	NA
PEAK IS	PE
STOREY IS	ST
ELEANOR IS	EL
INGOT IS	IN
BLOCK IS	BL
ENTRANCE IS	EN
SPHINX IS	SP
DISK IS	DI
KNIGHT IS	KN
SMITH IS	SM
SEAL IS	SE
APPELGATE IS	AP
GREEN IS	GR

LOCATION SUFFIX

A unique number which identifies the distinct segment described in this report.

C:\WP\DATA\SHOREVAL.1

(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LATOUCHE ISLAND NORTHEAST BLOCK

Includes Shoreline Segments: LA-15, LA-16, LA-17, [redacted], [redacted], LA-20

Submitted: William Stilwip (for Exxon) Date: 6/17/89

ISCC Reccomendation: Sharon K Christopherson Date: 6-19-89

FOSC Approval: J. W. Kime Date: 6-20-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LATOUCHE ISLAND NORTHEAST BLOCK

Includes Shoreline Segments: ~~LA-15~~, ~~LA-16~~, ~~LA-17~~, LA-18, LA-19, [redacted]

Submitted: _____ Date: 21-06-89
(for Exxon)

ISCC Reccomendation: Sharon K. Christopherson Date: 6-21-89

FOSC Approval: J. W. Kime Date: 6/21/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

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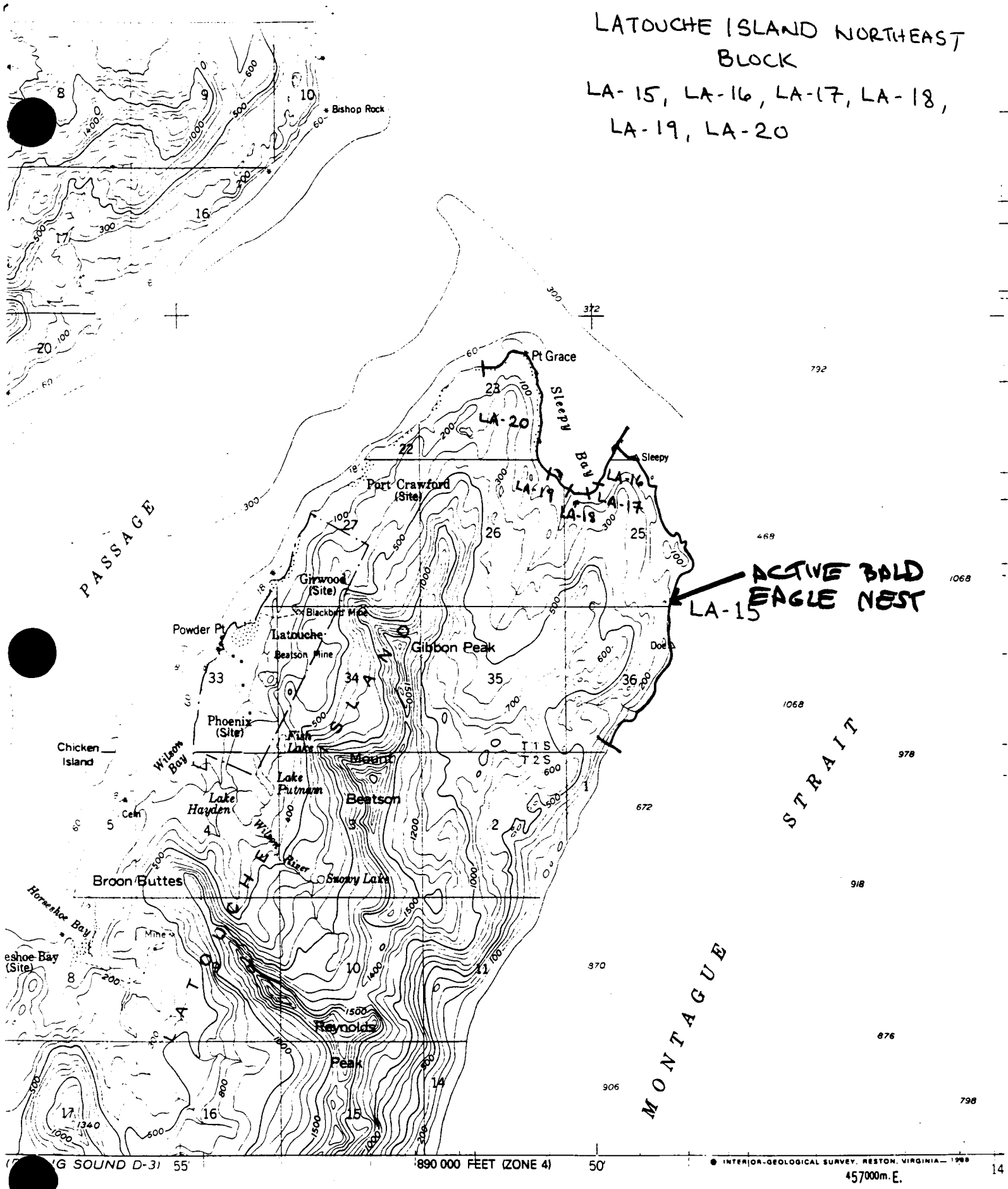
A.DNR
CAC
PWSCA
USFS
SHPO

LATOUCHE ISLAND NORTHEAST BLOCK

LA-15, LA-16, LA-17, LA-18, LA-19, LA-20



SCALE 1:63360

4 MILES

21000 FEET

5 KILOMETERS

ROAD CLASSIFICATION

Light-duty

Trails

ALASKA

CONTOUR INTERVAL 100 FEET

GEODETIC VERTICAL DATUM OF 1929

*****SCOT NOTE*****

PARTICULAR ATTENTION SHOULD BE PAID TO CONTAINING SHEEN IN THE LATOUCHE ISLAND NORTHEAST BLOCK DUE TO FISHERY CONCERNS.

JMR 9/96

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE June 17,1989 SHORELINE SEGMENT LA-15

LOCATION: (see enclosed map) Latouche Island - East of Sleepy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-16-89

Recommended Cleanup Activity(ies):
- Manually remove contaminated drift material(fucus and drift-wood) and patches of mousse.
-Flood/flush with warm to hot water (up to 140 f) on low angle beaches.
- Use moderate to high pressure washing on rock and oiled logs.
- Use other approved methods as appropriate.

Priorities Considerations:
Class : 1 heavy oil/ time sensitive
Class : A subsistance resources present
This segment is the lowest priority in this block and should be left until last, HOWEVER HIGH PRIORITY SHOULD BE GIVEN TO THE STREAM FOR COMPLETION OF TREATMENT BY JULY 10. JMC
Ecological Constraints (from site survey): ACTIVE EAGLE NEST PRESENT, SEE ADVISORY JMC
Clean at midtide + or take appropriate measures to protect lower intertidal zone.
Particular attention should be paid to containing sheen. CATALOGED ANADROMOUS FISH STREAM PRESENT. CONTACT ADF&G AND RAT 48 HOURS PRIOR TO CLEANUP FOR FIELD AUTHORIZATION. JMC
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.

[signature] Date: June, 17 1989
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson Date: 6-19-89

EXXON: W R Vosburgh Date: 6-19-89

FOSC: J. W. Rime Date: 6-20-89

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

SHORELINE OIL EVALUATION

Date: 6/16/89 Time: 17:00 Observer: GRAHAM MACDONALD

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION NE. Latouche Island SEGMENT NUMBER LA-15

LENGTH OF SHORELINE SEGMENT: 4,050 m

ACCESS: Foot/Vehicle/(Boat)/(Barge)/Helio/Float Plane
VERY EXPOSED TO NORTHERLIES, SHALLOW

SHORELINE:

Shoreline Type: SPI/(BEA)/COV/HLD/(STRT) Slope: (LANG)/(HANG)/VER

Wave Exposure: (High)/Med/Low

Sediment: B 20 % / C 10 % / P TRACE % / G TRACE % / S ___ % / M ___ % / R 70 %

Drift Debris on Beach: (Yes)/No (Supra)/(Upper)/(Mid)/Lower Type SEAWEED. LOGS.
LOGS 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 > 75 Width of Band: ≤ 30 m

Sporadic: (Y)/N % of Segment < 10

Est. Oil Thickness where > 1cm: 3 cm Est. Oil Penetration: > 30 OR TO BEDROCK cm

Pooled Oil: > 15 % "Free" Oil: > 10 % Coated: H 90 % / M 10 % / L TRACE %

Fresh ___ % Mousse 70 % Tar Formation: 30 %

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

Comments:

EXPOSED WAVE-CUT PLATFORM W/ ROCKY PROMONTORIES & OCCASIONAL COBBLE POCKET BEACHES; V. HEAVILY OILED, TO DEPTHS OVER 1 M. @ STORM BERMS; MAINLY MOUSSE W/ PRONOUNCED TAR COATING; MOUSSE POOLING COMMON; WAVE WASHING EVIDENT; BEDROCK OFTEN EXPOSED & ACTING AS OIL TRAP IN SOUTHERN SEGMENT.

6/16 17:00

East Sleepy Bay - NE Latouche Isl.

SEGMENT LA-15

Wave cut platform w/ rocky promontories, boulder-cobble beaches - v. exposed. well rounded cobbles, subang. blks; - blocky - slabby.

Heavily oiled beach; >20 m wide, continuously planked L → UHWL; as free mousse, pooled @ strand line and pooled w/ water ~ Mid tide level, coated tar, ~0.5-1 mm th. @ UHWL; logs heavily oiled; pools >20 cm deep

R 20 B 20 cob 50 P+G 20.

bedrock platform exposed ~20%, boulder cobble cover ≤ 1 m thick except @ storm berm.

(Vertically bedded conglom & greywacke) jumbled boulders flank promontories w/ mousse & tar, free & coated, pervasive. Bedrock exposure increases to ~ 40% eastward w/ free mousse common - tar coating can cover > 60% of intertidal zone, typically at higher levels; free mousse > 30 cm deep common @ storm berm - both sides

wave cleaning @ LWL zone very evident, - removes tar & mousse. Westerly longshore drift / rip @ ebb tide.

(A) cobble beach 100 m x 70 m - well washed / flush w/ mousse as light coat & tar as light patchy coat.

steep cliff leads to boulder chaos w/ mousse & tar only in crevices and deep slots between boulders.

(B) cobble beach - heavily oiled M → UHWL self cleaning through L - Mid tide zone. thick "wet mousse" in storm berm. v. high water table - flushes mid-lower beach; oily seaweed; storm berm logs oiled only on lower, seaward scarp of berm. pooled mousse @ SE end below rock bluff. Mousse coating rocks @ underwater in stream; heavy concentration of oiled debris @ stream exit thro' storm berm.

Heavy oiling continues south thro' Δ DOE beaming moderate as mousse patches

trapped in strata traps that run parallel to the shore.

Oil lightens to faint thin tar line @ HWL, then clean oil free boulder stream coast w/ some bedrock exposure & rock promontories -

21:00

END of SEGMENT

version: 4/24/89

ECOLOGICAL EVALUATION

LOCATION: Latouche Is SITE: Sleeper Bay OBSERVER: SMBAN

LOCATION PREFIX: LA SEG. NO.: 15 LENGTH: 4050 (M)

DATE: 6/16/89 TIME (HHMM): 1700 TIDE HT.: -1 to +1 (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

Lower intertidal - very healthy on boulders. High intertidal heavily oiled. Spread on cobble beaches. Holdfasts with two fronds in lower ITZ.

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

Dense on rocks - healthy in lower ITZ on boulders. Also found among gravel on beaches, coated even in lower ITZ. Abundant at FW site.

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

Continuous on boulders - many heavily oiled. Oiled orgs. being [illegible] by Nucella. Healthy adults and spat in lower intertidal.

Littorina

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

Many in oil zone with oiled Fucus, but alive.

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

Well attached orgs. in tidal pool with oil sheen. Many healthy orgs in lower intertidal

OTHER OBSERVATIONS: Pagurus in oiled pool - alive. Pisaster and Solaster subtidal not oiled. Oily bear tracks. Orchestia in unoiled gravel beaches - healthy. Bear skeleton. Cyanea in subtidal - healthy. Deer skull.

CLEANUP PRECAUTIONS: Take precautions to protect lower ITZ.

A stream in the seg. is oiled within the stream bed. The RAT advisor must approve this cleanup.

MAMMALS: Otters X Harbor Seals X (Haulout (see map)) Sea Lions ____ Whales ____

Other ____

BIRDS: Sandpipers. Two eagles nests (see map) Eagles

GENERAL OBSERVATIONS: Heavy oiling in segment. However Boulders support a healthy lower intertidal community.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date: June 16, 1989 Location: Latouche Island Site: N & E shoreline

Location Prefix: LA Segment #: 15 Length: 4,050 m

Survey Method:

Air _____ (A - indicate on map) Boat: x (80%) (A - indicate on map)

Ground: x (20%) (G - indicate on map)

Known cultural resources (AHRS #): none Data Source: N/A

Oil conditions/beach visibility: heavy to moderate; fair to good visibility

Width of beach zone surveyed: 8-15 m Tree fringe surveyed: 5-100 m

Cultural resources observed in beach zone (AHRS code): none

Cultural resources observed in tree fringe (AHRS code): none

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

Shore Profile: steep bedrock shore with several moderate angle beaches

Fresh Water Sources: several small streams including 1 salmon stream

Sea Exposure: exposed

Access/Safety: poor to fair depending on sea conditions

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: N/A

B/W Roll #: JCH-1 Frames: 24-27

Observer(s): Jim Haggarty / Peter Phippen

Time survey started: 1700 Time survey ended: 2100

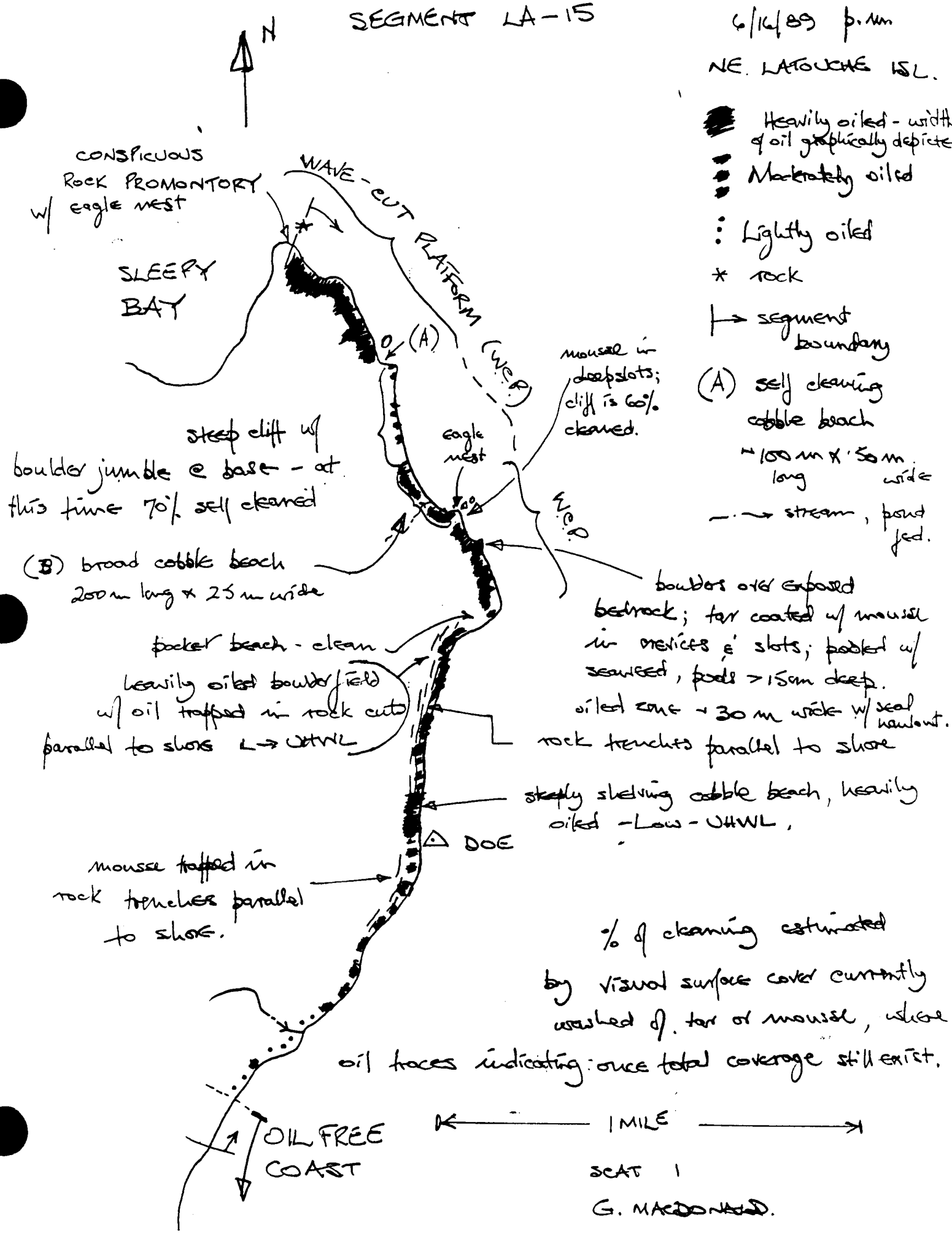
Cultural resource considerations/restraints:

Standard constraints

SEGMENT LA-15

6/14/89 p.m.

NE. LATOUCHE ISL.



% of cleaning estimated by visual surface cover currently washed of tar or mousse, where oil traces indicating once total coverage still exist.

SCAT 1

G. MACDONALD.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE June 17, 1989 SHORELINE SEGMENT LA-16

LOCATION: (see enclosed map) Latouche Island - Sleepy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-14-89

Recommended Cleanup Activity(ies):
- Use omniboom moderate to high pressure washing only on rock, boulders and cobbles.
- Due to difficult access, limit human traffic if possible because of safety factors

Priorities Considerations:
Class: 1 heavy oil/time sensitive
Class: A Subsistence resources present

Ecological Constraints (from site survey):
An active Bald Eagle's nest is located in the northern portion of the segment. Work at midtide + or take appropriate measure to protect lower intertidal zone. Particular attention should be paid to containing sheen.

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.

Robert R. Shaw Date: June 17, 1989
State Historic Preservation Officer *

ISCC: Sharon K Christopherson Date: 6-19-89

EXXON: W E Wabamp Date: 6-19-89

FOSC: J. W. Rice Date: 6-20-89

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

SHORELINE OIL EVALUATION

Date: 6/14/89 Time: 18:00 Observer: RICK GILLIE

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION LATOUCHE ISLAND SEGMENT NUMBER LA-16

LENGTH OF SHORELINE SEGMENT: 500 m

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

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C___% / P___% / G___% / S___% / M___% /R 90 %

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

OIL

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

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

Continuous: Y/N % of Segment 100 Width of Band: 30 m

Sporadic: Y/N % of Segment_____

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: — cm

Pooled Oil: ____% "Free" Oil: ____% Coated: H 100 % /M____% /L____%

Fresh 90 % Mousse 10 % Tar Formation: ____%

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

Comments:

- IRREGULAR SHORELINE
- ACCESS HINDERED

ECOLOGICAL EVALUATION

LOCATION: La Touche Island SITE: _____ OBSERVER: MEYER

LOCATION PREFIX: LA SEG. NO.: 16 LENGTH: 500 (M)

DATE: 06/14/89 TIME (HHMM): 1800 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

Some areas Fucus heavily oiled, often Mid/High oiled and low tidal fucus oil free.

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

Spat in LTZ

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

Most of segment done by boat; Nucella patchy on headland rock

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

OTHER OBSERVATIONS: Pycnopodia, some small fishes offshore

CLEANUP PRECAUTIONS: None recommended. Looks like good candidate for omniboom.

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

BIRDS: 2 Bald Eagles and nest at eastern edge of segment

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/14/89 Location Latouche Island Site

Location Prefix LA Segment # LA-16 Length 500

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 heavy

Width of beach zone surveyed 7 m Tree fringe surveyed 0

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

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

Shore Profile steep boulder pebble

Fresh Water Sources none

Sea Exposure open 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

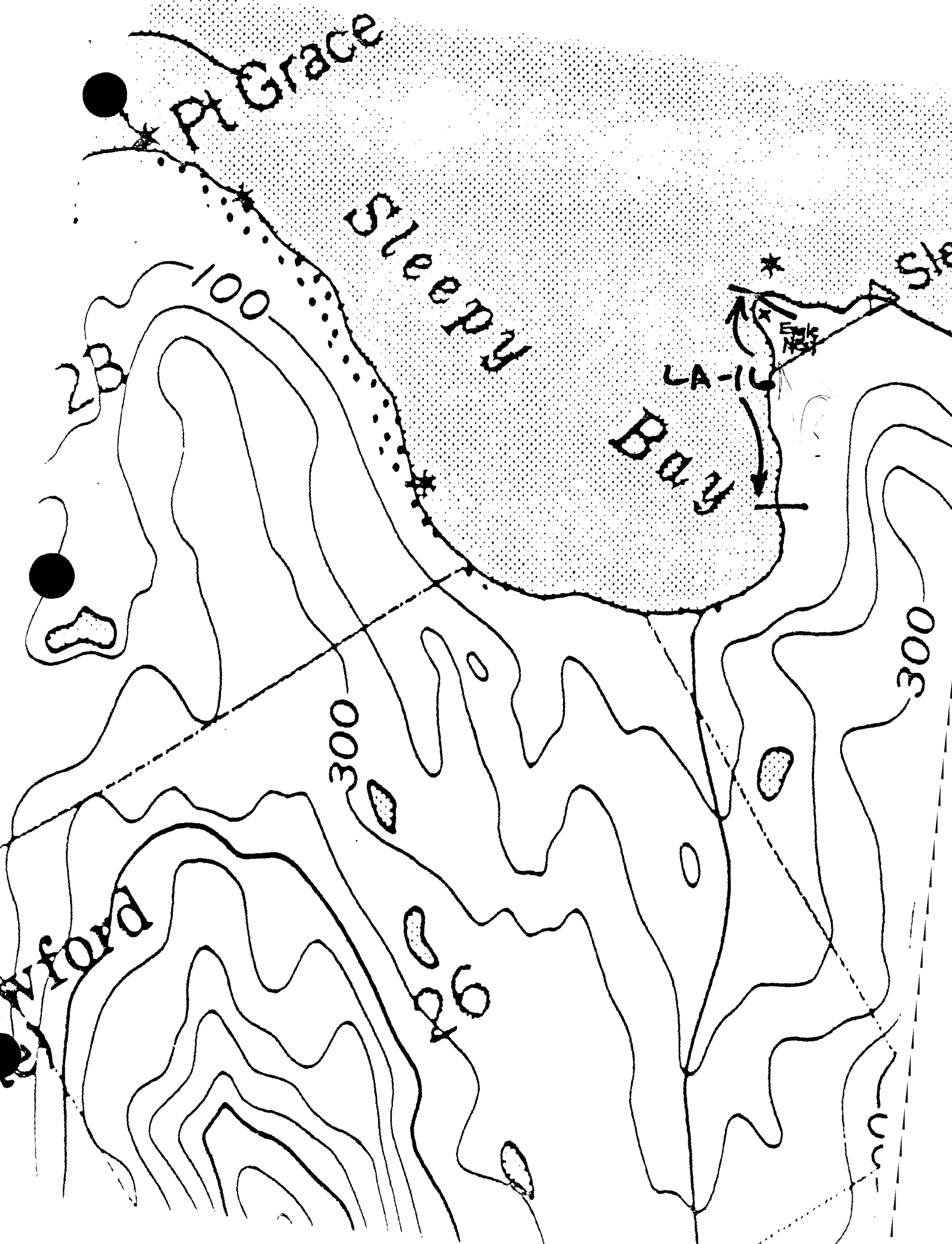
B/W Roll # Frames

Observer(s) C. Milburn

Time survey started 1755 Time survey ended 1820

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup notify, upon archaeologist, C Mobley, immediately.


Pt Grace
Sleepy Bay
100
23
300
300
26
LA-16
EMPLACEMENT

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE June 17, 1989 SHORELINE SEGMENT LA-17

LOCATION: (see enclosed map) Latouche Island - Sleepy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-14-89

Recommended Cleanup Activity(ies):
- Use omniboom moderate to high pressure washing only on rock, boulders and cobbles.
- Due to difficult access, limit human traffic if possible because of safety factors.

Priorities Considerations:
Class: 1 heavy oil/time sensitive
Class: A Subsistence resources present

Ecological Constraints (from site survey):
Work at midtide + or take appropriate measure to protect lower intertidal zone. Particular attention should be paid to containing sheen.

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.

_____ Date: June 17, 1989
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson Date: 6-19-89

EXXON: W R Osborne Date: 6-19-89

FOSC: J. W. Rowe Date: 6-20-89

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

SHORELINE OIL EVALUATION

Date: 6/14/89 Time: 17:40 Observer: RICK GILLIE

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION LATOUCHE ISLAND SEGMENT NUMBER LA-17

LENGTH OF SHORELINE SEGMENT: 400 m

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 60 % / C 30 % / P 10 % / G___ % / S___ % / M___ % /R___ % LOGS WEED

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

OIL

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

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

Continuous: (Y)/N % of Segment 100 Width of Band: 50 m

Sporadic: Y/N % of Segment_____

Est. Oil Thickness where > 1cm: 5 cm Est. Oil Penetration: 10 cm

Pooled Oil: 5 % "Free" Oil: ____ % Coated: H 100 % /M___ % /L___ %

Fresh 90 % Mousse 10 % Tar Formation: ____ %

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

Comments:

- POOLED MOUSSE AT HIGH TIDE ZONE
- OILED DEBRIS
- GOOD ACCESS BY BARGE

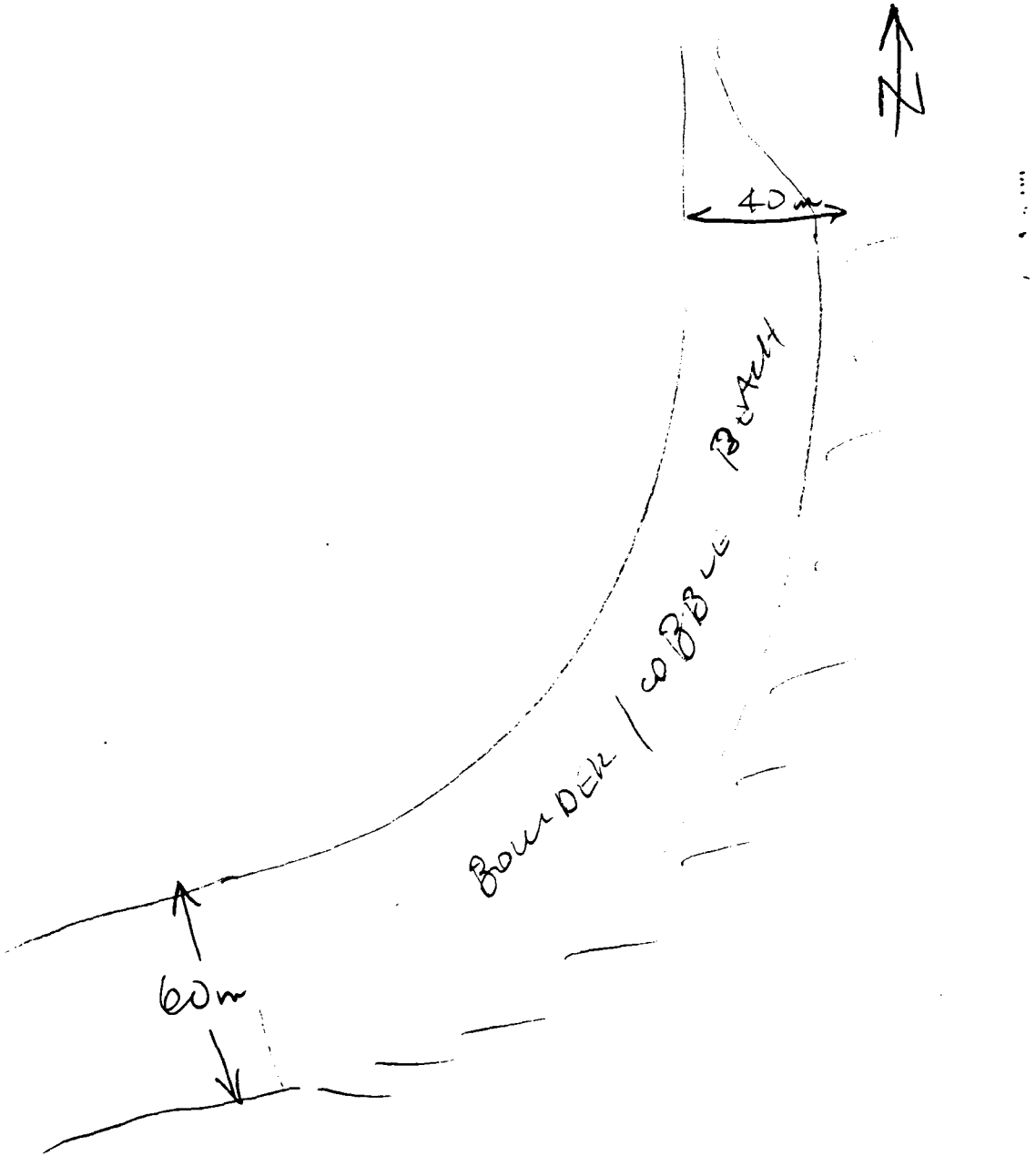
DOCUMENTATION:

Map/Aerial photo marking segment boundaries LA-17 MAP

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) TAG-1

Sample Numbers Collected: N/A



ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: _____ OBSERVER: MEYER

LOCATION PREFIX: LA SEG. NO.: 17 LENGTH: 400 (M)

DATE: 06/14/89 TIME (HHMM): 1745 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

Generally not oiled

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

Common and often oiled but healthy

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

Much Balanus oiled

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

SPARSE [redacted]
On oiled boulders, occassional clumps of fucus w/ abundant Littorina

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

OTHER OBSERVATIONS: _____

CLEANUP PRECAUTIONS: None recommended - sparse biota overall, heavily oiled area. Harvest fucus if necessary.

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

BIRDS: NW Crow-1

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/14/89 Location Latouche Island Site

Location Prefix LA Segment # LA 17 Length 400m

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 moderate to heavy

Width of beach zone surveyed 12 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

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

Shore Profile boulder field, steep

Fresh Water Sources none

Sea Exposure open 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

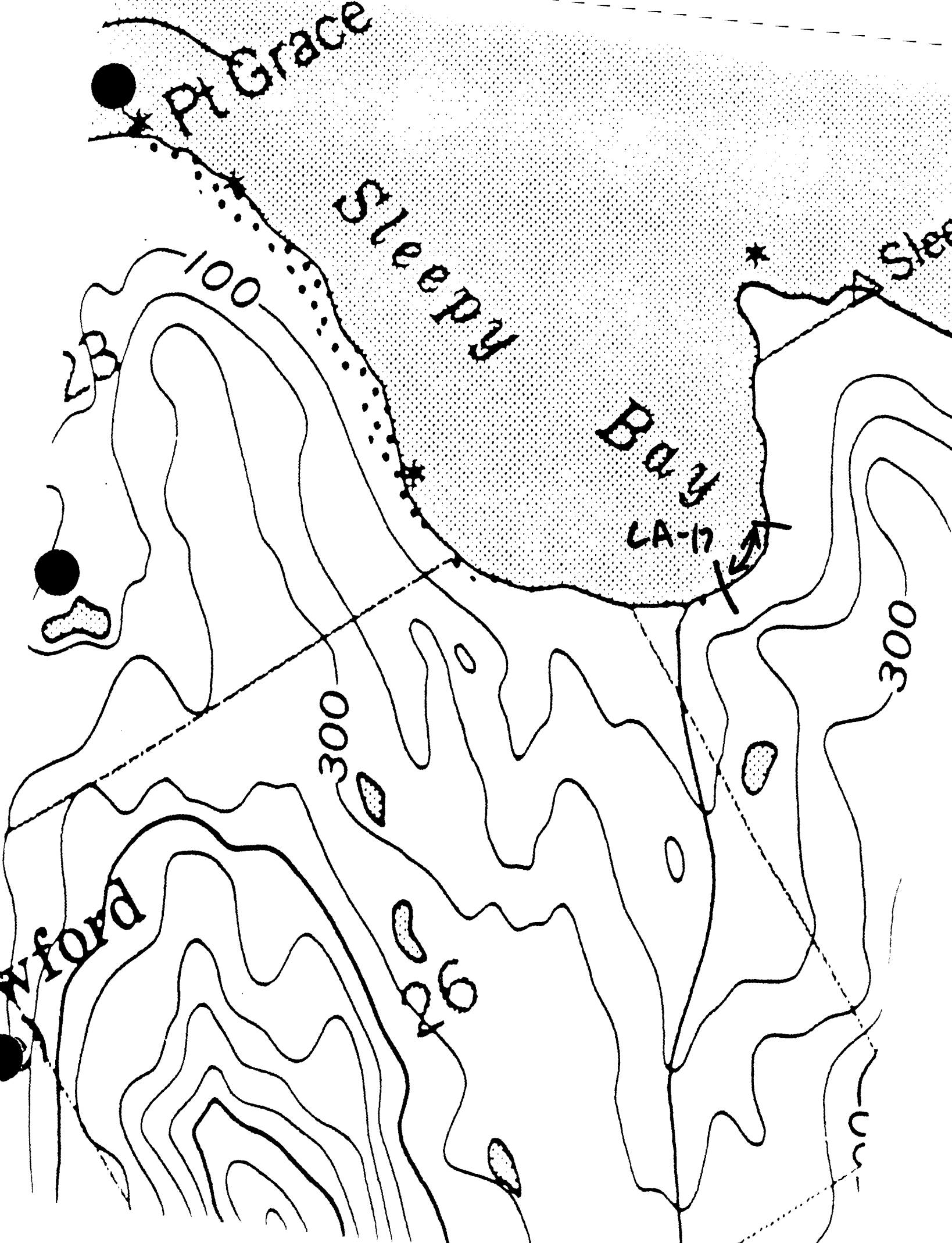
B/W Roll # Frames

Observer(s) C. Wilson

Time survey started 1725 Time survey ended 1750

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are discovered during cleanup notify Exxon archeologist, C. Mobley, immediately.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(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE June 17, 1989 SHORELINE SEGMENT LA-18

LOCATION: (see enclosed map) Latouche Island - Sleepy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-14-89

Recommended Cleanup Activity(ies): SEE ADDITIONAL RECOMMENDATIONS ON ATTACHE SHEET.

- Manually remove contaminated drift material (fucus and driftwood) from upper intertidal zone.
- ~~Use water/air injection on upper intertidal areas to flush out buried oil~~.
- ~~Relocate contaminated sediments into the active surf zone (using a clamshell, dragline or front end loader) and allow waves to wash and return sediment~~.
- ~~Within 20 yards (east and west) of the stream, relocate the contaminated river bank sediments into the active surf zone (using a machine such as a "Bob Cat") and allow river and wave action to clean and redistribute sediments. This should be done at the earliest opportunity.~~

Priorities Considerations:
Class: 1 heavy oil/time sensitive
Class: A Subsistence resources present.

Ecological Constraints (from site survey):
Cataloged (#628) anadramous stream located in this segment. Notify ADF&G and RAT 48 hours prior to beginning cleanup activities in this segment. Particular attention should be paid to containing sheen. NO WALKING IN STREAM BED UNLESS SPECIFICALLY INVOLVED IN MANUAL CLEANUP.

Archeological Constraints (from site survey):
Visitation by archeological monitor recommended during cleanup of parts of the segment using clamshell, dragline, or frontend loader techniques. 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.

_____ Date: June 17, 1989
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson Date: 6-21-89

EXXON: _____ Date: June 21, 1989

FOSC: _____ Date: 6-21-89

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

SHORELINE OIL EVALUATION

Date: 6/14/89 Time: 17:08 Observer: RICK GILLIE

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION LATOUCHE ISLAND SEGMENT NUMBER LA-18

LENGTH OF SHORELINE SEGMENT: 280 m

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 20 % / C 70 % / P 5 % / G ___ % / S ___ % / M ___ % / R 5 %

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

OIL

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

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

Continuous: Y/N % of Segment 100 Width of Band: 50 + m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: 30 cm

Pooled Oil: _____ % "Free" Oil: _____ % Coated: H 100 % / M ___ % / L ___ %

Fresh 90 % Mousse 10 % Tar Formation: _____ %

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

Comments:

- Good Access offshore
- POSSIBLE SPAWNING STREAM
-

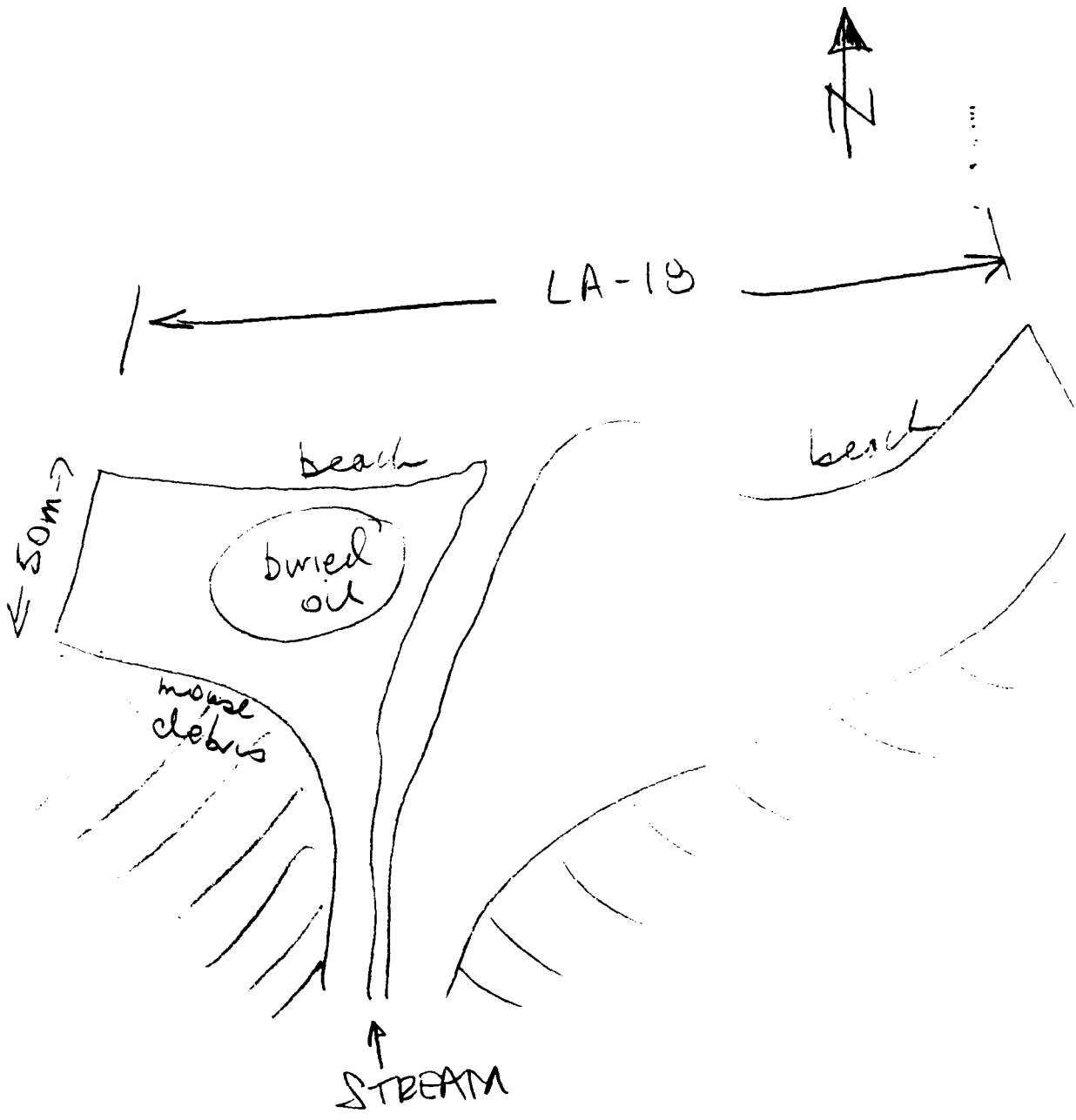
DOCUMENTATION:

Map/Aerial photo marking segment boundaries LA-18 MAP

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) T4G-1

Sample Numbers Collected: N/A



ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: _____ OBSERVER: MEYER

LOCATION PREFIX: LA SEG. NO.: 18 LENGTH: 250 (M)

DATE: 06 / 14 / 89 TIME (HHMM): 1700 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

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

Mostly at base of cobbles/boulders and in gravel

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

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

OTHER OBSERVATIONS: Potential anadromous stream - not in ADF&G Anadromous Stream Catalogue. Mousse/oiled area runs down bank to stream; other nearby heavily mousse areas most likely would drain into stream during mechanical water cleanup.

CLEANUP PRECAUTIONS: Advise ADF&G and RAT 48 hours prior to beginning any cleanup activities in this segment.

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

BIRDS: 2 Bald Eagles (adults)

GENERAL OBSERVATIONS: Pycnopodia; most of segment cobble/boulder beach with sparse biota.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/14/89 Location Tatitlek Island Site

Location Prefix LA Segment # LA 18 Length 250m

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 moderate

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

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

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

Shore Profile moderately sloped beach

Fresh Water Sources stream

Sea Exposure open 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

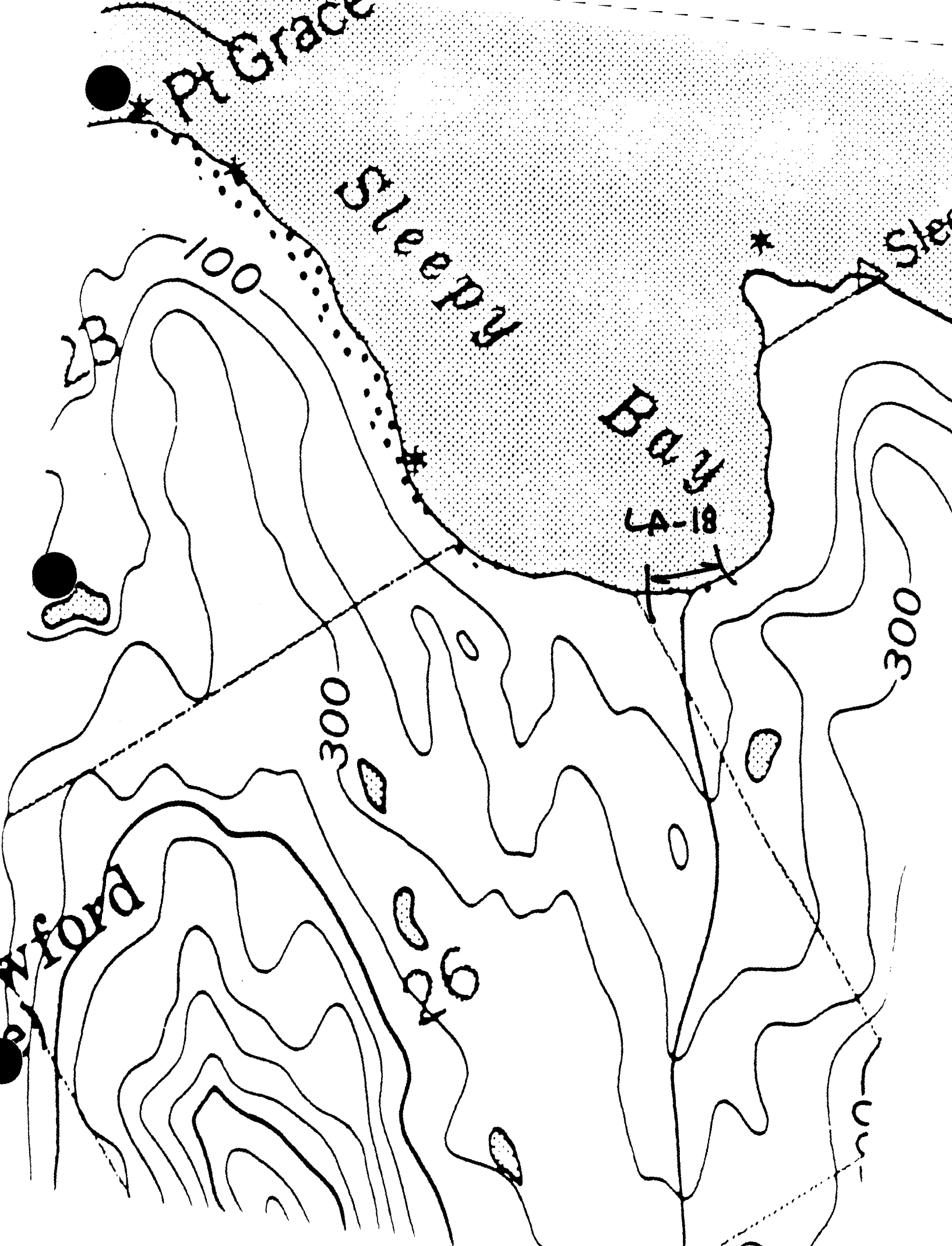
B/W Roll # Frames

Observer(s) C Wilson

Time survey started 1705 Time survey ended 1720

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup notify Exxon and archaeologist, C. Mobley, immediately.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SHORELINE CLEANUP PROGRAM

DATE June 17, 1989 SHORELINE SEGMENT LA-19

LOCATION: (see enclosed map) Latouche Island - Sleepy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-14-89

Recommended Cleanup Activity(ies): SEE ADDITIONAL RECOMMENDATIONS ON ATTACHED SHEET

- Manually remove contaminated drift material (fucus and driftwood) in upper intertidal zone.
- ~~Use water/air injection on upper intertidal areas to flush out buried oil~~.
- ~~Relocate contaminated sediments into the surf zone (using a clam shell, dragline, or front end loader) and allow waves to wash and distribute material.~~
- Maintain containment boom while oil or sheen is present.
- Use omni boom moderate to high pressure washing only on rock outcrop in eastern portion of segment.
- ~~Use of standard flood/flush methods not recommended~~.

Priorities Considerations:
Class: 1 heavy oil
A subsistence resources present

Ecological Constraints (from site survey):
Protect unoiled fucus as much as possible. Segment is located adjacent to a cataloged (#628) anadromous stream. Advise ADF & G and RAT 48 hours prior to cleanup activities. Particular attention should be paid to containing sheen.

Archeological Constraints (from site survey):
Visitation by archaeological monitor recommended during cleanup of parts of the segment using clamshell, dragline, or front end loader techniques. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: June 17, 1989

ISCC: Sharon K. Christopherson Date: 6-21-89

EXXON: _____ Date: June 21, 1989

FOSC: J. W. Rowe Date: 6-21-89

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

SHORELINE OIL EVALUATION

Date: 6/14/89 Time: 16:30 Observer: RICK GILLIE

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION LATOUCHE ISLAND SEGMENT NUMBER LA-19

LENGTH OF SHORELINE SEGMENT: 350 m

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 60 % / C 15 % / P 5 % / G ___ % / S ___ % / M ___ % / R 20 % LOGS FUCUS

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

OIL

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

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

Continuous: Y/N % of Segment 100 Width of Band: 60 m

Sporadic: Y/N % of Segment ___

Est. Oil Thickness where > 1cm: 5 cm Est. Oil Penetration: 10-30 cm

Pooled Oil: 5 % "Free" Oil: ___ % Coated: H 95 % /M ___ % /L ___ %

Fresh 90 % Mousse 10 % Tar Formation: ___ %

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

Comments:

① SURVEY STAKES LOCATED ON BACKSHORE

② GOOD ACCESS

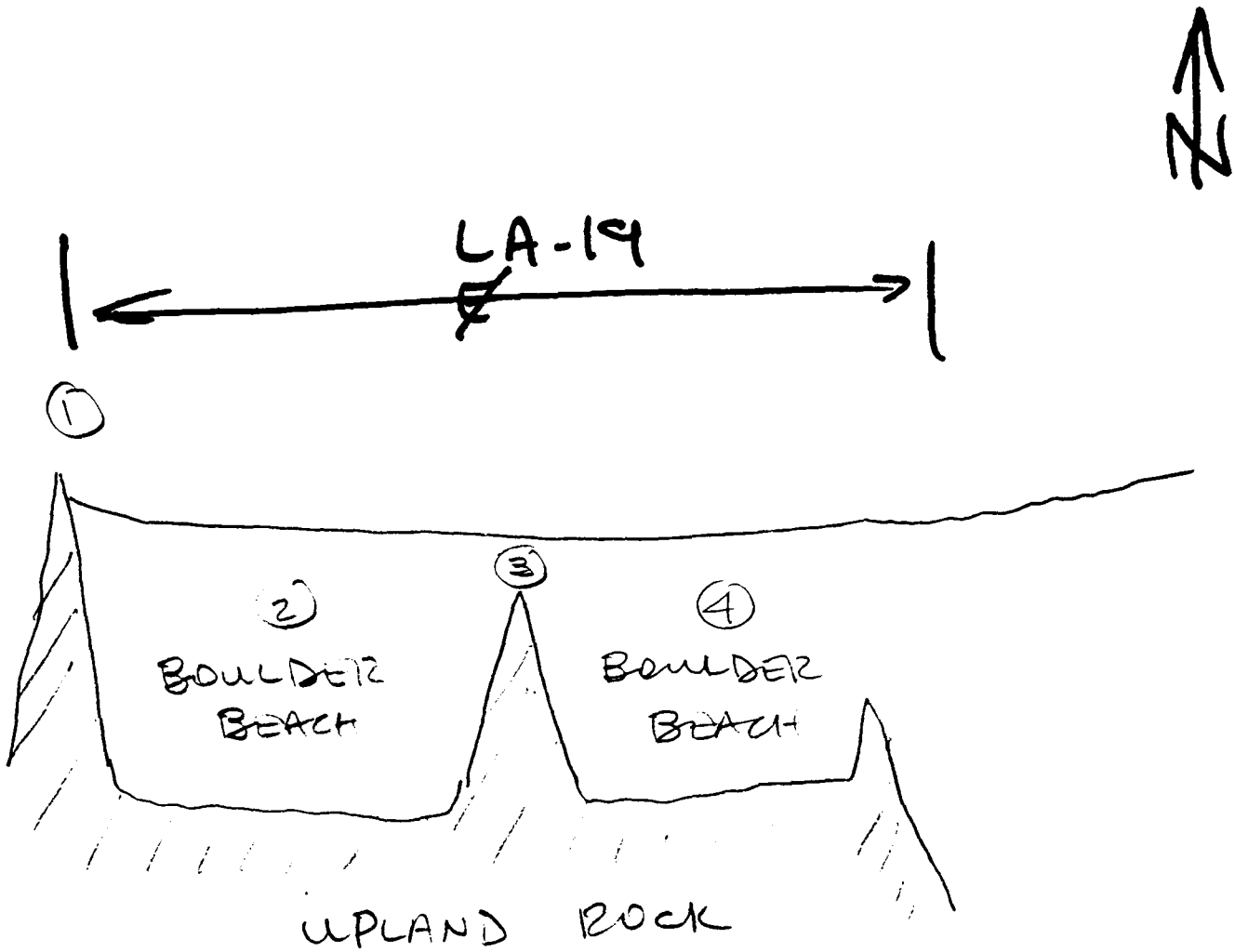
DOCUMENTATION:

Map/Aerial photo marking segment boundaries LA-19 MAP

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) T4G-1

Sample Numbers Collected: N/A



) Rocky Point

) Heavily oiled boulder beach (250 long)
Good access.

) Small rocky point ~~[illegible]~~

) Heavily oiled boulder beach

ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: _____ OBSERVER: MEYER

LOCATION PREFIX: LA SEG. NO.: 19 LENGTH: 350 (M)

DATE: 06 / 14 / 89 TIME (HHMM): 1620 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 generally not oiled even in oiled areas. Majority of LTZ has no fucus.

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

Generally oiled but healthy

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

Thatched, Acorn and Spat, much of it oiled

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

Tiny baby Littorina throughout cobbles, some adult on Fucus; few Nucella

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

Often oiled but healthy

OTHER OBSERVATIONS: _____

CLEANUP PRECAUTIONS: Protect unoiled fucus and mussels as much as possible. Avoid if possible the tide pool area at beginning of sub-segment ① (West end of segment)

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

BIRDS: _____

GENERAL OBSERVATIONS: Tide Pools in Subsection ① very diverse: many hermit crabs; green, red and green anemones; calcareous tube worms; Pisaster; nucella on sunny rocks with fucus. Most of segment has little biota in LTZ.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/14/89 Location ~~Eleanor Island~~ Latouche Island Site

Location Prefix ~~EL~~ LA Segment # ~~EL~~ LA 19 Length 350m

Survey Method:

Air (A - indicate on map) Boat ✓ the rest (A - indicate on map)

Ground beaches (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility heavy

Width of beach zone surveyed 5-12 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

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

Shore Profile steep, cobble/boulder beaches + steep wooded face

Fresh Water Sources none

Sea Exposure open 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. Mellon

Time survey started 1600 Time survey ended 1700

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup notify, Bryan archaeologist, C. Mobley, immediately

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(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE June 17,1989 SHORELINE SEGMENT LA-20

LOCATION: (see enclosed map) Latouche Island - Sleepy Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-14-89

Recommended Cleanup Activity(ies):
- Use omni boom moderate to high pressure washing only on rock, boulders, and cobbles.
- Due to difficult access, limit human traffic if possible because of safety factors.

Priorities Considerations:
Class 1: heavy oil/ time sensitive
Class A: subsistence resources present

Ecological Constraints (from site survey): Work at midtide + or take appropriate measures to protect lower intertidal zone. Particular attention should be paid to containing sheen.

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

State Historic Preservation Officer * Date: June 17, 1989

ISCC: Sharon K Christopherson Date: 6-19-89

EXXON: W Wolcamp Date: 6-19-89

FOSC: J. W. Kime Date: 6-20-89

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

SHORELINE OIL EVALUATION

Date: 6/14/89 Time: 15:45 Observer: GRAHAM MACDONALD

Surveyed From: (Foot)/(Boat)/Helio/Plane Weather: Sun/(Cloud)/Rain/Snow/F

LOCATION N. LATOUCHE ISL.

LOCATION SLEEPY BAY SEGMENT NUMBER LA-20

LENGTH OF SHORELINE SEGMENT: 2,350 m

ACCESS: Foot/Vehicle/(Boat)/(Barge)/Helio/Float Plane
SHALLOW DRAFT FOR GRACE POINT.

SHORELINE:

Shoreline Type: SPI/(BEA)/COV/HLD/STRT Slope: (LANG)/HANG/VER

Wave Exposure: (High)/Med/Low

Sediment: B 30 % / C 30 % / P 15 % / G 10 % / S ___ % / M ___ % / R 15 %

Drift Debris on Beach: (Yes)/No (Supra)/(Upper)/Mid/Lower Type LOGS, LUMBER & 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 100 Width of Band: 10 → 20 m

Sporadic: Y/N % of Segment _____ as seeps & pools.

Est. Oil Thickness where > 1cm: ≤2 cm Est. Oil Penetration: ≤30 cm

Pooled Oil: ≤5 % "Free" Oil: 60 % (Coated): H ___ % / M 20 % / L 15 %

Fresh _____ % Mousse 70 % Tar Formation: 30 %

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

Comments:

LONG, HEAVILY OILED SEGMENT ALONG EXPOSED COAST; ROCKY & SHALLOW AROUND GRACE PT.; HIGH PROPORTION OF "FREE" OIL AS SEEPS AND BETWEEN BOULDERS & COBBLES ESPECIALLY @ HIGH TIDE ZONE; MOUSSE IS STILL "WET" AND SOFT AND STICKY AND DOES NOT PERCOLATE EASILY; TAR COATING COMMON ON BOULDERS & H.W.L. ROCK.

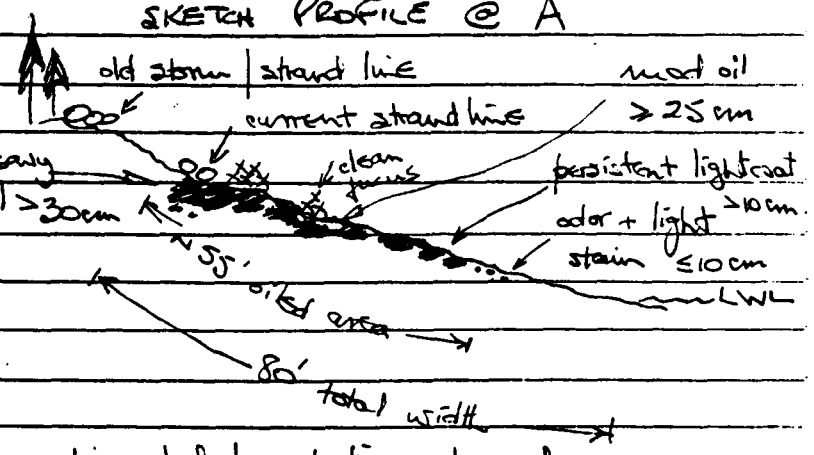
6/14 15.45 LaTouche Isle
Sleepy Bay

SEGMENT L - 20

Exposed, mod angled cobble-pebble beach w/ obvious storm strand lines.

Large boulder @ beginning of seg. is coated w/ mousse L → UHWL - adjacent cobbles are partially flushed @ LWL and heavily coated @ M-UHWL zones. beach width ≈ 80' @ L tide w/ top 55' oiled heavy - mod.

SKETCH PROFILE @ A



estimated penetration based on hasty pits scraped in cobbles.
xxxx heavy - mod oiled fucus

version: 4/24/89

ECOLOGICAL EVALUATION

LOCATION: Latouche SITE: Sleepy Bay OBSERVER: SMB

LOCATION PREFIX: LA SEG. NO.: 20 LENGTH: 2350 (M)

DATE: 6/14/89 TIME (HHMM): 1545 TIDE HT.: -1 to 1 (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

Very sparse to non-existent on gravel/cobble/beaches. Somewhat Dense on boulders at low water line. Dense at Point Grace.

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

Clumps on boulders at low water line. Most gaping

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

Dense on Boulders, Sparse to non-existent on gravel/cobble beaches.

Littorina

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

Dense in Fucus clumps - most oiled except at Pt. Grace

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

Also in Fucus clumps - Several orgs. observed were oiled

OTHER OBSERVATIONS: Two bands of oiled debris. One in high IZ is 1-2' thick and heavily oiled. The other is lower and not as oiled. Both thin as beach composition becomes coarser.

CLEANUP PRECAUTIONS: None. The lower intertidal does not support much life in cobble/gravel areas. Most organisms in lower intertidal are oiled, except at Point grace. Protect this area

MAMMALS: Otters ___ ~~Harbor~~ Seals 1 Sea Lions 1 Whales ___

Other None

BIRDS: Crow, gulls

GENERAL OBSERVATIONS: Lower intertidal does not support much life except at the Point Grace area. Oil is generally heavy throught the segment.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date June 14, 1989 Location Latouche Island Site Sleepy Bay, W. shore

Location Prefix LA Segment # 20 Length 2,350 m.

Survey Method:

Air _____ (A - indicate on map) Boat x (60%) (A - indicate on map)

Ground x (40%) (G - indicate on map)

Known cultural resources (AHRS #) none Data Source N/A

Oil conditions/beach visibility heavy; fair

Width of beach zone surveyed 20 m Tree fringe surveyed 40 m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) FCR

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

Shore Profile moderate to low angle cobble/gravel/bedrock

Fresh Water Sources two ponds and small streams in segment

Sea Exposure exposed

Access/Safety fair to good depending on weather conditions

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 N/A

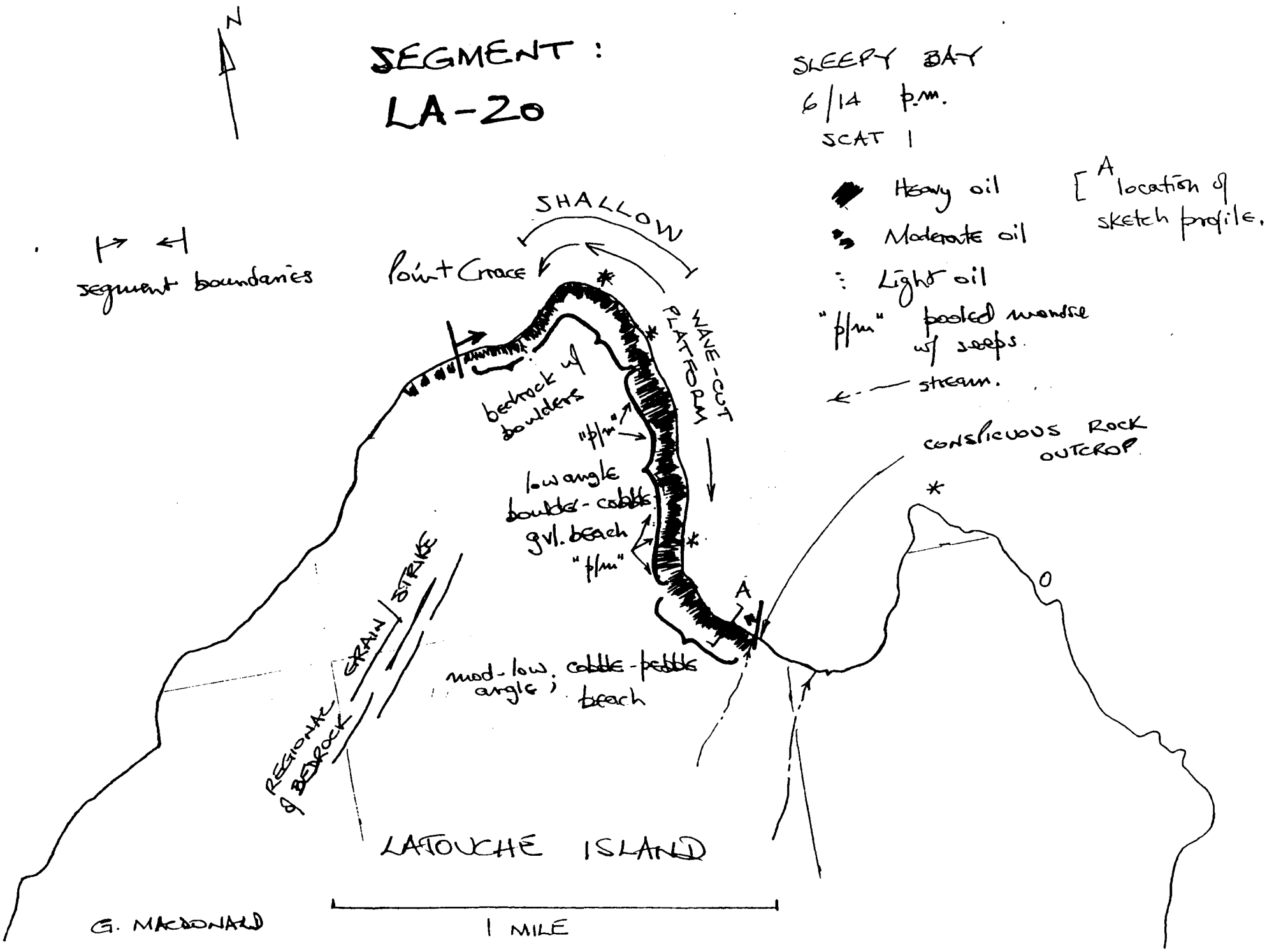
B/W Roll # _____ Frames _____

Observer(s) Jim Haggarty/Peter Phippen

Time survey started 1545 Time survey ended 1800

Cultural resource considerations/restraints:

Standard constraints.


N
SEGMENT :
LA-20
SLEEPY BAY
6/14 p.m.
SCAT 1
Heavy oil
Moderate oil
Light oil
"p/m" pooled manure w/ seeps.
stream.
[A location of sketch profile.
segment boundaries
SHALLOW
Point Grace
WAVE-CUT PLATFORM
bedrock w/ boulders
"p/m"
low angle boulder-cobble gvl. beach "p/m"
CONSPICUOUS ROCK OUTCROP
A
REGIONAL BEDROCK GRAIN / STRIKE
mod-low angle; cobble-pebble beach
LATOUCHE ISLAND
1 MILE
G. MACDONALD

LA-15

DATE 9/14/89 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments Segment was repeatedly washed. Request approval for bio application

Signature RC Harrelson Date: 9/14/89 Time: 1120

Printed Name RC HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
3	Heavy
20	Medium
30	Light
10	Very Light
37	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
5	Heavy
42	Medium
30	Light
3	Very Light
20	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Recommend more treatment. Grease contamination still exist.

Signature [illegible] Date: 9/14/89 Time: 1135

Printed Name [illegible]

FOSC rep Demobilization approved/disapproved

Comments Treatment not completed. Excessive heavy oil remains.

Signature [illegible] Date: 9/14/89 Time: 1131

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

Recommend Bioremediation & treatment

7/14/89
SJd

TREATMENT MANUAL, 6/15/89

EG LA-16 INSPECTION # 1

DATE 13 JULY 89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [ ] Warm water wash
- [x] Water deluge
- [ ] Mechanical
- [x] Non-mechanical Removal of oiled Fucus & Debris
- [ ] Other

Exxon

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

Comments ENVIRONMENTALLY CLEAN!

Signature C. F. Duggins Date: 7/13/89 Time:

Printed Name C. F. Duggins

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil
Percent	Degree of Oiling	[x] Yes [ ] No
5	Heavy	Comments HEAVY SUBSURFACE CONTAMINATION.
25	Medium	
70	Light	
ϕ	Very Light	
ϕ	None	
100 %		

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep Comments NOT AVAILABLE. ADEC OBSERVATION TEAM LEADER TOM KAYGER ESCORTED.

Signature Date: / / Time:

Printed Name

USCG rep Demobilization Approved/Disapproved

7/14/89
BJ

TREATMENT MANUAL, 6/15/89

SEG LA-17 INSPECTION # 1

DATE 13 JUL 89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [ ] Warm water wash
- [x] Water deluge
- [x] Mechanical Pom-Pom's loose oil
- [x] Non-mechanical Removal of oiled Fucus & Debris
- [ ] Other _____

Exxon

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

Comments Environmentally Clean

Signature C.E. Duggins Date: 7/13/89 Time: 1200

Printed Name C.E. Duggins

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil Percent	Degree of Oiling
	Heavy
	Medium
100	Light
	Very Light
	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

Comments Heavy subsurface contamination.

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep Comments NOT AVAILABLE ADEC observation Team Leader Pam Kevers escorted

Signature Date: / / Time:

Printed Name

FOSC rep Demobilization approved/disapproved

7/17/89

TREATMENT MANUAL, 6/15/89

SEG LA-18 INSPECTION # 1

DATE 16 JUL 89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [x] Warm water wash
- [x] Water deluge
- [x] Mechanical BACK-hoe
- [x] Non-mechanical
- [ ] Other

Exxon

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

Comments Environmentally Clean

Signature C. E. Duggins Date: 7/16/89 Time: 16:10

Printed Name C. E. Duggins

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil		Subsurface Oil
Percent	Degree of Oiling	[x] Yes [ ] No
0	Heavy	Comments Heavy subsurface contamination
50	Medium	
50	Light	
0	Very Light	
0	None	
100 %		

Reassessment

[x] Yes - necessary [ ] No - not necessary unless re-oiled

ADEC rep Comments Some surface oiling - light brown surface coat. Heavy oil in subsurface.

Signature Douglas H. Dasher Date: 7/16/89 Time: 1600

Printed Name Douglas H. Dasher, EE III, ADEC

FOSC rep Demobilization approved/disapproved

Comments TREATMENT COMPLETED AS ABOVE AS PER G. REP MARILYNE SUBJECT DIRECTION.

Signature [illegible] Date: 7/16/89 Time: 1600

LA-19

Date 9/14/89 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments Bash was removed. Request approval for bio application

Signature R C Harrison Date: 9/14/89 Time: 11:27

Printed Name RC HARRISON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
5	Heavy
20	Medium
25	Light
30	Very Light
20	None
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
10	Heavy
25	Medium
25	Light
30	Very Light
10	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Gross contamination still exists especially at upper tidal zones

Signature [illegible] Date: 9/14/89 Time: 1140

Printed Name [illegible]

FOSC rep Demobilization approved/disapproved

Comments [illegible] not completed excessive heavy oil remains,

Signature [illegible] Date: 9/14/89 Time: 1135

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

Recommend Bioremediation A-75 treatment

TREATMENT MANUAL, 6/15/89

SEG LA-19 INSPECTION # 1

DATE 16 Jul 89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments Environmentally clean.

Signature C.F. Higgins Date: 7/16/89 Time: 1610

Printed Name C. F. Higgins

Existing Shoreline Condition As Visually Determined by USCG

Percent	Degree of Oiling
1	Heavy
78	Medium
21	Light
∅	Very Light
∅	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

Comments Heavy subsurface oil.

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep Comments Subsurface sediments heavily oiled. Several spots noted (light brown) from subsurface - probably heavy oil seepage from subsurface was noted.

Signature Douglas H. Dasher Date: 7/16/89 Time: 1610

Printed Name DOUGLAS H. DASHER, EE III, ADEC

FOSC rep Demobilization approved/disapproved

Comments Heavy subsurface oil. Crew has already started to clean and local agreement reassessment on 18 Sep 1989

Summary by HATCHERY & EXXON AGREEMENT NOT TO WORK FROM 15 JUL - 18 SEP

Signature [illegible] Date: 7/16/89 Time: 1607

7/17/89

TREATMENT MANUAL, 6/15/89

SEG LA-20 INSPECTION # 1

DATE 16 Jul 89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments Environmentally Clean.
Remission granted by FOSC/ADEC to Wipe-up Reoiling. of 1/3

Signature C. F. Duggins Date: 7/16/89 Time: 1610

Printed Name C. F. Duggins

Existing Shoreline Condition As Visually Determined by USCG

Percent	Degree of Oiling
25	Heavy
70	Medium
5	Light
ø	Very Light
ø	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

Comments Heavy subsurface oil

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep Comments Given surface contamination evident - heavy pooled oil in pockets. Additional treatment needed to adequately remove heavy surface oil. Reevaluation & reassessment ASAP!

Subsurface oil is heavy.

Signature Douglas H. Dasher Date: 7/16/89 Time: 1620

Printed Name DOUGLAS H. DASHER, ADEC

FOSC rep Demobilization approved/disapproved

Comments Heavy surface contamination. Demobilization only approved due to agreement between Exxon and Sandwich Bay Fish Hatchery to suspend work from 15 July to 15 Sep. Exxon after inspection deployed booms

Signature [illegible] Date: 7/16/89 Time: 1620

LA-20

DATE 9/14/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments Beach was reviewed. Request approval for bio application

Signature [illegible] Date: 9/14/89 Time: 11:30

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
10	Heavy
30	Medium
25	Light
20	Very Light
15	None
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
15	Heavy
30	Medium
20	Light
15	Very Light
10	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Gross contamination still exists especially at upper tidal zone

Signature [illegible] Date: 9/14/89 Time: 11 45

Printed Name Michael Pop

FOSC rep Demobilization approved/disapproved

Comments Treatment not completed, excessive heavy oil remains

Signature [illegible] Date: 9/14/89 Time: 11 35

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

Recommend Bioremediation & PS treatment

(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Latouche Island - Northwest Block

Includes Shoreline Segments: LA-21, LA-22, LA-23, LA-24

Submitted: Jerry H. Bailey (for Exxon) Date: 6-21-89

ISCC Reccomendation: Sharon K Christopher Date: 6-23-89

FOSC Approval: J. W. Kime Date: 6/25/89.

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

********** SCOT NOTE **********

THERE ARE ITEMS OF GREAT CONCERN IN THIS APPROVAL BLOCK THAT AFFECT THE DEPLOYMENT OF CREWS AND EQUIPMENT. JMC 6/25

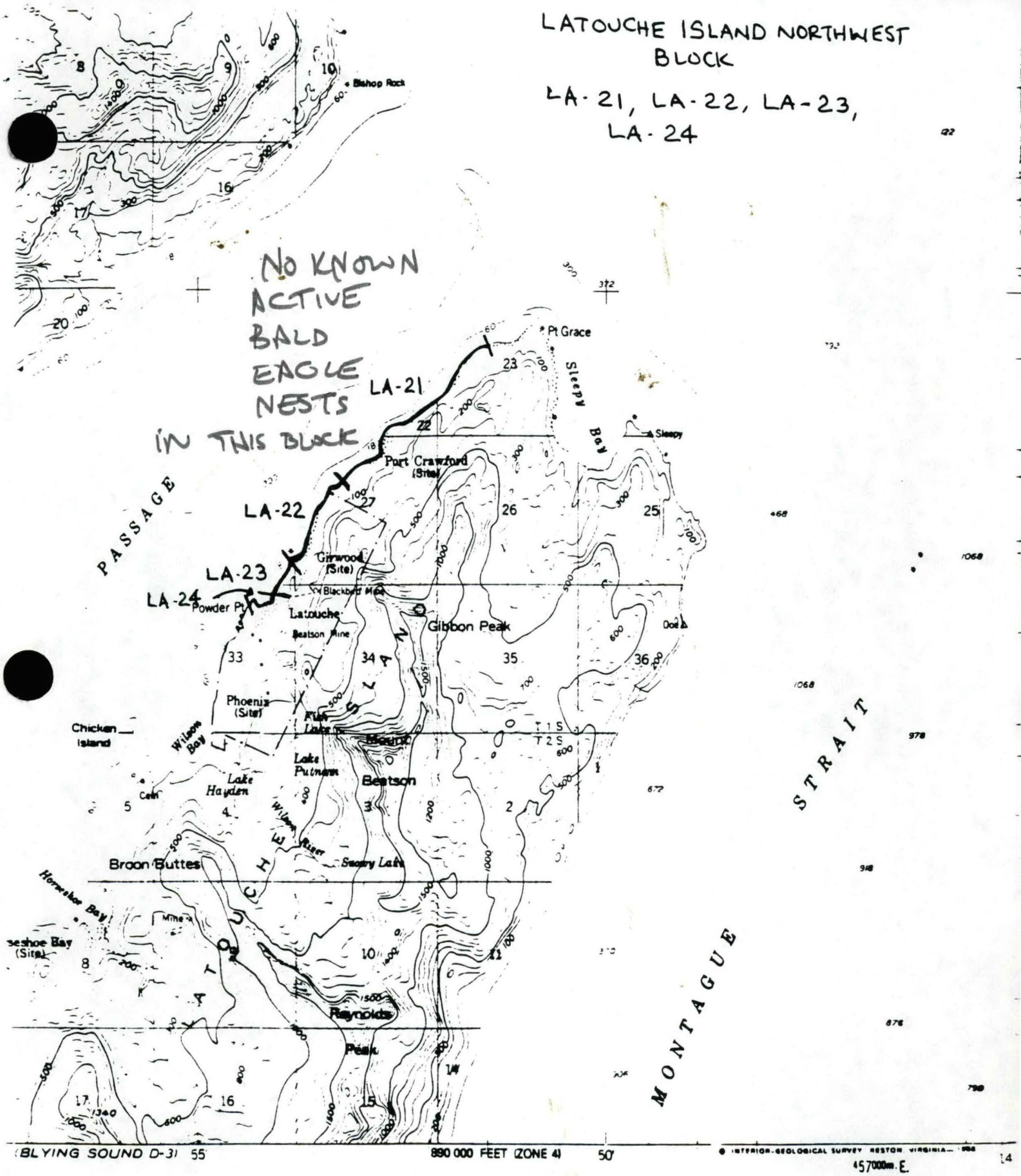
READ THIS FIRST

SHORELINE SEGMENTS WITHIN LATOUCHE ISLAND - NORTHWEST BLOCK ARE ON PRIVATELY OWNED LAND. NO ACCESS TO UPLAND AREAS. NOTE REQUIREMENT FOR ARCHAEOLOGICAL MONITOR DURING WORK ON SHORELINE SEGMENTS LA-23 AND LA-24. JMC 6/25

LATOUCHE ISLAND NORTHWEST BLOCK

LA-21, LA-22, LA-23, LA-24

NO KNOWN ACTIVE BALD EAGLE NESTS IN THIS BLOCK



SCALE 1:63360

2 3 4 MILES

9000 12000 15000 18000 21000 FEET

2 3 4 5 KILOMETERS

ROAD CLASSIFICATION

Light-duty ——— Trails - - - - -

CONTOUR INTERVAL 100 FEET
GEODETIC VERTICAL DATUM OF 1929
SOUNDINGS IN FEET-DATUM IS MEAN LOWER LOW WATER

SEWARD (A-3), ALASKA

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6-18-89 SHORELINE SEGMENT LA-21

LOCATION: (see enclosed map) Latouche Island - Northwest End

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-15-89

Recommended Cleanup Activity(ies):
- Manually remove contaminated drift material (fucus and small driftwood)
- Flood/flush with warm to hot water (up to 140°F) on low angle beaches.
- Use moderate to high pressure washing on rock.
- Use other approved methods as appropriate.

Priorities Considerations:
Class: 1 heavy to moderate oil/time sensitive Sawmill Bay July 10
Class: A Subsistence resources present

Ecological Constraints (from site survey):
Work at mid tide + or take appropriate measures to protect lower intertidal zone. Stakes present at Port Crawford Beach may be indicative of a study site. Treat unless otherwise advised by Coast Guard. Particular attention should be paid to containing sheen.
PRIVATE PROPERTY - NO ACCESS TO UPLANDS

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

State Historic Preservation Officer * Date: June 20, 1989

ISCC: Sharon K. Christopherson Date: 6-23-89

EXXON: [illegible] Date: 82/06 23

FOSC: J. W. Rice Date: 6/25/89

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

SHORELINE OIL EVALUATION

Date: 6/15/89 Time: 06:30 Observer: GRAHAM MACDONALD

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/(Cloud)/(Rain)/Snow/Fog

LOCATION

LOCATION N.W. Latouche Isl. SEGMENT NUMBER LA-21

LENGTH OF SHORELINE SEGMENT: 2,250 m

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 30 % / G 15 % / S ___ % / M ___ % / R TRACE %

Drift Debris on Beach: (Yes)/No (Supra)/Upper/Mid/Lower Type LOGS & DRIFTWOOD & SOME SEAWEED

OCCASIONAL LOG

OIL

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

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

Continuous: (Y)/N % of Segment 90 Width of Band: ≤ 20 m *

Sporadic: (Y)/N % of Segment 10 MAY HAVE HIDDEN LAYER @ BEDROCK

Est. Oil Thickness where > 1cm: ___ cm Est. Oil Penetration: ≤ 25 cm

Pooled Oil: ___ % "Free" Oil: ≤ 15 % Coated: H ___ % / M 30 % / L 70 %

Fresh ___ % Mousse INTERSTITIAL 60 % Tar Formation: 40 %

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

SOME SEAWEED

Comments:

LONG MODERATE/HEAVY OILED COBBLE BEACH - LYING ON WAVE-CUT BENCHES IN PLACES; SOME TAR/ASPHALT CEMENTED GRAVELS AS THIN "PAVEMENT" @ SURFACE; MAINLY LIGHT/THIN COAT OF TAR & MATURE MOUSSE BUT VERY WIDE, AND POSSIBLY INTERSTITIAL MOUSSE @ DEPTH OR @ BEDROCK.

EXPECT QUICK WAVE BUILD-UP W/ NORTHERLY WINDS BEACHES WILL DRAIN QUICKLY.

6/15 06.30 HRS

SEGMENT LA-21

mod. angled, mod. exposed cobble pebb bldr beach; uniform grade w/ conspicuous storm berm.

oil as mod. ht. thickness (≤ 2 mm) but ~ 20 m wide - as tar coat on upper bench & tar/mature mousse mid-low tide zone. Penetration appears ≤ 10 cm - there may be a buried oil layer here:- v. permeable, easy for fresh mousse/oil to percolate thru' cobble layer.

no debris - occas. log (clean) & seaweed (clean & oily); oil @ H → L tide zone.

cob 60 pebb 30 gvl 10 bldr TRACE

Heavier oiling @ H tide zone asphalt w/ gvl forming thin "pavement" @ HWL 2' wide x 1" thick x 20' long - also in spaces between cobbles

Some oil @ splash zone gvls.

Oil becoming lighter @ Fort Crawford site area, mostly as mature mousse - tar @ M-HWL & occas UHWL mod/light w/ rive gvl outwash @ main creek exit @ Ft Crawford site bay -

- also stakes on storm bench ~ 25 m apart

Pt. Crawford Bay = cob-gvl beach,
oil as light coat tar & dd mousse
but mod. in extent - UHWL-M zone;

segment ends @ rocky outcrop

08.10

penetration of tar coat (< 0.5 mm tk)
≥ 25 cm.

08.30 END SEGMENT

version: 4/24/89

ECOLOGICAL EVALUATION

LOCATION: Latouche Is SITE: Sleepy Bay OBSERVER: SM B+N

LOCATION PREFIX: LA SEG. NO.: 21 LENGTH: ~~1300~~ 2250 (M)

DATE: 6/15/89 TIME (HHMM): 0635 TIDE HT.: 0-1 (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

Non-existent on gravel beaches, Clumps on boulders in Lower ITZ. Extremely sparse

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

Several small patches in boulder, cobble crevices. Some coarse, gaping. Individuals are small, possibly stressed environmentally

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

Spat dense on boulders at water line. Adults sparse mostly unoiled.

Littorina

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

Dense on boulders at water line - in Barnacle zone - mostly unoiled

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

Also seen in Barnacle zone. Genus Notoacmea

OTHER OBSERVATIONS: Beach at Port Crawford has been staked at about 25 m intervals in a grid - possibly transect sites

CLEANUP PRECAUTIONS: Stream at Port Crawford beach may be anadromous - avoid. Do not disturb stakes. No constraints on gravel beach areas.

MAMMALS: Otters ___ Harbor Seals ___ Sea Lions ___ Whales ORCAS #6

Other ___

BIRDS: Dead murre [redacted], eagles (alive)

GENERAL OBSERVATIONS: This segment does not contain many intertidal organisms. Few constraints to cleaning.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date June 15, 1989 Location Latouche Island Site W shore

Location Prefix LA Segment # 21 Length 2,250 m.

Survey Method:

Air _____ (A - indicate on map) Boat X (90%) (A - indicate on map)

Ground X (10%) (G - indicate on map)

Known cultural resources (AHRS #) none Data Source N/A

Oil conditions/beach visibility light to moderate w/ good visibility

Width of beach zone surveyed 5-12 m Tree fringe surveyed 5 m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

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

Shore Profile Moderate to low angle boulder-cobble beach, some bedrock

Fresh Water Sources several small streams

Sea Exposure semi-exposed to exposed

Access/Safety good; may be difficult due to 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 N/A

B/W Roll # none Frames N/A

Observer(s) Peter Phippen / Jim Haggarty

Time survey started 0600 Time survey ended 0805

Cultural resource considerations/restraints:

Standard constraints

6/15/89 a.m.

LaTouche Island NW coast.

SCAT 1

Heavy oil

Moderate oil

Light oil

creek / stream

segment boundaries.

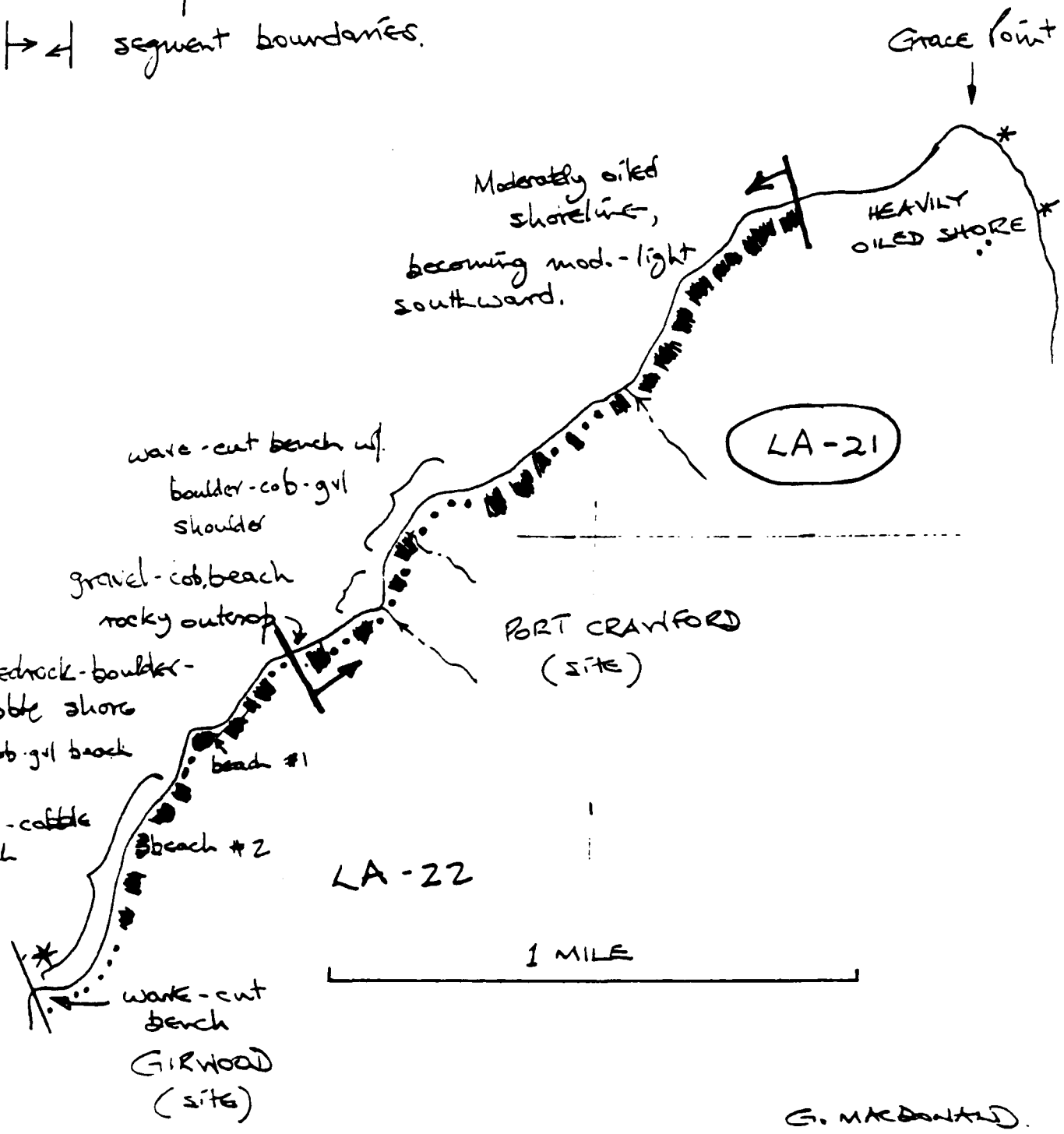
N

SEGMENTS :

LA - 21

LA - 22

HIGHEST PRIORITY AREA



G. MACDONALD.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6-18-89 SHORELINE SEGMENT LA-22

LOCATION: (see enclosed map) Latouche Island - Northwest end

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-15-89

Recommended Cleanup Activity(ies):
- Manually remove free oil.
- Flood/flush with warm to hot water (up to 140°F) on low angle beaches.
- Use moderate to high pressure washing on rock.
- Use other approved methods as appropriate.

Priorities Considerations:
Class: 1 moderate to light oil/time sensitive
Class: A Subsistence resources present

Ecological Constraints (from site survey):
Work at mid tide + or take appropriate measures to protect lower intertidal zone.
Particular attention should be paid to containing sheen.

Archeological Constraints (from site survey):
Care to be taken not to damage pilings in intertidal zone. No access above high tide at the pilings. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: June 20, 1989

ISCC: Sharon K. Christopherson Date: 6-23-89

EXXON: _____ Date: 89-06-23

FOSC: J. W. Rice Date: 6/25/89

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

SHORELINE OIL EVALUATION

Date: 6/15/89 Time: 08:30 Observer: GRAHAM MACDONALD

Surveyed From: (Foot)/(Boat)/Helio/Plane Weather: Sun/(Cloud)/(Rain)/Snow/Fog

LOCATION

LOCATION N.W. Latouche Isl. SEGMENT NUMBER LA-22

LENGTH OF SHORELINE SEGMENT: 1,300 m

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

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: (LANG)/(HANG)/VER

OCCASIONAL ROCKY SPURS AND OUTCROPS

Wave Exposure: (High/Med)/Low

Sediment: B 20% / C 30% / P 25% / G 20+% / S TRACE % / M ___ % / R ≤5%

Drift Debris on Beach: Yes/(No) Supra/Upper/Mid/Lower Type _____

OIL

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

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

Continuous: (Y)/N % of Segment 75 Width of Band: ≤ 13 m

Sporadic: (Y)/N % of Segment 25

Est. Oil Thickness where > 1cm: ____ cm Est. Oil Penetration: >20 cm

Pooled Oil: ____ % "Free" Oil: <10 % Coated: H ___ % / M 10 % / L 90 %

Fresh _____ % Mousse 50+ % Tar Formation: 50- %

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

Comments:

MIX COBBLE - PEBBLE - GRAVEL - BOULDER BEACH, MOD - LOW ANGLE; LOCALLY WASHED / FLUSHED BY WAVES & SMALL STREAMS; CHANCE OF MOUSSE / TAR AT DEPTH > 30 cm, & @ BEDROCK @ WAVE-CUT BENCHES. ROCKS ARE FLAT AND EASILY TRANSPORTED / LIFTED BY HIGH PRESSURE WASH.

BEACHES WILL DRAIN QUICKLY

6/15

0830

Segment LA-22

Boulders on warm cut bank, li
oiled; w/ hi exposure and natu
washing - grades to cobble -
beach 1 w/ mod. oil 13 m wide
mature mousse, heavier con
@ SW end where slaty grav
pebs are piled up against m
point, mousse clings to
sheltered aspects of boulders &
pebs & gvls, penetration > 2
may have hidden oil @
interface, beach is mod
w/ gvl storm berm and
lower shore
cobs & gvls here are flat an
thrown and carried by w
H - mid low tide level
Beach #2 low angle mod s
gvl-cob beach,
light - mod oil as mature
+ fresh tar coat < 0.2 mm,
wide, penetration > 10 cm
local wash/flush by wave

adjacent manner "deposition" sites;
Flat slatey cobs + gvl have
imbricate texture; oil & sheen
become light - v. light @ Gunwood
Site point;
gvl 60 cob 20 bldr 20

END of SEGMENT

version: 4/24/89

ECOLOGICAL EVALUATION

LOCATION: Latouche Is. SITE: Sleepy Bay OBSERVER: SM Ban

LOCATION PREFIX: LA SEG. NO.: 22 LENGTH: ~~2250~~ 300 (M)

DATE: 6/15/89 TIME (HHMM): 0810 TIDE HT.: +1-1½ (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

Dense on boulders at start of seg. oiled high on rocks. Sparse clumps in lower ITZ throughout rest of seg. Most in lower ITZ is unoiled.

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

Dense clumps on boulder. Few stunted individuals found in cobble/boulder crevices. Oiled on boulders.

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

Dense on Boulders, oiled high on rocks. Nucella predation. Patchy on boulders/cobbles in lower ITZ. Unoiled in lower ITZ.

Littorina

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

Dense on boulders where barnacles are found

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

Few unoiled orgs. seen in lower ITZ.

OTHER OBSERVATIONS: Sedges, grasses, saltworts in supratidal.

CLEANUP PRECAUTIONS: Avoid two possible anadromous streams at beach 1. No other ecological constraints

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

Other None

BIRDS: Gulls

GENERAL OBSERVATIONS: This high energy segment does not support much ~~[illegible]~~ of an intertidal community.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date June 15, 1989 Location Latouche Island Site W shore

Location Prefix LA Segment # 22 Length 1,300 m

Survey Method:

Air _____ (A - indicate on map) Boat X (90%) (A - indicate on map)

Ground X (10%) (G - indicate on map)

Known cultural resources (AHRS #) Linward site Data Source USGS Seward A-3

Oil conditions/beach visibility moderate to light; good

Width of beach zone surveyed 5-15 m Tree fringe surveyed 5-10 m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) HT1

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

Shore Profile moderate to low angle beach; some bedrock outcrop

Fresh Water Sources several small streams

Sea Exposure semi-exposed → exposed

Access/Safety fair to good depending on weather condition

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 N/A

B/W Roll # none Frames N/A

Observer(s) Peter Phippen / Jim Haggarty

Time survey started 0810 Time survey ended 0900

Cultural resource considerations/restraints:

Standard constraints. Crews should take precautions when cleaning traces of oil present in the vicinity of the pilings. They should not be permitted access to the HT I site directly behind the pilings.

6/15/89 a.m.

LaTouche Island NW coast.

SCAT 1

Heavy oil

Moderate oil

Light oil

creek / stream

segment boundaries.

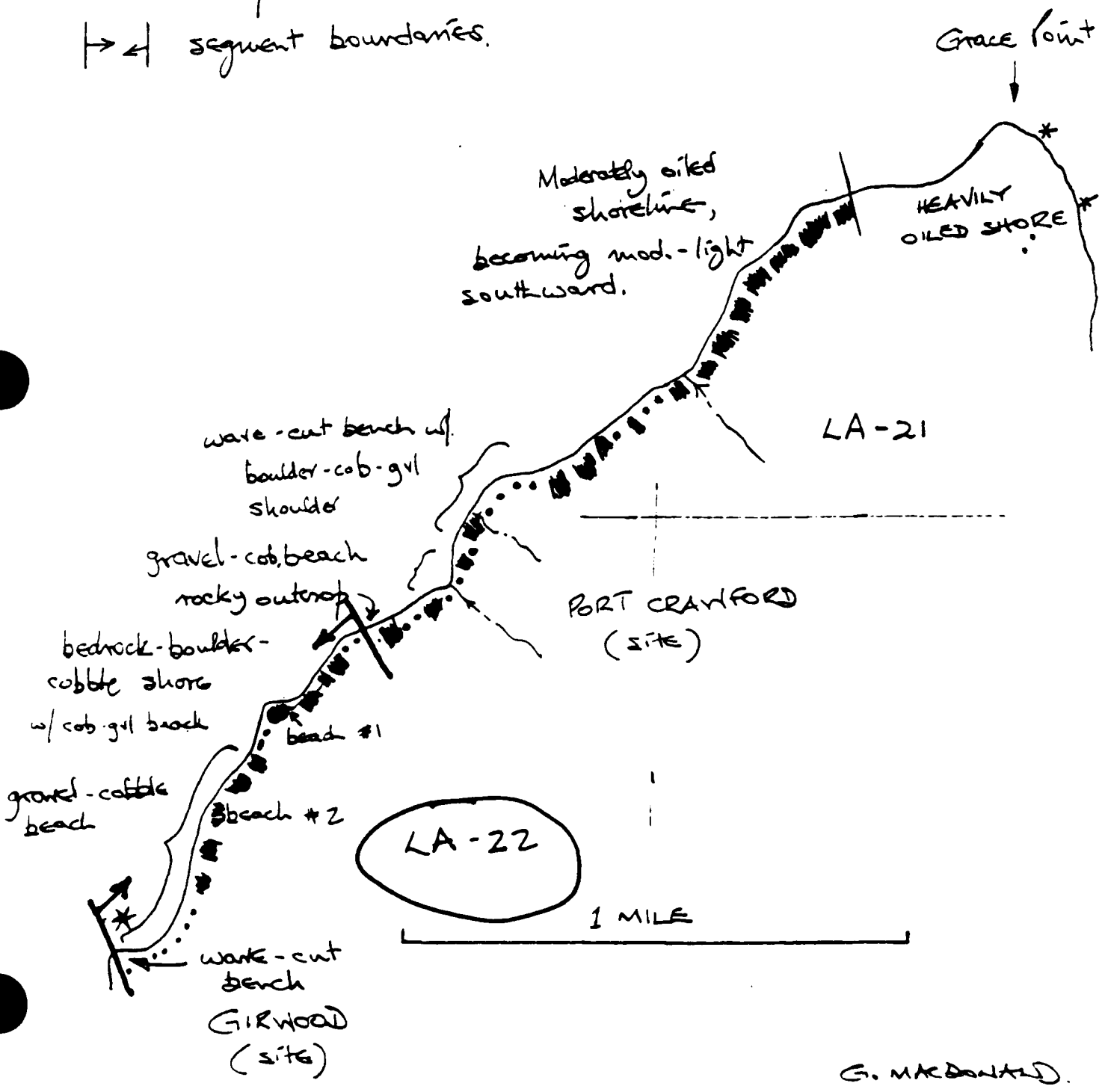
N

SEGMENTS :

LA - 21

LA - 22

HIGHEST PRIORITY AREA



G. MACDONALD.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6-18-89 SHORELINE SEGMENT LA-23

LOCATION: (see enclosed map) Latouche Island - Northwest End

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-15-89

Recommended Cleanup Activity(ies):
- Manually remove contaminated drift material (fucus).
- Use manual techniques (including rakes and shovels) to remove surface oil outside buffer zones established by the archaeological monitor.

Priorities Considerations:
- Mechanical equipment limited to 6-wheel ATVs to remove bags of oiled debris.

Class: 1 moderate to light oil/time sensitive
Class: A Subsistence resources present.

Ecological Constraints (from site survey):

Archeological Constraints (from site survey):
Archaeological monitor required prior to and during cleanup. Cleanup is to avoid historic archaeological material (to be flagged with an approximate 20 m buffer) in the intertidal zone, as per direction of onsite archaeological monitor. Monitor is to prepare a site map depicting location and nature of historic artifacts and features in the intertidal zone as per a Work Plan for Archaeological Monitoring jointly applicable to LA-23 and LA-24.
NOTIFY EXXON ARCHAEOLOGICAL DIRECTOR 48 HOURS PRIOR TO BEGINNING WORK ON THIS SEGMENT

State Historic Preservation Officer * Date: June 20, 1989

ISCC: Sharon K. Christopherson Date: 6-23-89

EXXON: _____ Date: 89-06-23

8 FOSC: _____ Date: 6/25/89

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

SHORELINE OIL EVALUATION

Date: 6/15/89 / Time: 08:06 Observer: RICK GILLIE

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION LATOUCHE ISLAND SEGMENT NUMBER LA-23

LENGTH OF SHORELINE SEGMENT: 450 m

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 60 % / P 40 % / G 10 % / S ___ % / M ___ % / R 5 % Fucus

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

OIL

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

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

Continuous: Y/N % of Segment 80 Width of Band: 10 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 5-10 cm

Pooled Oil: ____ % "Free" Oil: ____ % Coated: H 20 % / M 60 % / L 20 %

Fresh ~~100~~ % Mousse _____ % Tar Formation: 100 %

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

Comments:

① Oil band at mid to 3/4 tide (1/4 below high tide)

② Oiled Fucus debris

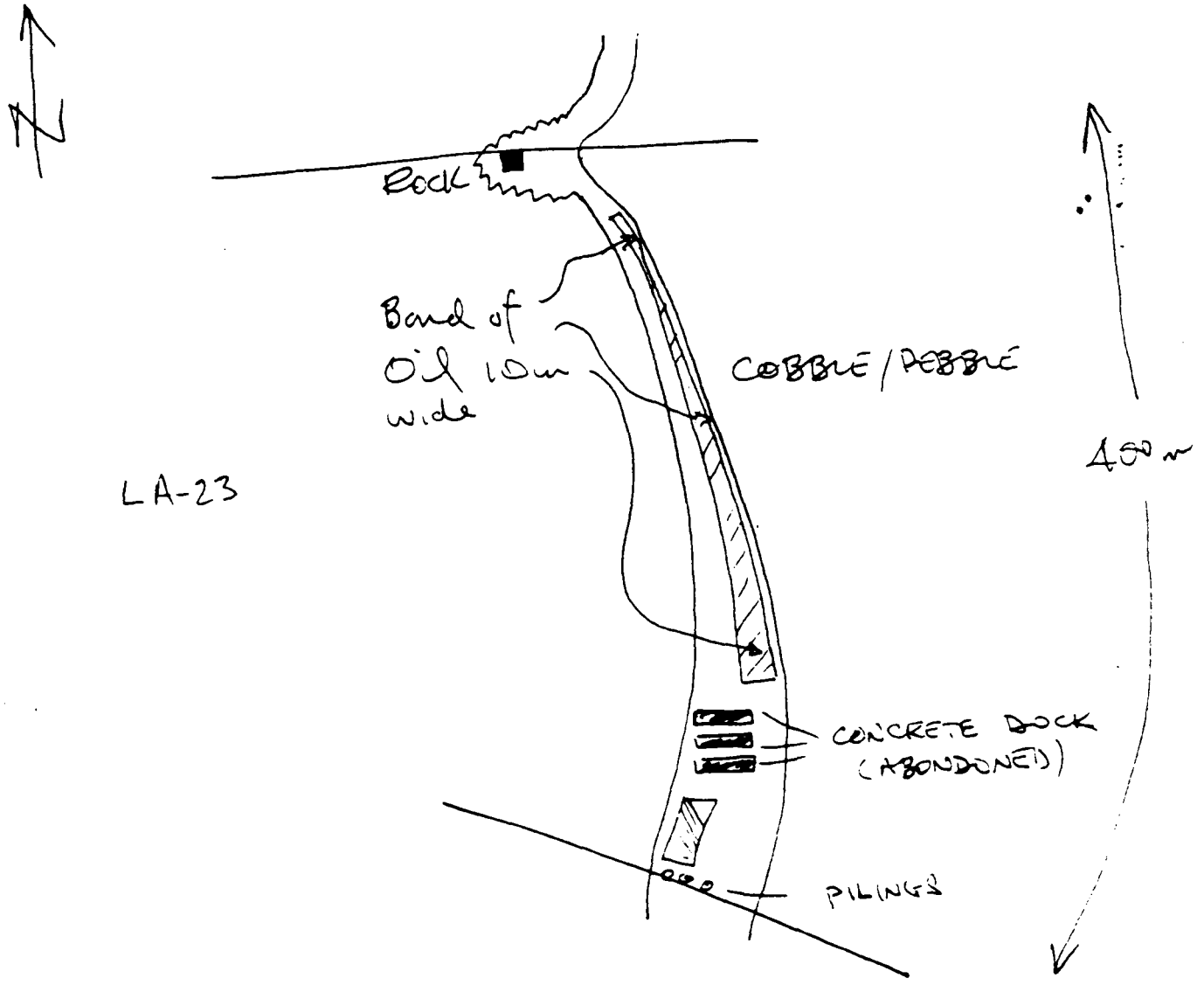
DOCUMENTATION:

Map/Aerial photo marking segment boundaries LA-23 MAP

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) T4G-1

Sample Numbers Collected: N/A



ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: Girdwood OBSERVER: MEYER

LOCATION PREFIX: LA SEG. NO.: 23 LENGTH: 450 (M)

DATE: 06 / 15 / 89 TIME (HHMM): 0740 TIDE HT.: 2FT (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 healthy and not oiled.
Fucus only on headland rock at Girdwood point; most of segment has no fucus.

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

No Mytilus

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

No oil in Balanus
Thatched Barnacles sparse and only on headland rock; acorn barnacles sparse, spat dense + continuous

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

Few littorina in oiled zone, oiled shell but healthy.
Littorina dense in fucus, less abundant on cobbles; Nucella abundant on cobbles in LTZ.

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

Overall sparse distribution, few in oiled zone (oiled shell but healthy)

OTHER OBSERVATIONS:

CLEANUP PRECAUTIONS: None recommended –

MAMMALS: Otters ____ Harbor Seals ____ Sea Lions ____ Whales 2 ORCAS ♀ and young
Other

BIRDS: NW Crow-1; Glaucous Gull-1

GENERAL OBSERVATIONS:

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/15/89 Location Latouche Island Site

Location Prefix LA Segment # LA-23 Length 450m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) 026 Data Source ?

Oil conditions/beach visibility light + patchy

Width of beach zone surveyed 15 m Tree fringe surveyed 30m

Cultural resources observed in beach zone (AHRS code) ~~026~~ MNE, HTI

Cultural resources observed in tree fringe (AHRS code) ~~026~~ MNE, HTI

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

Shore Profile moderately sloped beach + upland

Fresh Water Sources none

Sea Exposure protected to west

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

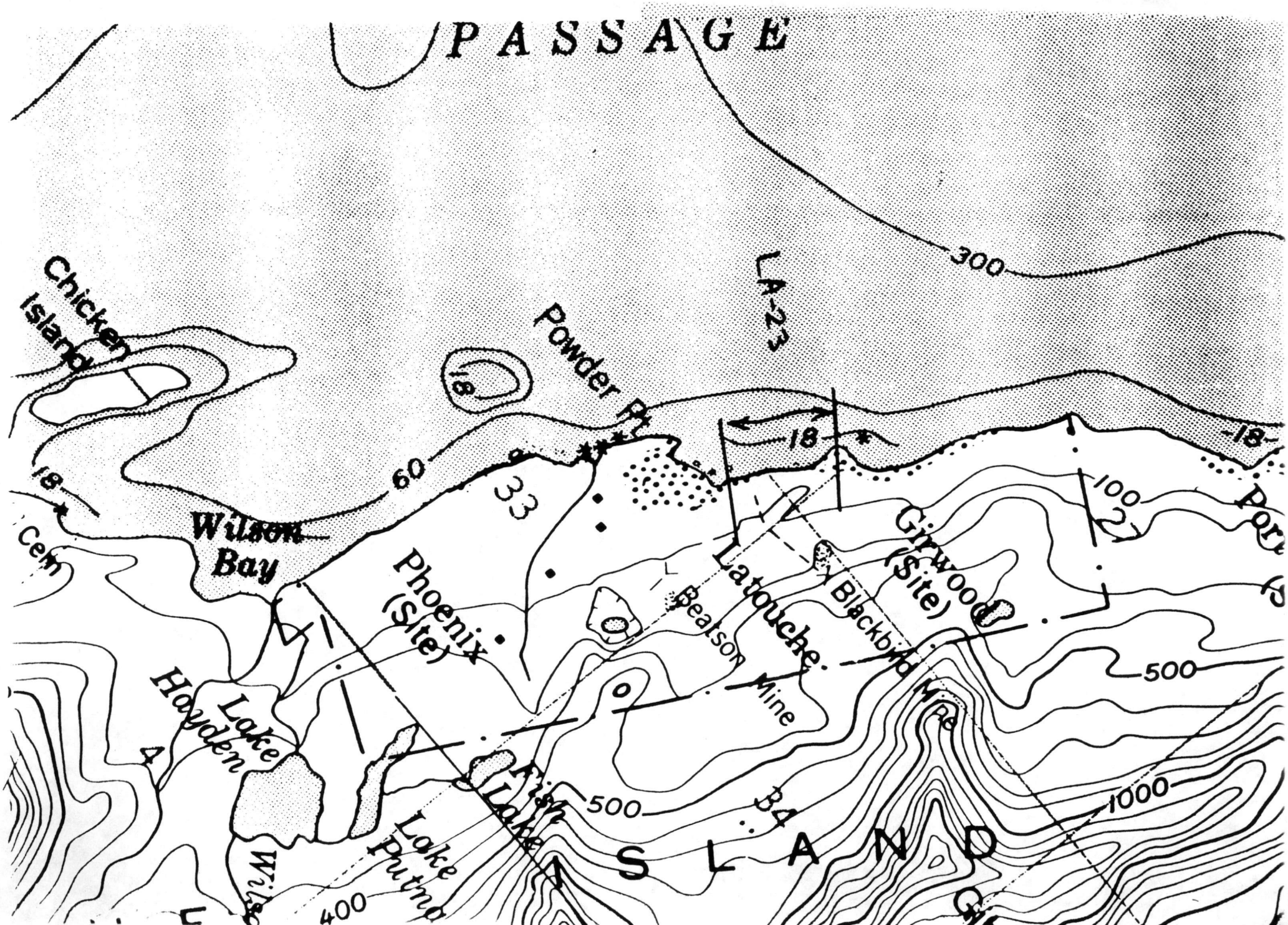
B/W Roll # T4-A-1 Frames 2, 7

Observer(s) C. Wilson

Time survey started 0730 Time survey ended 0 ~~945~~ 800

Cultural resource considerations/restraints:

Cleanup activity in the segment will impact historic resources even if monitoring occurs. If possible, a representative sample of ceramic shards and other objects should be made prior to cleanup. Monitoring is essential.


PASSAGE
Chicken Island
Powder Pt
LA-23
300
18
60
33
Wilson Bay
Cem
Phoenix (Site)
Latouche
Beatson Mine
Blackbird Mine
Girwood (Site)
100
500
1000
Lake Hayden
Lake Putno
Fish Lake
400
B4
S L A N D

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6-18-89 SHORELINE SEGMENT LA-24

LOCATION: (see enclosed map) Latouche Island - Northwest End

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6-15-89

Recommended Cleanup Activity(ies):
- Manually remove contaminated drift material (fucus).
- Use manual techniques (including rakes and shovels) to remove surface oil, except for approximately 100 m on either side of Powder Point, where appropriate approved mechanical means may be used outside buffer zone established by archaeological monitor.

Priorities Considerations:
- Mechanical equipment limited to 6-wheel ATVs to remove bags of oiled debris, except for the Powder Point exception.

Class : 1 light oil/time sensitive
Class : A Subsistence resources present.

Ecological Constraints (from site survey):
Work at mid tide + or take appropriate measures to protect lower intertidal zone.

Archeological Constraints (from site survey):
Archeological monitor required prior to and during cleanup. Cleanup is to avoid historic archaeological material (to be flagged with an approximately 20 m buffer) in the intertidal zone, as per direction of onsite archaeological monitor. Monitor is to prepare a site map depicting location and nature of historic artifacts and features in the intertidal zone per a Workplan for Archaeological Monitoring jointly applicable to LA-23 LA-24. NOTIFY EXXON ARCHAEOLOG. DIRECTOR 48 HOURS PRIOR TO STARTING WORK ON THIS SEGMENT.

[signature] Date: June 20, 1989
State Historic Preservation Officer *

ISCC: [signature] Date: 6-23-89

EXXON: [signature] Date: 89-06-23

FOSC: [signature] Date: 6/23/89

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

8

SHORELINE OIL EVALUATION

Date: 6/15/89 Time: 08:41 Observer: RICK GILLIE

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION LATOUCHE ISLAND SEGMENT NUMBER LA-24

LENGTH OF SHORELINE SEGMENT: 400 m

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

SHORELINE:

Shoreline Type: SPIT/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B___% / C 10% / P 60% / G 20% / S 10% / M___% /R___%

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

OIL

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

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

Continuous: Y/N % of Segment_____ Width of Band: _____m

Sporadic: Y/N % of Segment 10

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 10 cm

Pooled Oil: ____% "Free" Oil: ____% Coated: H___% /M 30 % /L 70 %

Fresh _____% Mousse 10 % Tar Formation: 90 %

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

Comments:

- Oil may be partially buried under 0.5 m gravel bar.
- Only extensive oiling near POWDER POINT. Otherwise patchy and light-moderate coating on substrate.
- Low angle substrate of pebbles / granules / sand

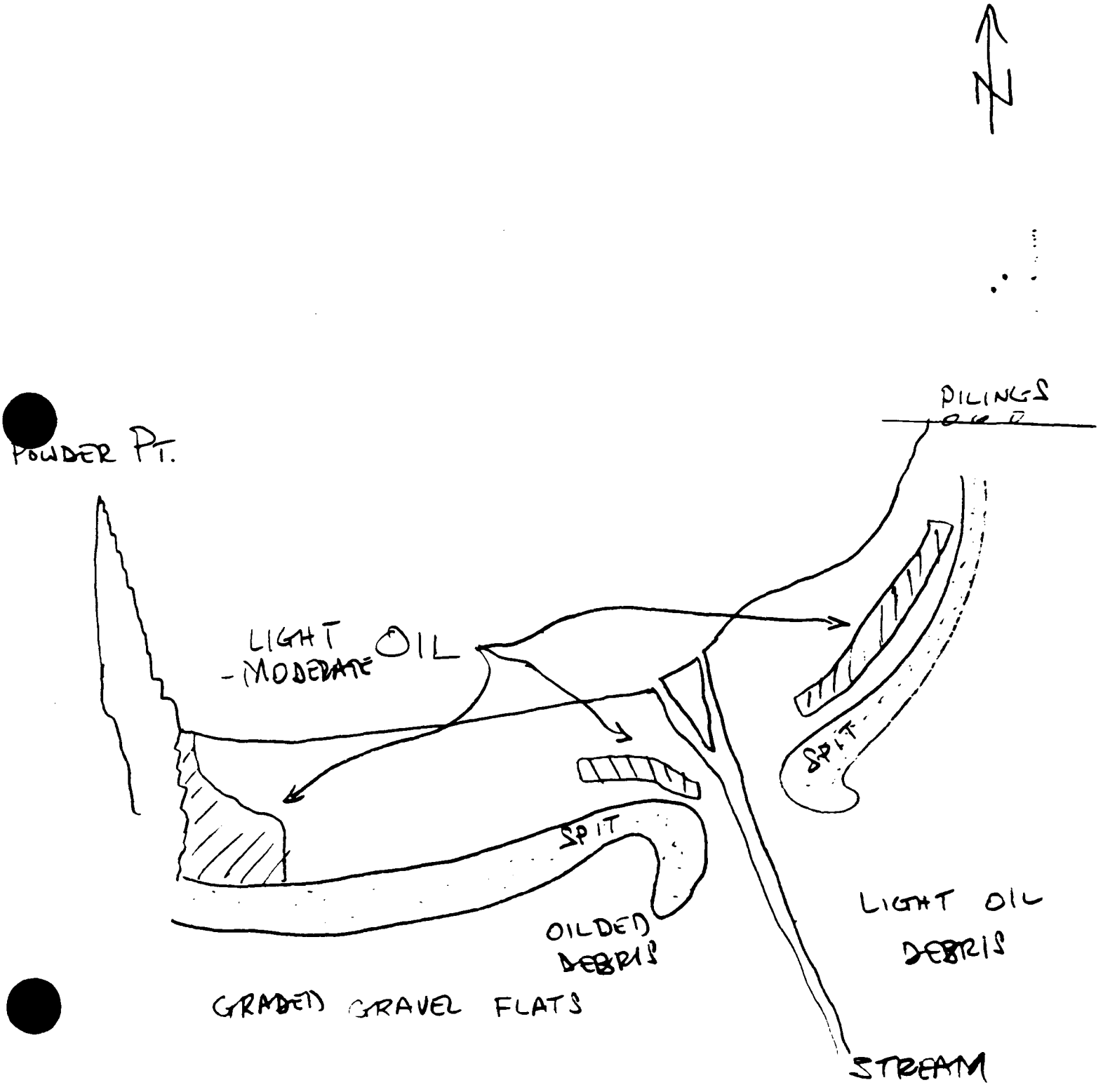
DOCUMENTATION:

Map/Aerial photo marking segment boundaries LA-24 MAP.

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) T4G-1

Sample Numbers Collected: N/A



ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: _____ OBSERVER: MEYER

LOCATION PREFIX: LA SEG. NO.: 24 LENGTH: 400 (M)

DATE: 06/15/89 TIME (HHMM): 0830 TIDE HT.: 3 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

Only present (and not oiled) on headland at end of segment; most of segment w/ no fucus.

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

No Mytilus

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

Patchy acorn barnacles and some spat, not in oiled zone.

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

Patchy, few Littorina, even fewer Nucella, except in fucus @ headland (no oil) where Littorina is abundant

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

OTHER OBSERVATIONS: Potential salmon stream in segment, but diverted by old mining debris and small waterfall also present. Oil/mousse to stream edge in several locals. Stream not listed in ADF&G Anadromous Stream Catalogue – tailings from old mining operations could be adverse to spawning activity.

CLEANUP PRECAUTIONS: Potential Salmon Stream – Advise ADF&G and RAT 48 hours prior to beginning any cleanup activities in this segment

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

BIRDS: semipalmated plover + probable nest; 2 least sandpipers; 4 Arctic Terns

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/15/89 Location Tatoosh Island Site

Location Prefix LA Segment # LA-24 Length 400

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) 026 Data Source ?

Oil conditions/beach visibility light + patchy

Width of beach zone surveyed 25 m Tree fringe surveyed 30m

Cultural resources observed in beach zone (AHRS code) MNE, HTI

Cultural resources observed in tree fringe (AHRS code) MNE, HTI

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

Shore Profile moderately sloped beach uplands

Fresh Water Sources none

Sea Exposure protected to west

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

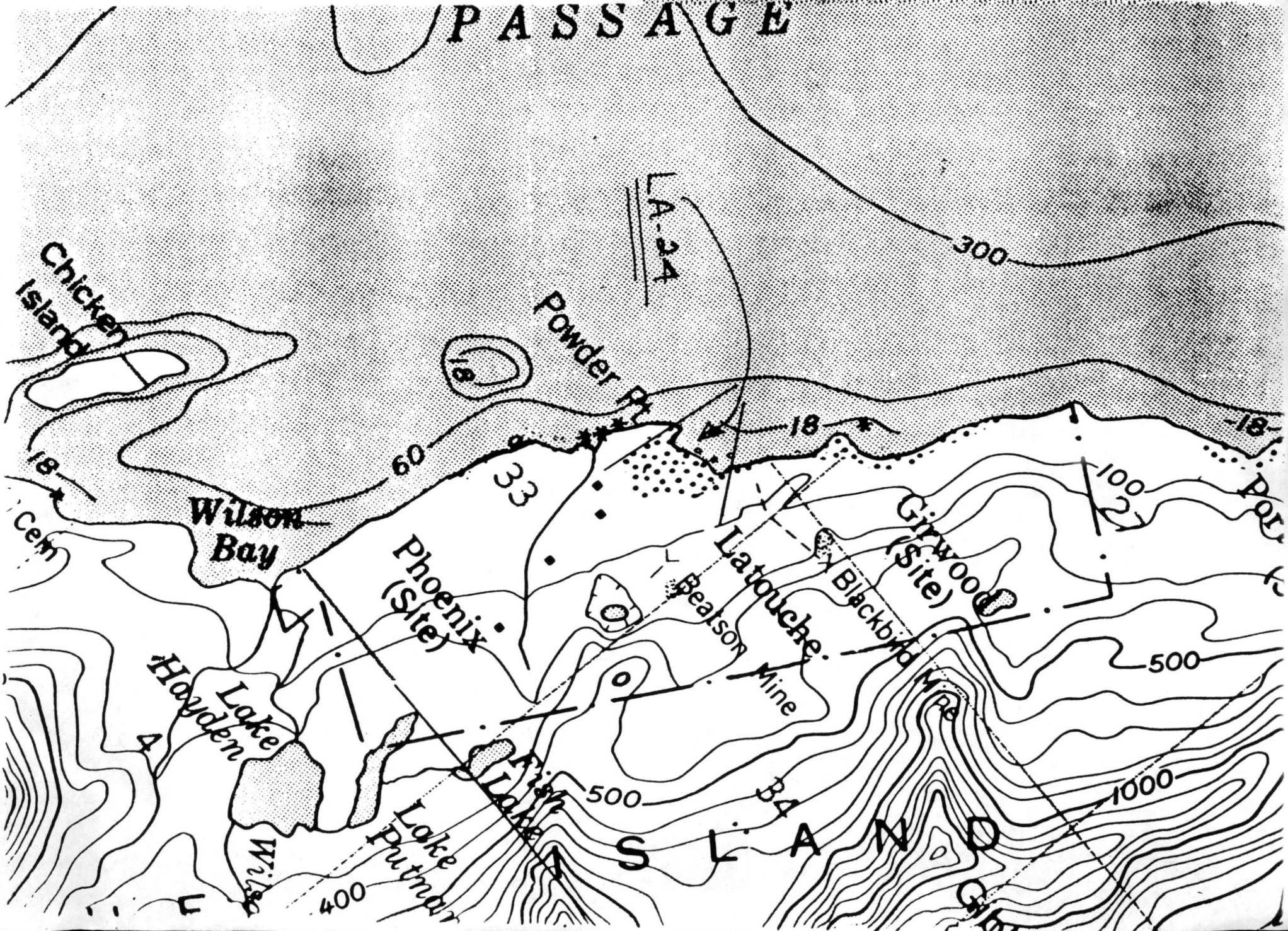
B/W Roll # T4-A-1 Frames 8,15

Observer(s) C. Wilson

Time survey started 0800 Time survey ended 0930

Cultural resource considerations/restraints:

cleanup activity in this segment may impact historic resources even if monitoring occurs [redacted] monitoring is essential.


PASSAGE
A-24
Chicken Island
Powder Pt
18
60
33
300
100
500
1000
400
Wilson Bay
Cem
Phoenix (Site)
Latouche
Beatson Mine
Blackburn Mine
Girwood (Site)
Lake Hayden
Lake Putnam
Fish Lake
B4
4
SLAND

FINAL ASSESSMENT LOG

SEGMENT LA 21 DATE 9/17/89

1. COVERAGE BY SURFACE OIL

- [ ] NONE
- [ ] INTERMITTENT
- [x] LIGHT (<10%)
- [ ] MODERATE (10-50%)
- [ ] HEAVY (>50%)

DESCRIPTION: SMALL POCKETS OF VERY LIGHT OIL IN CREVICES.

2. SUBSURFACE OIL DEPTH: — INCHES

NOTES: LIGHT COATING AND STAIN IN CREVICES.

3. SHEEN IN AREA? [x] YES [ ] NO

NOTE: LG. PATCH OF SHEEN OBSERVED ABOUT 100 FT OFF THE SHORELINE, APPROX. 200 YDS N. OF PORT CRAWFORD. SHEEN PATCH ABOUT 200FT LONG X ~~30~~ 15 FT WIDE.

4. OBVIOUS DAMAGE

FLORA	[ ] YES	[x] NO
FAUNA	[ ] YES	[x] NO
ARCHAEOLOGICAL	[ ] YES	[x] NO

NOTES:

5. DEBRIS FOR PICKUP [ ] YES [x] NO

DESCRIPTION:

6. COMMENTS:

MKC [signature]
SIGNATURE

SCOT I
POSITION

7/14/89
BJd

TREATMENT MANUAL, 6/15/89

SEG LA 21 INSPECTION # 1

DATE 7/13/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☐ Hot water wash
- ☐ Warm water wash
- ☐ Water deluge
- ☒ Mechanical Pom-Pom of AREA
- ☒ Non-mechanical Fucus & Debris Removal
- ☐ Other

Exxon

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

Comments ENVIORNMENTALLY CLEAN

Signature C.F. Duggan Date: 7/13/89 Time: 12:00

Printed Name

Existing Shoreline Condition As Visually Determined by USCG

Percent	Degree of Oiling
	Heavy
	Medium
90	Light
	Very Light
10	None
100 %	

Surface Oil

Subsurface Oil

☑ Yes ☐ No

Comments MODERATE CONTAMINATION.

Reassessment

☑ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments NOT AVAILABLE. ADEC observation team leader Tom Lewis (Cordova)

Signature Date: / / Time:

Printed Name

FINAL ASSESSMENT LOG

SEGMENT LA 22 DATE 9/17/89

1. COVERAGE BY SURFACE OIL

- [ ] NONE
- [ ] INTERMITTENT
- [x] LIGHT (<10%)
- [ ] MODERATE (10-50%)
- [ ] HEAVY (>50%)

DESCRIPTION: SMALL POCKETS OF VERY LIGHT OIL IN CREVICES

2. SUBSURFACE OIL DEPTH: — INCHES

NOTES: LIGHT COATING AND STAIN IN CREVICES

3. SHEEN IN AREA? [ ] YES [x] NO

NOTE:

4. OBVIOUS DAMAGE

FLORA	[ ] YES	[x] NO
FAUNA	[ ] YES	[x] NO
ARCHAEOLOGICAL	[ ] YES	[x] NO

NOTES:

5. DEBRIS FOR PICKUP [ ] YES [x] NO

DESCRIPTION:

6. COMMENTS:

MKC [signature]
SIGNATURE

SCOT I
POSITION

TREATMENT MANUAL, 6/15/89

SEG GA-22 INSPECTION # 1

DATE 16 Jul 89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments Environmentally Clean

Signature C.F. Duggins Date: 7/16/89 Time: 1630

Printed Name C.F. Duggins

Existing Shoreline Condition As Visually Determined by USCG

Percent	Degree of Oiling
Ø	Heavy
Ø	Medium
10	Light
Ø	Very Light
90	None
100 %	

Surface Oil

Subsurface Oil

- [ ] Yes
- [x] No

Comments

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep Comments Gross surface contamination removed.

Signature Douglas H. Dasher Date: 7/16/89 Time: 1625

Printed Name DOUGLAS H. DASHER, EE III, ADEC

FOSC rep Demobilization approved/disapproved

Comments NO GROSS CONTAMINATION

Signature [illegible] Date: 7/16/89 Time: 1615

SEG LA 23 INSPECTION # 1

DATE 7/13/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☐ Hot water wash
- ☐ Warm water wash
- ☐ Water deluge
- ☒ Mechanical Pom-Pom & AREA
- ☒ Non-mechanical Removed oiled Fucus & Debris
- ☐ Other

Exxon

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

Comments Environmentally Clean

Signature C. F. Duggins Date: 7/13/89 Time: 1200

Printed Name C. F. Duggins

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil Percent	Degree of Oiling
	Heavy
5	Medium
30	Light
	Very Light
65	None
100 %	

Subsurface Oil

☑ Yes ☐ No

Comments MODERATE IN AREAS OF MEDIUM OIL.

Reassessment

☑ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments NOT AVAILABLE. ADEC observation Team LEAVING PAM KEYES ESCORTED

Signature Date / / Time

Printed Name

USCG rep Demobilization Approved/Disapproved

Signature

TREATMENT MANUAL, 6/15/89

SEG LA 24 INSPECTION # 1

DATE 7/13/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☐ Hot water wash
- ☐ Warm water wash
- ☐ Water deluge
- ☒ Mechanical Pom-Pom-d loose oil
- ☒ Non-mechanical Removed oiled Fucus & Co
- ☐ Other

Exxon

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

Comments Environmentally Clean

Signature C. F. Duggin Date: 7/13/89 Time: 1200

Printed Name C. F. Duggin

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
Ø	Heavy
5	Medium
10	Light
Ø	Very Light
Ø	None
100 %	

Subsurface Oil

☑ Yes ☐ No

Comments Light contamination in sand areas.

Reassessment

☑ Yes - necessary ☐ No - not necessary unless re-oiled

ADEC rep Comments not available. ADEC concurred Tech Gordon Pam Kayes concurred

Signature Date / / Time:

Printed Name

Demobilization approved/disapproved

(version 5/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LaTouche Island South Block

Includes Shoreline Segments: LA-25

Submitted : _____ Date: 7/17/89
(for Exxon)

ISCC ~~Approval~~ Recommended: Sharon K. Christopher Date: 8/2/89

FOSC Approval: _____ Date: 8-2-89

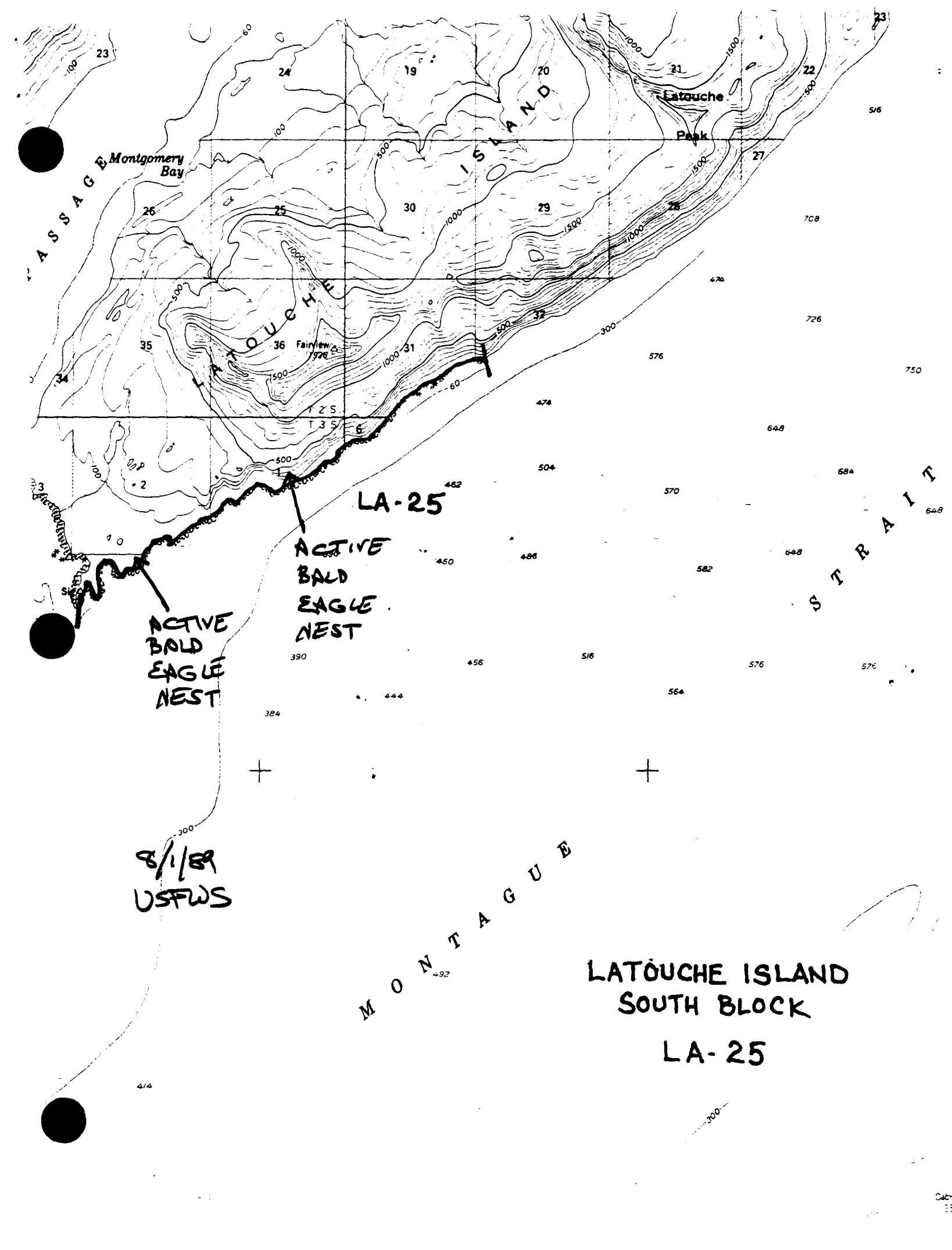
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file

- FOSC
- CDFU
- NOAA
- EPA
- USDA (FS)
- USFW
- A.DEC
- A.FG
- A.DNR
- CAC
- PWSCA
- USFS
- SHPO

ACA 3/22


LA-25
ACTIVE BALD EAGLE NEST
ACTIVE BALD EAGLE NEST
8/1/89 USFWS
LATOUCHE ISLAND SOUTH BLOCK
LA-25
Montgomery Bay
Latouche Peak
Fairview 1976
LATOUCHE ISLAND
PASSAGE
MONTAGUE STRAIT
T 2 S
T 3 S

********** SCOT NOTE **********

THERE ARE ITEMS OF GREAT CONCERN IN THIS APPROVAL BLOCK THAT AFFECT THE DEPLOYMENT OF CREWS AND EQUIPMENT.

READ THIS FIRST

ALL SHORELINE SEGMENTS WITHIN THE LATOUCHE ISLAND SOUTH BLOCK ARE ON LANDS OWNED BY CHUGACH ALASKA CORPORATION. PERMIT NO ACCESS TO UPLAND AREAS AT ANY TIME.

(version 08/02/89)

SHORELINE CLEANUP REASSESSMENT

DATE 08/29/89 SHORELINE SEGMENT: LA-25R

REASSESSMENT DATE 08/27/89

PURPOSE FOR REASSESSMENT "Four weeks since initial assessment"

Revised Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to high wave exposure and extremely poor access.

Priorities Considerations:
Class 2-3: Heavy to moderate oil

Revised Ecological Constraints: If cleanup is planned, work at mid tide + or take appropriate measures to protect lower intertidal and subtital zones. Avoid disturbing offshore kelp beds. There are two bald eagle nests located in this segments, see advisory.

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

State Historic Preservation Officer * Date: Aug. 29, 89

ISCC: Sharon K. Christopherson Date: 9-1-89

EXXON: Daniel R. Tafft Date: 9.1.89

FOSC: C. E. Mallin Date: 9-1-89

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

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/15/89 SHORELINE SEGMENT LA-25

LOCATION: (see enclosed map) Southeast LaTouche Island

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/9/89

Recommended Cleanup Activity(ies):
- Shoreline was generally inaccessible to assess by foot due to high wave energy rocky coastline.

If access is possible by cleanup crews:
- Manually remove contaminated drift material (fucus) and patches of mousse.
- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use moderate to high pressure warm to hot water washing on rock and oiled logs.
- Use other approved methods as appropriate.

Priorities Considerations:
Class 2-3: moderate to heavy oil
Class A: resources present

Ecological Constraints (from site survey):
Work at mid tide + or take appropriate measures to protect lower intertidal and subtidal zones.
Avoid disturbing offshore kelp beds.
Two Active Bald Eagle Nests - See Advisory.

SC 8/2/89
CO August 2, 1989

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

State Historic Preservation Officer * Date: July 18, 89

ISCC: Sharon K. Christopherson Date: 8-2-89

EXXON: [signature] Date: August 2, 1989

FOSC: [signature] Date: 8-2-89

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

SHORELINE OIL EVALUATION

Date: 7/9/89 / Time: 10:55-14:20 Observer: KAROLIEN DEBUSSCHERE

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION S. E LATOUCHE SEGMENT NUMBER LA.25

LENGTH OF SHORELINE SEGMENT: 7285 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane NONE

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 10 % / P 5 % / G 5 % / S 0 % / M 0 % /R 70 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type WOOD & ALGA

OIL

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

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

Continuous: Y/N % of Segment 10 Width of Band: ≤ 30 m

Sporadic: Y/N % of Segment 90

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: — cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H 60 % /M 30 % /L 10 %

Fresh 20 % Mousse 50 % Tar Formation: 30 %

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

Comments:

MOST OF SEGMENT WAS OBSERVED BY SHIEF USING RIMO'S. ONLY THE VERY SOUTHERN END WAS ACCESSABLE AND THIS ONLY WITH SMALL BOAT. WAVE ACTION IS VERY HIGH.

OIL COVER IN LOC ①-② (SEE MAP) WAS EXTENSIVE; NORTH OF ② OIL WAS OBSERVED SPORADICALLY, THE REST OF THE SHORELINE WAS NOT PRONE TO VISIBILITY (BY SHIEF); POTENTIAL FOR UNDERESTIMATION OF OIL.

!! SHORELINE IS MOSTLY INACCESSABLE

LA-25

HEAVY FOG → GO BACK TO BEGINNING

10:55

*LOC ① SKIFF

ROCK OUTCROP → INTERTIDAL ROCK B/W PEN & LATOUCHE

I CONT OIL ALONG OUTCROP AT H

*LOCATION ② WALK

MOSTLY OUTCROP; SOME B/P

ALGAE AT L/M/H ; WOOD AT H/SP

OIL (MOSTLY MOUSSE) COATED ON B/P IN INTERTIDAL CHANNELS

ERODED IN OUTCROP ; ALSO ON ON OUTCROP IN L/M/H

P (23) 11:52 : OILED B IN CREVICES/ INTERTIDAL CH IN OUTCROP WITH

VIEW OF ① IN BACKGROUND

*LOCATION ③

HEAVY COATING OF MOUSSE IN M/H/L → SOME TAR ; THICK!

→ I CONT BAND: ± 20 - 25 M WIDE OILED ALGAE & WOOD

P (24) 11:55 - VIEW OF OIL COVER IN LOC ③

P (25) 11:55 DETAIL → OILED B & ALGAE

P (26) 11:56 VIEW & LOCATION OF BAND OF OIL TAKEN FROM ②

*LOCATION ④

OIL IS NOT AS HEAVY , BUT CONTINUES IN M/H

P (27) 11:06 : EX OF LOC ④ ALOT OF OIL ON OUTCROP; B/W IN INTERTI

AREA OIL FREE

*LOCATION ⑤

LARGE OUTCROP/CLIFF: OIL AT H.TIDE ON SHORE & OFFSHORE FROM

P (28) 12:13 → OIL ON OUTCROP CLOSE TO CLIFFS AT LOC ⑤

*LOCATION ⑥

P (30) 12:21 : OIL ON OUTCROP AT ⑥ AT M/H , WOOD IN M & SP

⇒ P (30) IS IN LINE W ② & DANGER I

!! OIL IS WORST AT ③

* SKIFF N : MANY OFFSHORE OUTCROPS ; IMPOSSIBLE TO GET VERY

CLOSE TO SHORE OR LAND < VERY HEAVY WAVE ACTION

MOSTLY CLIFFS SOME B.-BEACH POCKETS (B/C/P)

OIL IS OBSERVED SPORADICALLY (COULD BE MORE CONT!) → OUTCROP

ARE ERODED // TO SHORELINE

TOWARDS END. ± CONT B/C BEACH - OILED (LOC ⑦)

LOCATION: Prince William Sd SITE: LaTouche Is. OBSERVER: E. R. White

LOCATION PREFIX: LA SEG. NO.: 25 LENGTH: 7285 (M)

DATE: 07/09/89 TIME (HHMM): 0920-1400 TIDE HT.: 1.5 - 0.3 (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 forms a continuous band @ high inter tidal / diverse algal community @ mid-low exposed coast dominated by Alaria @ low.

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

- dense colonies form in protected micro environments / beaches appear too coarse & high energy for mussel growth

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

continuous / sometimes dense B. glandula @ mid-high intertidal / some dense colonies of B. cariosus @ low.

Littorina

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

continuous & sometimes extensive & dense

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

continuous but sparse on mid-low intertidal

OTHER OBSERVATIONS: segmented is fronted by extensive & sometimes dense kelp bed / tide pools & subtidal areas support eelgrass & dense hermit crab & sculpin populations.

CLEANUP PRECAUTIONS: minimize disturbance to kelp beds & minimize contamination to unoiled lower intertidal & subtidal areas

MAMMALS: Otters (sea otter) 10 Harbor Seals 8 Sea Lions ___ Whales 2

Other ___

BIRDS: marbled murrelets (10) / bald eagles (6) / black legged-kittiwakes (50-80) pigeon guillemots (8)

GENERAL OBSERVATIONS: This area is obviously valuable forage habitat for sea otters & harbour seals & possibly baleen whales. Therefore disturbance to the area should be minimized.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 7/9/89 Location BLYING SOUND (D-3) QUAD SOUTH END LATOUCHE I. Site

Location Prefix LA— Segment # 25 Length 7285 M

Survey Method:

Air (A - indicate on map) Boat ✓ (95%) (A - indicate on map

Ground ✓ (5%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source 14 (HSI FILES AHRS FILES

Oil conditions/beach visibility LIGHT TO MODERATE OIL, BEACH VISIBILITY FA

Width of beach zone surveyed 5-30 m Tree fringe surveyed 0-10 M

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 ROCKY HEADLANDS / COBBLE POCKET BEACHES

Fresh Water Sources SMALL STREAMS

Sea Exposure OPEN TO THE SEA

Access/Safety ACCESS DIFFICULT TO IMPOSSIBLE, FEW SAFE LANDING SITES

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 —

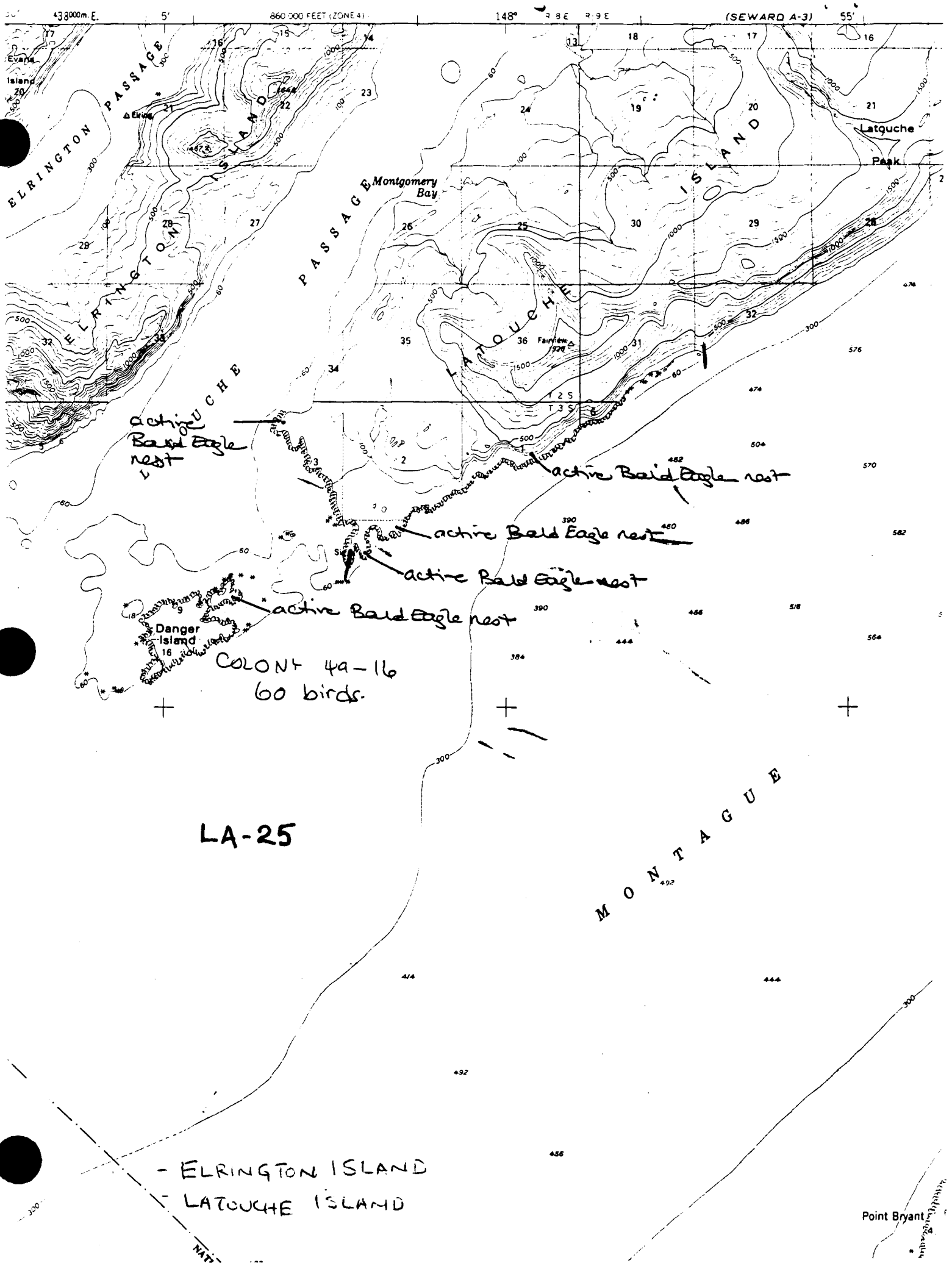
B/W Roll # PEBTMY 9 Frames 26-29

Observer(s) P. BUCK

Time survey started 0910 Time survey ended 1440

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


(SEWARD A-3)
ELRINGTON PASSAGE
ELRINGTON ISLAND
Montgomery Bay
LATOUCHE ISLAND
Latouche Peak
Fairview 1928
Danger Island
active Bald Eagle nest
active Bald Eagle nest
active Bald Eagle nest
active Bald Eagle nest
active Bald Eagle nest
COLONY 49-16
60 birds.
LA-25
MONTAGUE
- ELRINGTON ISLAND
- LATOUCHE ISLAND
Point Bryant

G. Chaney

(version 6/05/89)

SHORELINE CLEANUP REASSESSMENT

DATE 8/27/89 SHORELINE SEGMENT LA-25R

ADEC NO. _____ REASSESSMENT DATE: Aug 27 1989

Revised Recommended Cleanup Activity(ies):

Foot survey/reassessment only possible at southernmost end of segment due to inaccessibility of most of the segment. No revision of original recommended clean-up activities. Access will only be possible on an absolutely calm day, and will still be very limited.

Revised Ecological Constraints:
Only able to visit southern edge of segment due to high waves. No revision of original constraints necessary at this time.

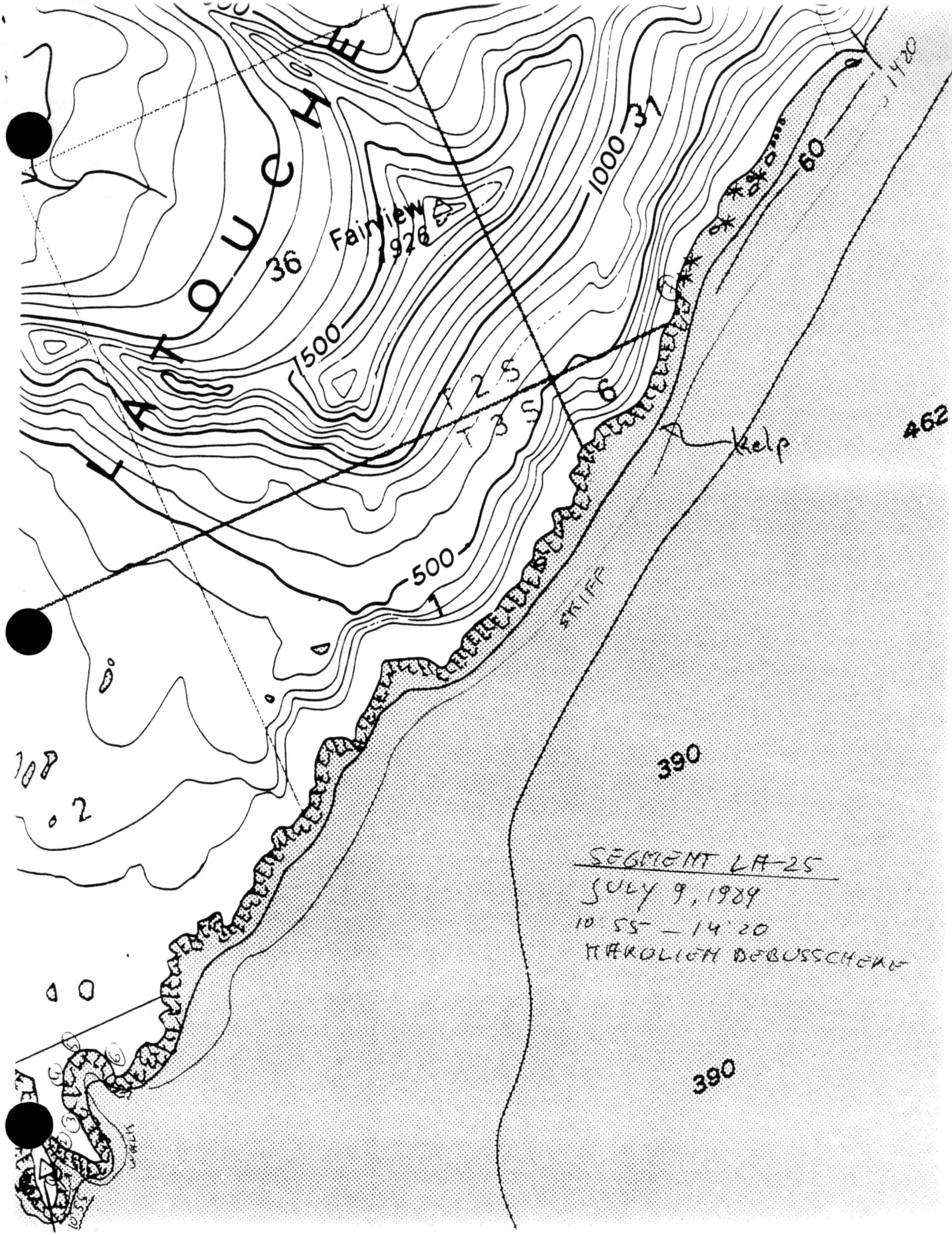
Revised Archeological Constraints:
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

_____ Date: _____
State Historic Preservation Officer *

EXXON: _____ Date: _____

FOSC: _____ Date: _____

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


HATOUCHE
36
Fairview
1926
1000
31
500
T 2 S
T 3 S
6
500
60
1420
462
kelp
SKIFF
390
390
108
0 2
SEGMENT LA-25
JULY 9, 1989
10:55 — 14:20
HAROLICH DEBUSSCHERE

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LATOUCHE ISLAND SOUTH BLOCK (REASSESSED)

Includes Shoreline Segments: LA-25R

Submitted : W R Vosbamp (for Exxon) Date: 8-29-89

ISCC Recommendation: Sharon K. Christopherson Date: 9-1-89

FOSC Approval: C E Dollin Date: 9-1-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file

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- A.FG
- A.DNR
- CAC
- PWSCA
- USFS

(version 08/02/89)

SHORELINE CLEANUP REASSESSMENT

DATE 08/29/89 SHORELINE SEGMENT: LA-25R

REASSESSMENT DATE 08/27/89

PURPOSE FOR REASSESSMENT "Four weeks since initial assessment"

Revised Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to high wave exposure and extremely poor access.

Priorities Considerations:
Class 2-3: Heavy to moderate oil

Revised Ecological Constraints: If cleanup is planned, work at mid tide + or take appropriate measures to protect lower intertidal and subtital zones. Avoid disturbing offshore kelp beds. There are two bald eagle nests located in this segments, see advisory.

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

State Historic Preservation Officer * Date: Aug. 29, 89

ISCC: Sharon K. Christopherson Date: 9-1-89

EXXON: Daniel R. Taft Date: 9.1.89

OK FOSC: C. E. Nollin Date: 9-1-89

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

Segment
Date 9/5/89 LA-25

Check the Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other None Required

Exxon

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

Comment: no work required due to
[illegible] oiling

Signature: R C Harrelson Date: 9/5/89 Time: 9:10

Printed Name: R C Harrelson

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
0	Medium
15	Light
0	Very Light
Q 85	None
100 %	

Subsurface Oil
- [ ] 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
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil
- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment
- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC REP DECLINES TO SIGN FORM.

Printed Name

FOSC rep Demobilization approved/disapproved TO CLEANUP

Comments Conducted re survey from AK. Area Prepared by Heavy

Signature: [illegible] Cruz Date: 9/5/89 Time: 0915

Printed Name: [illegible] Cruz

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LATOUCHE ISLAND EAST BLOCK

Includes Shoreline Segments: LA-26, LA-27, LA-28, LA-29, LA-30, LA-31

Submitted : _____ Date: 8/17/89
(for Exxon)

ISCC Recommendation: _____ Date: 8/25/89

FOSC Approval: _____ Date: 8-25-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

SHPO
FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS

********** SCOT NOTE **********

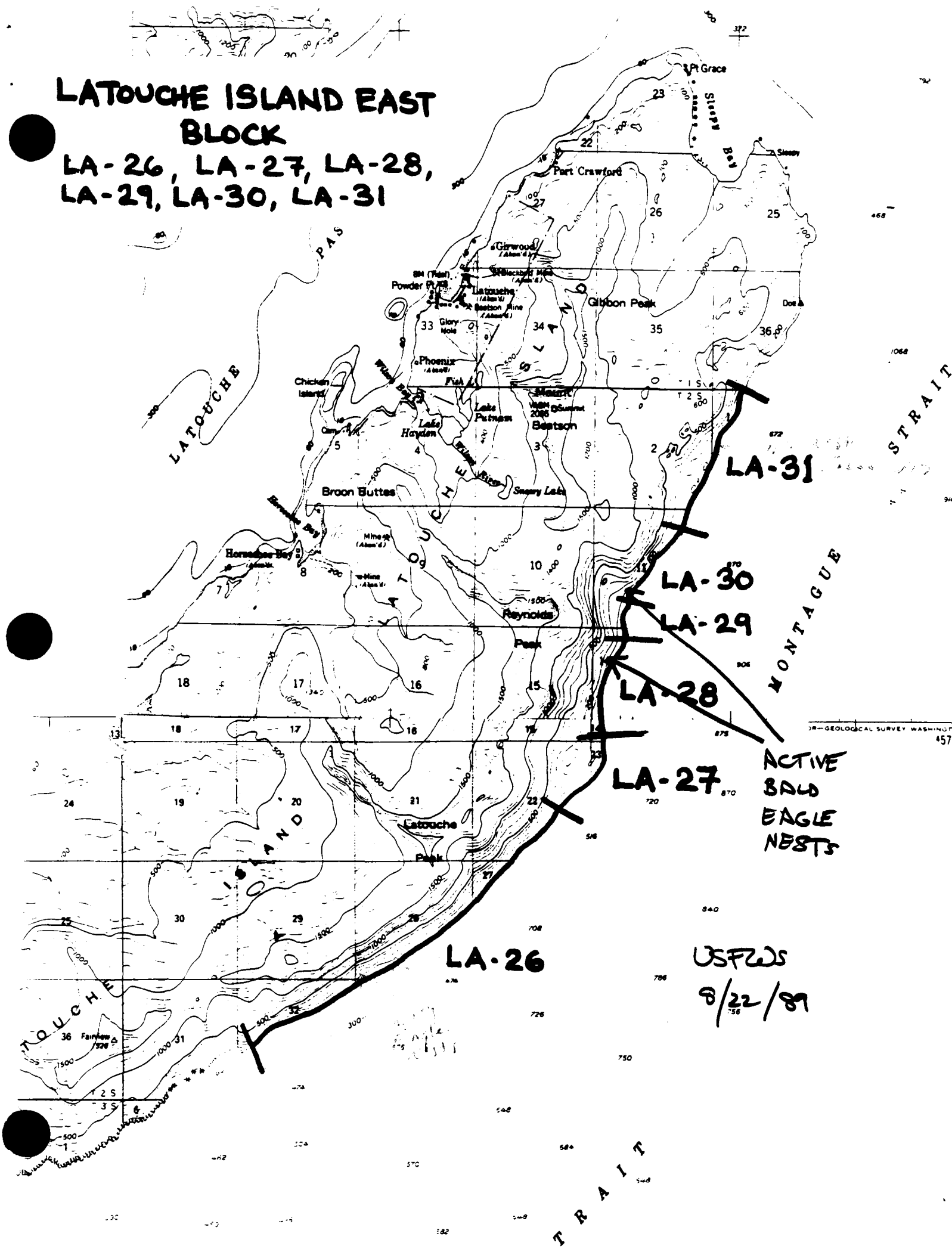
THERE ARE ITEMS OF GREAT CONCERN IN THIS APPROVAL BLOCK THAT AFFECT THE DEPLOYMENT OF CREWS AND EQUIPMENT.

READ THIS FIRST

ALL SHORELINE SEGMENTS WITHIN THE LATOUCHE ISLAND EAST BLOCK ARE ON LANDS OWNED BY CHUGACH ALASKA CORPORATION. PERMIT NO ACCESS TO UPLAND AREAS AT ANY TIME.

LATOUCHE ISLAND EAST BLOCK

LA-26, LA-27, LA-28, LA-29, LA-30, LA-31



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-26

LOCATION: (see enclosed map) LATOUCHE ISLAND-SOUTHEAST COAST

(LATOUCHE ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/4/89

Recommended Cleanup Activity(ies):
No cleanup recommended due to high wave energy which places cleanup personnel in danger and makes self-cleaning likely.

Priorities Considerations:
3B

Ecological Constraints (from site survey):
Use appropriate means to protect the lower and middle intertidal zones.

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.

Pete Bizzell Date: 8/17/89
State Historic Preservation Officer *

ISCC: Jacque Michael Date: 8/25/89

EXXON: Daniel D. Tufts Date: 8.25.89

FOSC: D. F. Craig Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 3, 89 Time: 08:00 Observer: Greg Chaney

Surveyed From: (Foot)/(Boat)/Helio/Plane Weather: (Sun)/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION Southern Latouche Is. SEGMENT NUMBER LA-26

LENGTH OF SHORELINE SEGMENT: 9,400 m

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

SHORELINE: Calm Weather only

Shoreline Type: SPI/(BEA)/COV/HLD/(STRT) Slope: LANG/(HANG)/(VER)

Wave Exposure: (High)/(Med)/Low

Sediment: B 70 % / C 20 % / P — % / G — % / S — % / M — % / R 10 %

Drift Debris on Beach: (Yes)/No Supra/(Upper)/Mid/Lower Type Logs: 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 60 Width of Band: 6+ m

Sporadic: Y/N % of Segment 20

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: +25 cm

Pooled Oil: — % "Free" Oil: — % Coated: H 10 % / M 20 % / L 70 %

Fresh 30 % Mousse 20 % Tar Formation: 50 %

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

Comments:

Landing on this rugged shore proved almost impossible (in 3-4 ft. swell). Very thick bull Kelp grows near shore. Open exposure to Gulf of Alaska swell. Jagged rocks along majority of shoreline. Beach consists primarily of massive boulders. Northern beach landing cut short due to bear sighting. Although landing was mostly not possible, skiff based operations confirmed aerial video evaluations which stated this segment has light to moderate oil. Additional S.C.A.T. survey may be advised when Gulf of Alaska is dead calm. Outer boulders clean, inner boulders which are more protected still have oil.

ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: _____ OBSERVER: Frank

LOCATION PREFIX: LA SEG. NO.: 26 LENGTH: 9400 (M)

DATE: [illegible] TIME (HHMM): 2745 TIDE HT.: +5 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

[illegible]

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

a few small areas of mussels

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

[illegible] was observed from shore

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

[illegible] was observed from shore

OTHER OBSERVATIONS: Extensive Bull kelp and running entire [illegible] Salmon are jumping

CLEANUP PRECAUTIONS: Use appropriate means to protect the [illegible] and intertidal zone

MAMMALS: Otters 1 adult 1 pup Harbor Seals 1 Sea Lions ____ Whales ____
Other 1 Black bear

BIRDS: [illegible] Murres, Bald Eagle

GENERAL OBSERVATIONS: Area is fairly inaccessible by foot [illegible]

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/4/89 Location LATOUCHE ISLAND (BLYING SOUND (D-3) QUAD) Site

Location Prefix LA- Segment # 26 Length 9400 M

Survey Method:

Air (A - indicate on map) Boat ✓ (100%) (A - indicate on map)

Ground (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES (14 (7.5') MAPS)

Oil conditions/beach visibility LIGHT - MODERATE OILING, BEACH VISIBILITY UNKN

Width of beach zone surveyed ~40 m Tree fringe surveyed N/O

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile ROCKY/BOULDERY COASTLINE, TALUS SLOPES

Fresh Water Sources SEVERAL SMALL STREAMS

Sea Exposure OPEN TO THE GULF

Access/Safety ACCESS DIFFICULT - UNABLE TO LAND SKIFF

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) P. BUCK

Time survey started 0705 Time survey ended 1040

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"

S.C.A.T. Team 4

Greg Chaney

Segment: LA-26

Date: August 4 1989

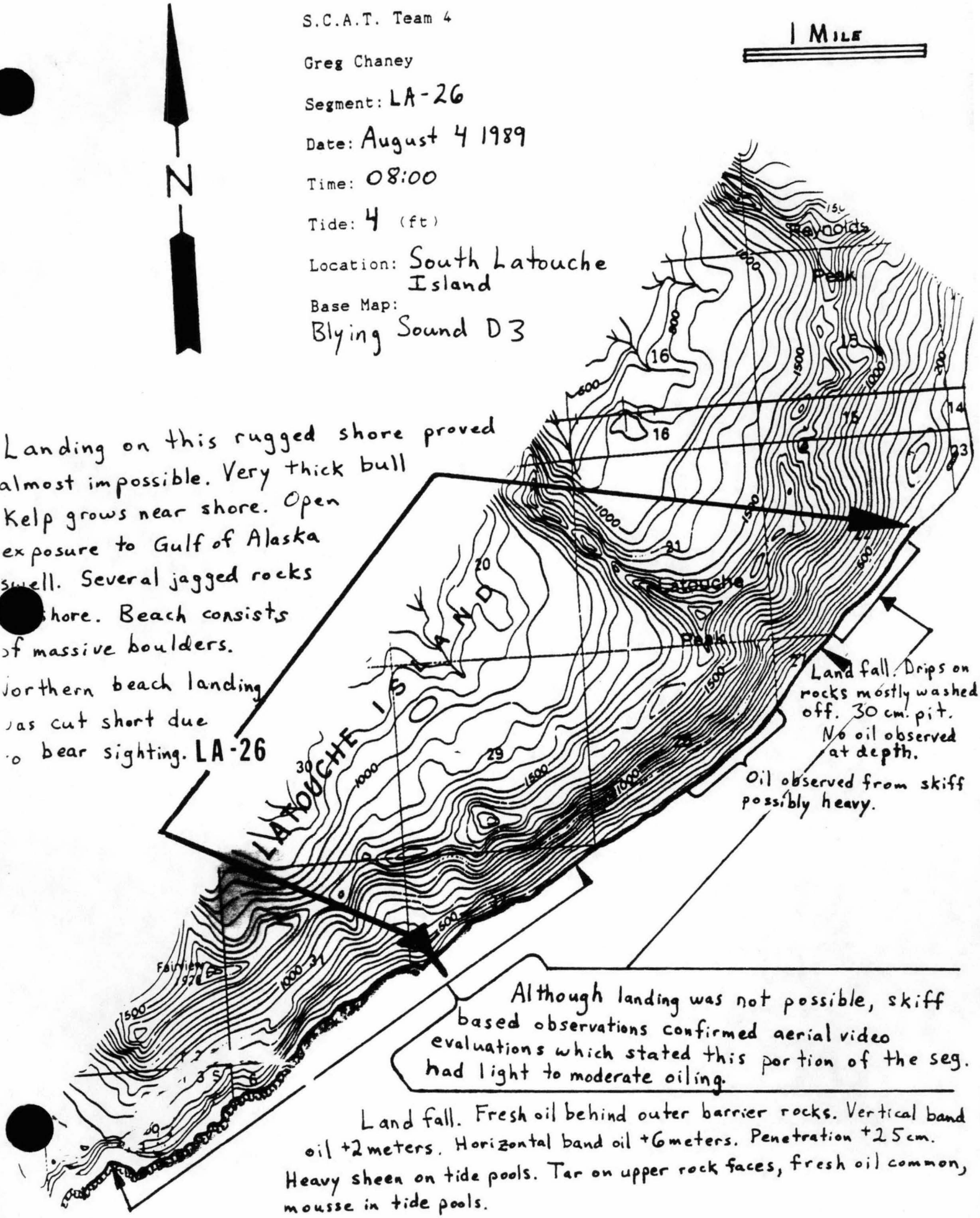
Time: 08:00

Tide: 4 (ft)

Location: South Latouche Island

Base Map: Blying Sound D3

1 MILE



Landing on this rugged shore proved almost impossible. Very thick bull Kelp grows near shore. Open exposure to Gulf of Alaska swell. Several jagged rocks shore. Beach consists of massive boulders. Northern beach landing was cut short due to bear sighting.

Land fall. Drips on rocks mostly washed off. 30 cm. pit. No oil observed at depth.

Oil observed from skiff possibly heavy.

Although landing was not possible, skiff based observations confirmed aerial video evaluations which stated this portion of the seg. had light to moderate oiling.

Land fall. Fresh oil behind outer barrier rocks. Vertical band oil +2 meters. Horizontal band oil +6 meters. Penetration +25 cm. Heavy sheen on tide pools. Tar on upper rock faces, fresh oil common, mousse in tide pools.

n(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-27

LOCATION: (see enclosed map) LATOUCHE ISLAND-EASTERN SHORE

(LATOUCHE ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/4/89

Recommended Cleanup Activity(ies):

-Manual pickup of oiled boom.
-Bioremediation if possible.
-Self-cleaning probable along this lightly to moderately oiled shoreline of medium wave exposure.

Priorities Considerations:

3B

DDT 8-25-

Ecological Constraints (from site survey):
~~Identify location of the Bald Eagle nest listed in this area by USFS. Minimize activity near that site~~. Use appropriate means to protect the lower intertidal zone.

JM 8/25/89

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.

Robb Burgell Date: 8/19/89
State Historic Preservation Officer *

ISCC: Jacqueline Michel Date: 8/25/89

EXXON: Daniel D. Tufts Date: 8.25.89

FOSC: D. E. Cranney Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 4 1989 / Time: 12:05 Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION East Latouche SEGMENT NUMBER LA-27

LENGTH OF SHORELINE SEGMENT: 1,500 m

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 50 % / C 30 % / P 10 % / G 10 % / S — % / M — % / R — %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs 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 25% Width of Band: 6 m (Max observed)

Sporadic: Y/N % of Segment 25% (Max observed)

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: +45 cm

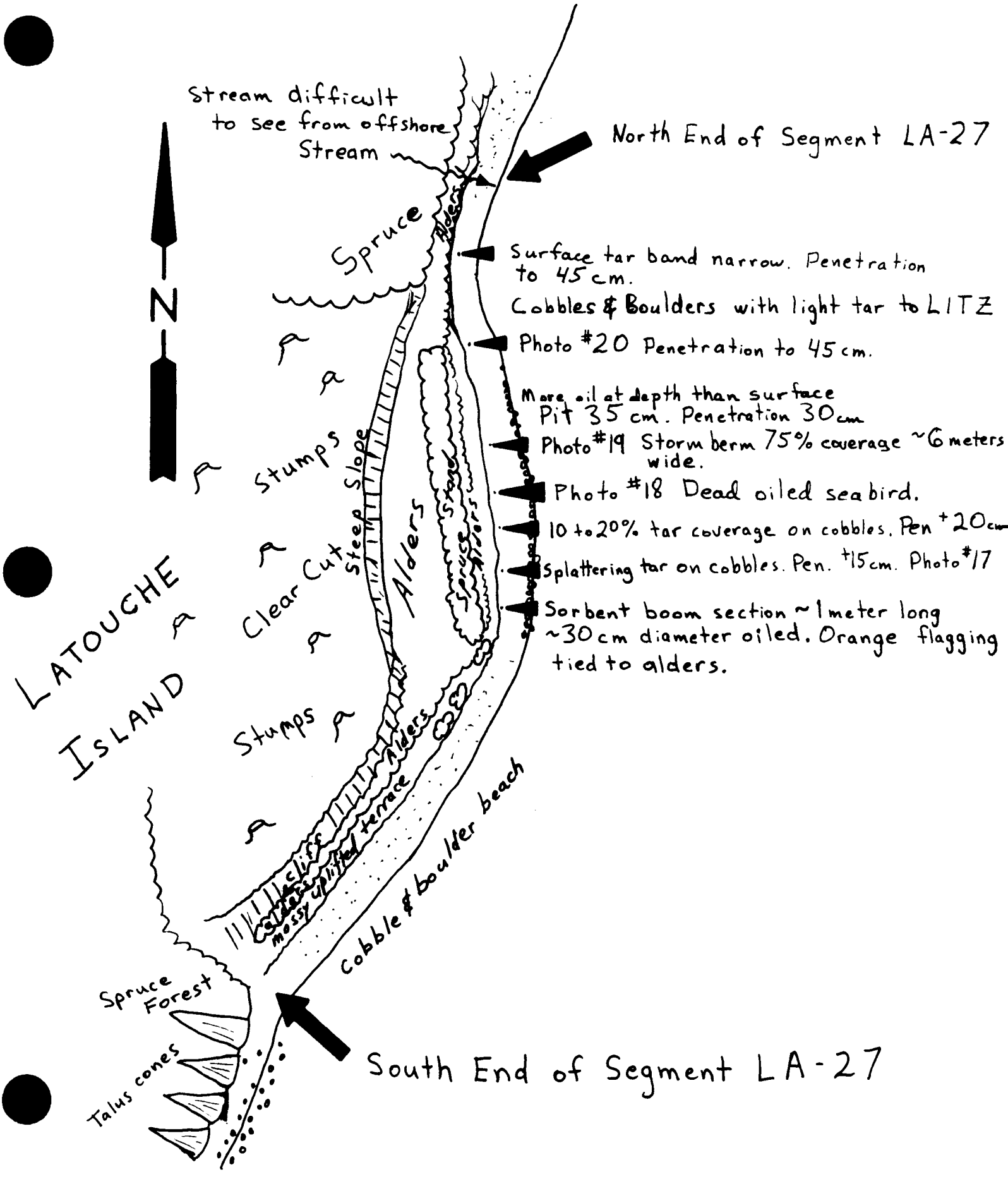
Pooled Oil: — % "Free" Oil: — % Coated: H 20 % / M 20 % / L 60 %

Fresh 10 % Mousse some at depth % Tar Formation: 90 %

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

Comments:

In the northern section of this segment oil is present under the surface in a mobile state but the surface tar is fairly stable. Light coating of tar extends to the lower intertidal zone but appears stable. Majority of mobile oil can be found in the storm berm. The southern portion of the segment does not appear to have significant oiling. A section of oiled sorbent boom was located in the mid section of the segment. Orange flagging was tied to the alders above this boom. (see sketch map)


Stream difficult to see from offshore
Stream
North End of Segment LA-27
N
Spruce
Alders
Surface tar band narrow. Penetration to 45 cm.
Cobbles & Boulders with light tar to LITZ
Photo #20 Penetration to 45 cm.
More oil at depth than surface
Pit 35 cm. Penetration 30 cm
Photo #19 Storm berm 75% coverage ~6 meters wide.
Photo #18 Dead oiled sea bird.
10 to 20% tar coverage on cobbles. Pen +20 cm
Splattering tar on cobbles. Pen. +15 cm. Photo #17
Sorbent boom section ~1 meter long ~30 cm diameter oiled. Orange flagging tied to alders.
Stumps
Steep Slope
Alders
Spruce
Clear Cut
LATOUCHE ISLAND
Stumps
Alders
cliff
mossy uplifted terrace
cobble & boulder beach
Spruce Forest
Talus cones
South End of Segment LA-27

ECOLOGICAL EVALUATION

LOCATION: La Touche Island SITE: _____ OBSERVER: [illegible]

LOCATION PREFIX: LA SEG. NO.: 07 LENGTH: 1500 (M)

DATE: 08/04/89 TIME (HHMM): 1030 TIDE HT.: -1 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

[illegible]

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

Moderate north of sandy area

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

[illegible] north of sandy area

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

north of sandy area

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

OTHER OBSERVATIONS: Greg found oiled bird (Murre?) in storm berm (more [illegible] Upland area of segment has been clear cut. There is rusted logging [illegible]

CLEANUP PRECAUTIONS: Reported Eagle nesting site - [illegible] ADFG 48 hrs prior to clean up. Not known by FWS Delete

MAMMALS: Otters 1 adult 1 pup Harbor Seals ____ Sea Lions ____ Whales ____

Other Crew on Shorleave saw Sho bear and cub on beach [illegible]

BIRDS: Gulls, Stilwaters, Least Sandpipers - Reported Eagles [illegible] arrival

GENERAL OBSERVATIONS: Segment is bounded at north and [illegible] not listed in ADFG as anadromous although [illegible] have potential for salmon.

Note: 08/05/89 - Collected oiled bird, put in plastic bag.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/4/89 Location BLYING SOUND (B-3) QUAD LATOUCHE ISLAND Site

Location Prefix LA— Segment # 27 Length 1500 M

Survey Method:

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

Ground ✓ 100% (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source 14(4X1) MAPS AHRS FILES

Oil conditions/beach visibility LIGHT - MODERATE OIL, GOOD BEACH VISIBILITY

Width of beach zone surveyed 35 M m Tree fringe surveyed 30 M

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 LOW - MODERATE GRADIENT COBBLE / GRAVEL BEACH.

Fresh Water Sources SEVERAL SMALL STREAMS

Sea Exposure SOME PROTECTED BY SMALL BIGHT

Access/Safety POSSIBLE BARGE ACCESS IN CALM WEATHER

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

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

Photos: Color Roll # — Frames —

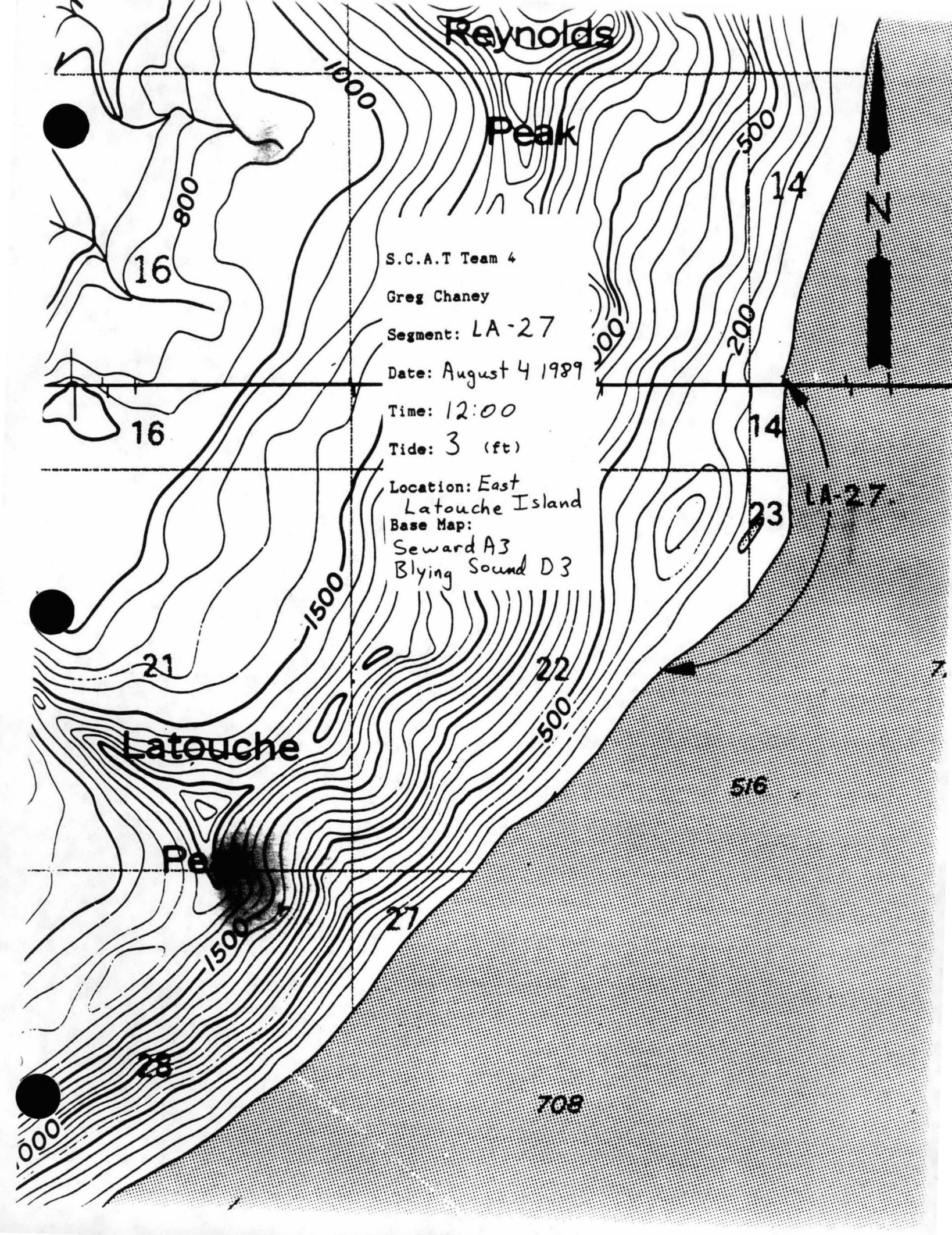
B/W Roll # PEBTMY 19 Frames 10-13

Observer(s) P. BUCK

Time survey started 1100 HRS Time survey ended 1300

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


Reynolds
Peak
1000
800
500
14
16
N
S.C.A.T Team 4
Greg Chaney
Segment: LA-27
Date: August 4 1989
Time: 12:00
Tide: 3 (ft)
Location: East Latouche Island
Base Map:
Seward A3
Blying Sound D3
200
16
14
23
LA-27.
1500
21
22
500
Latouche
516
Pe
27
1500
28
708

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-28

LOCATION: (see enclosed map) LATOUCHE ISLAND-MIDDLE OF EASTERN SHORELINE (LATOUCHE ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/5/89

Recommended Cleanup Activity(ies):
-Bioremediation on pebble/cobble areas if possible.
-No other cleanup recommended because self-cleaning should be effective along this medium to high wave energy shoreline.

Priorities Considerations:
3B

Ecological Constraints (from site survey):
Probable location of Bald Eagle nesting site. Identify nest location and minimize activity in that area. Use appropriate means to protect the lower intertidal zone. SEE ATTACHED MAP. 8/25/89 8.25.89

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

State Historic Preservation Officer * Date: 8/19/89

ISCC: Date: 8/25/89

EXXON: Date: 8.25.89

FOSC: Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 5, 89 Time: 07:20 Observer: Greg Chaney

Surveyed From: (Foot)/Boat/Helio/Plane Weather: (Sun)/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION Eastern Latouche Is. SEGMENT NUMBER LA-28

LENGTH OF SHORELINE SEGMENT: 1000 m

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 50% / C 25% / P 15% / G 10% / S — % / M — % / R — %

Drift Debris on Beach: (Yes)/No Supra/(Upper)/Mid/Lower Type Logs and 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 60% Width of Band: 3-4 m

Sporadic: Y/N % of Segment 30%

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 20 cm

Pooled Oil: — % "Free" Oil: 10 % Coated: H 10 % / M 40 % / L 40 %

Fresh — % Mousse — Some at depth % Tar Formation: 100 %

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

Comments:

Fairly distinct oil band at high intertidal zone 3 to 4 meters wide. Penetration to 20 cm. in storm berm. Band up to 20 meters wide of tarred boulders, primarily boulder tops. Region seems to have been reworked since the spill. Several boulders have oiled tops but clean bottoms. Others seem tilted or overturned from their original position. Sheen observed adjacent to shore. In regions of seepage and small springs the concentration of tar on boulders surface is reduced to ~10% coverage.

ECOLOGICAL EVALUATION

LOCATION: LaTouche Island **SITE:** _____ **OBSERVER:** [illegible]

LOCATION PREFIX: LA **SEG. NO.:** _____ **LENGTH:** _____ (M)

DATE: [illegible] **TIME (HHMM):** _____ **TIDE HT.:** +5 to +1 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

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

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

OTHER OBSERVATIONS: Thick bull kelp bed throughout segment

CLEANUP PRECAUTIONS: Probable Bald Eagle Nesting Site. Contact ADFG 48 hrs prior to use appropriate measures to protect the Lower Intertidal Zone. Stream as southern [illegible] at segment to avoid adding sediments to stream.

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

Other _____

BIRDS: [illegible] Duck ~50 gulls and Kittiwakes

GENERAL OBSERVATIONS: This segment should not be surveyed above a +5 ft [illegible] There are three small streams in this segment, streams 2 and 3 (S & N) have low salmon potential.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

SEWARD (A-3) & BLYING SOUND (D-3) QUADS

Date 8/5/89 Location LATOUCHE ISLAND Site

Location Prefix LA- Segment # 28 Length 450 m

Survey Method:

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

Ground ✓ (100%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES 14(G)(1) MAPS

Oil conditions/beach visibility LIGHT-MODERATE OIL; FAIR BEACH VISIBILITY

Width of beach zone surveyed 25 M m Tree fringe surveyed 10 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile GENTLE GRADIENT COBBLE/GRAVEL BEACH.

Fresh Water Sources SEVERAL SEASONAL STREAMS

Sea Exposure OPEN TO MONTAGUE STRAIT

Access/Safety POSSIBLE BARGE ACCESS

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 # PBTMY 19 Frames 13-14

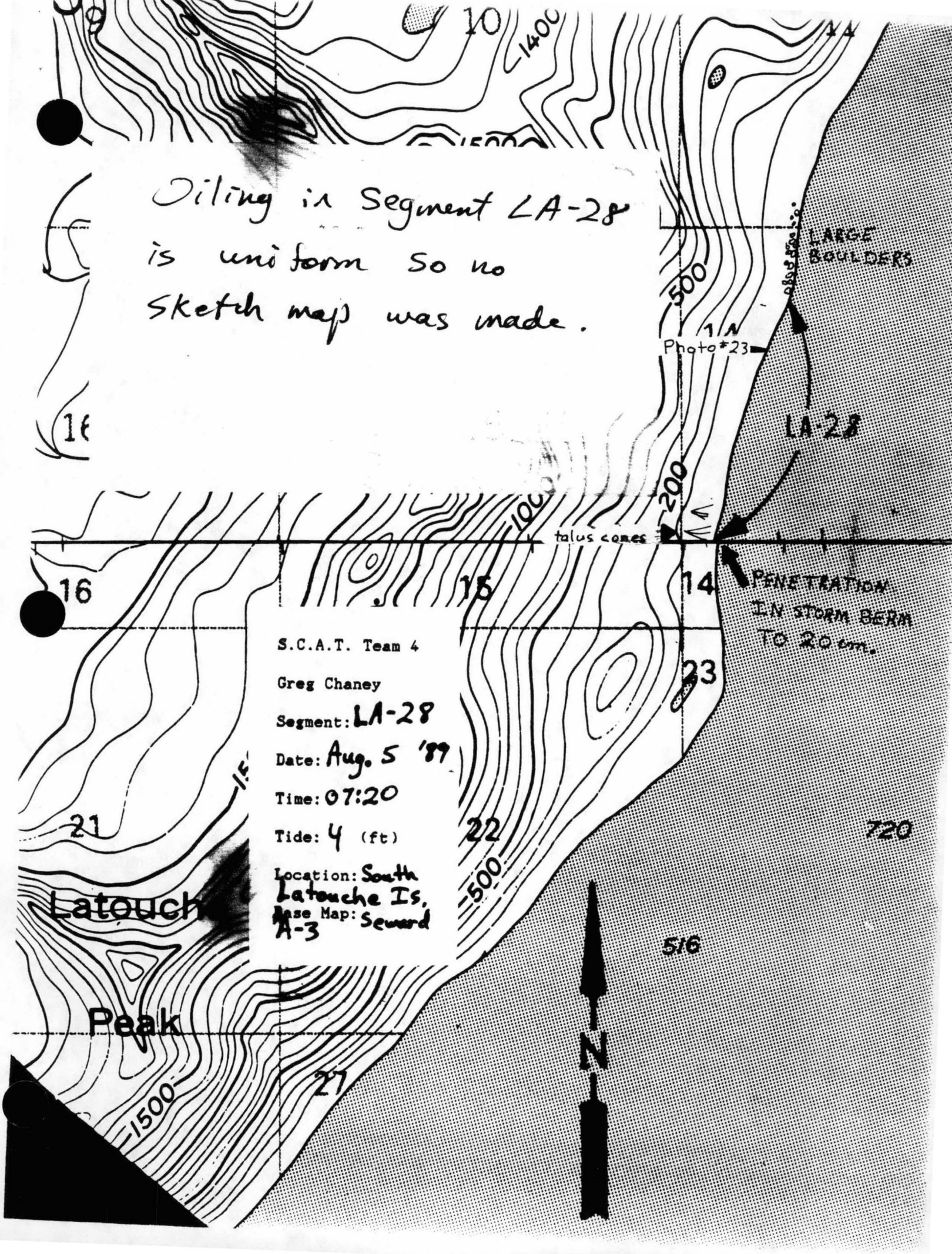
Observer(s) P. BUCK

Time survey started 0720 Time survey ended 0915

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"

Oiling in Segment LA-28 is uniform so no sketch map was made.



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-29

LOCATION: (see enclosed map) LATOUCHE ISLAND-EASTERN SHORE

(LATOUCHE ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/5/89

Recommended Cleanup Activity(ies):
-Bioremediation in areas of pebbles and cobbles if possible.
-No other cleanup recommended since self-cleaning is likely on this shoreline of medium to high wave exposure.

Priorities Considerations:

3B

Ecological Constraints (from site survey):
Use appropriate means to protect the biota in the mid/lower intertidal zone. ANADROMOUS FISH STREAM (No. 016779) PRESENT. NOTIFY RAT 48 hours PRIOR TO TREATMENT. jm 8/25/89 RAT 8.25.89

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

State Historic Preservation Officer * Date: 8/19/89

ISCC: [illegible] Michel Date: 8/25/89

EXXON: [illegible] Tuft Date: 8.25.89

FOSC: [illegible] Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 5, '81 Time: 10:00 AM Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION East Latouche Island SEGMENT NUMBER LA-29

LENGTH OF SHORELINE SEGMENT: 700 m

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 70 % / C 20 % / P 5 % / G 5 % / S — % / M — % / R — %

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

OIL

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

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

Continuous: Y/N % of Segment 60 Width of Band: ~2 m

Sporadic: Y/N % of Segment 20% Max Observed

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 35 cm

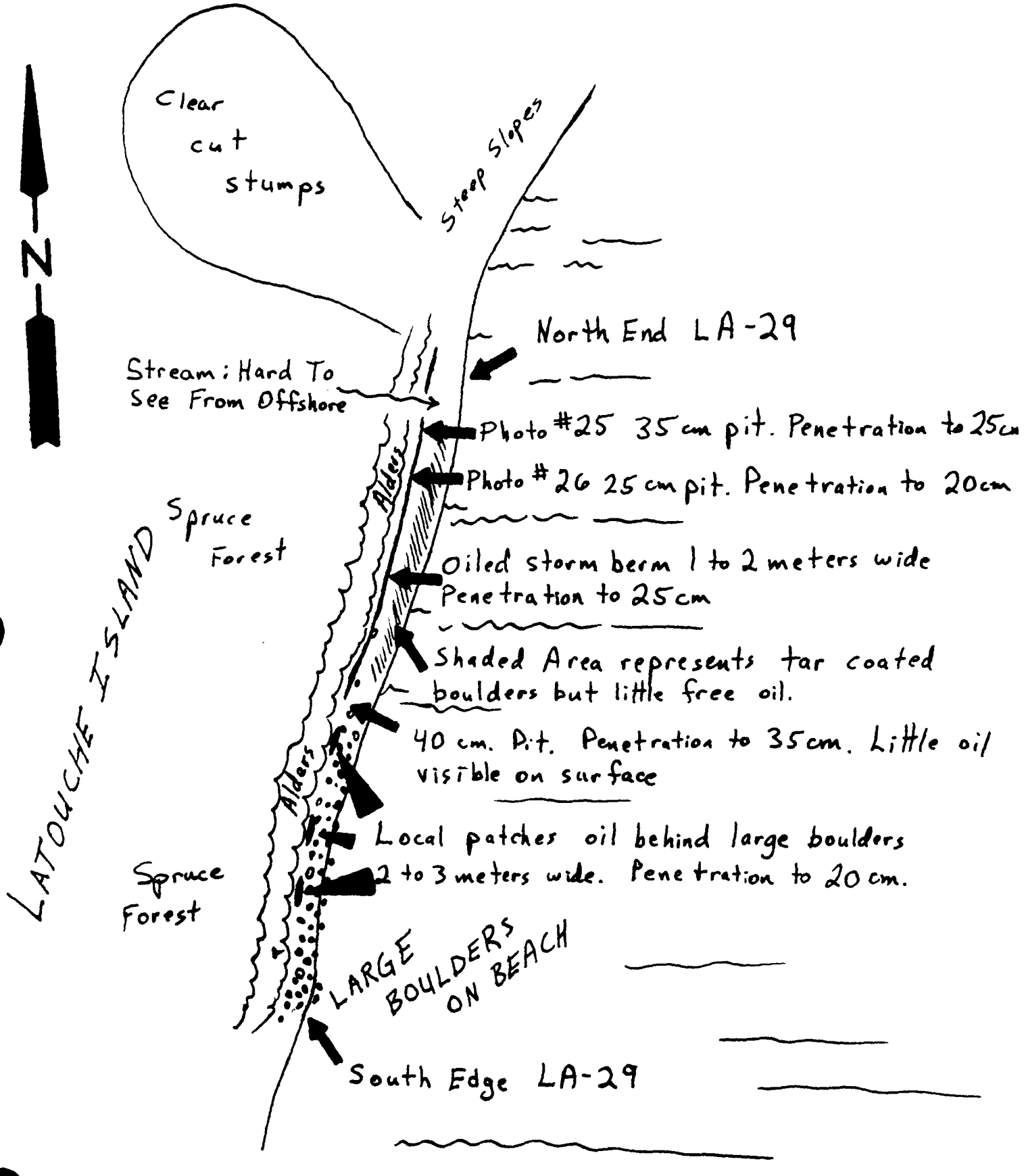
Pooled Oil: — % "Free" Oil: 10 % Coated: H 20 % / M 30 % / L 40 %

Fresh ~10 at depth % Mousse ~10 at depth % Tar Formation: 80 %

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

Comments:

Recoverable oil is concentrated near storm berm. Most of the storm berm's surface does not appear to have oil but oil is burried underneath the gravel and cobbles. Tar coatings are on many rocks in the high to lower intertidal zone but most do not have oil below surface. Little recoverable oil appears to remain in the lower intertidal zone.


N
Clear cut stumps
Steep Slopes
North End LA-29
Stream: Hard To See From Offshore
Photo #25 35 cm pit. Penetration to 25cm
Photo #26 25 cm pit. Penetration to 20cm
Alders
Spruce Forest
LATOUCHE ISLAND
Oiled storm berm 1 to 2 meters wide Penetration to 25cm
Shaded Area represents tar coated boulders but little free oil.
40 cm. Pit. Penetration to 35cm. Little oil visible on surface
Alders
Local patches oil behind large boulders 2 to 3 meters wide. Penetration to 20 cm.
Spruce Forest
LARGE BOULDERS ON BEACH
South Edge LA-29

ECOLOGICAL EVALUATION

LOCATION: a Touch[illegible] SITE: _____ OBSERVER: [illegible]

LOCATION PREFIX: 1A SEG. NO.: 29 LENGTH: 700 (M)

DATE: 28/05/89 TIME (HHMM): [illegible] TIDE HT.: +1 to 0 ft (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

This segment also supports a [illegible] of fucus [illegible]

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

Moderate patches at Southern - Large and [illegible] starting 150 m south of stream.

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

Nucella also present.

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

OTHER OBSERVATIONS: Sea Star Pisaster -. Bull Kelp bed throughout segment. Small Stream at northern boundary to segment

CLEANUP PRECAUTIONS: Oil appears to be stable and above the biota. [illegible] no cleanup at this time as operation may cause a greater impact than present oil.

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

BIRDS: Kittlitz Murrelet, Gulls & [illegible]

GENERAL OBSERVATIONS: Intertidal biota abundance begins at [illegible] +3 ft tide mark. The biota is dense and appears healthy.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/5/89 Location SEWARD (A-3) QUAD LATOUCHE ISLAND Site

Location Prefix LA — Segment # 29 Length 700 M

Survey Method:

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

Ground ✓ 100% (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source 14(h)(1) MAPS AHRS FILES

Oil conditions/beach visibility MODERATE OILING / GOOD BEACH VISIBILITY

Width of beach zone surveyed 40 M m Tree fringe surveyed 10 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile MODERATE GRADIENT BOULDER BEACH

Fresh Water Sources SMALL SEEPS AND SEASONAL STREAMS

Sea Exposure OPEN TO MONTAGUE STRAIT

Access/Safety POSSIBLE BARGE ACCESS IN CALMEST 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 # — Frames —

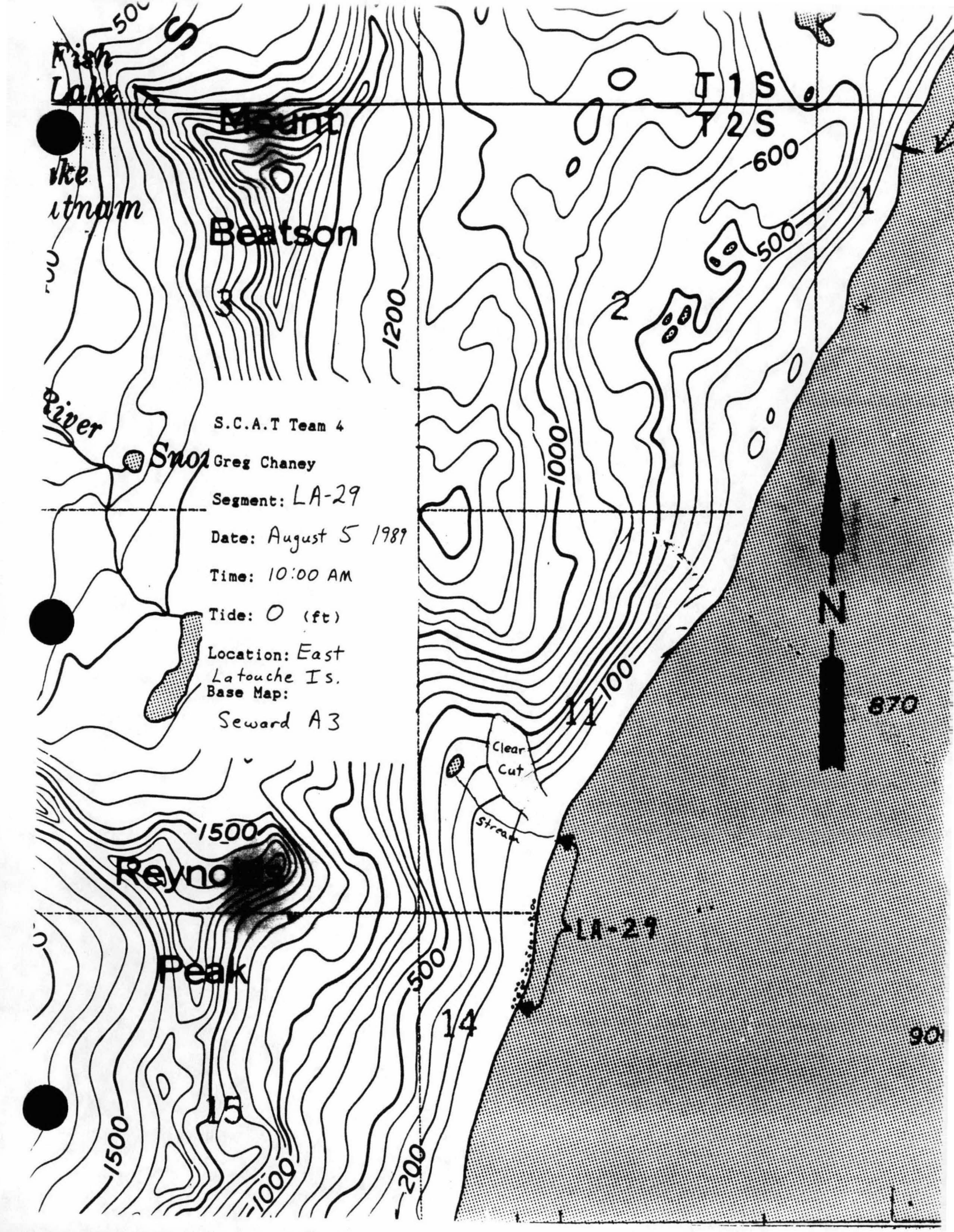
B/W Roll # PEB THY 19 Frames 16-18

Observer(s) P. BUCK

Time survey started 0915 Time survey ended 1120

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


Fish
Lake
Mount
Beatson
T 1 S
T 2 S
600
500
1
2
3
1200
1000
River
Snow
S.C.A.T Team 4
Greg Chaney
Segment: LA-29
Date: August 5 1989
Time: 10:00 AM
Tide: 0 (ft)
Location: East Latouche Is.
Base Map:
Seward A3
N
870
11
100
Clear Cut
Stream
1500
Reyno
Peak
LA-29
500
14
15
1500
1000
200

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-30

LOCATION: (see enclosed map) LATOUCHE ISLAND-NORTHEASTERN SHORE

(LATOUCHE ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/6/89

Recommended Cleanup Activity(ies):

-Bioremediation for cobble/pebble areas if possible.
-No other cleanup recommended due to medium to high wave exposure of this shoreline which should result in self-cleaning.

Priorities Considerations:

2B

Ecological Constraints (from site survey):
Use appropriate means to protect the abundant and healthy biota in the lower intertidal zone of this shoreline.
ACTIVE BALD EAGLE PRESENT - SEE ATTACHED MAP.

JM 8/25/89
DBT 8.25.89

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

State Historic Preservation Officer * Date: 8/19/89

ISCC: Jacquel Michel Date: 8/25/89

EXXON: Daniel B. Tuft Date: 8.25.89

FOSC: L. E. Cragg Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug. 6 '89 Time: 08:30 AM Observer: Greg Chaney

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION East Latouche Is. SEGMENT NUMBER LA-30

LENGTH OF SHORELINE SEGMENT: 1260 m

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 60 % / C 30 % / P 10 % / G — % / S — % / M — % / R — %

Drift Debris on Beach: (Yes)/No Supra/(Upper)/Mid/Lower Type Logs

OIL

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

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

Continuous: Y/N % of Segment 90 % Width of Band: ~15 m

Sporadic: Y/N % of Segment 10 %

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 45 cm (Max. Observed)

Pooled Oil: — % "Free" Oil: 10 % Coated: H 20 % / M 30 % / L 40 %

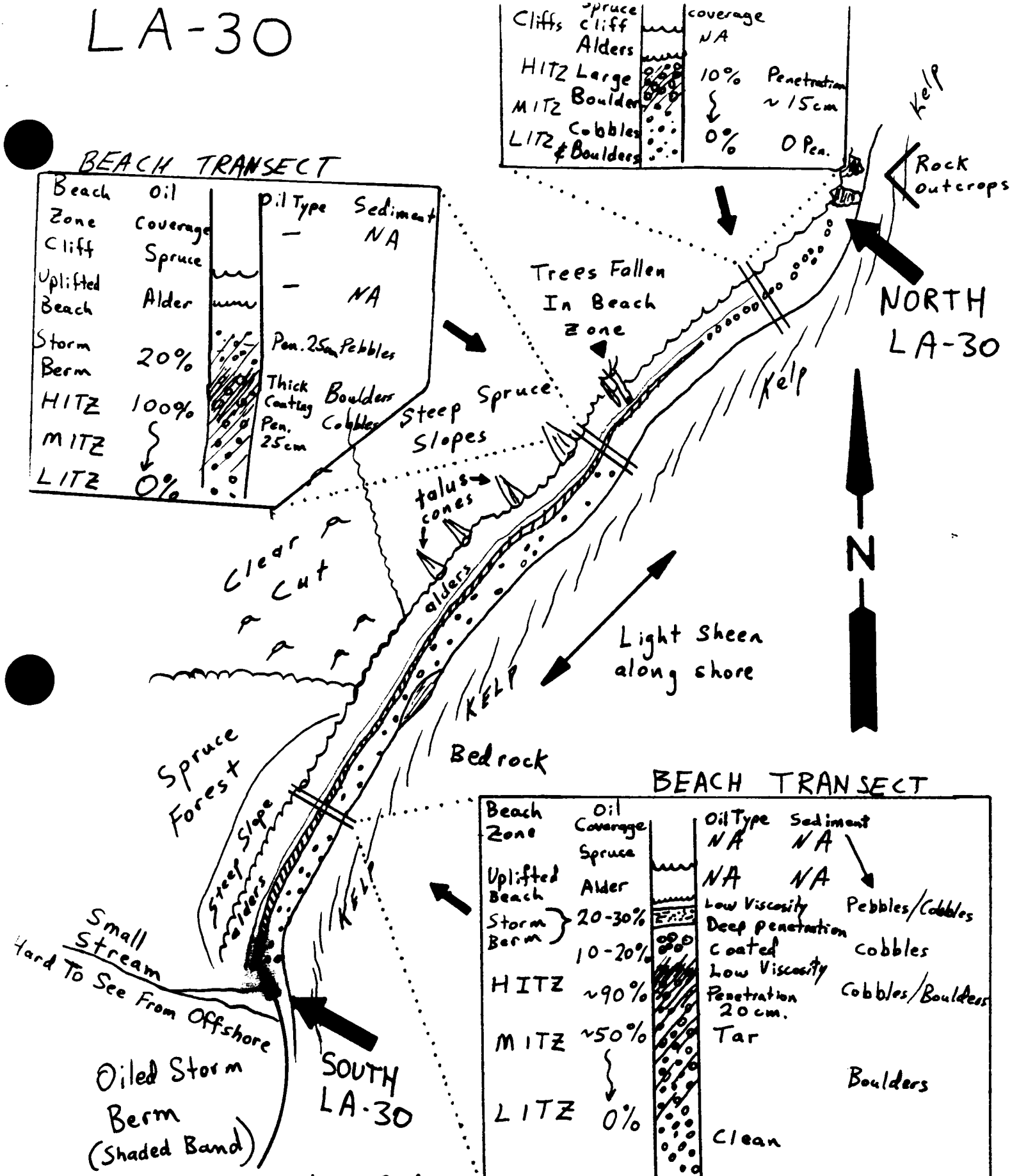
Fresh 10 % Mousse At depth % Tar Formation: 90 %

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

Comments:

Oil is heaviest near southern edge of segment and gradually thins toward northern portion of segment. Deep penetration was observed in the storm berm to 45 cm. Boulders to lower intertidal coated with tar. The oiling gradually changes between the transects shown on the sketch map.

LA-30



Storm Berm Looks Lightly Oiled On Surface
But Under Surface It Is Thickly Coated
40 cm pit. Penetration to ~40 cm.

ECOLOGICAL EVALUATION

LOCATION: La Truche Island **SITE:** _____ **OBSERVER:** [illegible]

LOCATION PREFIX: LA **SEG. NO.:** 30 **LENGTH:** 12 [illegible] (M)

DATE: 08/06/89 **TIME (HHMM):** 0830 **TIDE HT.:** +5 - [illegible] (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

[illegible] in Halo [illegible] in [illegible] in [illegible] spray zone

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

Continuous and dense for about 80m north of station then very patchy & [illegible]

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

Not uniform throughout segment [illegible] to dense concentrations

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

Found above and [illegible] rocks

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

OTHER OBSERVATIONS: Patches of sheen on water surface. Paul Buck archeologist found two sets of bones: 1) the foreleg of a carnivorous possible otter 2) the hoof [illegible] with canine intact possible [illegible] Moose on bones. Sokeskt - [illegible]

CLEANUP PRECAUTIONS: Personnel should avoid walking up the southern [illegible] Tow- and avoid stream banks above the storm berm.

[illegible] appropriate means to protect the abundant healthy biota of the Lower [illegible]

MAMMALS: Otters 1 **Harbor Seals** ____ **Sea Lions** ____ **Whales** ____
Other Black Bear

BIRDS: [illegible] Guillemots, 1 Marbled Murrelet, [illegible] Kittiwakes and Gulls, Pomarine [illegible]
2 Bald Eagles, Least Sandpiper

GENERAL OBSERVATIONS: Paul also found a dead bird in storm berm - belly side [illegible] bare bone, back side oiled feathers, no head. Collected put in [illegible]
Bull Kelp bed throughout segment.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/6/89 Location SEWARD (A-3) QUAD LATOUCHE ISLAND Site

Location Prefix LA- Segment # 30 Length 1260 m

Survey Method:

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

Ground ✓ (100%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source 14(h)(1) AHRS FILES

Oil conditions/beach visibility LIGHT TO MODERATE OIL; FAIR BEACH VISIBILITY

Width of beach zone surveyed 35 m Tree fringe surveyed 10 m

Cultural resources observed in beach zone (AHRS code) HTI

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile LOW/MODERATE GRADIENT BOULDER BEACH

Fresh Water Sources SMALL SEASONAL STREAMS

Sea Exposure OPEN TO MONTAGUE STRAIT

Access/Safety POSSIBLE BARGE ACCESS; SKIFFS OK

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 —

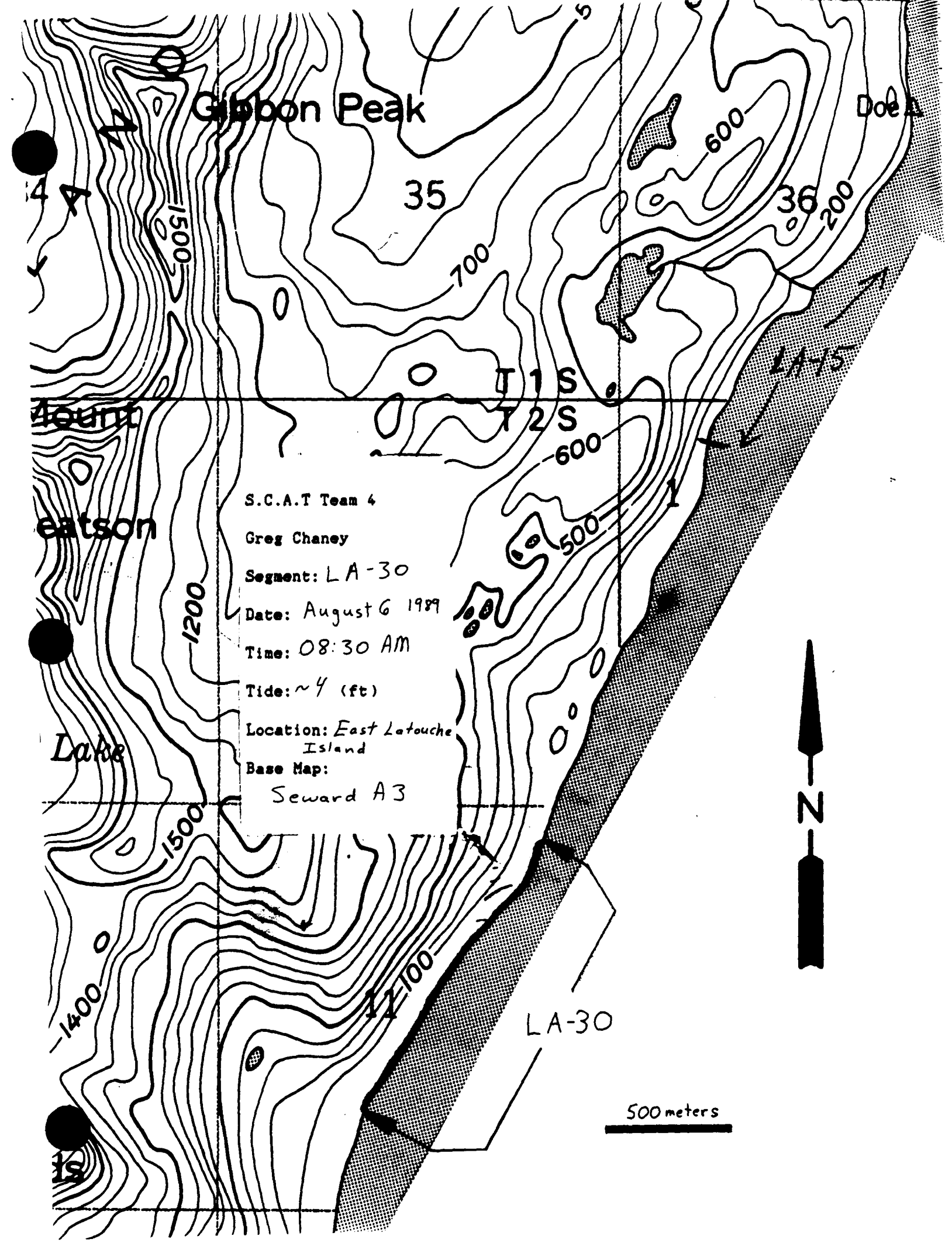
B/W Roll # PEGTMY 19 Frames 19-22

Observer(s) P. BUCK

Time survey started 0835 Time survey ended 1135

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


Gibbon Peak
35
36
T 1 S
T 2 S
1500
700
600
200
500
1200
1400
1100
LA-15
LA-30
N
500 meters
S.C.A.T Team 4
Greg Chaney
Segment: LA-30
Date: August 6 1989
Time: 08:30 AM
Tide: ~4 (ft)
Location: East Latouche Island
Base Map:
Seward A3

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-31

LOCATION: (see enclosed map) LATOUCHE ISLAND-NORTHEAST SHORELINE (LATOUCHE ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/6/89

Recommended Cleanup Activity(ies):

No cleanup recommended

Priorities Considerations:
4B

Ecological Constraints (from site survey):
Use appropriate means to protect the middle and lower intertidal zones of this segment. CATALOGUED ANADROMOUS STREAM (#16785).
Notify RAT 48 hours prior to treatment.

8/25/89
8.25.89

Archeological Constraints (from site survey):
If cleanup occurs, archaeological survey is required above high tide line. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: 8/17/89

ISCC: Date: 8/25/89

EXXON: Date: 8.25.89

FOSC: Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 6 89 Time: _____ Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION N. E. Latouche Island SEGMENT NUMBER LA-31

LENGTH OF SHORELINE SEGMENT: 1700 m

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

Calm weather only. Heavy Kelp offshore

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 65 % / C 10 % / P 5 % / G — % / S — % / M — % / R 30 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs & 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 — Width of Band: — m

Sporadic: Y/N % of Segment 10

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: Boulder Surfaces cm

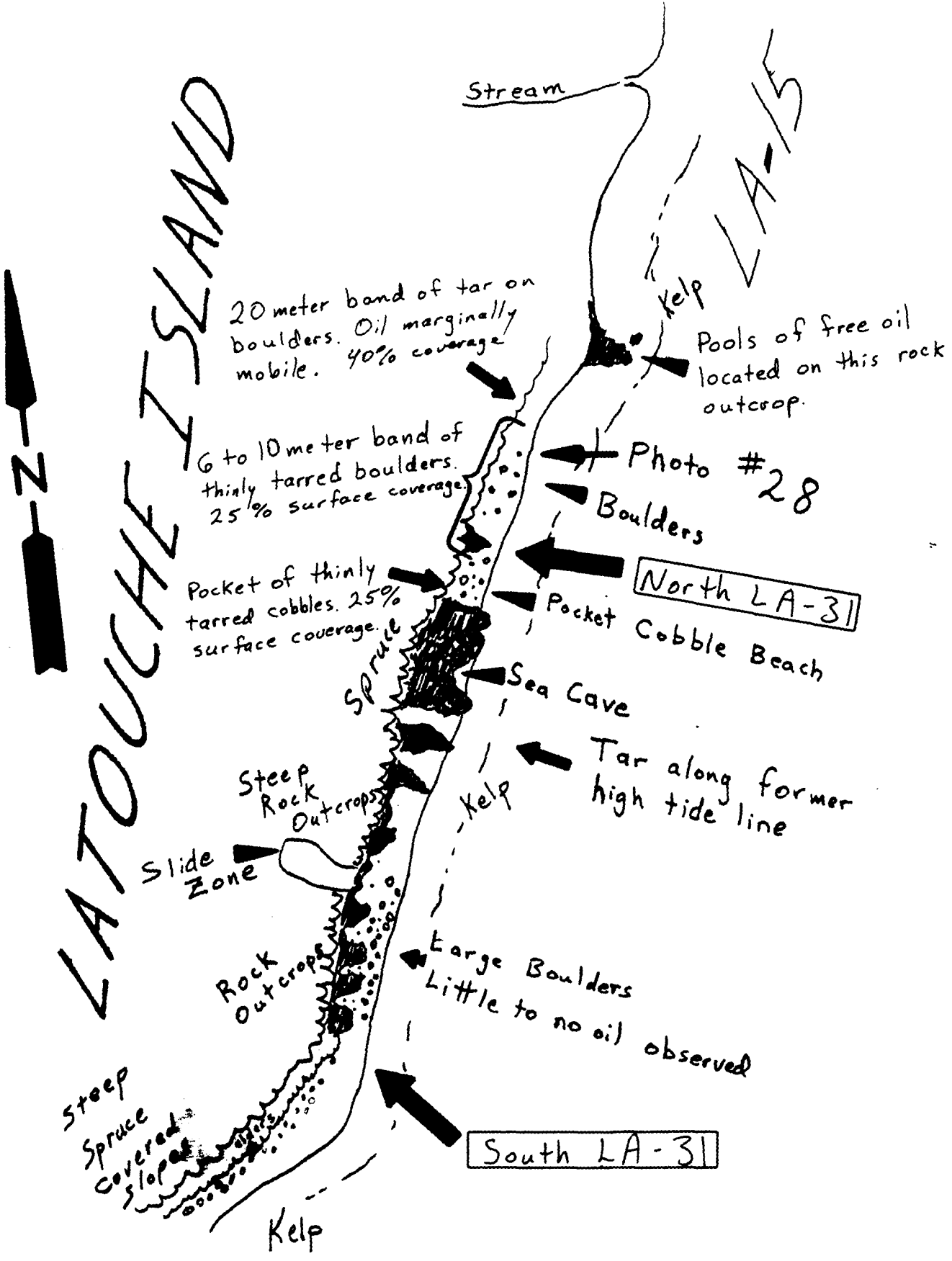
Pooled Oil: — % "Free" Oil: — % Coated: H — % / M 20 % / L 80 %

Fresh — % Mousse — % Tar Formation: 100 %

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

Comments:

The southern border of LA-15 was poorly defined in the documentation available at the time this survey was conducted so additional information beyond what appeared to be the segment boundry was gathered in order to insure overlap. This additional information is present on the segment map only. Light tar was observed in the northern portion of this segment but concentration increased in adjacent LA-15.


LATOUCHE ISLAND
N
Stream
LA-15
Kelp
Pools of free oil located on this rock outcrop.
20 meter band of tar on boulders. Oil marginally mobile. 40% coverage
6 to 10 meter band of thinly tarred boulders. 25% surface coverage.
Photo #28
Boulders
North LA-31
Pocket of thinly tarred cobbles. 25% surface coverage.
Pocket Cobble Beach
Spruce
Sea Cave
Tar along former high tide line
Steep Rock Outcrops
Kelp
Slide Zone
Rock Outcrops
Large Boulders
Little to no oil observed
Steep Spruce covered slope
South LA-31
Kelp

ECOLOGICAL EVALUATION

LOCATION: [illegible] SITE: _____ OBSERVER: [illegible]

LOCATION PREFIX: LA SEG. NO.: 21 LENGTH: [illegible] (M)

DATE: 08/26/89 TIME (HHMM): 1150 TIDE HT.: +4.-5 (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

[illegible]

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

[illegible]

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

[illegible] few areas of moderate [illegible]

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

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

OTHER OBSERVATIONS: Bait trap [illegible] throughout segment. Found [illegible] only one small waterfall. Found a few [illegible] Tealia [illegible] in area of the boulders.

CLEANUP PRECAUTIONS: Biota appears healthy - cleaning not recommended. If [illegible] appropriate means [illegible]

MAMMALS: Otters ___ Harbor Seals ___ Sea Lions 5 Whales ___
Other _____

BIRDS: Marbled Murrelets, Gulls, Kittiwakes

GENERAL OBSERVATIONS: Short area at northern end of segment is [illegible] small pocket beaches, then [illegible] open to [illegible]. Oil is trapped beneath into the boulders.

16785 Salmon Spawning stream; avoid if fish are present.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/6/89 Location LATOUCHE ISLAND SEWARD (A-3) QUAD Site

Location Prefix LA- Segment # 31 Length 1700 M

Survey Method:

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

Ground ✓ 100% (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES 14(4)(1) MAPS

Oil conditions/beach visibility MODERATE OIL; GOOD BEACH VISIBILITY

Width of beach zone surveyed 15-20 m Tree fringe surveyed N/O.

Cultural resources observed in beach zone (AHRS code) HTI

Cultural resources observed in tree fringe (AHRS code) —

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

Shore Profile ROCKY HEADLANDS / ANGULAR BOULDER BEACH

Fresh Water Sources SMALL STREAMS

Sea Exposure OPEN TO MONTAGUE STRAIT

Access/Safety ACCESS FOR BARGE DIFFICULT; SKIFF OK

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

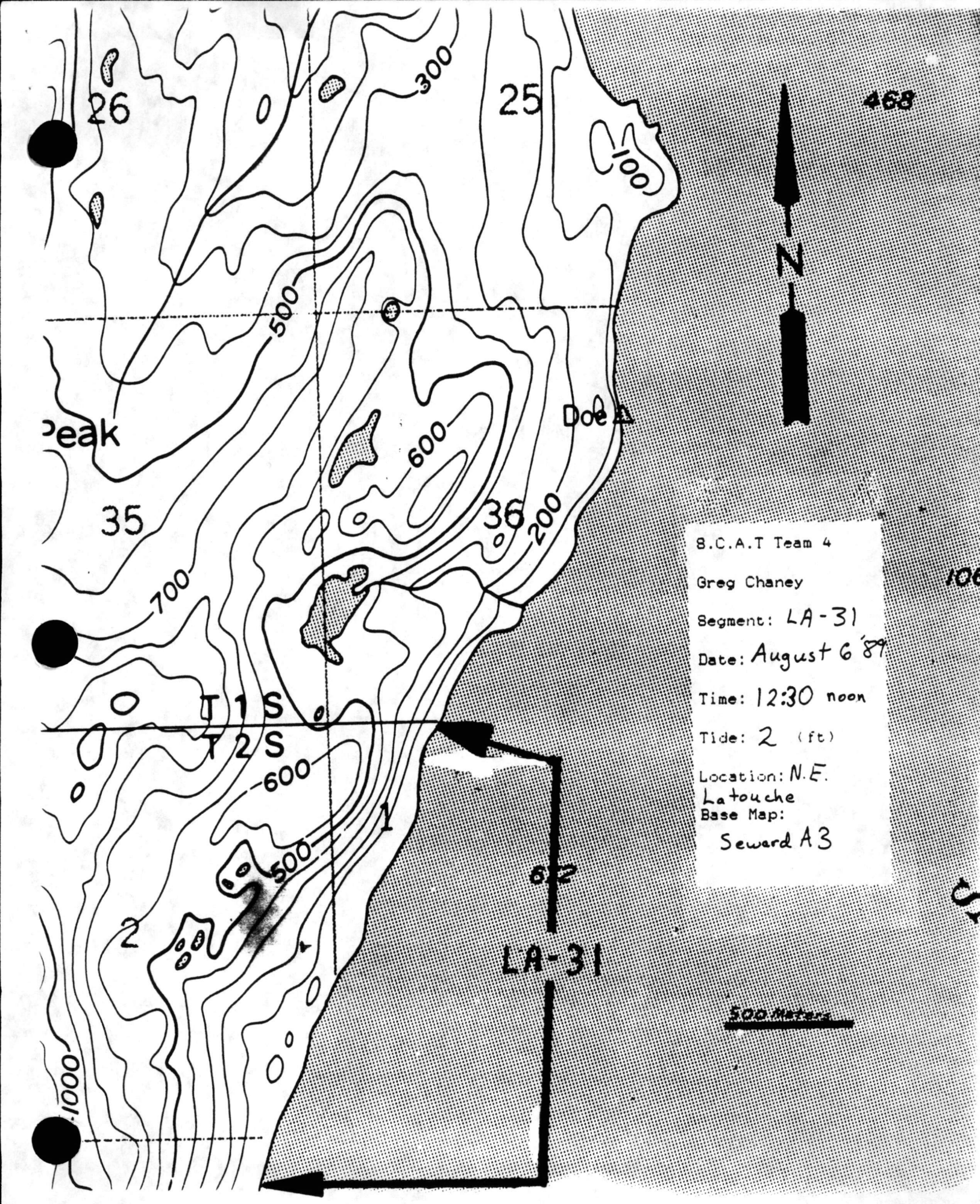
B/W Roll # PETSTMY 19 Frames 23-26

Observer(s) P. BUCK

Time survey started 1135 HRS Time survey ended 1314

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


26
25
300
100
500
600
200
700
35
36
Doe
T1S
T2S
600
500
1
2
1000
N
LA-31
500 meters
S.C.A.T Team 4
Greg Chaney
Segment: LA-31
Date: August 6 '89
Time: 12:30 noon
Tide: 2 (ft)
Location: N.E. Latouche
Base Map:
Seward A3

Segment No. 21

DATE 9/5/89 LA-26

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other NSWR required

Exxon

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

Comments No work required due to amount of oiling

Signature R C Hamelson Date: 9/5/89 Time: 9:10

Printed Name R C Hamelson

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
0	Medium
25	Light
0	Very Light
75	None
100 %	

Subsurface Oil

- [ ] 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
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil

- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC Rep Declined to sign form.

Printed Name

FOSC rep Demobilization approved/disapproved (no clean)

Comments conducted survey from air. Area observed by Harry Kelp.

Signature Paul Ruffner Date: 9/5/89 Time: 0920

Printed Name Paul Ruffner

Segment
DATE 9/5/89 LA-27

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other None required

Exxon

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

Comments No work required due to amount of oiling

Signature RC Harrelson Date: 9/5/89 Time: 9:10

Printed Name RC Harrelson

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
0	Medium
25	Light
0	Very Light
75	None
100 %	

Subsurface Oil

- [ ] 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
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil

- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep declined to sign sign form

Printed Name

FOSC rep Demobilization approved/disapproved (no claim logo)

Comments Contacted supervisor Ken Ahr. Alex Pierceres by Heavy Lift

Signature Date: 9/5/89 Time: 0925

Printed Name Paul Dorsey Cruz

LA 28

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [X] Other None required

Exxon

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

Comments No work required due to amount of oiling

Signature R C Harrelson Date: 9/5/89 Time: 9:40

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
0	Medium
25	Light
0	Very Light
75	None
100 %	

Subsurface Oil

- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil

- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC Rep. Declined to sign form

Printed Name

FOSC rep Demobilization approved/disapproved (NO CLEA REQUI)

Comments Concurred swamp from air & sea Proceeded by Hazmat

Signature [illegible] Date: 9/5/89 Time: 0935

Printed Name Paul Pokey Cowan

DATE LA-29

Check [illegible] Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [X] Other None required

Exxon

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

Comments No work required due to amount of oiling

Signature R C Harrelson Date: 9/5/89 Time: 9:00

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil Percent	Degree of Oiling
Ø	Heavy
Ø	Medium
25	Light
Ø	Very Light
75	None
100 %	

Subsurface Oil
- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment
- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition Visually Determined by ADEC

Surface Oil Percent	Degree of Oiling
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil
- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment
- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC Rep. Declined to sign form

Printed Name

FOSC rep. Demobilization approved/disapproved

Comments Conducted survey from air. Area appeared to be [illegible]

Signature [illegible] Date 9/5/89 Time 0940

Printed Name [illegible]

LA-30

Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other NSA required

Exxon

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

Comments No work required due to amount of oiling

Signature R C Harrison Date: 9/5/89 Time: 9:00

Printed Name R C HARRISON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
Ø	Heavy
5	Medium
20	Light
0	Very Light
75	None
100 %	

Subsurface Oil

- [ ] 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
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil

- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep Declined to sign form.

Printed Name

FOSC rep Demobilization approved/disapproved No da

Comments Conducted Survey Exxon and ADEC Prepared by

Signature Cruz Date: 9/5/89 Time: 0910

Printed Name Paul Perry Cruz

Note: EXXON ADEC USCG FOSC

[illegible] signature on [illegible] signed.

Segment
DATE 9/5/89 LA-31

Shoreline Treatment Procedures Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other None required

Exxon

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

Comments No work will be required due to amount of oiling and low tide

Signature R.C. Harrelson Date: 9/5/89 Time: 9:00

Printed Name RC HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
Ø	Heavy
60	Medium
15	Light
4	Very Light
25	None
100 %	

Subsurface Oil

- [ ] 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
	Heavy
	Medium
	Light
	Very Light
	None
100 %	

Subsurface Oil

- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep DECLINE TO SIGN form

Printed Name

FOSC rep Demobilization approved/disapproved

Comments CONDUCTED SURVY FROM AIR. AREA PROCEEDED BY

Signature Date: 9/5/89 Time: 0908

Printed Name PAUL TOKAY

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): IZMAYLOU ISLAND BLOCK

Includes Shoreline Segments: LA-32

Submitted : _____ Date: 8/16/89
(for Exxon)

ISCC Recommendation: Sharon K. Christopherson Date: 8/18/89

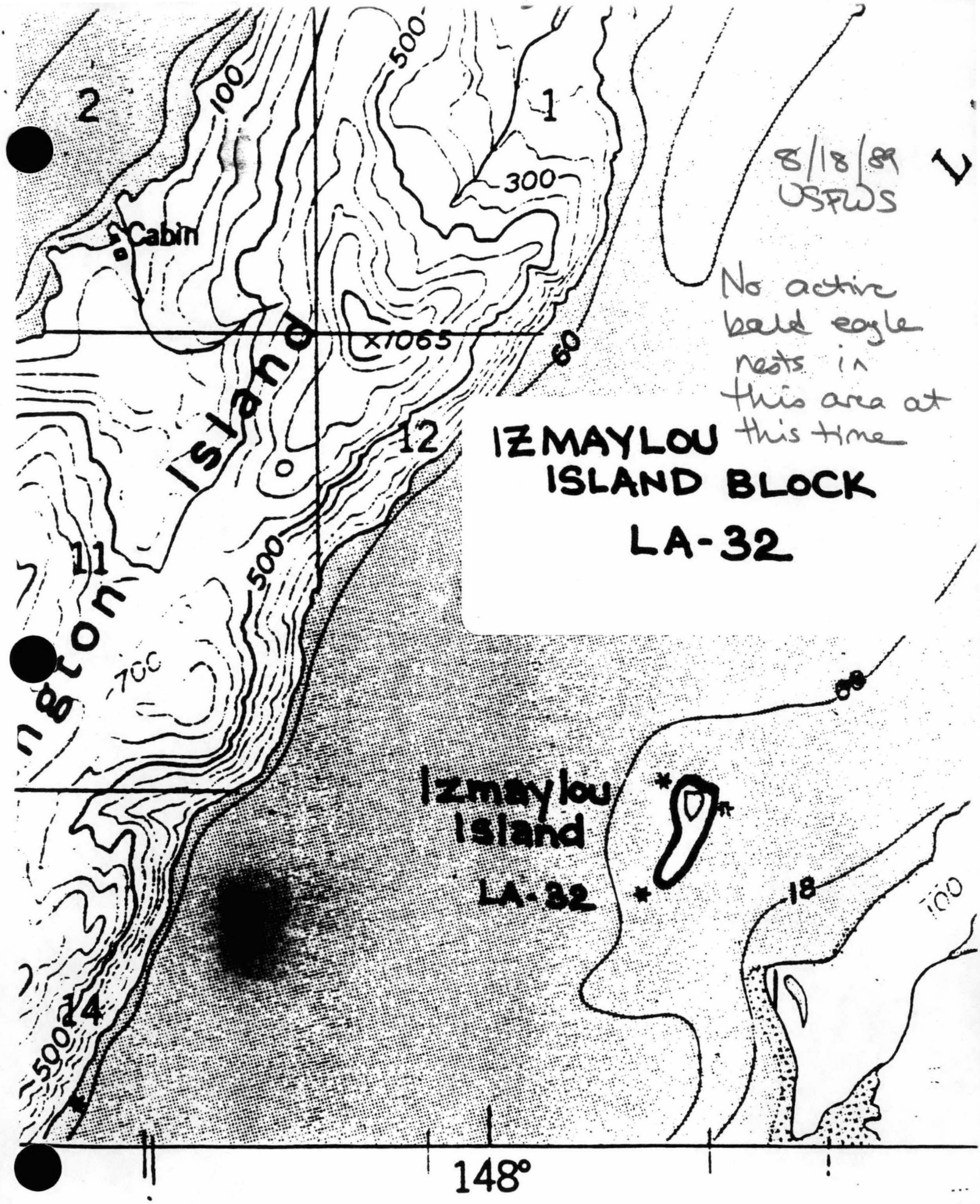
FOSC Approval: D. G. Cleaveg L Date: 8-19-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file

- SHPO
- FOSC
- CDFU
- NOAA
- EPA
- USDA (FS)
- USFW
- A.DEC
- A.FG
- A.DNR
- CAC
- PWSCA
- USFS


2
100
500
1
300
Cabin
8/18/89
USFWS
No active bald eagle nests in this area at this time
x1065
60
Island
12
IZMAYLOU
ISLAND BLOCK
LA-32
11
500
700
Izmaylou
Island
LA-32
18
100
4
500
148°

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-32

LOCATION: (see enclosed map) IZMAYLOU ISLAND-LATOUCHE PASSAGE

(IZMAYLOU ISLAND BLOCK)

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

Recommended Cleanup Activity(ies):
Flood/flushing using warm to hot (to 140^{0}F) water is recommended for the northwest end of the island only. Following this, bioremediation of the cobble/pebble beach on the northwest is recommended.

Priorities Considerations:

2B

Ecological Constraints (from site survey):
Use appropriate means to protect the lower intertidal zone during cleanup. Restrict all boat and foot traffic to the northern end of the island. Prevent foot access to mussel beds at northwest corner of island.

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

State Historic Preservation Officer * Date: 8/16/89

ISCC: Sharon K. Christopherson Date: 8/18/89

EXXON: Donald B. Tyler Date: 8.18.89

FOSC: H. E. Lyle Date: 8-18-89

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

SHORELINE OIL EVALUATION

Date: Aug 9, '89 Time: 11:30 AM Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Izmaylou Island SEGMENT NUMBER LA-32

LENGTH OF SHORELINE SEGMENT: 1000 m

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 45 % / C 25 % / P 10 % / G — % / S — % / M — % / R 20 %

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

OIL

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

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

Continuous: Y/N % of Segment 20% Width of Band: 20 m

Sporadic: Y/N % of Segment 40%

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 20 cm Max. Observed

Pooled Oil: — % "Free" Oil: 5 % Coated: H 20 % / M 30 % / L 40 %

Fresh 10 % Mousse — % Tar Formation: 90 %

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

Comments:

MAJORITY OF OIL ON IZMAYLOV ISLAND IS LOCATED ON THE NORTH WEST SHORE. AS INDICATED ON THE SKETCH MAP TAR EXTENDS THE LOWER INTERTIDAL ZONE. SOME MOBILE OIL IS STILL PRESENT IN THIS REGION. RANDOM DROPS OF TAR ARE PRESENT AROUND THE ISLAND BUT IT SEEMS TO BE OF A STABLE NATURE.

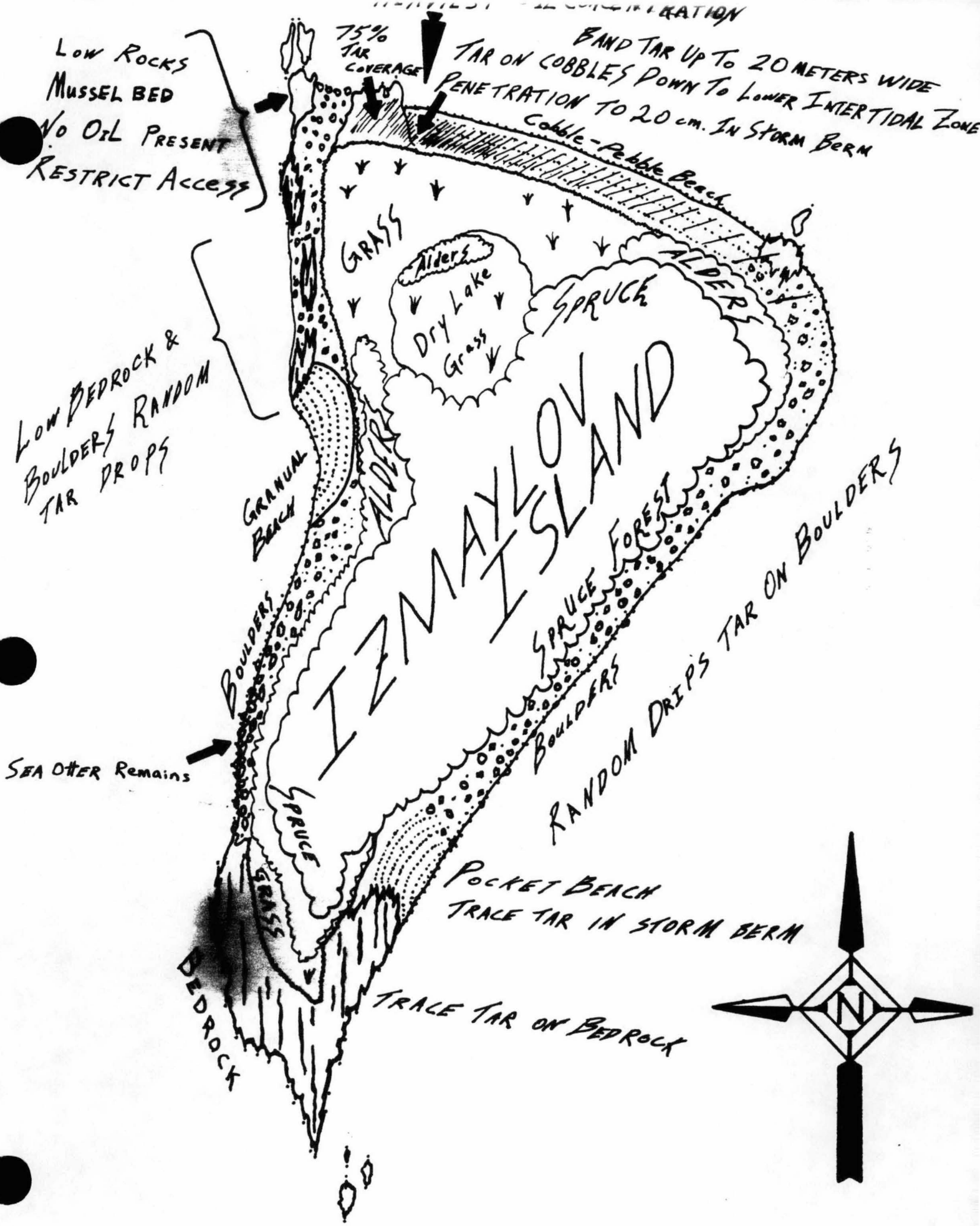
DOCUMENTATION:

Map/Aerial photo marking segment boundaries SEWARD A3 & BLYING SOUND D3

VTR: Y/N **Tape Number(s)** ——

Photography: Y/N **Roll Number(s)** T4G100

Sample Numbers Collected: ——


HEAVIEST OIL CONCENTRATION
75% TAR COVERAGE
BAND TAR UP TO 20 METERS WIDE
TAR ON COBBLES DOWN TO LOWER INTERTIDAL ZONE
PENETRATION TO 20 cm. IN STORM BERM
Cobble-Pebble Beach
LOW ROCKS
MUSSEL BED
NO OIL PRESENT
RESTRICT ACCESS
GRASS
Alders
Dry Lake
Grass
SPRUCE
ALDER
LOW BEDROCK & BOULDERS RANDOM TAR DROPS
GRANUAL BEACH
ALDER
IZMAYLOV ISLAND
SPRUCE FOREST
BOULDERS
BOULDERS
RANDOM DRIPS TAR ON BOULDERS
SEA OTTER Remains
SPRUCE
GRASS
POCKET BEACH
TRACE TAR IN STORM BERM
BEDROCK
TRACE TAR ON BEDROCK
N

ECOLOGICAL EVALUATION

LOCATION: Zapadofor Island **SITE:** _____ **OBSERVER:** Frank

LOCATION PREFIX: LA **SEG. NO.:** 32 **LENGTH:** 1600 (M)

DATE: 08/09/89 **TIME (HHMM):** 1115 **TIDE HT.:** +5 ft ~~(M)~~

OILED ZONE: Splash High Medium Low Mod cover [illegible]

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud Rock [illegible]

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Sparse [illegible] 1/2 off of 50m area on the east side. [illegible] dense concentration. Also is an area on the NW corner that [illegible]

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/
Southern end Mytilus is continuous and dense. On West and East sides it is [illegible] dense patches and on the North end it is sparse and patchy

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Moderate Sparse Y/N None Y/
Dense concentrations at the south end and east and west sides. Moderate to sparse concentrations at the north end at this tide level.

Littorina
Patchy Y/N Contin. Y/N Dense Y/N Moderate Sparse Y/N None Y/N
Southern end continuous and dense concentrated in tidepools. West side - [illegible] to sparse concentrations. North end - patchy and sparse. East side is moderate patches

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Moderate Sparse Y/N None Y/N
South end continuous and moderate becoming moderate to sparse on west side. [illegible] patchy and sparse increasing to patchy and moderate on east side

OTHER OBSERVATIONS: Chaney found dead sea otter on west side of island [illegible] to tell if oiled. Bull kelp beds. Rock terraces on the island have [illegible] tidepools which appear to be healthy at the time.

CLEANUP PRECAUTIONS: Island has several sea otters with pups. On [illegible] the otters were at the southern end of the island. Restrict cleanup activity to the northern end of the island at this time. Contact ADFG 48 hrs prior [illegible] precautions to [illegible] Lower Intertidal Zone

MAMMALS: Other [illegible] Harbor Seals 3 Sea Lions 5 Whales ___

BIRDS: Gulls, Bald Eagle, Sandpiper

GENERAL OBSERVATIONS: North end biota may be more concentrated at lower tide level. Unfortunately the lowest tide of the work [illegible] did not fully expose the lower intertidal zone on the cobble beach.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

SEWARD (A-3) QUAD

Date 8/9/89 Location IZMAYLOV ISLAND Site

Location Prefix LA- Segment # 32 Length 1000 M

Survey Method:

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

Ground ✓ (100%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source ~~AHRS~~ 14(h)(1) MAPS FILES

Oil conditions/beach visibility ZERO TO MODERATE OIL, FAIR VISIBILITY

Width of beach zone surveyed 25 M m Tree fringe surveyed 0-20 M

Cultural resources observed in beach zone (AHRS code) SHP

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile LOW GRADIENT BOULDER/COBBLE/GRAVEL/SAND BEACH

Fresh Water Sources NONE SEEN

Sea Exposure OPEN TO LATOUCHE PASSAGE

Access/Safety ACCESS OK IN CALM WEATHER ON S. SIDE

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 —

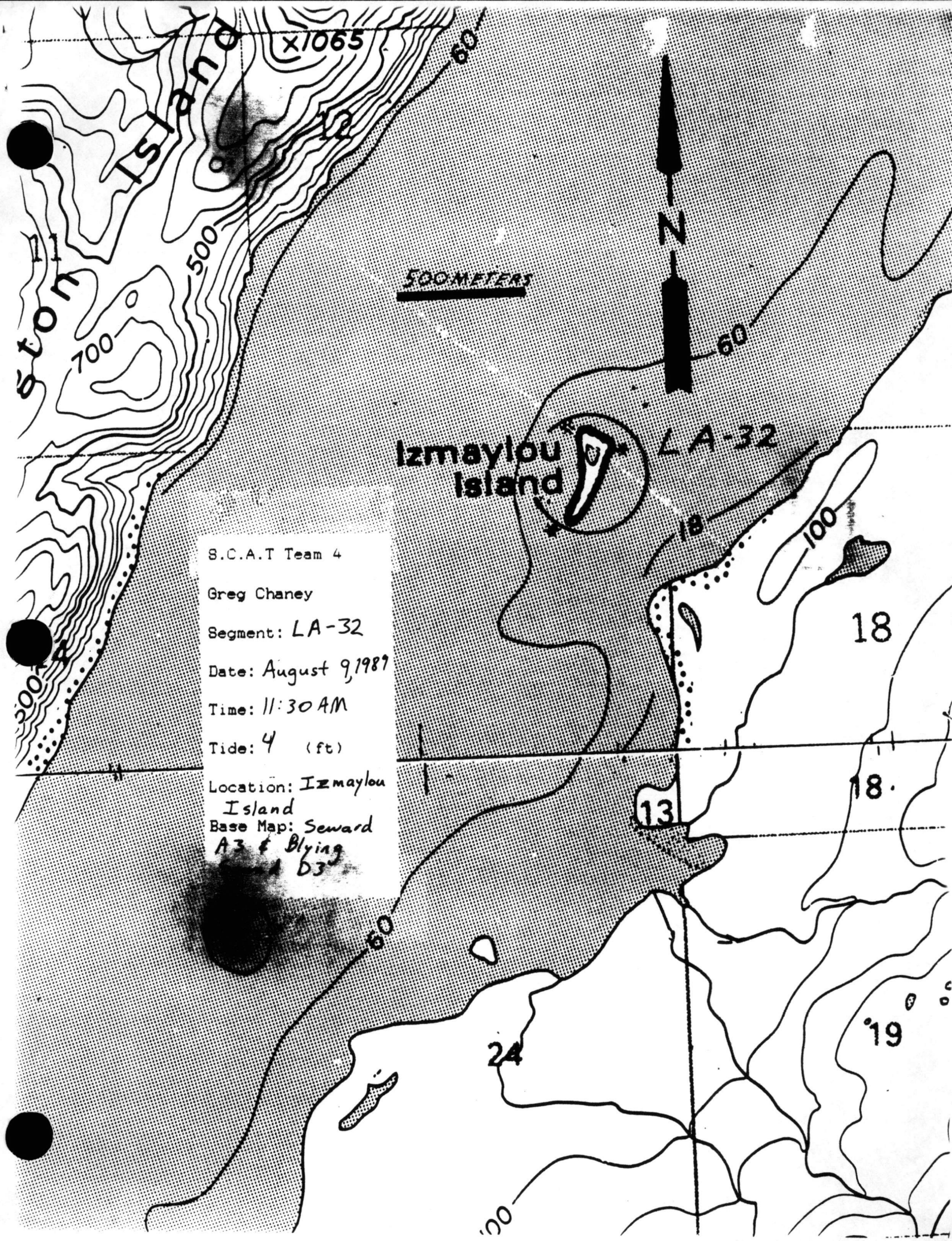
B/W Roll # PENNY-20 Frames 1-5

Observer(s) T. DUCK

Time survey started 1100 HRS Time survey ended 1235 HRS

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"



S.C.A.T Team 4

Greg Chaney

Segment: LA-32

Date: August 9, 1989

Time: 11:30 AM

Tide: 4 (ft)

Location: Izmaylou Island

Base Map: Seward A3 & Blying D3

FINAL ASSESSMENT LOG

SEGMENT LA 32 DATE 9/12/89

1. COVERAGE BY SURFACE OIL

- [X] NONE
- [ ] LIGHT (<10%)
- [ ] HEAVY (>50%)
- [ ] INTERMITTENT
- [ ] MODERATE (10-50%)

DESCRIPTION:

2. SUBSURFACE OIL DEPTH: NONE INCHES
NOTES:

3. SHEEN IN AREA? [ ] YES [X] NO
NOTE:

4. OBVIOUS DAMAGE

FLORA	[ ] YES	[X] NO
FAUNA	[ ] YES	[X] NO
ARCHAEOLOGICAL	[ ] YES	[X] NO

NOTES:

5. DEBRIS FOR PICKUP [ ] YES [X] NO
DESCRIPTION:

6. COMMENTS: SITE WAS OBSERVED APPROX. 1 HR. BEFORE HIGH TIDE.

MKC [signature]
SIGNATURE

SCOT I
POSITION

LA-32

DATE 9/6/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☐ Hot water wash
- ☐ Warm water wash
- ☐ Water deluge
- ☐ Mechanical
- ☐ Non-mechanical
- ☒ Other Hand work only

Exxon

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

Comments Manually removed debris. No significant oiling remaining

Signature R C Harrelson Date: 9/6/89 Time: 15:46

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
∅	Heavy
5	Medium
5	Light
∅	Very Light
90	None
100 %	

Subsurface Oil

☑ Yes ☐ No

COMMENT BELOW

Reassessment

☑ Yes - necessary

☐ No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
0	Heavy
5	Medium
15	Light
5	Very Light
75	None
100 %	

Subsurface Oil

☑ Yes ☐ No

COMMENT BELOW

Reassessment

☐ Yes - necessary

☐ No - not necessary unless re-oiled

ADEC rep

Comments Not enough impact to warrant mechanical treatment

Signature Dale W. Gardner Date: 9/6/89 Time: 16:20

Printed Name DALE GARDNER

FOSC rep **Demobilization approved/disapproved**

Comments No cross contamination

Signature [illegible] Cruz Date: 9/6/89 Time: 1558

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): CHICKEN ISLAND BLOCK

Includes Shoreline Segments: LA-33

Submitted : _____ Date: 8/16/89
(for Exxon)

ISCC Recommendation: Sharon K. Christopherson Date: 8/18/89

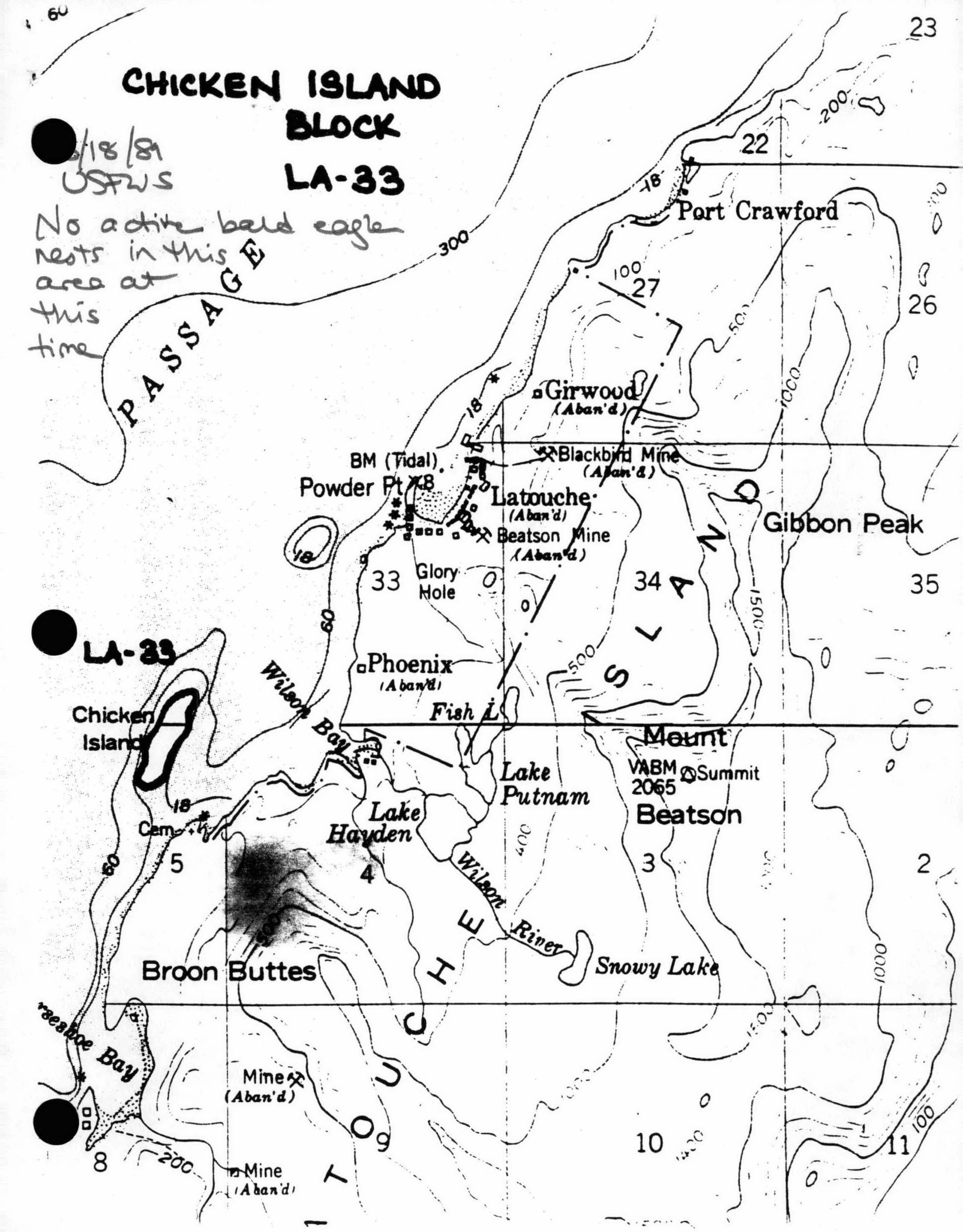
FOSC Approval: D. E. Cronican Date: 8-18-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

SHPO
FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS


CHICKEN ISLAND BLOCK
LA-33
5/18/89 USFWS
No active bald eagle nests in this area at this time
PASSAGE
Port Crawford
Girwood (Aban'd)
Blackbird Mine (Aban'd)
BM (Tidal)
Powder Pt
Latouche (Aban'd)
Beatson Mine (Aban'd)
Gibbon Peak
Glory Hole
LA-33
Phoenix (Aban'd)
Wilson Bay
Chicken Island
Fish L
Mount
VABM 2065
Summit
Lake Putnam
Beatson
Lake Hayden
Cem
Wilson River
Snowy Lake
Broon Buttes
Mine (Aban'd)
Mine (Aban'd)
LATOUCHE ISLAND

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-33

LOCATION: (see enclosed map) CHICKEN ISLAND-WEST COAST OF LATOUCHE ISLAND (CHICKEN ISLAND BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/10/89

Recommended Cleanup Activity(ies):

Warm to hot (to 140°F) flooding/flushing is recommended along the bouldery east side of this island. Manual pickup of oiled debris is also recommended.

Priorities Considerations: TIDELANDS ARE PART OF HORSESHOE BAY STATE MARINE PARK.

2B

Ecological Constraints (from site survey):

Use appropriate methods to protect the lower and middle intertidal zones. ~~A possible active Bald Eagle nest is present on this island, minimize activity in the vicinity of this nest.~~ NO NEST.

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

State Historic Preservation Officer * Date: 8/16/89

ISCC: Sharon K Christopherson Date: 8/18/89

EXXON: Daniel D Tafot Date: 8.18.89

FOSC: D.E. Cameron Date: 8-18-89

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

SHORELINE OIL EVALUATION

Date: Aug 10 89 Time: 12:30 Noon Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION CHICKEN ISLAND

LOCATION LATOUCHE PASSAGE SEGMENT NUMBER LA-33

LENGTH OF SHORELINE SEGMENT: 1580 m

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

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/MANG/VER

Wave Exposure: High/Med/Low

Sediment: B 65 % / C 5 % / P 5 % / G 5 % / S — % / M — % / R 15 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Seaweed logs.

OIL

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

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

Continuous: Y/N % of Segment 35% Width of Band: Up to 15 m

Sporadic: Y/N % of Segment 60%

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: Max Observed 25 cm

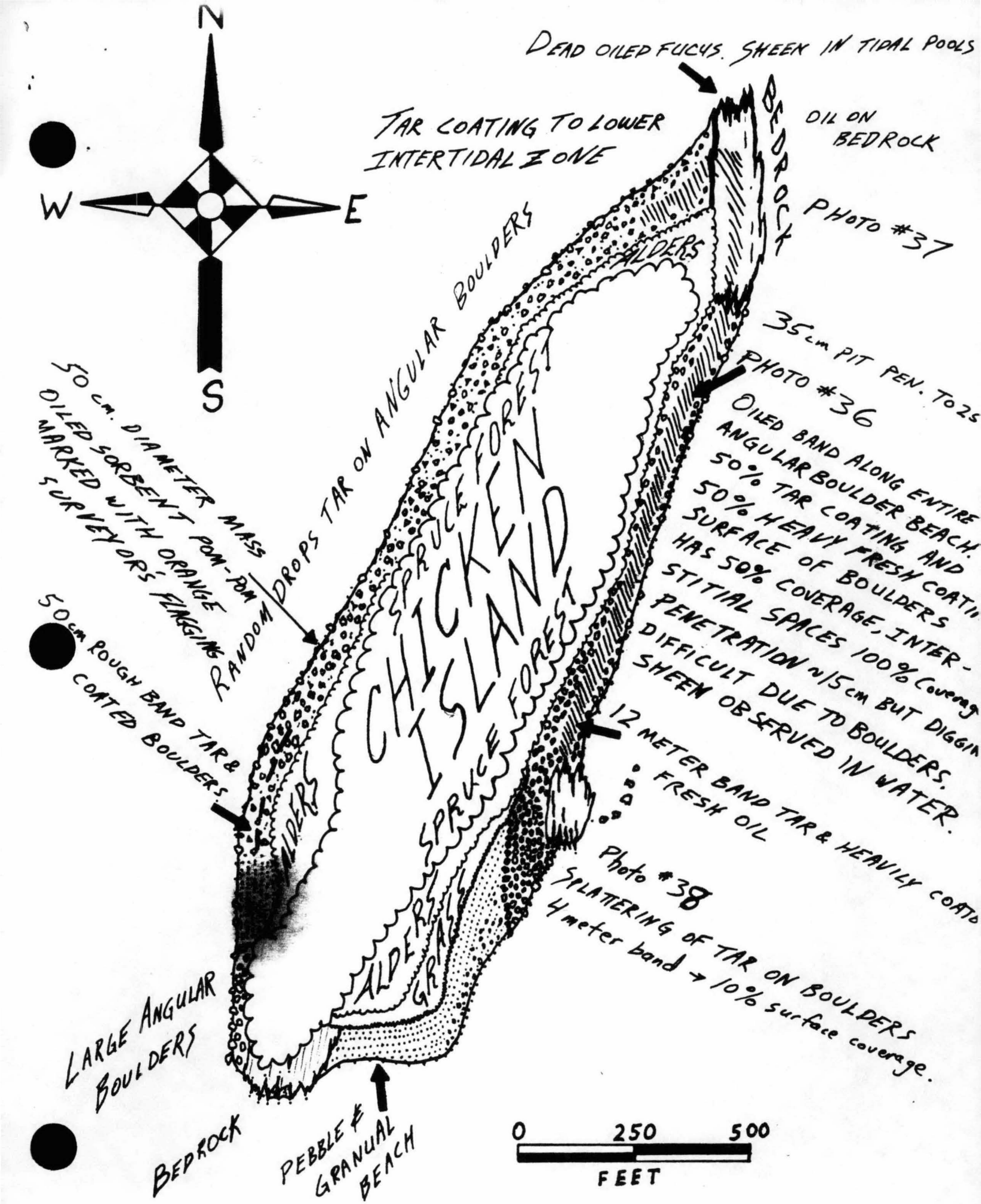
Pooled Oil: — % "Free" Oil: 5 % Coated: H 30 % / M 30 % / L 35 %

Fresh 30 % Mousse — % Tar Formation: 70 %

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

Comments:

Surface [illegible] and oiled band had ~ 50% surface coverage but fine material between the boulders had ~ 100% surface coverage. Some heavily coated areas appear to have mobile oil still present. Sheen was observed on several tide pools. Oiled sorbent pom pom was observed on the south west portion of the island. Its position was marked on the map and orange flagging was tied to adjacent alders.


N
W
E
S
DEAD OILED FUCUS. SHEEN IN TIDAL POOLS
TAR COATING TO LOWER INTERTIDAL ZONE
OIL ON BEDROCK
BEDROCK
PHOTO #37
ALDERS
35 cm PIT PEN. TO 25
PHOTO #36
OILED BAND ALONG ENTIRE ANGULAR BOULDER BEACH. 50% TAR COATING AND 50% HEAVY FRESH COATIN SURFACE OF BOULDERS HAS 50% COVERAGE, INTER-STITIAL SPACES 100% Coverag PENETRATION ~15 cm BUT DIGGIN DIFFICULT DUE TO BOULDERS. SHEEN OBSERVED IN WATER.
ANGULAR BOULDERS
RANDOM DROPS TAR ON ANGULAR BOULDERS
SPRUCE FOREST
CHICKEN ISLAND
SPRUCE FOREST
50 cm. DIAMETER MASS OILED SORBENT POM-POM MARKED WITH ORANGE SURVEYORS' FLAGGING
50 cm ROUGH BAND TAR & COATED BOULDERS
ALDERS
12 METER BAND TAR & HEAVILY COATE
FRESH OIL
Photo #38
SPLATTERING OF TAR ON BOULDERS
4 meter band → 10% surface coverage.
ALDERS
GRASS
LARGE ANGULAR BOULDERS
BEDROCK
PEBBLE & GRANUAL BEACH
0
250
500
FEET

ECOLOGICAL EVALUATION

LOCATION: Chicken Island SITE: _____ OBSERVER: Frank

LOCATION [redacted]: LA SEG. NO.: 33 LENGTH: 1580 (M)

DATE: 08 [redacted] 89 TIME (HHMM): 1230 TIDE HT.: +5 ft

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud Rock terraces, boulder/ [illegible]

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N (Moderate) Sparse Y/N None Y/N
Moderate concentrations on the west side; dense concentration around the [illegible] of the island. On NW, North end approx 20% of Fucus is oiled.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N (Moderate) Sparse Y/N None Y/
West side: sparse patches; North end: continuous with dense to moderate concentrations
East side: sparse patches; South end continuous and dense

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/
Patches of Balanus have been oiled contaminated in the high intertidal

Littorina
Patchy Y/N Contin. Y/N Dense Y/N (moderate) Sparse Y/N None Y/N
West: continuous and moderate North: dense patches associated with tidepools
East: sparse South: continuous with moderate to sparse concentrations

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N (Moderate) None Y/N
[illegible] moderate North: continuous with sparse to moderate [illegible]
East: [illegible] and dense South: continuous with moderate to [illegible]

OTHER OBSERVATIONS: Tidepool area on North end.

CLEANUP PRECAUTIONS: Possible Bald Eagle Nest contact USFG 48 hrs prior to cleanup
[illegible] methods to protect Lower Intertidal Zone

MAMMALS: O[redacted] Harbor Seals ___ Sea Lions 1 Whales ___

BIRDS: 3 Blue jays, 1 King fisher, 1 Lesser yellowlegs, 2-Immature Bald Eagles, 3 crows, 4 Gulls

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/10/89 Location CHICKEN ISLAND (SEWARD (A-3) QUAD) Site

Location Prefix LA- Segment # 33 Length 1580 m

Survey Method:

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

Ground ✓ 100% (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES (14 (4 X 1) MAPS)

Oil conditions/beach visibility ZERO TO MODERATE OILING; GOOD TO FAIR VISIBILITY.

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

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile MODERATE GRADIENT BOULDER/COBBLE BEACH

Fresh Water Sources 2 SMALL RIVULETS

Sea Exposure OPEN TO LATOUCHE PASSAGE

Access/Safety OK ACCESS IN CALM WEATHER

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

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

Photos: Color Roll # — Frames —

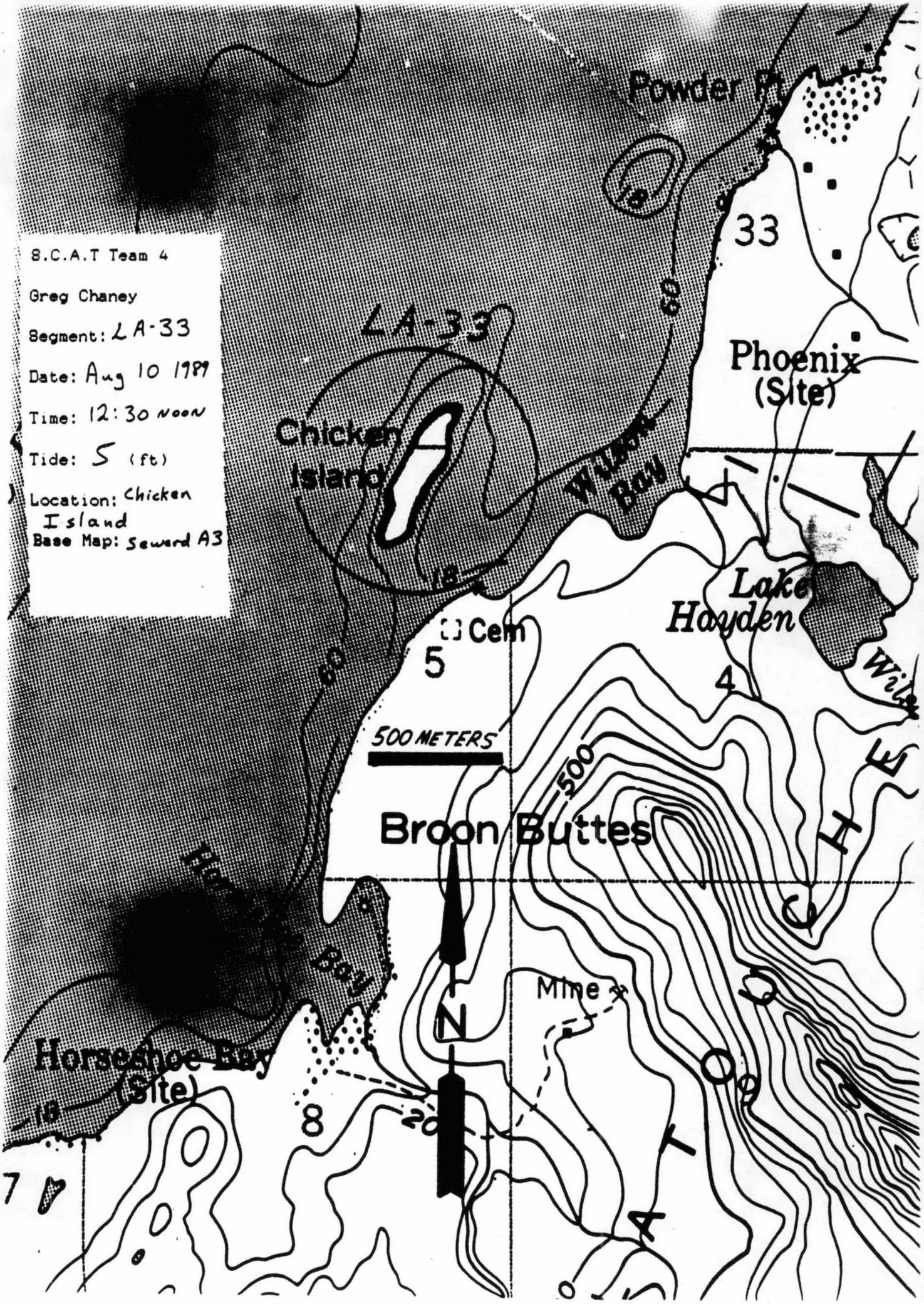
B/W Roll # PERTMY-20 Frames 6-9

Observer(s) P BUCK

Time survey started 1220 HRS Time survey ended 1420 HRS

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


S.C.A.T Team 4
Greg Chaney
Segment: LA-33
Date: Aug 10 1989
Time: 12:30 noon
Tide: 5 (ft)
Location: Chicken Island
Base Map: Seward A3
Powder Pt
33
LA-33
Chicken Island
Phoenix (Site)
Lake Hayden
Cem
5
4
500 METERS
500
Broon Buttes
Mine
N
Horseshoe Bay (Site)
8
20
18
60

LA-33

Date 9/6/89 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☐ Hot water wash
- ☐ Warm water wash
- ☐ Water deluge
- ☐ Mechanical
- ☐ Non-mechanical
- ☒ Other Hand work only

Exxon

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

Comments Manually removed debris. No significant oiling remaining

Signature R C Harrelson Date: 9/6/89 Time: 15:45

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
10	Medium
10	Light
0	Very Light
80	None
100 %	

Subsurface Oil

☑ Yes ☐ No

COMMENT BELOW

Reassessment

☑ Yes - necessary

☐ No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
0	Heavy
10	Medium
25	Light
10	Very Light
45	None
100 %	

Subsurface Oil

☑ Yes ☐ No

COMMENT BELOW

Reassessment

☑ Yes - necessary

☐ No - not necessary unless re-oiled

ADEC rep

Comments Enough oil on shore to recommend mechanical treatment. Cannot recommend demobilization.

Signature Dale W. Gardner Date: 9/6/89 Time: 16:30

Printed Name DALE GARDNER

FOSC rep **Demobilization approved/disapproved**

Comments NO GROSS CONTAMINATION

Signature [illegible] Date: 9/6/89 Time: 1620

Printed Name [illegible] PUTKEY

COPY: EXXON ADEC FOSC ISCC

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): POWDER POINT BLOCK

Includes Shoreline Segments: LA-34

Submitted : _____ Date: _____
(for Exxon)

ISCC Recommendation: Sharon K. Christopherson Date: 8/18/89

FOSC Approval: D. E. Cancoy Date: 8-18-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

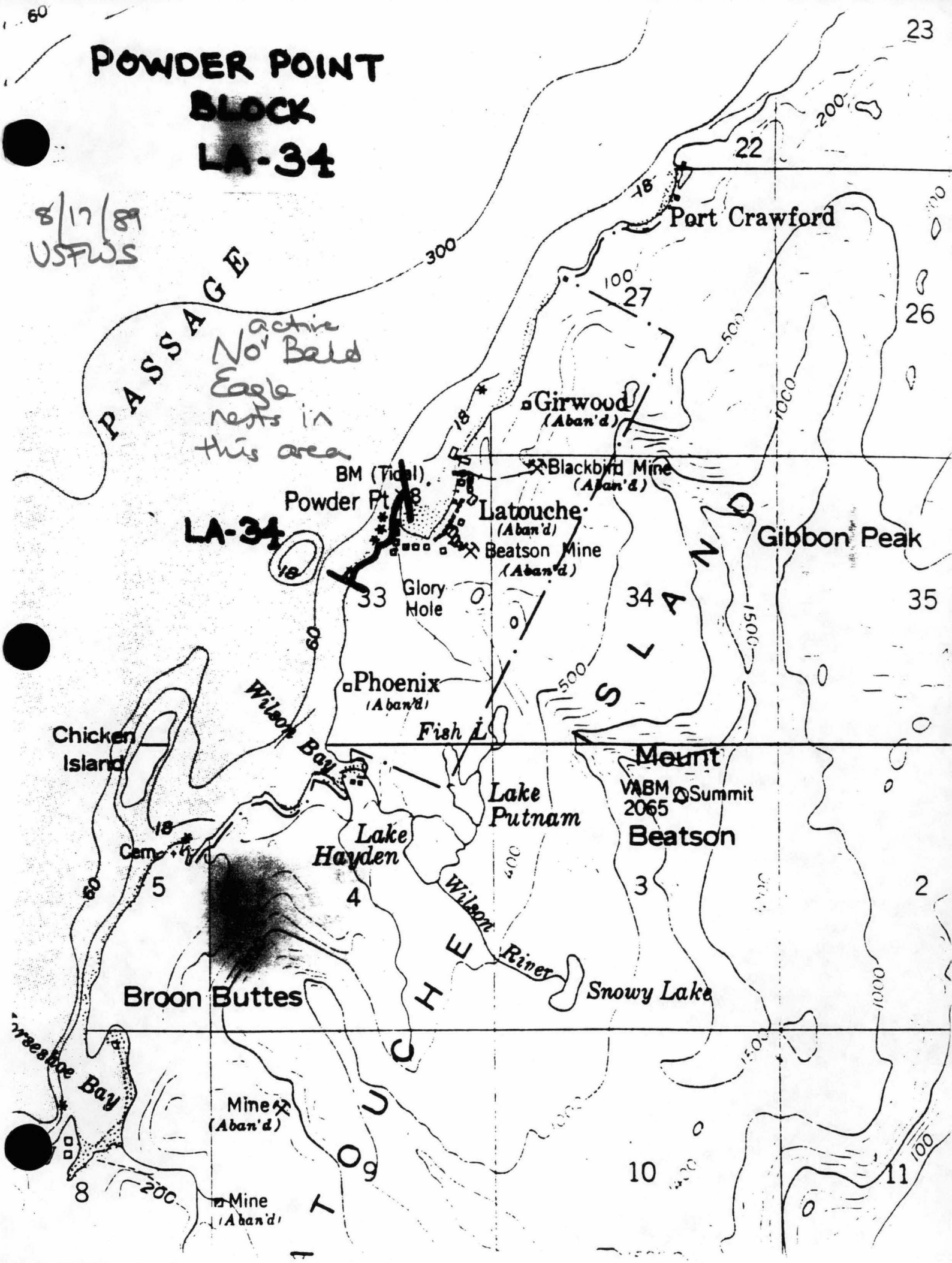
Distribution:

- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file

- SHPO
- FOSC
- CDFU
- NOAA
- EPA
- USDA (FS)
- USFW
- A.DEC
- A.FG
- A.DNR
- CAC
- PWSCA
- USFS

POWDER POINT
BLOCK
LA-34

8/17/89
USFWS



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/16/89 SHORELINE SEGMENT LA-34

LOCATION: (see enclosed map) LATOUCHE ISLAND-WESTERN SHORELINE (POWDER POINT BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/13/89

Recommended Cleanup Activity(ies):

DOT 8.18.89
SC 8/18/89

-Bioremediation of lightly oiled pebble/cobble beaches - AVOID APPLICATION OF FERTILIZER IN THE VICINITY OF THE TIDEPOOLS
-Otherwies no cleanup recommended

Priorities Considerations:

4B

Ecological Constraints (from site survey):

DOT 8.18.89
SC 8/18/89

Use appropriate means to protect the lower and middle intertidal zones. TIDEPOOLS NOTED TO BE PRESENT.

Archeological Constraints (from site survey):
No upland access. Massive metal historic features in the intertidal zone will not suffer from the proposed treatment. 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.

Robert Boszell
State Historic Preservation Officer * Date: 8/16/89

ISCC: Sharon K. Christopherson Date: 8/18/89

EXXON: Daniel R. Tapp Date: 8.18.89

FOSC: D. E. Cranwell Date: 8-18-89

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

SHORELINE OIL EVALUATION

Date: Aug 12 '89 Time: 6:30 Am Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION N.W. Latouche Island SEGMENT NUMBER LA-34

LENGTH OF SHORELINE SEGMENT: 750 m

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

on site

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 20 % / C 30 % / P 5 % / G 10 % / S 5 % / M — % / R 20 %

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

OIL

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

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

Continuous: Y/N % of Segment 5 Width of Band: ~3 m

Sporadic: Y/N % of Segment 50

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 5 cm

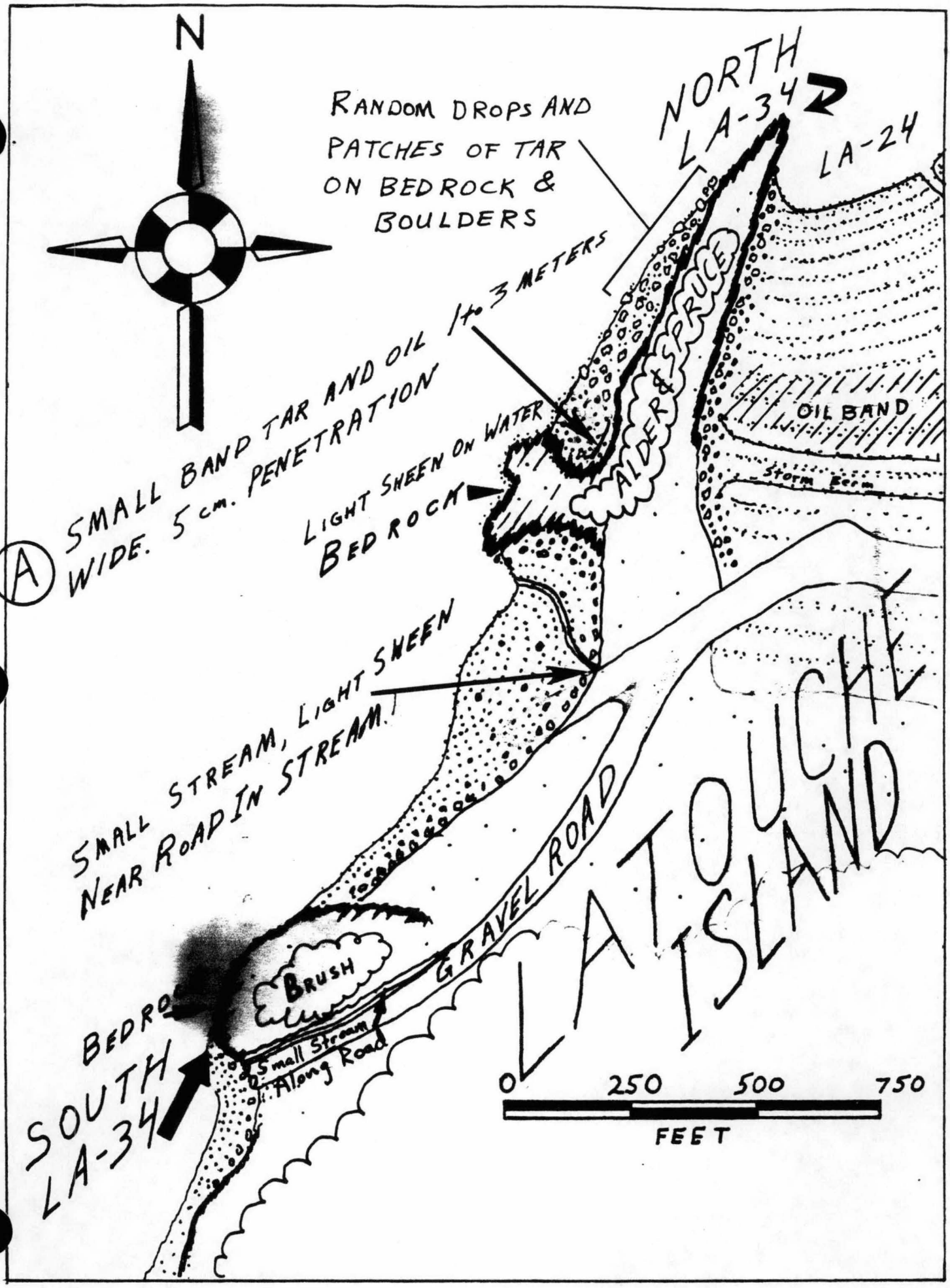
Pooled Oil: — % "Free" Oil: — % Coated: H 5 % / M 10 % / L 85 %

Fresh 5 % Mousse — % Tar Formation: 95 %

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

Comments:

Random deposits of tar were present along most of the segment. Majority of oil observed appeared stable. A small area near "A" on the sketch map did contain some fresh oil. Sheen was observed along the coast in this area but probably originated from other adjacent segments where oil was heavy. Heavy fog was present when observations were made.


N
RANDOM DROPS AND PATCHES OF TAR ON BEDROCK & BOULDERS
NORTH LA-34
LA-24
1 to 3 METERS
SMALL BAND TAR AND OIL WIDE. 5 cm. PENETRATION
A
LIGHT SHEEN ON WATER
BED ROCK
ALDER & SPRUCE
OIL BAND
Storm Berm
SMALL STREAM, LIGHT SHEEN NEAR ROAD IN STREAM.
LATOUCHE ISLAND
GRAVEL ROAD
BRUSH
BEDRO
Small Stream Along Road
SOUTH LA-34
0
250
500
750
FEET

ECOLOGICAL EVALUATION

LOCATION: LaTouche Island **SITE:** _____ **OBSERVER:** Crank

LOCATION PREFIX: LA **SEG. NO.:** 34 **LENGTH:** 750 (M)

DATE: 08/[illegible]/89 **TIME (HHMM):** 0635 **TIDE HT.:** +3 - +5 ft

OILED ZONE: Splash **High** Medium Low Small patches of stream of water

SUBSTRATUM: **Rocks** Boulder Cobble Gravel Sand Mud with Rocky Headland and outcrops Boulder/Cobble/Gravel [illegible]

LIVE BIOTA

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

Continuous dense population throughout segment. On beaches at about +2 - [illegible]

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

Moderate to dense patches - mostly intercobble

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

Littorina

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

Nucella is continuous with moderate to dense concentrations

Limpets: Patchy Y/N **Contin.** Y/N ~~Dense Y/N~~ Moderate Sparse Y/N None Y/N

Continuous population in moderate concentrations. Saw 3 species

OTHER OBSERVATIONS: Tidepools with corraline algae, urchins, anemones, sculpins, green-brown algaes. Salmon are jumping just offshore. Small stream at South [illegible] of segment. Small patches of eelgrass and kelp.

CLEANUP PRECAUTIONS: Small amount of oil. Small areas of light oil contamination. Most of biota [illegible] to be healthy. Suggest that at this time cleanup efforts would have [illegible] impact on biota than present oil. If cleaned use appropriate means to pro[illegible] and lower intertidal zones.

MAMMALS: O[illegible] **Harbor Seals** ___ **Sea Lions** 3 **Whales** ___

BIRDS: Glaucous-winged Gulls, 2 Oystercatchers, Jaeger, Belted Kingfisher, Black-footed [illegible]

GENERAL OBSERVATIONS: Segment is bounded on south and by a small stream - possible for salmon run. It forms a pond about 30 m upstream. Better spawning ground above pond than below pond.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/12/89 Location POWDER PT., LATOUCHE I. Site

Location Prefix LA- Segment # 34 Length 750 M

Survey Method:

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

Ground ✓ (100%) (G - indicate on map)

Known cultural resources (AHRS #) LATOUCHE TOWNSITE Data Source

Oil conditions/beach visibility ZERO TO LIGHT OIL, GOOD BEACH VISIBILITY

Width of beach zone surveyed 15 M m Tree fringe surveyed 10 M

Cultural resources observed in beach zone (AHRS code) HTF

Cultural resources observed in tree fringe (AHRS code) HTD

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

Shore Profile ROCKY HEADLANDS / BOULDER-COBBLE BEACHES

Fresh Water Sources SMALL STREAM (ARTIFICIALLY CHANNELIZED

Sea Exposure OPEN TO LATOUCHE PASSAGE

Access/Safety GOOD ACCESS FOR BARGES-HELO-SKIFFS.

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 —

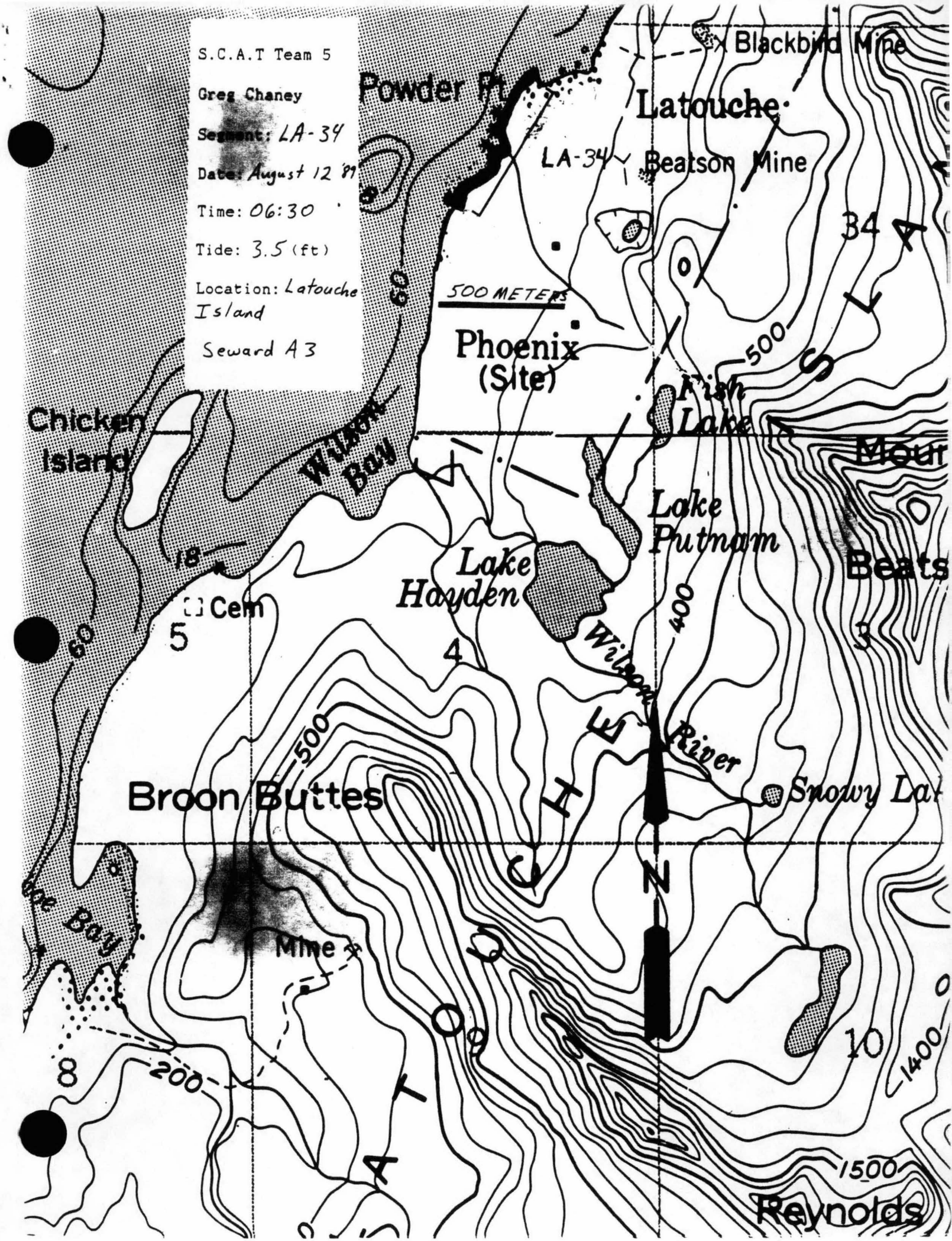
B/W Roll # PEETMY-20 Frames 10-15

Observer(s) D. BUCK

Time survey started 0635 Time survey ended 0811

Cultural resource considerations/restraints:

[redacted] TREE FRINGE SHOULD BE OFF LIMITS TO CLEANUP CREWS.


S.C.A.T Team 5
Greg Chaney
Segment: LA-34
Date: August 12 '89
Time: 06:30
Tide: 3.5 (ft)
Location: Latouche Island
Seward A3
Powder Pt
Blackbird Mine
Latouche
LA-34
Beatson Mine
34
500 METERS
Phoenix (Site)
500
Fish Lake
Chicken Island
Wilson Bay
Lake Putnam
Lake Hayden
18
Cem
5
4
3
400
Wilson River
500
Broon Buttes
Snowy Lak
Mine
8
200
10
1400
1500
Reynolds

SEP-07-1989

LA-34

9/6/89

INSPECTION REPORT

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other Hand work only

Exxon

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

Comments Manually removed debris. No significant oiling remaining

Signature R C Harrelson Date: 9/6/89 Time: 15:48

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
0	Medium
1	Light
0	Very Light
99	None
100 %	

Subsurface Oil

- [x] Yes
- [x] 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
0	Medium
5	Light
5	Very Light
90	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Not enough oil to necessitate mechanical Treatment

Signature Dale W. Gardner Date: 9/6/89 Time: 17:35

Printed Name DALE GARDNER

FOSC rep **Demobilization approved/disapproved**

Comments NO GROSS CONTAMINATION

Signature [illegible] Date: 9/6/89 Time: 17:25

Printed Name Paul Rockey Cancer

COPY: EXXON ADEC FOSC ISCC

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LATOUCHE ISLAND WEST BLOCK

Includes Shoreline Segments: LA-35, LA-36, LA-37, LA-38, LA-39

Submitted : W J Nobsamp Date: 8-22-89
(for Exxon)

ISCC Recommendation: Jacqueline Michel Date: 8/25/89

FOSC Approval: D. F. Cramy Date: 8-25-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

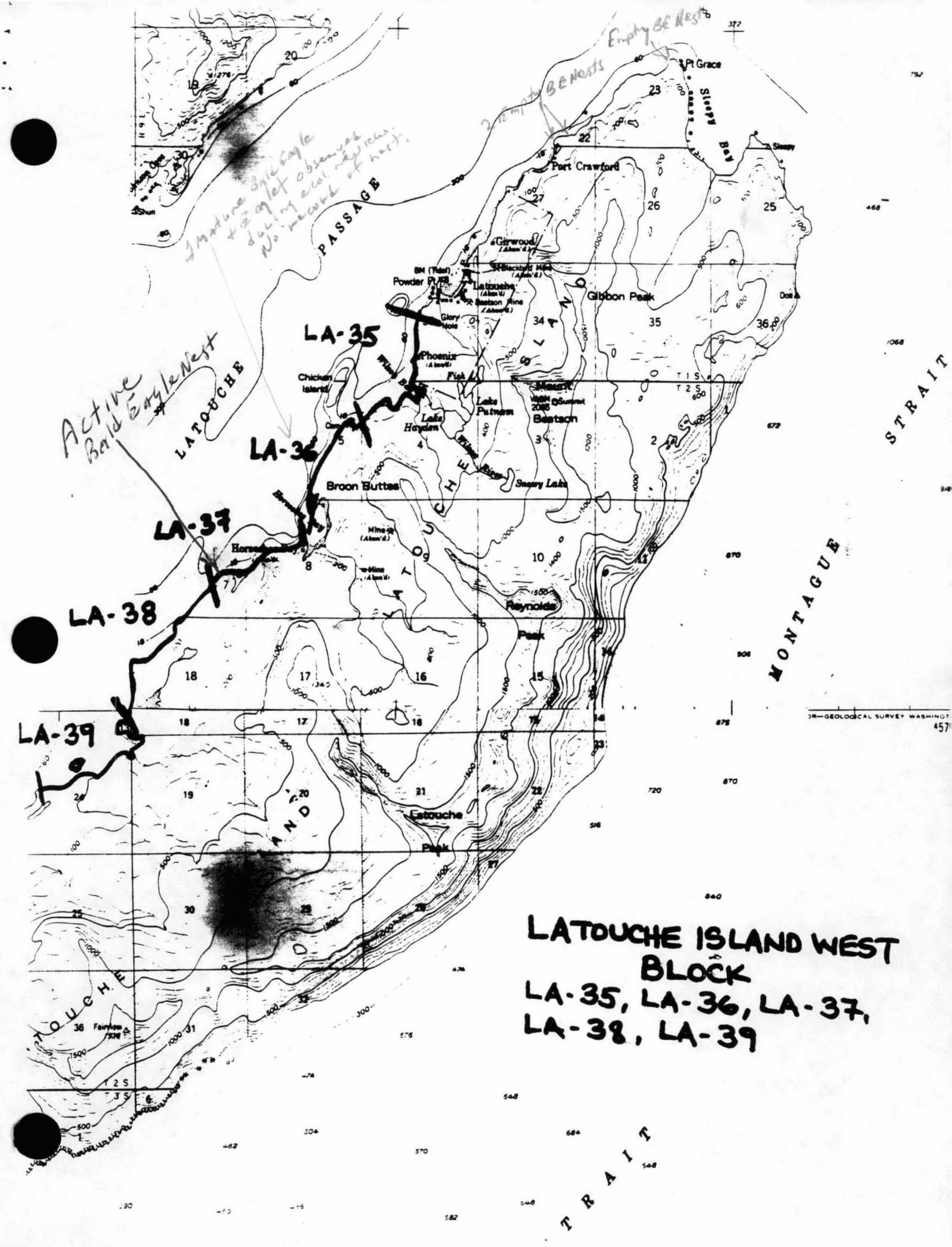
SHPO
FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS

********** SCOT NOTE **********

THERE ARE ITEMS OF GREAT CONCERN IN THIS APPROVAL BLOCK THAT AFFECT THE DEPLOYMENT OF CREWS AND EQUIPMENT.

READ THIS FIRST

ALL SHORELINE SEGMENTS WITHIN THE LATOUCHE ISLAND WEST BLOCK ARE ON LANDS OWNED BY EITHER CHUGACH ALASKA CORPORATION OR CHENEGA VILLAGE CORPORATION. PERMIT NO ACCESS TO UPLAND AREAS AT ANY TIME.


LA-35
LA-36
LA-37
LA-38
LA-39
Active Bald Eagle Nest
Empty BE Nests
2/12 empty BE Nests
Immature Bald Eagle + 2 adult observed during ecol. reviews. No record of nest.
Pt Grace
Sleepy Bay
Port Crawford
PASSAGE
Gibbon Peak
Phoenix
Chicken Island
LATOUCHE
Lake Hayden
Lake Putnam
Beatson
Broon Buttes
Sneary Lake
Reynolds Peak
Latouche Peak
MONTAGUE STRAIT
LATOUCHE ISLAND WEST BLOCK
LA-35, LA-36, LA-37, LA-38, LA-39

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-35

LOCATION: (see enclosed map) LATOUCHE ISLAND-WEST SIDE

(LATOUCHE ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/13/89

Recommended Cleanup Activity(ies):
- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use bioremediation if possible.
- Use moderate to high pressure warm to hot water washing on rocks.
- Use other approved methods as appropriate.

Priorities Considerations:
Class 4: Light oil
A: Resources present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect rich and healthy lower intertidal zone.
Two cataloged anadromous streams (#16768 & 16770) are located in this segment. Contact ADF&G and RAT forty eight hours prior to beginning cleanup activities.

Archeological Constraints (from site survey):
No bioremediation treatment in area of wooden pilings.
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: 8/22/89

ISCC: Joaquin Michel Date: 8/25/89

EXXON: Daniel D. Tufts Date: 8-25-89

FOSC: D.E. Cherry Date: 8-25-89

SHORELINE OIL EVALUATION

Date: Aug 13, 89 Time: 06:00 AM Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Wilson Bay NW Latouche Is. SEGMENT NUMBER LA-35

LENGTH OF SHORELINE SEGMENT: 2050 m

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 40 % / C 15 % / P 10 % / G 5 % / S — % / M — % / R 30 %

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

OIL

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

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

Continuous: Y/N % of Segment 5% Width of Band: 2 m

Sporadic: Y/N % of Segment 75% Max Observed

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 10 cm

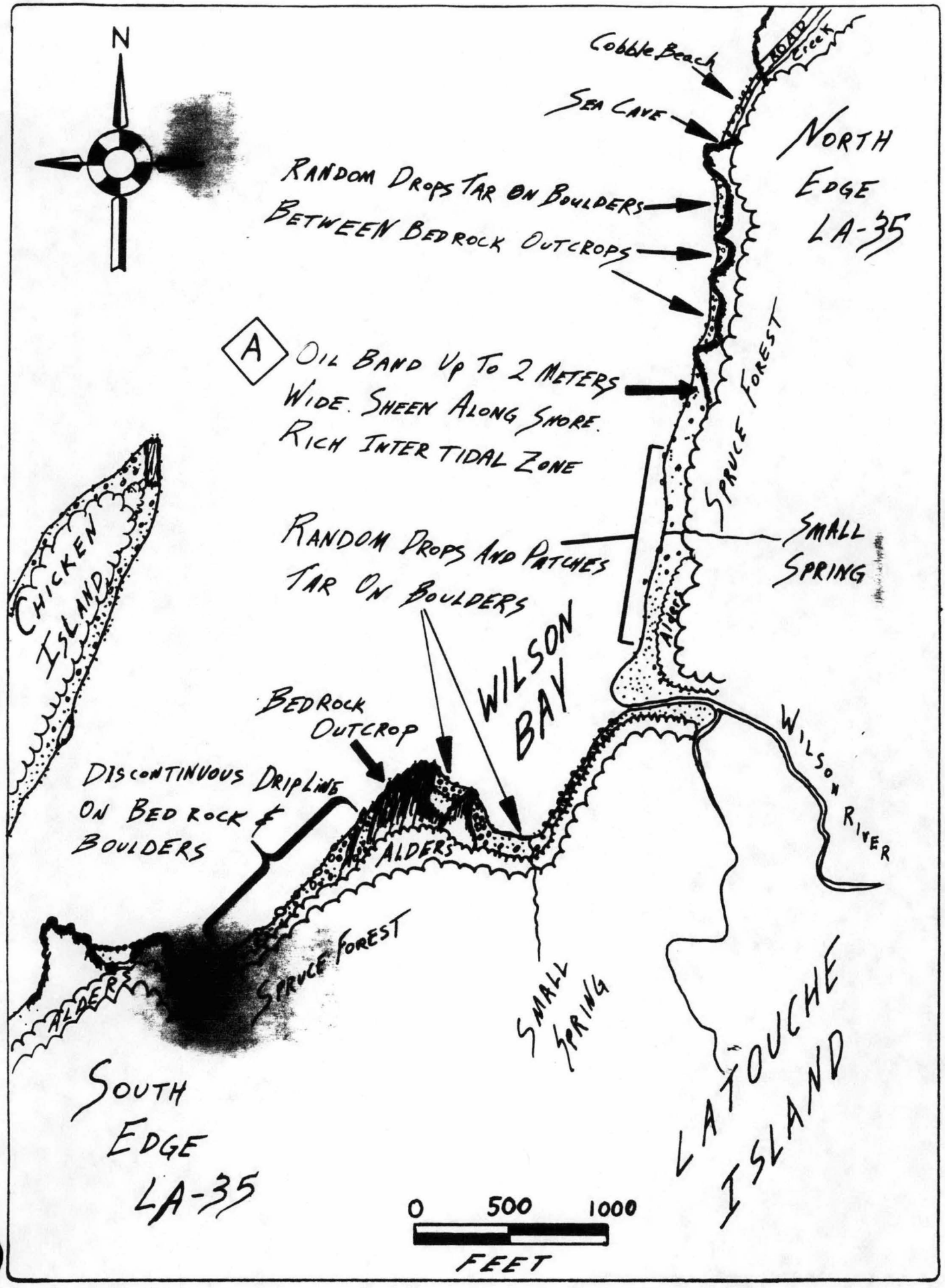
Pooled Oil: — % "Free" Oil: — % Coated: H 5 % / M 10 % / L 85 %

Fresh 5 % Mousse — % Tar Formation: 95 %

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

Comments:

Majority of segment contained traces of tar however it was mostly present in small driplines, drops and patches. It appeared to be stable. North of Wilson Bay a short, roughly defined band of oil was observed. It was approx. 2 meters wide and penetration was observed to 10cm. Sheen was observed along the beach in this area. A


N
Cobble Beach
ROAD
Creek
SEA CAVE
NORTH EDGE LA-35
RANDOM DROPS TAR ON BOULDERS BETWEEN BEDROCK OUTCROPS
A
OIL BAND UP TO 2 METERS WIDE. SHEEN ALONG SHORE. RICH INTER TIDAL ZONE
SPRUCE FOREST
SMALL SPRING
RANDOM DROPS AND PATCHES TAR ON BOULDERS
CHICKEN ISLAND
ALDERS
WILSON BAY
BEDROCK OUTCROP
DISCONTINUOUS DRIPLINE ON BEDROCK & BOULDERS
ALDERS
WILSON RIVER
SPRUCE FOREST
ALDERS
SMALL SPRING
SOUTH EDGE LA-35
LATOUCHE ISLAND
0 500 1000
FEET

ECOLOGICAL EVALUATION

LOCATION: [illegible] SITE: _____ OBSERVER: Crank

LOCATION PREFIX: LA SEG. NO.: 3[illegible] LENGTH: 2050 (M)

DATE: 08/[illegible]/89 TIME (HHMM): 0[illegible] TIDE HT.: +2 ft

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

Beach 1-2 [illegible]

Beach 3-4 [illegible] near [illegible]

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

Beach 1-2 Sparse patches, heavily predated

Beach 3-4 - Extensive intertidal beds in streams, dense on beach 3, moderate on beach 4

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

Continuous population throughout segment with dense to moderate concentrations

Littorina

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

Beach 1-2 - [illegible] to moderate concentrations on [illegible] Fucus and tidepools.

Nucella [illegible] with dense [illegible]

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

Continuous population with [illegible] to moderate concentrations

OTHER OBSERVATIONS: Salmon Stream #677 is doubled boomed with spawning [illegible]

Beach 2 has clam population dense just south of northern mine site

CLEANUP PRECAUTIONS: At this time cleanup operation [illegible] on segment biota than present oil. Suggest no cleanup. If cleaned: 1) [illegible] banks [illegible] ADFG 48 hrs prior to cleanup. 3 Avoid walking [illegible] 4) Use [illegible] means to [illegible] middle and lower intertidal [illegible]

MAMMALS: O[illegible] Harbor Seals ___ Sea Lions 4 Whales ___

BIRDS: Gulls & K. Hawks harrassing feeding sealion, a Cormorant and a crow

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/13/89 Location SEWARD (A-3) QUAD LATOUCHE ISLAND Site

Location Prefix LA- Segment # 35 Length 2050 m

Survey Method:

Air (A - indicate on map) Boat ✓ (10%) (A - indicate on map)

Ground ✓ (90%) (G - indicate on map)

Known cultural resources (AHRS #) NONE KNOWN Data Source 14(4)(1) MAP AHRS FILES

Oil conditions/beach visibility ZERO TO LIGHT OIL; GOOD BEACH VISIBILITY.

Width of beach zone surveyed 20 m Tree fringe surveyed N/O

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

Cultural resources observed in tree fringe (AHRS code) —

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

Shore Profile LOW/MODERATE GRADIENT BOULDER/COBBLE BEACH W/ROCKY HEADLANDS

Fresh Water Sources SEVERAL SMALL AND 1 LARGER (SALMON) STREAM.

Sea Exposure SOMEWHAT PROTECTED FROM LATOUCHE PASSAGE

Access/Safety GOOD ACCESS FOR LCM, SKIFF -

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 —

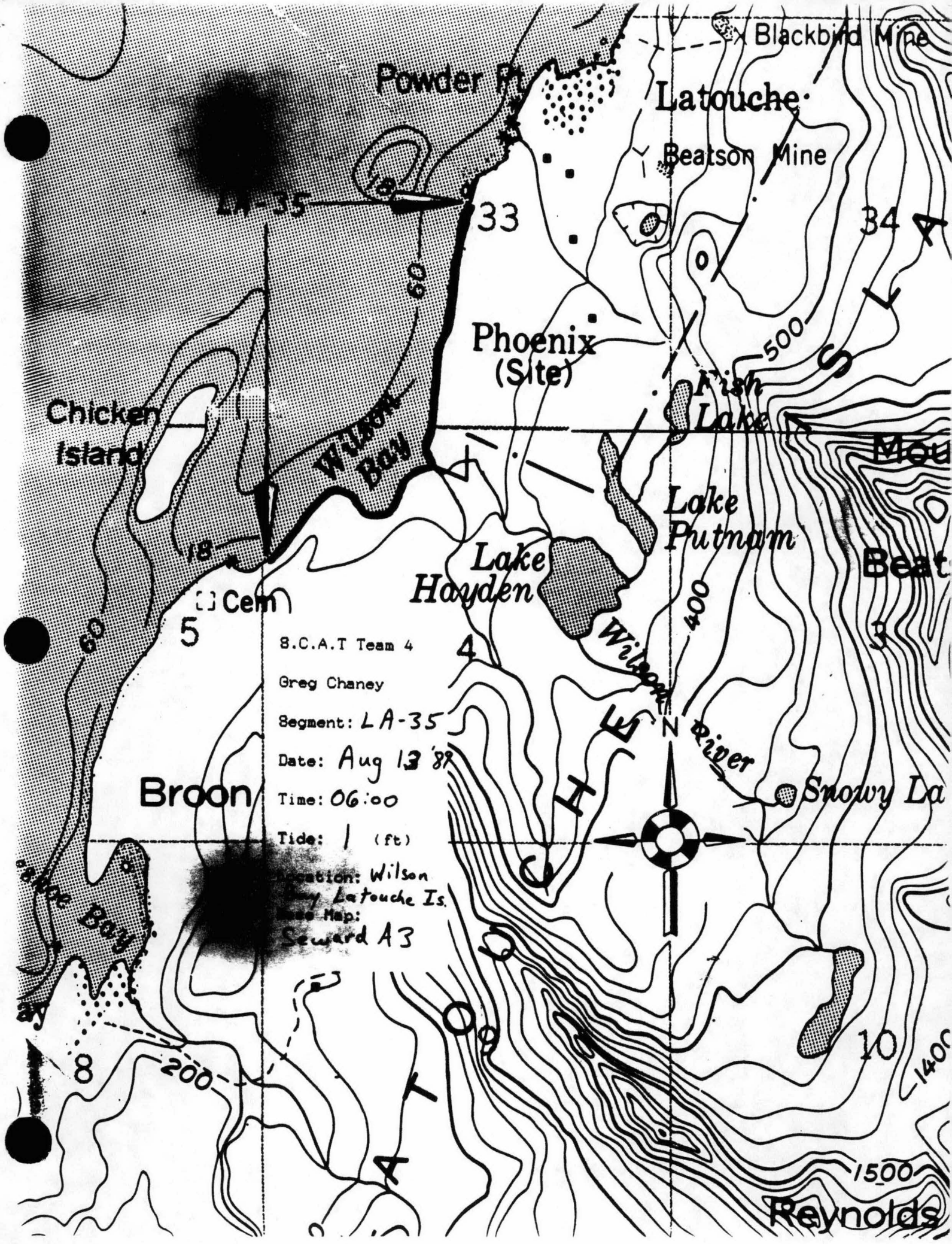
B/W Roll # PBTMY-20 Frames 16, 17

Observer(s) P. BUCK

Time survey [redacted] 0614 Time survey ended 0906

Cultural re[redacted] considerations/restraints:

"STANDARD CONSTRAINTS"


Blackbird Mine
Powder Pt
Latouche
Beatson Mine
LA-35
33
34
60
Phoenix
(Site)
500
Fish
Lake
Chicken
Island
Wilson
Bay
Lake
Putnam
18
Lake
Hayden
Cem
5
4
3
400
Wilson
River
S.C.A.T Team 4
Greg Chaney
Segment: LA-35
Date: Aug 13 '89
Time: 06:00
Tide: 1 (ft)
Location: Wilson
Bay Latouche Is.
Base Map:
Seward A3
Broon
Snowy La
Bay
8
200
10
1400
1500
Reynolds

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-36

LOCATION: (see enclosed map) LATOUCHE ISLAND-NORTH OF HORSESHOE BAY (LATOUCHE ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/14/89

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

Priorities Considerations:
Class 4: Light oil
A: Resources present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone especially in area B. POTENTIAL PINNIPED AREA. SEE ADVISORY. 8/25/89
A CATALOGUED ANADROMOUS FISH STREAM (#16764) IS LOCATED IN THIS SEGMENT. CONTACT ADF&G AND RAT 48 HOURS PRIOR TO BEGINNING CLEANUP. 8-25-89

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

State Historic Preservation Officer * Date: 8/22/89

ISCC: Jacque Michel Date: 8/25/89

EXXON: Daniel A. Tait Date: 8.25.89

FOSC: D.E. Lemay Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 14, [illegible] Time: 06:00 AM Observer: Greg Chaney

Surveyed From: [illegible]/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION NW Latouche Is SEGMENT NUMBER LA-36

LENGTH OF SHORELINE SEGMENT: 1600 m

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 50% / C 20% / P 5% / G — % / S — % / M — % / R 5%

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

OIL

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

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

Continuous: Y/N % of Segment 5 Width of Band: 4 m

Sporadic: Y/N % of Segment 80 Max Observ.

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 10 cm

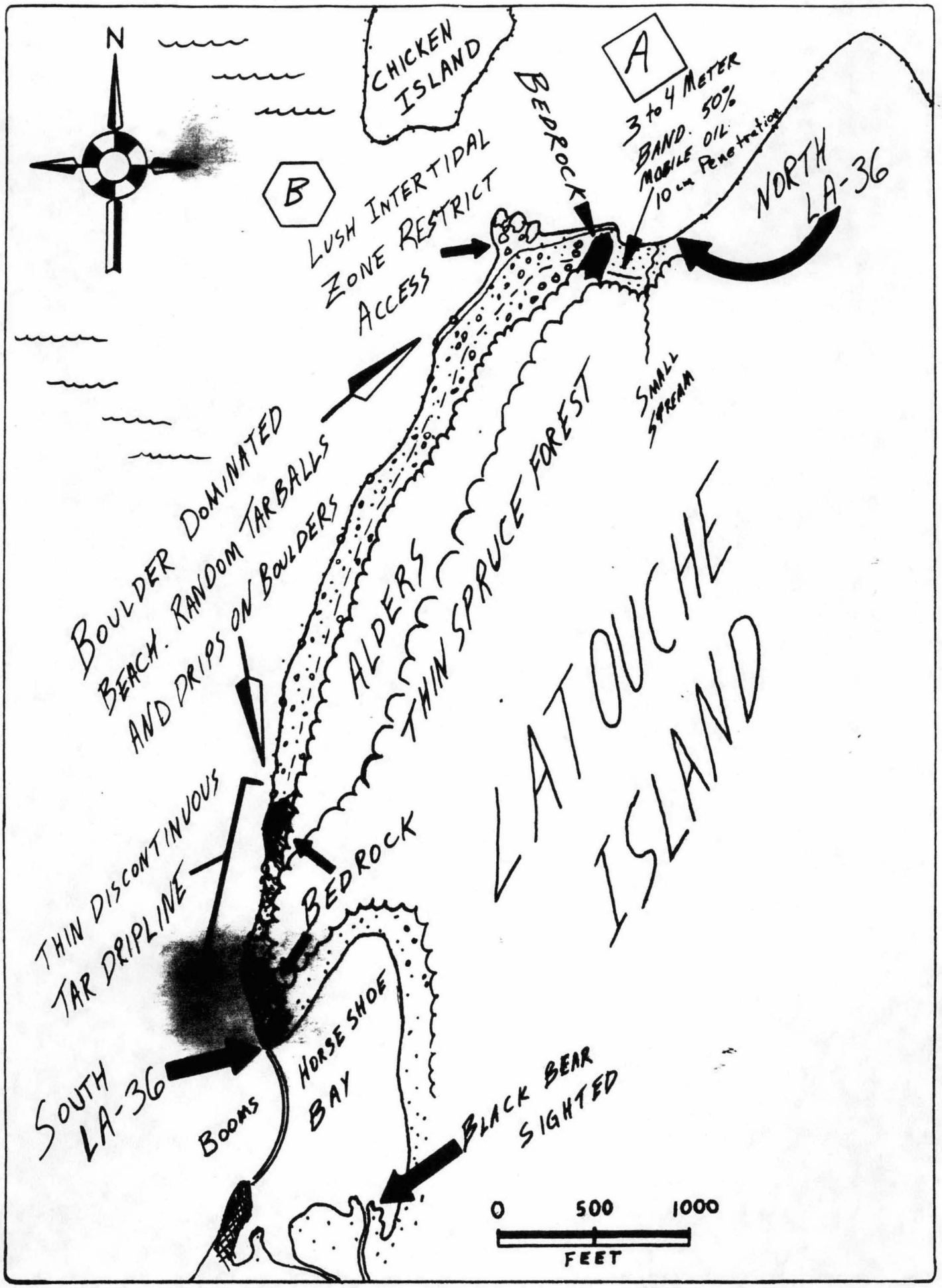
Pooled Oil: — % "Free" Oil: — % Coated: H 10% / M 20% / L 70%

Fresh 10 % Mousse — % Tar Formation: 90 %

Drift Debris [illegible] Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

At the [illegible] edge of LA-36 a small pocket beach was observed which contained a rough band of oiled cobbles and pebbles. Max penetration observed was 10 cm. Sheen was observed along the beach. South of this area most of the oil observed was in the form of a tar drip line or random small tar patches. Oil in southern region appeared mostly stable.


N
CHICKEN ISLAND
A
3 to 4 METER BAND: 50% MOBILE OIL 10 cm Penetration
BEDROCK
NORTH LA-36
B
LUSH INTERTIDAL ZONE RESTRICT ACCESS
SMALL STREAM
BOULDER DOMINATED BEACH. RANDOM TARBALLS AND DRIPS ON BOULDERS
ALDERS
THIN SPRUCE FOREST
LATOUCHE ISLAND
THIN DISCONTINUOUS TAR DRIPLINE
BEDROCK
SOUTH LA-36
BOOMS
HORSE SHOE BAY
BLACK BEAR SIGHTED
0 500 1000
FEET

ECOLOGICAL EVALUATION

LOCATION: [illegible] **SITE:** _____ **OBSERVER:** Crank

LOCATION PREFIX: LA **SEG. NO.:** 34 **LENGTH:** 1600 (M)

DATE: 08 / [illegible] 89 **TIME (HHMM):** 0625 **TIDE HT.:** 0'

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 Moderate Sparse Y/N None Y/

Not [illegible] on beach 1. Sparse on beach 2.
Dense number of broken and empty mussel shells

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

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

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

OTHER OBSERVATIONS: Otter-dug feeding holes, LaTouche; Chiton found [illegible] at minus tides at [illegible] Beach 1.

CLEANUP PRECAUTIONS: Beach 1: Use appropriate means to [illegible] Beach 2: If cleanup cannot be perform at +5 feet or higher [illegible] level on [illegible] suggest no cleanup as cleanup efforts will have a greater impact on [illegible] biota in this segment than the present oil.

MAMMALS: O[illegible] **Harbor Seals** — **Sea Lions** 12 **Whales** —
2 Black bear

BIRDS: Mew Gull, Glacous Winged Gulls, Kittiwakes, ≈30 Crows, Marbled Murre
1 mature Bald Eagle, 1 eaglet

GENERAL OBSERVATIONS: Beach 2 is a rich fauna and flora area including anemones, Nudibranchs, anemones, four species of clams urchins leather, common and sun sea stars, Chitons, single-shell oysters, corralline algae, Ulva, Alaria, Halosaccion, Porphyra, bladed reds and filamentous green algae.

Two black bears at salmon stream #675. Did not sarrey behind the double boom so as to not disturb the bears.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

SEWARD (A-3) QUAD

Date 8/14/89 Location W. SIDE LATOUCHE ISLAND Site

Location Prefix LA- Segment # 36 Length 1600 m

Survey Method:

Air (A - indicate on map) Boat ✓ (20%) (A - indicate on map

Ground ✓ (80%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES 14(4)(1) MAPS

Oil conditions/beach visibility LIGHT OILING, GOOD BEACH VISIBILITY

Width of beach zone surveyed 15 m Tree fringe surveyed 10 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

General observations justifying survey method and segment's site probability

Shore Profile LOW GRADIENT COBBLE/PEBBLE BEACH WITH ROCKY MOUNTAIN

Fresh Water Sources SMALL STREAM AT NORTHERN BOUNDARY OF LA-36

Sea Exposure SOME PROTECTED BY CHICKEN I., OPEN TO NORTHERLY WINDS.

Access/Safety ACCESS GOOD FOR LCM, BARGE, SKIFF.

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 —

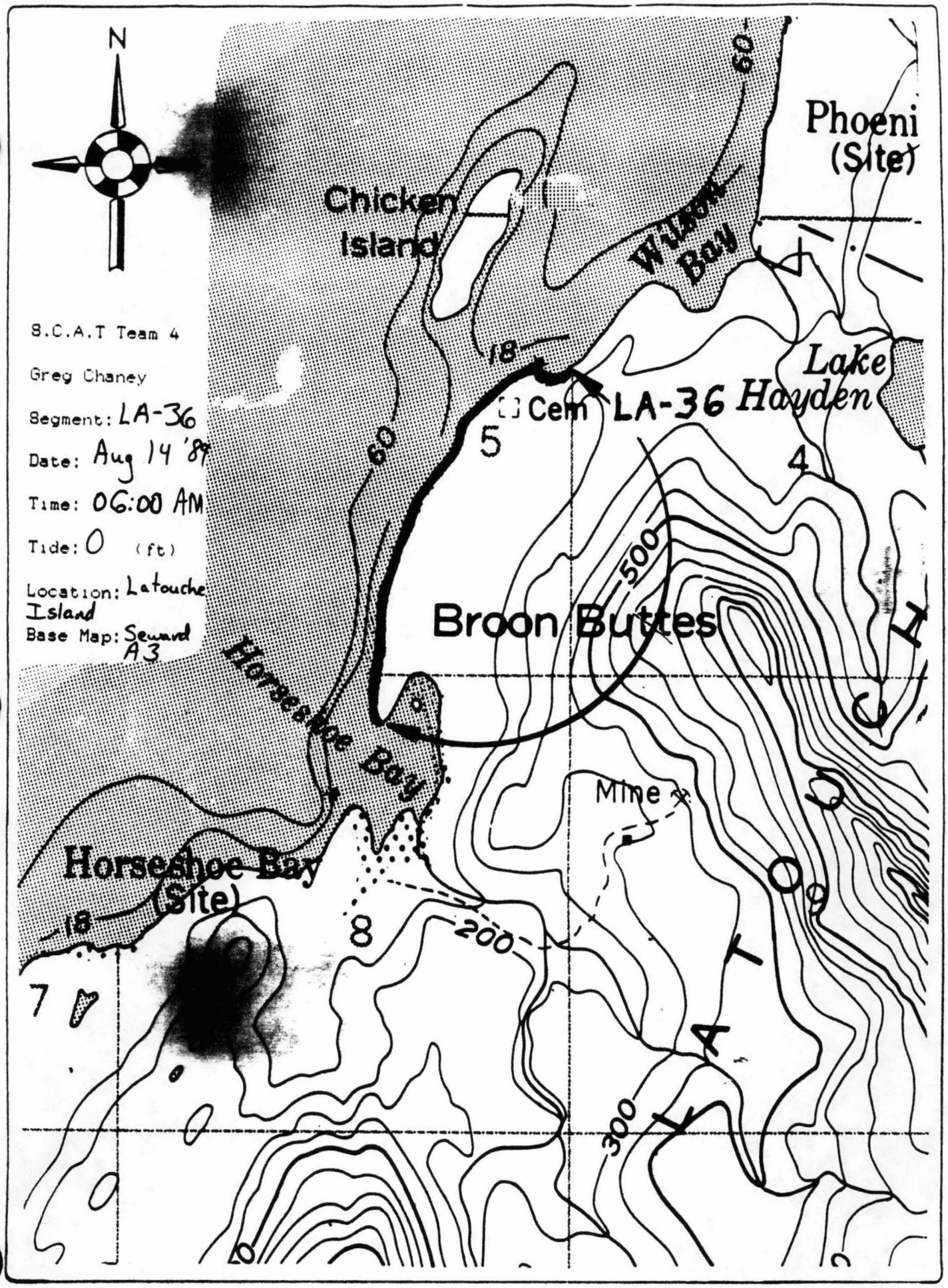
B/W Roll # PEBTMY 20 Frames 18, 19

Observer(s) R BUCK

Time survey started 0615 Time survey ended 0800 HRS

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


N
S.C.A.T Team 4
Greg Chaney
Segment: LA-36
Date: Aug 14 '89
Time: 06:00 AM
Tide: 0 (ft)
Location: Latouche Island
Base Map: Seward A3
Chicken Island
Wilson Bay
Phoeni (Site)
Lake Hayden
Cem
LA-36
Broon Buttes
Horseshoe Bay
Horseshoe Bay (Site)
Mine
LATOUCHE
60
18
500
200
300
5
4
8
7

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-37

LOCATION: (see enclosed map) LATOUCHE ISLAND-SOUTH OF HORSESHOE BAY (LATOUCHE ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/14/89

Recommended Cleanup Activity(ies):
- Manually remove pooled oil.
- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use bioremediation if possible.
- Use moderate to high pressure warm to hot water washing on rock.
- Use other approved methods as appropriate.

Priorities Considerations:
Class 2: Heavy oil
A: Resources present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone. An active bald eagle nest is located in this segment, see advisory, IF NEST STILL ACTIVE. POTENTIAL PINNIPED AREA, SEE ADVISORY. JM 8/25/89 8.25.89

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

State Historic Preservation Officer * Date: 8/22/89

ISCC: Miguel Michel Date: 8/25/89

EXXON: Daniel L. Tufts Date: 8.25.89

FOSC: N.E. Cramer Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 14 89 Time: 09:00 AM Observer: GREG Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Latouche Is, South of Horseshoe Bay SEGMENT NUMBER LA-37

LENGTH OF SHORELINE SEGMENT: 1500 m

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 35% / C 20% / P 20% / G 5% / S 5% / M — % / R 20%

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

OIL

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

Area of Beach Impact: SU / SP / H / M / L Max. Obs.

Continuous: Y/N % of Segment 50% Width of Band: 13 m

Sporadic: Y/N % of Segment 30% Max. Observed.

Est. Oil Thickness where > 1cm: Max. Obs 5 cm Est. Oil Penetration: 35 cm

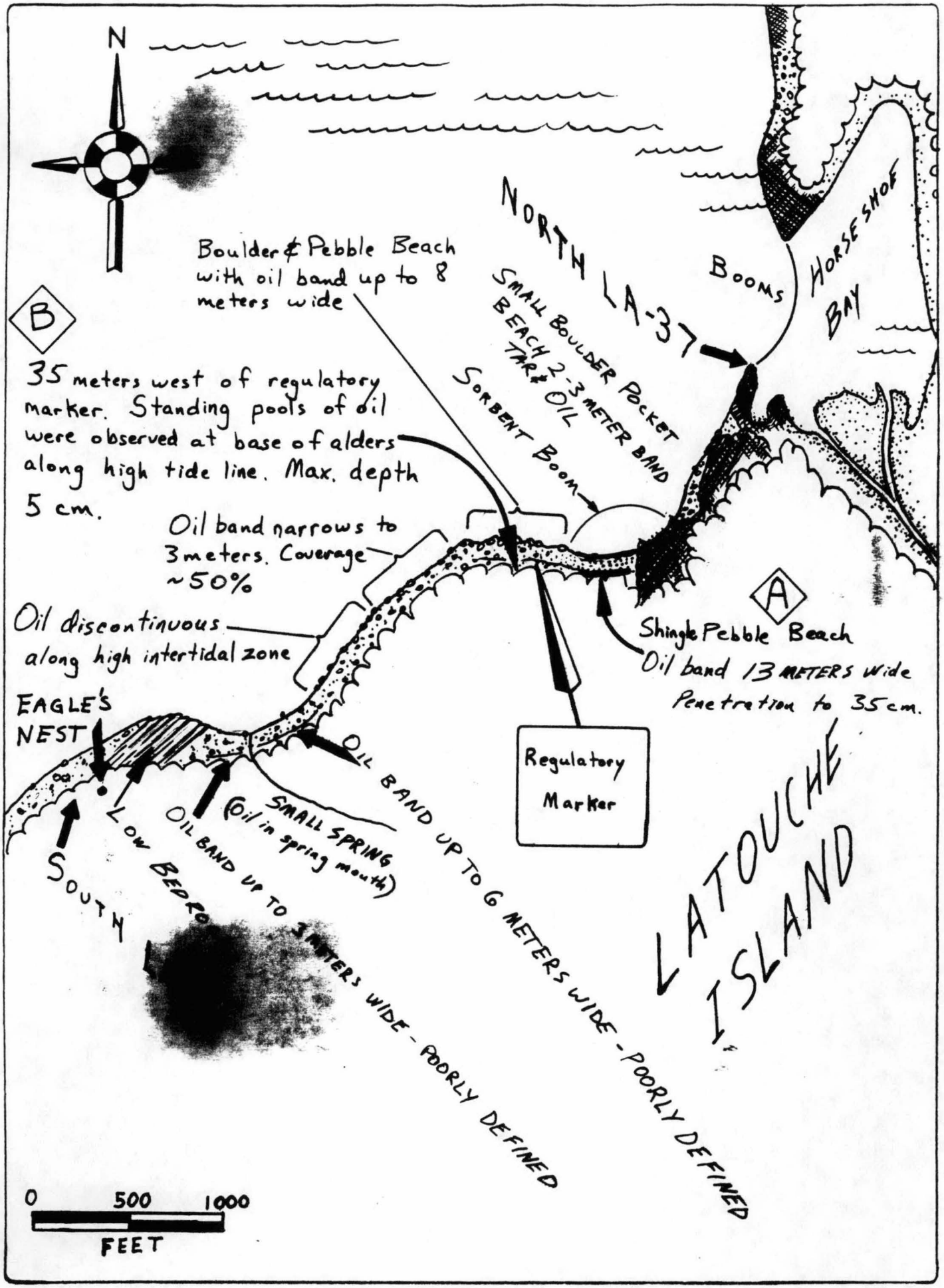
Pooled Oil: 1 % "Free" Oil: 5 % Coated: H 30% / M 34% / L 30%

Fresh 20 % Mousse — % Tar Formation: 80 %

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

Comments:

Heaviest concentration of oil was observed at location A. Up to 13 meters wide and penetration to 35cm. Standing oil in pools up to 5 cm. deep ~~was~~ were observed at location B. Concentration of oil generally decreased toward southern edge of segment. Sorbent boom was in place offshore location A. Unable to investigate Horseshoe Bay due to bear sighting.


N
NORTH LA-37
Boulder & Pebble Beach with oil band up to 8 meters wide
B
35 meters west of regulatory marker. Standing pools of oil were observed at base of alders along high tide line. Max. depth 5 cm.
SMALL BOULDER POCKET BEACH 2-3 METER BAND TAR & OIL
SORBENT BOOM
BOOMS
HORSESHOE BAY
Oil band narrows to 3 meters. Coverage ~50%
Oil discontinuous along high intertidal zone
A
Shingle Pebble Beach
Oil band 13 METERS wide
Penetration to 35 cm.
EAGLE'S NEST
OIL BAND UP TO 6 METERS WIDE - POORLY DEFINED
Regulatory Marker
SMALL SPRING (Oil in spring mouth)
OIL BAND UP TO 3 METERS WIDE - POORLY DEFINED
LOW BEDRO
SOUTH
LATOUCHE ISLAND
0 500 1000
FEET

ECOLOGICAL EVALUATION

LOCATION: LaTouche Island SITE: _____ OBSERVER: Frank

LOCATION [redacted]: LA SEG. NO.: 37 LENGTH: 1500 (M)

DATE: 08/[redacted]/89 TIME (HHMM): [redacted] TIDE HT.: +1'

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

Beach 1: [illegible]
Beach 2: sparse patches [illegible] with dense to mod concentrations
Cove: dense patches

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

Beach 1: Sparse patches Beach 2: [illegible] and moderate
Cove: continuous and dense

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

Continuous population throughout segment with dense to moderate concentrat

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

Beach 1: continuous with sparse to moderate concentrations Beach 2: sparse
Cove: continuous and dense

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

Beach 1: continuous and dense Beach 2: continuous with moderate to dense concentrat
Cove: Dense and continuous

OTHER OBSERVATIONS: Kelp (Laminaria) Bed next to vertical [illegible]
Regulatory markers, 2ñ cove, clams are dense and continuous

Provided map to USFS, NOAA, Exxon

CLEANUP PRECAUTIONS: (1) Eagle nest with one confirmed eaglet and a possible 2nd [illegible],
Contact ADFG [redacted] prior to clean up. (2) Avoid stream banks (3) Use appropriate means
to protect the [illegible] intertidal zone

MAMMALS: O[redacted] 2 Harbor Seals 4 Sea Lions 2 Whales _____

BIRDS: 2-Least Sandpipers, 1-Crow, 3-Marbled Murrelet, 3-Blue Jays, 2-P[illegible]
3-Oystercatchers

GENERAL OBSERVATIONS: Small intertidal stream in the cove.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

SEWARD (A-3) QUAD

Date 8/14/89 Location W. SIDE LATOUCHE ISLAND Site

Location Prefix LA- Segment # 37 Length 1500 m

Survey Method:

Air (A - indicate on map) Boat ✓ (50%) (A - indicate on map)

Ground ✓ (50%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source 14(h)(1) MAPS AHRS FILES

Oil conditions/beach visibility LIGHT TO HEAVY OIL; FAIR BEACH VISIBILITY

Width of beach zone surveyed 15-30 m Tree fringe surveyed 10 m

Cultural resources observed in beach zone (AHRS code) HTI

Cultural resources observed in tree fringe (AHRS code) CUT STUMPS (3)

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

Shore Profile LOW TO STEEP GRADIENT BOULDER/COBBLE/GRAVEL BEACH W/ ROCKY PEARS

Fresh Water Sources SEVERAL SMALL STREAMS AND A LARGER STREAM AT BEACH E3

Sea Exposure OPEN TO LATOUCHE PASSAGE FROM THE NORTH.

Access/Safety GOOD ACCESS FOR LCM, BARGE, SKIFF

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 —

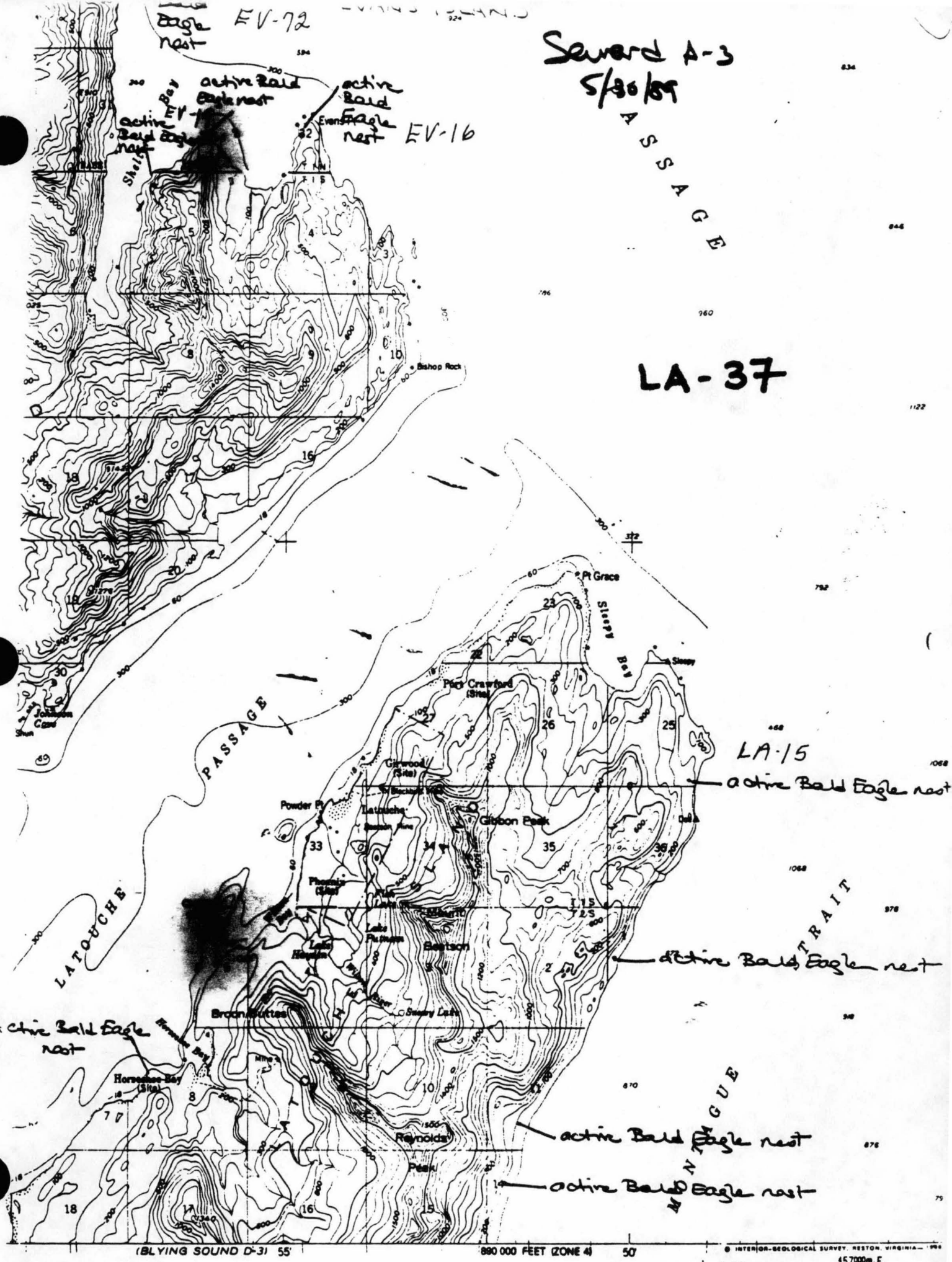
B/W Roll # PESTMY 20 Frames 20-23

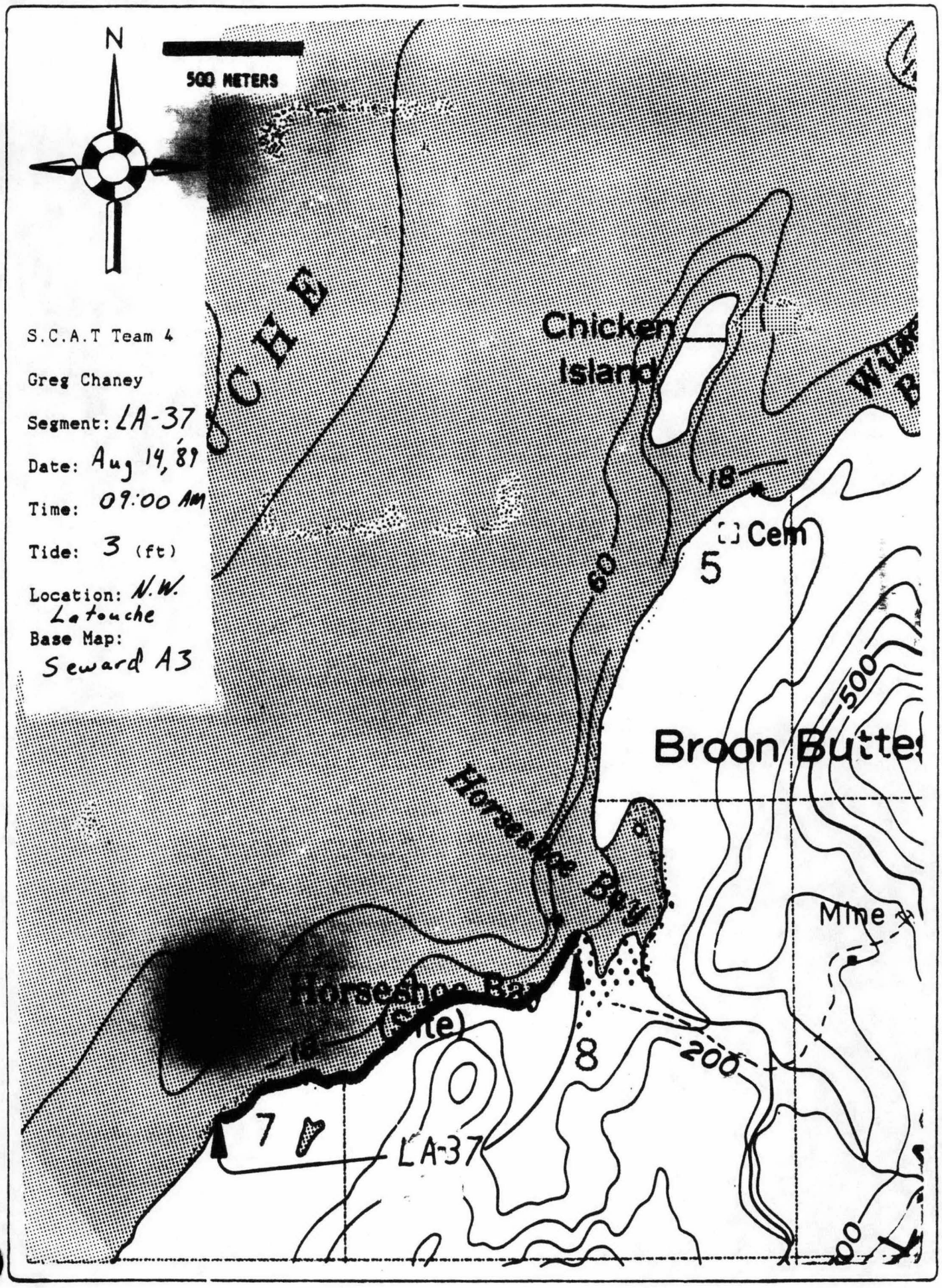
Observer(s) [redacted]

Time survey [redacted] 0816 ARS Time survey ended 0926 ARS.

Cultural re[redacted]considerations/restraints:

"STANDARD CONSTRAINTS"


Eagle nest
EV-72
Seward A-3
5/30/89
active Bald Eagle nest
active Bald Eagle nest
EV-16
active Bald Eagle nest
Evans Island
PASSAGE
Bishop Rock
LA-37
Pt Grace
Sleepy Bay
Sleepy
Pat Crawford (Site)
Johnson Cove
PASSAGE
LA-15
active Bald Eagle nest
Girwood (Site)
Powder Pt
Latouche
Gibbon Peak
Phoenix (Site)
Lake Putnam
Lake Hayden
Beatson
active Bald Eagle nest
LATOUCHE
TRAIT
Broken Buttes
Sleepy Lake
Active Bald Eagle nest
Horseshoe Bay
Horseshoe Bay (Site)
Reynolds Peak
active Bald Eagle nest
active Bald Eagle nest
MINGUE
(BLYING SOUND D-3) 55'
890 000 FEET (ZONE 4)
50'
457000m. E.
LATOUCHE ISLAND


N
500 METERS
S.C.A.T Team 4
Greg Chaney
Segment: LA-37
Date: Aug 14, 89
Time: 09:00 AM
Tide: 3 (ft)
Location: N.W. Latouche
Base Map: Seward A3
Chicken Island
Cem
5
60
18
500
Broon Butte
Horseshoe Bay
Mine
Horseshoe Bay (Site)
8
200
7
LA-37

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-38

LOCATION: (see enclosed map) LATOUCHE ISLAND-WEST SIDE

(LATOUCHE ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/14/89

Recommended Cleanup Activity(ies):
- Manually remove contaminated drift material (fucus).
- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use bioremediation if possible.
- Use moderate to high pressure warm to hot water washing on rock.
- Use other approved methods as appropriate.

Priorities Considerations:
Class 4: Light oil
A: Resources Present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect rich and healthy lower intertidal zone.

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

State Historic Preservation Officer * Date: 8/22/89

ISCC: Date: 8/25/89

EXXON: Date: 8.25.89

FOSC: Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 14 [illegible] Time: 17:00 Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION W. LATOUCHE ISLAND SEGMENT NUMBER LA-38

LENGTH OF SHORELINE SEGMENT: 2500 m

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 50 % / C 10 % / P 15 % / G 15 % / S 10 % / M — % / R — %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs 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 10 Width of Band: Max Observed 3 m

Sporadic: Y/N % of Segment 65 Max. Observed

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 10 cm

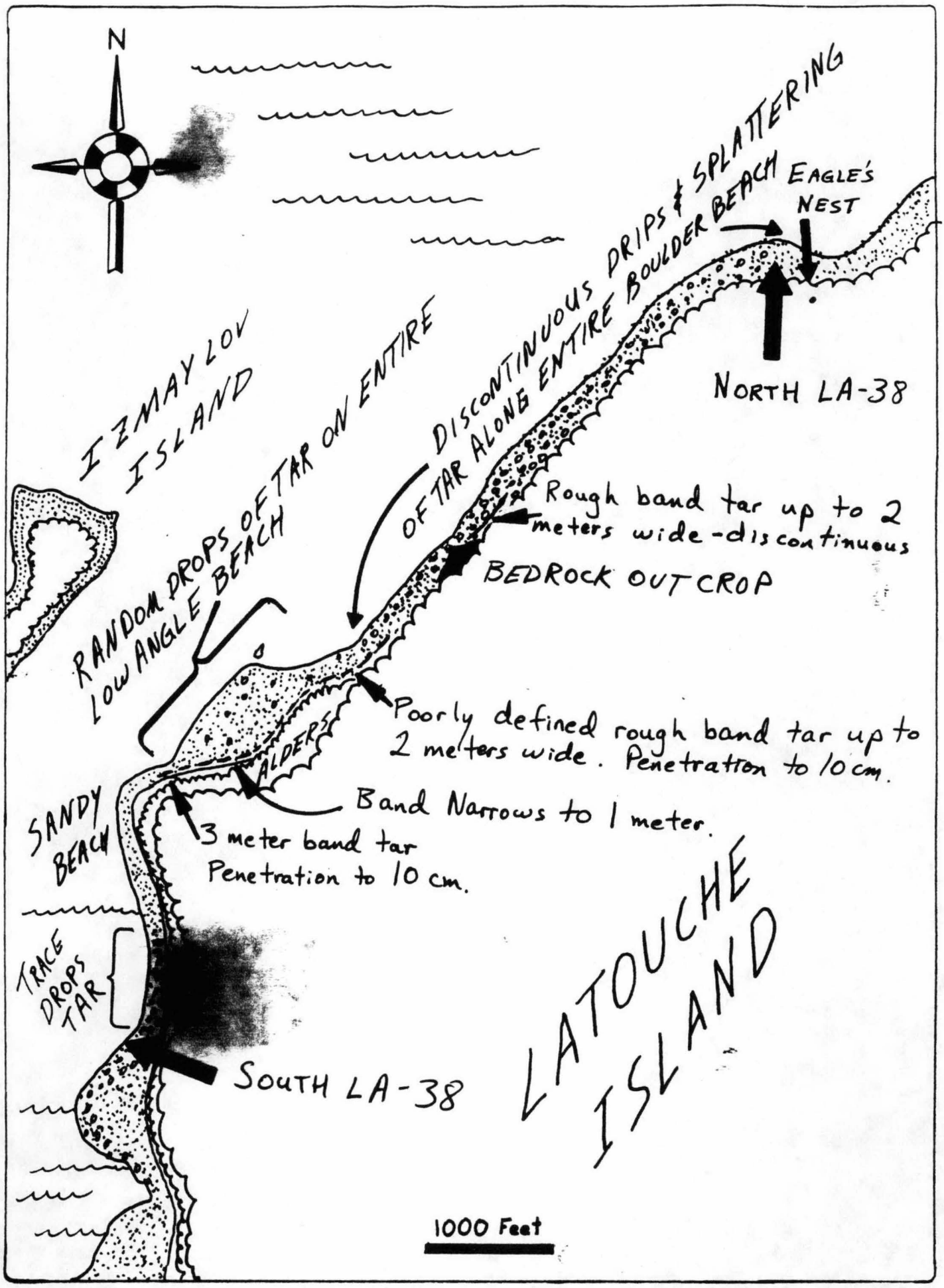
Pooled Oil: — % "Free" Oil: — % Coated: H 10 % / M 20 % / L 70 %

Fresh — % Mousse — % Tar Formation: 100 %

Drift Debris [illegible] ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Light discontinuous patches and drops of tar were found along the entire length of the northern half of the segment. Near the center, the tar formed a rough band up to 3 meters wide. In the south very small drops of oil were observed. The majority of the oil present appeared stable. Some regions in the middle of the segment may re float oil on hot days with high tides.


N
EAGLE'S NEST
DISCONTINUOUS DRIPS & SPLATTERING OF TAR ALONE ENTIRE BOULDER BEACH
NORTH LA-38
IZMAYLOV ISLAND
RANDOM DROPS OF TAR ON ENTIRE LOW ANGLE BEACH
Rough band tar up to 2 meters wide - discontinuous
BEDROCK OUTCROP
Poorly defined rough band tar up to 2 meters wide. Penetration to 10 cm.
ALDERS
Band Narrows to 1 meter.
SANDY BEACH
3 meter band tar
Penetration to 10 cm.
TRACE DROPS TAR
SOUTH LA-38
LATOUCHE ISLAND
1000 Feet

ECOLOGICAL EVALUATION

LOCATION: Latouche Sh **SITE:** _____ **OBSERVER:** [illegible]

LOCATION PROVINCE: LA **SEG. NO.:** 38 **LENGTH:** 2500 (M)

DATE: 08/[illegible]/89 **TIME (HHMM):** 1700-1850 **TIDE HT.:** +4.2 -> +5.1 (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

[illegible]

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

Beach 1, 3 - moderate to sparse patches. Beach 2 - continuous with dense to moderate concentrations. Beach 4 - none. Beach 5 - continuous and moderate

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

Beach 1, 2, 3 continuous and dense Beach 4 - sparse Beach 5 - continuous; mode[illegible]

Littorina

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

Beach 1, 3 - continuous and moderate. Beach 2 - continuous and moderate w/ [illegible] patches. Beach 4 - sparse Beach 5 - continuous and dense

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

Beach 1, 2, 3, 5 - continuous and dense Beach 4 - none

OTHER OBSERVATIONS: Beach 2 has a dense clams population - at least 4 species - used by otters

Beach 1, 3, 4, 5 - Use appropriate means to protect the mid/lower ITZ

CLEANUP PRECAUTIONS: If cleanup on beach 2 cannot be performed [illegible] only sug[illegible] cleanup not be considered at this time [illegible] impact [illegible] middle intertidal biota will occur [illegible]

MAMMALS: [illegible] **Harbor Seals** ____ **Sea Lions** 4 **Whales** ____

BIRDS: Gulls, Kittiwakes

GENERAL OBSERVATIONS: Segment is a continuous beach separated into 5 areas, called beaches. Beach 1 - 3 are boulder/cobble, Beach 2 is [illegible] and cobble, the biologically richest area, Beach 4 is a gra[illegible] with low to no biota at the [illegible] and Beach 5 is [illegible] estuarine area.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/14/89 Location W. SIDE LATOUCHE I. (SEWARD (A-3) QUAD) Site

Location Prefix LA- Segment # 38 Length 2500 M

Survey Method:

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

Ground ✓ 100% (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES 14(h)(1) MAP

Oil conditions/beach visibility ZERO TO LIGHT OIL; GOOD VISIBILITY

Width of beach zone surveyed 30 M m Tree fringe surveyed 0-10 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) CMT (E)

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

Shore Profile MODERATE GRADIENT BOULDER/COBBLE SLATE BEACH

Fresh Water Sources SEVERAL SMALL STREAMS

Sea Exposure OPEN TO LATOUCHE PASSAGE

Access/Safety GOOD BARGE ACCESS

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 —

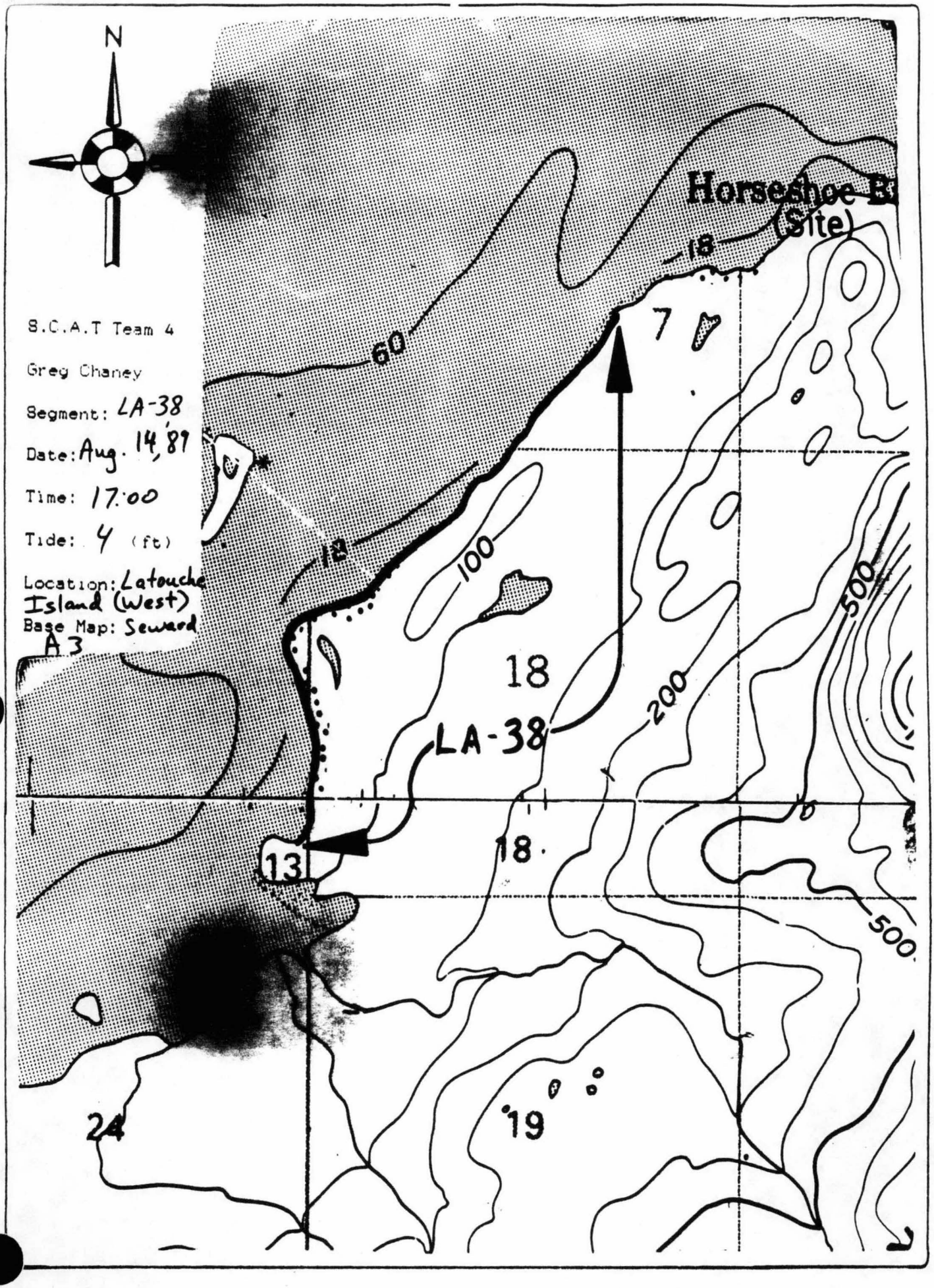
B/W Roll # PEBTMY 20 Frames 24-26

Observer(s) D. BUCK

Time survey started 1702 Time survey ended 1850

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


N
S.C.A.T Team 4
Greg Chaney
Segment: LA-38
Date: Aug. 14, 89
Time: 17:00
Tide: 4 (ft)
Location: Latouche Island (West)
Base Map: Seward
A3
Horseshoe B
(Site)
18
7
60
12
100
500
18
200
LA-38
13
18
500
24
19

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-39

LOCATION: (see enclosed map) LATOUCHE ISLAND-WEST SIDE

(LATOUCHE ISLAND WEST BLOCK)

ADEC NO._____ SHORELINE ASSESSMENT DATE: 8/15/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to light oil, medium wave exposure and ecological constraints.

Priorities Considerations:
Class 4: Light oil
A: Resources present

Ecological Constraints (from site survey):
Rich intertidal life may be adversely effected by cleanup activities, therefore, no cleanup is recommended. A cataloged anadromous stream (#16740) is located within this segment. If cleanup is planned, contact ADF&G and RAT forty eight hours prior to beginning activities.

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.

Bobbe Bergelt Date: 8/22/89
State Historic Preservation Officer *

ISCC: Jacque Michel Date: 8/25/89

EXXON: Daniel A. Tufts Date: 8.25.89

FOSC: D.E. Cranmer Date: 8-25-89

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

SHORELINE OIL EVALUATION

Date: Aug 15, '89 Time: 07:00 AM Observer: Greg Chaney

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION West Latouche Island SEGMENT NUMBER LA-39

LENGTH OF SHORELINE SEGMENT: 2800 m

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 10 % / C 10 % / P 10 % / G 25 % / S 25 % / M 20 % / R — %

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

OIL

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

Area of Beach Impact: SU / SP / H / M / L Max. Obs.

Continuous: Y/N % of Segment 10 % Width of Band: 3 m

Sporadic: Y/N % of Segment 40 % Max. Obs.

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 10 cm

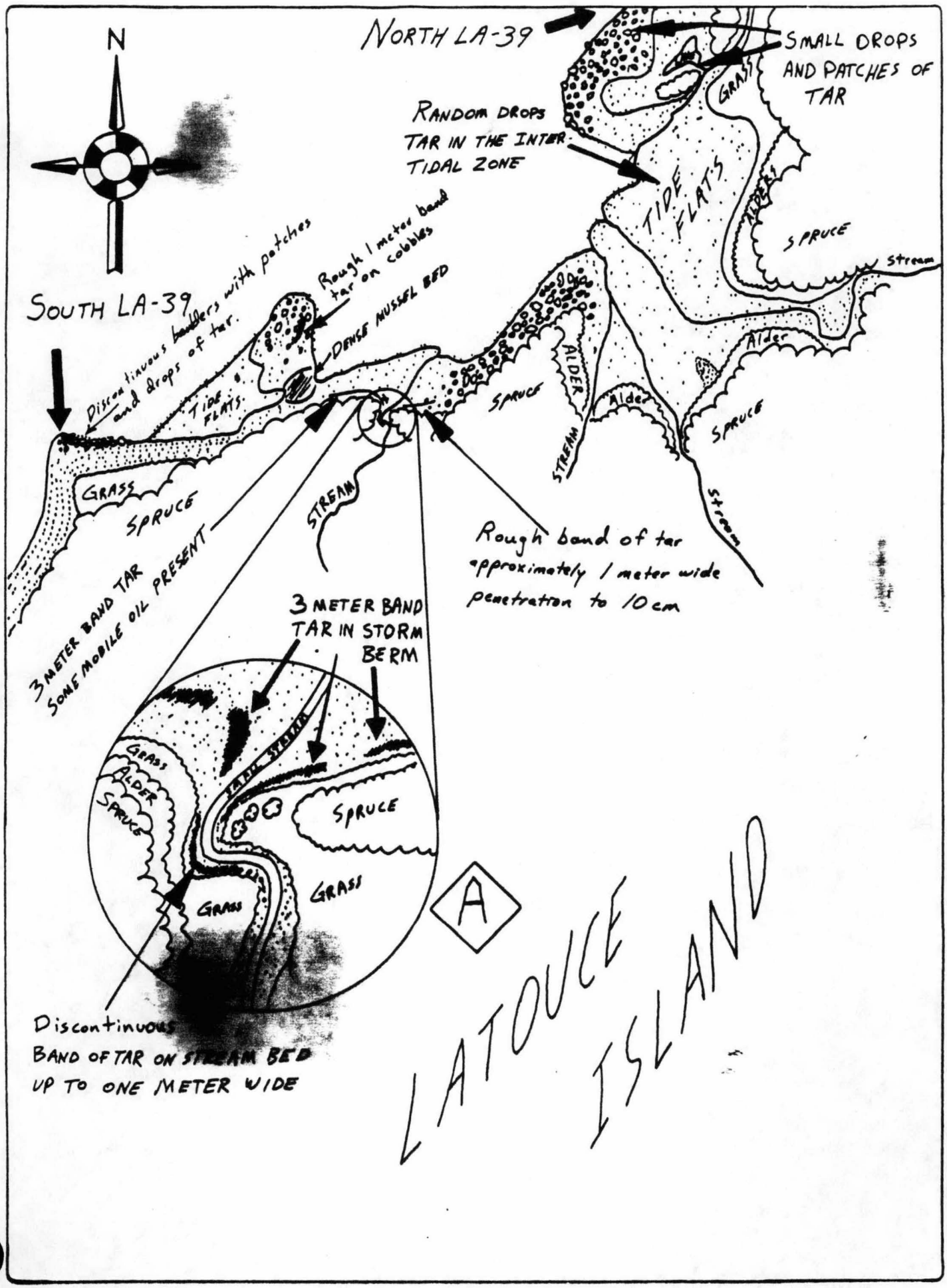
Pooled Oil: — % "Free" Oil: — % Coated: H 5 % / M 15 % / L 80 %

Fresh — % Mousse — % Tar Formation: 100 %

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

Comments:

This segment is dominated by wide tidal flats. These tide flats are rich in marine life and salmon were observed spawning in the streams which flow through the intertidal. Small Random deposits of tar were observed on the tidal flats. Tar bands were observed along the stream bank marked on the inset map at A.


N
NORTH LA-39
SMALL DROPS AND PATCHES OF TAR
GRASS
RANDOM DROPS TAR IN THE INTER TIDAL ZONE
TIDE FLATS
ALDER
SPRUCE
Stream
SOUTH LA-39
Discontinuous boulders with patches and drops of tar.
Rough 1 meter band tar on cobbles
DENSE MUSSEL BED
TIDE FLATS
SPRUCE
ALDER
STREAM
Alder
Alder
SPRUCE
Stream
GRASS
SPRUCE
STREAM
3 METER BAND TAR SOME MOBILE OIL PRESENT
Rough band of tar approximately 1 meter wide penetration to 10 cm
3 METER BAND TAR IN STORM BERM
GRASS
ALDER
SPRUCE
SPRUCE
GRASS
GRASS
A
Discontinuous BAND OF TAR ON STREAM BED UP TO ONE METER WIDE
LATOUCE ISLAND

ECOLOGICAL EVALUATION

LOCATION: Kalinski Island SITE: _____ OBSERVER: Crook

LOCATION [illegible]: LA SEG. NO.: 39 LENGTH: 2800 (M)

DATE: 08/[illegible]/89 TIME (HHMM): 0455 TIDE HT.: 0'

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

Continuous and dense until the southern point where concentrations become spar and patchy

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

Beach 1,3 & 4 continuous and dense; Beach 2 - continuous and moderate; Beach 5 sparse; patch

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

Population is continuous and dense throughout segment.

Littorina

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

Beach 1,3,4 continuous and dense; Beach 2 continuous and moderate; Beach 5 - sparse

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

OTHER OBSERVATIONS: Beach 1 has Salmon Stream #674, Beach 3 has Salmon Stream #6

Rich fauna: Flora in Segment: Eelgrass: Bull Kelp bed, Halosaccion, Laminaria, Alaria, Ulva, other browns: Green
Extensive clam beds heavily used by otters, dense Solaster concentrations, Pisaster, Leather Stars, Oysters, Urchins, Nucella, Small snails. Shore bird feeding grounds. from Salmon Stream #67

CLEANUP PRECAUTIONS: If asphalting cannot be removed manually only - suggest no cleanup fo[illegible] segment suggest no cleanup at this time as cleanup operations will have a gre[illegible] than present oil. Contact ADFG 48 hrs prior to cleanup

MAMMALS: O[illegible] Harbor Seals 1 Sea Lions 1 Whales _____
Black bear fishing

BIRDS: ≈100 Gulls: Kittiwakes, Oystercatcher, ≈50 least sandpipers, 2 Killdeer, 3 Harlequin Ducks

GENERAL OBSERVATIONS: Segment LA 39 is a continuous beach area separated into 5 beach areas: ① Wide flat estuary with peat, mud, gravel, cobbles; ② Cobble/Boulder beach; ③ Wide flat gravel/sand beach with stream; ④ Cobble/Boulder beac with a rocky point built out on a spit; ⑤ Sandy/gravel point

At the beginning of the segment there is a reported Eagles nesting site - did not see.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/15/89 Location W. SIDE LATOUCHE I. SEWARD (A-3) QUAD Site

Location Prefix LA- Segment # 39 Length 2800 M

Survey Method:

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

Ground ✓ 100 % (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source 14(a)(1) MARS AHRS FILES

Oil conditions/beach visibility LIGHT OIL; GOOD BEACH VISIBILITY.

Width of beach zone surveyed 30-100 m Tree fringe surveyed 0-20 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) CMT (2)

General observations justifying survey method and segment's site probability

Shore Profile VARIES; VIRTUALLY LEVEL LAGOON/ESTUARY AND LOW-MODERATE GRADIENT GRAVEL BEACH

Fresh Water Sources SEVERAL SIGNIFICANT STREAMS.

Sea Exposure UNNAMED BAY PROTECTED AT HIGH TIDE; OPEN TO LATOUCHE PASSAGE

Access/Safety SHALLOW WATER MAKES BARGE/LCM DIFFICULT.

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 —

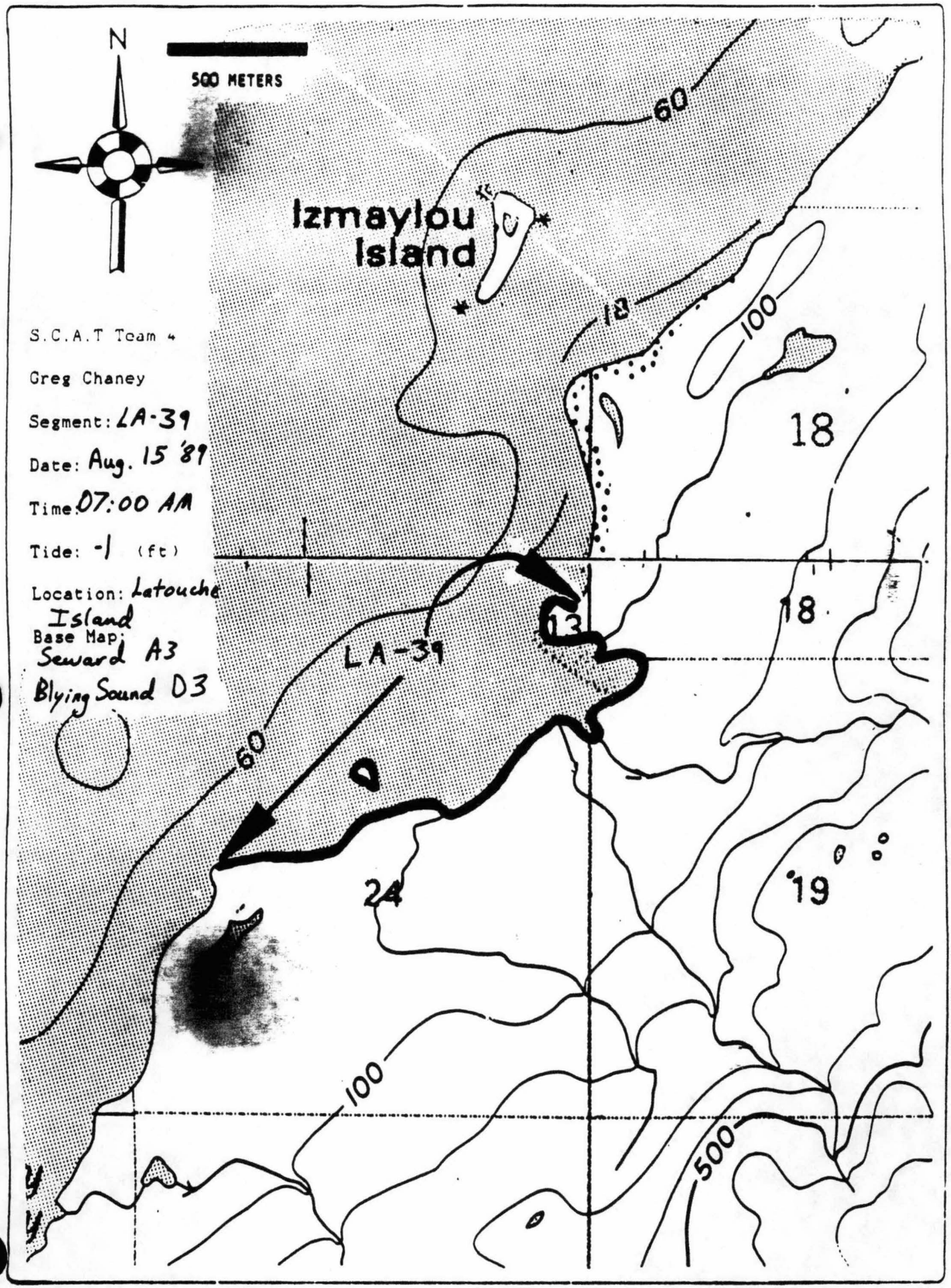
B/W Roll # PEBTMY-20 Frames 27-29

Observer(s) P. BUCK

Time survey started 0655 Time survey ended 0915

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


N
500 METERS
Izmaylou Island
60
18
100
18
18
13
LA-39
60
24
19
100
500
S.C.A.T Team 4
Greg Chaney
Segment: LA-39
Date: Aug. 15 '89
Time: 07:00 AM
Tide: -1 (ft)
Location: Latouche Island
Base Map: Seward A3
Blying Sound D3

LA-35

9/6/89

INSPECTION REPORT

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other Hand work only

Exxon

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

Comments Manually removed debris. No significant oiling remaining

Signature R C Harrelson Date: 9/6/89 Time: 1524

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
>1	Medium
>1	Light
0	Very Light
98	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] 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
5	Light
1	Very Light
90	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Not enough oil to require mechanical treatment

Signature Dale Gardner Date: 9/6/89 Time: 17:30

Printed Name DALE GARDNER

FOSC rep **Demobilization approved/disapproved**

Comments No objections from Administration

Signature [illegible] Date: 9/6/89 Time: 1725

Printed Name [illegible] Exxon

COPY: EXXON ADEC FOSC / ISCC

LA-36

9/6/89

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other Hand work only

Exxon

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

Comments Manually removed debris. No significant oiling remaining

Signature R C Harrelson Date: 9/6/89 Time: 15

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
Ø	Heavy
>1	Medium
>1	Light
0	Very Light
98	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] 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
3	Medium
7	Light
0	Very Light
90	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Not enough oil to require mechanical treatment

Signature Dale W. Gardner Date: 9/6/89 Time: 17:25

Printed Name DALE GARDNER

FOSC rep **Demobilization approved/disapproved**

Comments [illegible]

Signature [illegible] Date: 9/8/89 Time: [illegible]

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

4.25

FINAL ASSESSMENT LOG

SEGMENT LA 37 DATE 9/17/89

1. COVERAGE BY SURFACE OIL

- [ ] NONE
- [ ] INTERMITTENT
- [x] LIGHT (<10%)
- [ ] MODERATE (10-50%)
- [ ] HEAVY (>50%)

DESCRIPTION: IN HIGH TIDAL ZONE OF SHORT GRAVEL BEACH APPROX 15TO 30S S. OF HORSE-SHOE BAY

2. SUBSURFACE OIL DEPTH: UNK INCHES

NOTES: UNABLE TO GO ASHORE DUE TO SEA CONDITIONS

3. SHEEN IN AREA? [x] YES [ ] NO

NOTE: COMING OFF AREA DESCRIBED ABOVE.

4. OBVIOUS DAMAGE

FLORA	[ ] YES	[x] NO
FAUNA	[ ] YES	[x] NO
ARCHAEOLOGICAL	[ ] YES	[x] NO

NOTES:

5. DEBRIS FOR PICKUP [ ] YES [x] NO

DESCRIPTION:

6. COMMENTS:

MKC [signature]
SIGNATURE

SCOT I
POSITION

DATE 9/11/89 LA-37 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Comments

Signature RC Harrelson Date: 9/11/89 Time: 11:20

Printed Name RC HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
Ø	Heavy
5	Medium
10	Light
5	Very Light
80	None
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
42	Heavy
20	Medium
18	Light
10	Very Light
50	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Some pockets remain with medium/heavy oil. The gravel beach has a thick consistent coiling - it received no Treatment.

Signature Dale W Gardner Date: 9/11/89 Time: 11:10

Printed Name DALE GARDNER

FOSC rep Demobilization approved/disapproved

Comments [illegible]

Signature [illegible] Cruz Date: 9/11/89 Time: 1105

Printed Name Paul Ricky Cruz

COPY: EXXON ADEC FOSC ISCC

LA-38

9/6/89

INSPECTION REPORT

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [ ] Mechanical
- [ ] Non-mechanical
- [x] Other Hand work only

Exxon

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

Comments Manually removed debris. No significant oiling remaining

Signature RC Harrelson Date: 9/6/89 Time: 15:50

Printed Name R C HARRELSON

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
1	Medium
1	Light
0	Very Light
98	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] 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
4	Medium
5	Light
1	Very Light
90	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Not enough oil to require mechanical treatment

Signature Dale W. Gardner Date: 9/6/89 Time: 17:25

Printed Name DALE W GARDNER / ADEC INSPECTOR

FOSC rep **Demobilization approved/disapproved**

Comments [illegible] constraints

Signature [illegible] Date: 9/6/89 Time: 1545 1715

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LATOUCHE ISLAND SOUTHWEST BLOCK

Includes Shoreline Segments: LA-40, LA-41, LA-42

Submitted : W R Vosbamp (for Exxon) Date: 8-22-89

ISCC Recommendation: Sharon K. Christopherson Date: 8/30/89

FOSC Approval: C E Nobles Date: 8/30/89

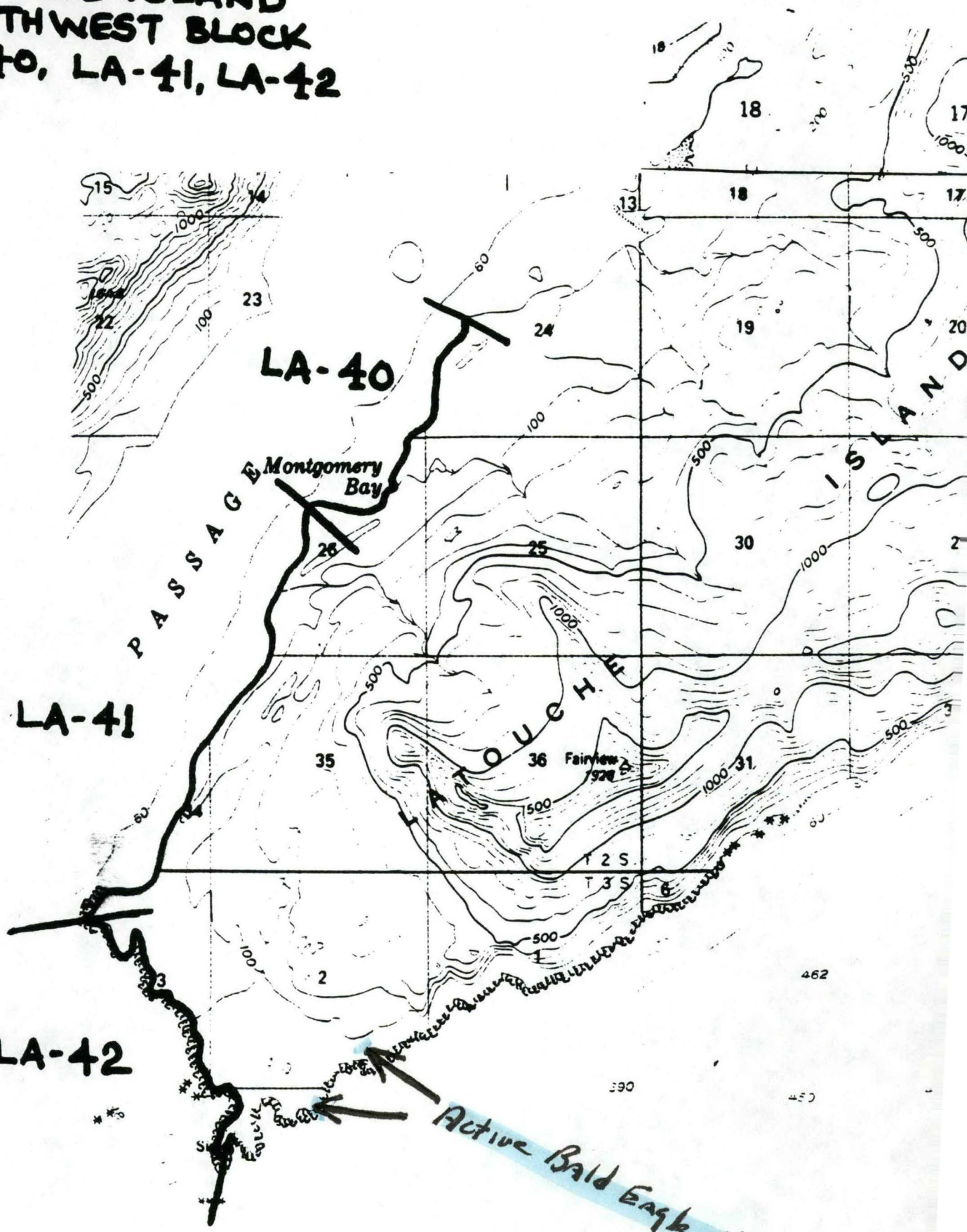
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file

- SHPO
- FOSC
- CDFU
- NOAA
- EPA
- USDA (FS)
- USFW
- A.DEC
- A.FG
- A.DNR
- CAC
- PWSCA
- USFS

LATOUCHE ISLAND
SOUTHWEST BLOCK
LA-40, LA-41, LA-42



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-40

LOCATION: (see enclosed map) LATOUCHE ISLAND-MONTGOMERY BAY

(LATOUCHE ISLAND SOUTHWEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/15/89

Recommended Cleanup Activity(ies):
-Use bioremediation if possible
-No other cleanup activity recommended

Priorities Considerations:
Class 4: Light oil
A: Resources present

Ecological Constraints (from site survey):
Work at mid tide + and or take appropriate measures to protect rich and healthy lower intertidal zone. A cataloged anadromous (#16710) stream is located in this segment. Notify ADF&G and RAT forty eight hours prior to beginning cleanup activities. in this segment. STANDARD BUFFER OF 100M AROUND STREAM FOR BIOREMEDIATION TREATMENT UNLESS CHANGED BY ADF+G.

Archeological Constraints (from site survey):
Bioremediation treatment will not adversely affect single large historic feature in the intertidal zone. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: 8/23/89

ISCC: Sharon K. Christopherson Date: 8/30/89

EXXON: Daniel R. Tapp Date: 8.30.89

FOSC: C E Robbins Date: 8/30/89

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

SHORELINE OIL EVALUATION

Date: Aug 15 89 Time: 17:30 Observer: Greg Chaney

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION West Latouche Is. SEGMENT NUMBER LA-40

LENGTH OF SHORELINE SEGMENT: 2200 m

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 20 % / P 20 % / G 20 % / S 20 % / M — % / R 5 %

Drift Debris on Beach: (Yes)/No Supra/(Upper)/Mid/Lower Type Logs: Seaweed Garbage

OIL

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

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

Continuous: Y/N % of Segment 5% Width of Band: 2 m

Sporadic: Y/N % of Segment 70% Max Obs.

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 10 cm

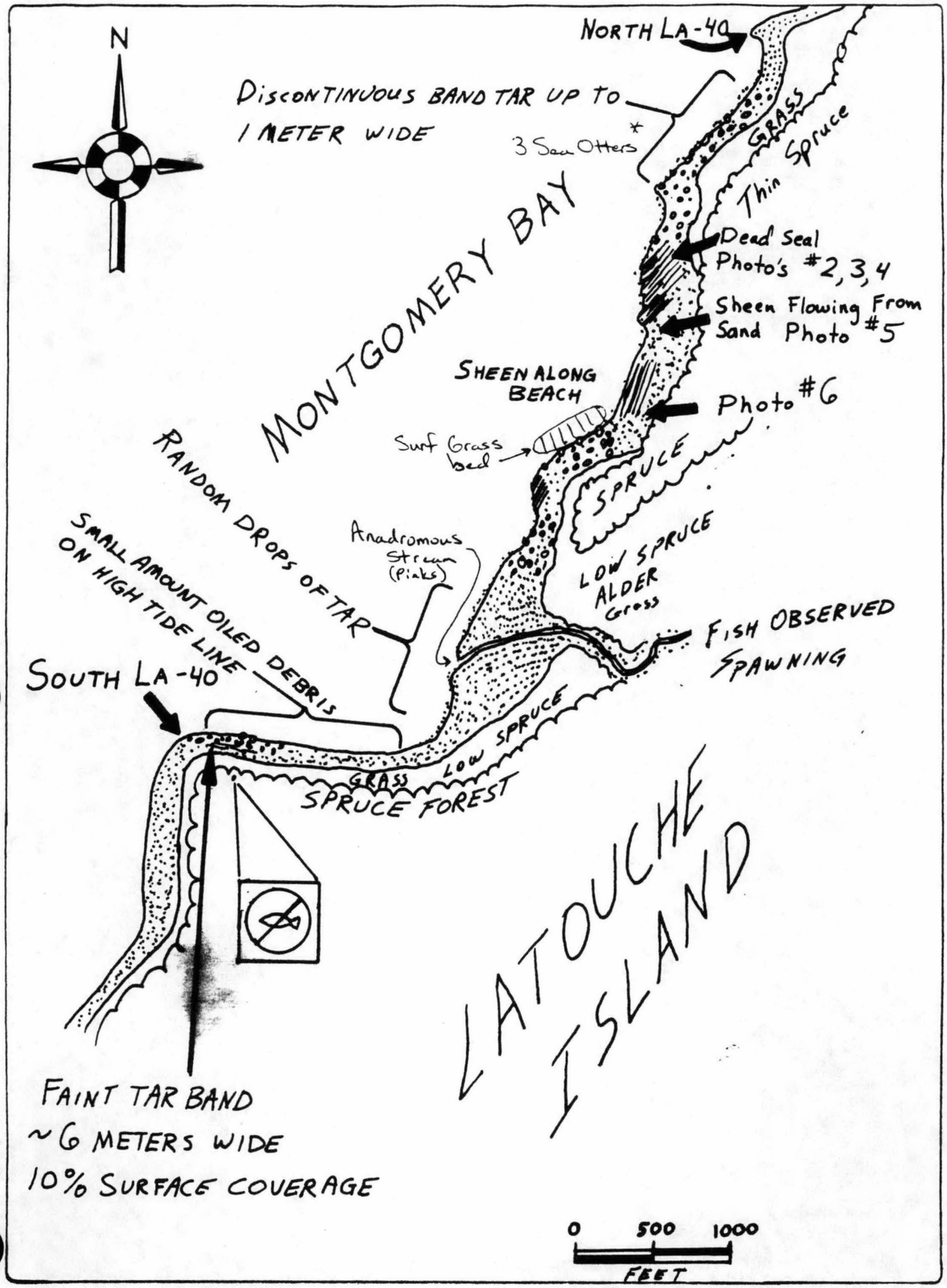
Pooled Oil: — % "Free" Oil: Trace % Coated: H 5 % / M 10 % / L 85 %

Fresh — % Mousse — % Tar Formation: 100 %

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

Comments:

Majority of segment had traces of tar on boulders and cobbles however little mobile oil was observed. In many sections all of the small tidal pools had a light sheen. Considering the stable appearance of the small amount of tar present, this sheen may have floated in on the last tide. Several heavily oiled beaches were observed on North Latouche Island, these may be a nearby source of sheen.


N
NORTH LA-40
DISCONTINUOUS BAND TAR UP TO 1 METER WIDE
3 Sea Otters
GRASS
Thin Spruce
MONTGOMERY BAY
Dead Seal Photo's #2, 3, 4
Sheen Flowing From Sand Photo #5
SHEEN ALONG BEACH
Photo #6
Surf Grass bed
SPRUCE
RANDOM DROPS OF TAR
Anadromous Stream (Pinks)
LOW SPRUCE ALDER GRASS
SMALL AMOUNT OILED DEBRIS ON HIGH TIDE LINE
FISH OBSERVED SPAWNING
SOUTH LA-40
LOW SPRUCE
GRASS
SPRUCE FOREST
LATOUCHE ISLAND
FAINT TAR BAND
~6 METERS WIDE
10% SURFACE COVERAGE
0 500 1000
FEET

ECOLOGICAL EVALUATION

LOCATION: Latouche Island SITE: SW end OBSERVER: J. Tapley

LOCATION PREFIX: LA SEG. NO.: 40 LENGTH: 2,200 m (M)

DATE: 8/15/89 TIME (HHMM): 1740-1930 TIDE HT.: ~4 ft → 3 ft. (M)

OILED ZONE: Splash (High) Medium Low

SUBSTRATUM: (Rocks Boulder Cobble Gravel Sand) Mud

Northend primarily — South end of segment primarily

LIVE BIOTA

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

At rocky northern end of segment fading to Patchy and Sparse at south end of segment

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

At north end fading to none present at south end of segment.

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

Balanus was widely present but not densely aggregated on rocks.

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

Margarites also present.

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

OTHER OBSERVATIONS: Active Pink (Humpy) Salmon stream within segment. No oil observed in or near stream. Salmon jumping. Other Algae present - Cladophora, Odonthallia, Acrosiphonia, Ulva, Colpomenia, Enteromorpha (HITZ).

CLEANUP PRECAUTIONS: Avoid oil contamination and traffic over LITZ. Avoid any clean-up near anadromous stream in Montgomery Bay!

MAMMALS: Sea Otters 5 Harbor Seals* 1 dead Sea Lions ___ Whales ___
Other Small mammal tracks - possibly skunk.

BIRDS: (25-30) Glaucous-winged Gulls & (10) juvs., (15-20) Kittiwakes, 2 Black Oystercatcher, (2) Sanderling

GENERAL OBSERVATIONS: Shell debris consisted of Mytilus, Saxidomus (Butter), Protothaca (Steamers), & Clinocardium sp. (Cockles). Surf grass beds (Phyllospadix) North of stream in Montgomery Bay. * 1 dead Harbor Seal found (♀?) Approx. 3' long. Oil on ~30-40% of body. 5" dia. hole in gut cavity. Pictures on roll # T4G-101. No oil seen in mouth or anal vent.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/15/89 Location W. SIDE LATOUCHE I. SEWARD (A-3) QUAD. Site

Location Prefix LA- Segment # 40 Length 2200 M

Survey Method:

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

Ground ✓ (100%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILES 14(4)(1) MAP

Oil conditions/beach visibility LIGHT OIL; BEACH VISIBILITY FAIR

Width of beach zone surveyed 40-100 M m Tree fringe surveyed 0-50 M

Cultural resources observed in beach zone (AHRS code) HTI

Cultural resources observed in tree fringe (AHRS code) CROSS CUT STUMPS (3)

General observations justifying survey method and segment's site probability

Shore Profile VARIABLE; MODERATE GRADIENT COBBLE/GRAVEL BEACH & ALMOST FLAT ESTUARY/LAGOON

Fresh Water Sources SEVERAL SALMON STREAMS

Sea Exposure GENERALLY OPEN TO LATOUCHE PASSAGE; MONTGOMERY BAY PROTECTED FROM SOUTHERLY STORMS.

Access/Safety ACCESS OK FOR LCM, SKIFF

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 —

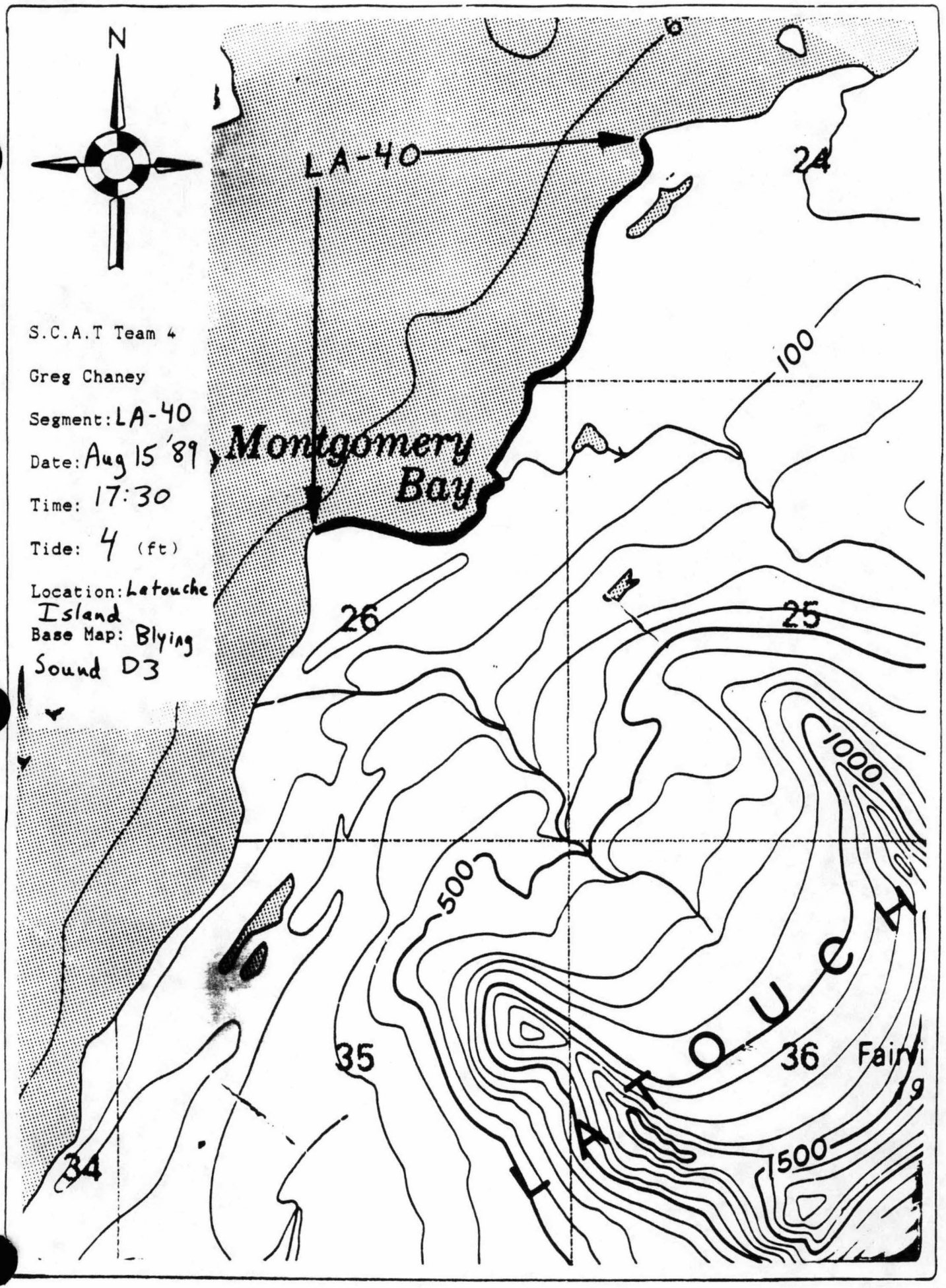
B/W Roll # PESTM 4-20 Frames 30-37

Observer(s) P. BUCK

Time survey [redacted]ed 0915 1740 Time survey ended 1000 1930

Cultural re[redacted] considerations/restraints:

"STANDARD CONSTRAINTS"


N
LA-40
Montgomery Bay
S.C.A.T Team 4
Greg Chaney
Segment: LA-40
Date: Aug 15 '89
Time: 17:30
Tide: 4 (ft)
Location: Latouche Island
Base Map: Blying Sound D3
24
25
26
35
36
34
100
500
1000
500
LATOUCHE

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-41

LOCATION: (see enclosed map) LATOUCHE ISLAND-SOUTH OF MONTGOMERY BAY (LATOUCHE ISLAND SOUTHWEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/16/89

Recommended Cleanup Activity(ies):
-No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to discontinuous, light oil and medium to high wave exposure.

Priorities Considerations:
Class 4: Light oil
A: Resources present

DJT 8-30-89
SC 8/30/89

Ecological Constraints (from site survey): (# 16700)
A cataloged anadromous stream is located within this segment. If cleanup is planned notify ADF&G and RAT forty eight hours prior to beginning cleanup activities. An active bald eagle nest is located at the southern end of this segment, see advisory. A second verified anadromous stream has been verified by ADF+G is south end of segment.

SC 8/30
DJT 8-30-8

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.

Pelle Boyell — Date: 8/23/89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson — Date: 8/30/89

EXXON: Samuel L. Taft — Date: 8.30.89

FOSC: C. E. Dobbins — Date: 8/30/89

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

SHORELINE OIL EVALUATION

Date: Aug 16 '89 Time: 06:30 AM Observer: Greg Chaney

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION Latouche Is. South of Montgomery Bay SEGMENT NUMBER LA-41

LENGTH OF SHORELINE SEGMENT: 3650 m

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 60 % / C 5 % / P 5 % / G 5 % / S 15 % / M — % / R 10 %

Drift Debris on Beach: (Yes)/No (Supra)/Upper/Mid/Lower Type Logs: 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 — Width of Band: — m

Sporadic: (Y)/N % of Segment 60 Max. Observed

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 5 cm

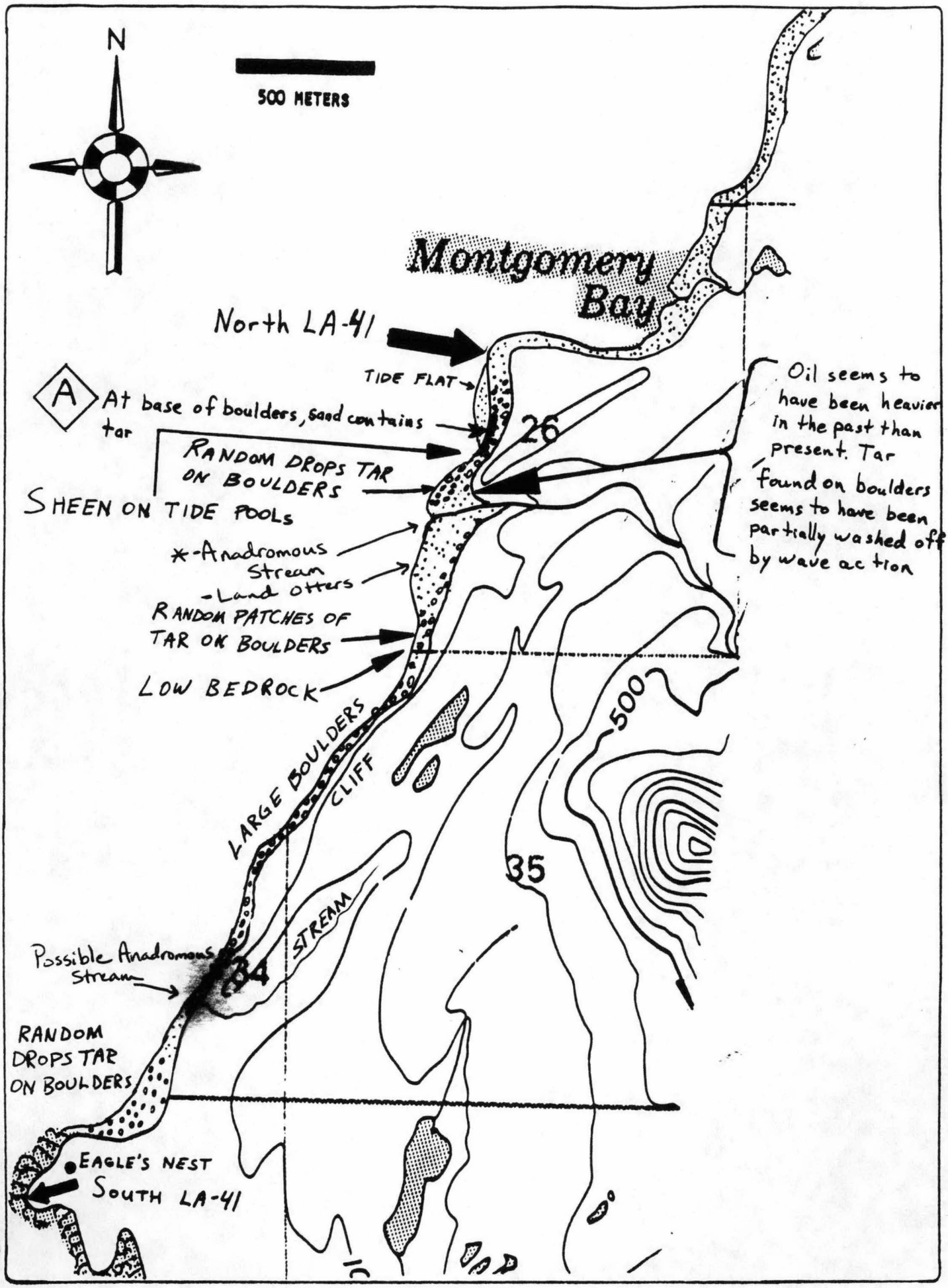
Pooled Oil: — % "Free" Oil: — % Coated: H 5 % / M 10 % / L 85 %

Fresh — % Mousse — % Tar Formation: 100 %

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

Comments:

This segment appears to have been heavily oiled in the past but this oil seems to have been washed off of the rocks and boulders by natural wave action. Sheen was observed on several tide pools but it seems unlikely that it originated locally. While anchored off LA-41, sheen was observed on Aug. 15 flowing from the north. Several heavily oiled beaches are located north of LA-41.


N
500 METERS
Montgomery Bay
North LA-41
TIDE FLAT
A
At base of boulders, sand contains tar
26
RANDOM DROPS TAR ON BOULDERS
SHEEN ON TIDE POOLS
*-Anadromous Stream
-Land otters
RANDOM PATCHES OF TAR ON BOULDERS
LOW BEDROCK
Oil seems to have been heavier in the past than present. Tar found on boulders seems to have been partially washed off by wave action
500
LARGE BOULDERS
CLIFF
35
STREAM
Possible Anadromous Stream
34
RANDOM DROPS TAR ON BOULDERS
EAGLE'S NEST
SOUTH LA-41

ECOLOGICAL EVALUATION

LOCATION: LaTouche Is. SITE: South of Montgomery Bay OBSERVER: J. Tarplay

LOCATION PREFIX: LA SEG. NO.: 41 LENGTH: 3650 (M)

DATE: 8/16/89 TIME (HHMM): 0650-1000 TIDE HT.: -1.0' → -1.8' → +2.0'

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

Wide band of Fucus mid-tidal throughout segment. Rich & diverse algal assemblage also in mid to low ITZ. Kelps are abundant.

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

Cont. & dense throughout most of segment - Scattered to absent with end of segment.

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

Includes B. glandula & small areas of Semibalanus cariosus.

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

Includes - Littorina, Margaritas, Nucella emarginata & eggs, Nucella lamellosa

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

Includes - Notacmaea persona, Tectura scutum, Lottia digitalis

OTHER OBSERVATIONS: Kelp Forests close to shore at Northern end of segment. Pycnopodia abundant in Low ITZ. Pisaster & Dermasterias rare throughout segment.

CLEANUP PRECAUTIONS: Avoid anadromous streams, grassy areas inhabited by land otters and oil contamination of healthy Low ITZ.

MAMMALS: Sea Otters 6 Harbor Seals 2 Sea Lions ____ Whales ____
Other Deer & Land otter tracks

BIRDS: 15 Harlequin Ducks; 19 Blk. Oystercatchers; 49 Blk-legged Kittiwakes, 23 Glaucous-winged Gulls

GENERAL OBSERVATIONS: Anadromous stream present in segment. Numerous otter tracks around stream. Salmon remains observed. Surf grass (Phyllospadix) beds almost continuous through segment. Land otter signs observed throughout segment.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/16/89 Location W. SIDE LATOUCHE ISLAND (BLYING SOUND (D-3) QUAD) Site

Location Prefix LA- Segment # 41 Length 3650 M

Survey Method:

Air (A - indicate on map) Boat ✓ (25%) (A - indicate on map

Ground ✓ (75%) (G - indicate on map)

Known cultural resources (AHRS #) XBS-005 Data Source AHRS FILES

Oil conditions/beach visibility ZERO TO LIGHT OILING; GOOD BEACH VISIBILITY

Width of beach zone surveyed 25-100 m Tree fringe surveyed 0-15 m

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) CROSS-CUT STUMPS (2)

General observations justifying survey method and segment's site probability

Shore Profile MODERATE GRADIENT BOULDER/COBBLE ~~SLAG~~ BEACH AND SMALL GRAVEL/SAND STREAM DELTA

Fresh Water Sources SEVERAL SMALL STREAMS

Sea Exposure OPEN TO LATOUCHE PASSAGE

Access/Safety ACCESS OK FOR LCM, SKIFF

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 # PERTMY-21 Frames 1-3

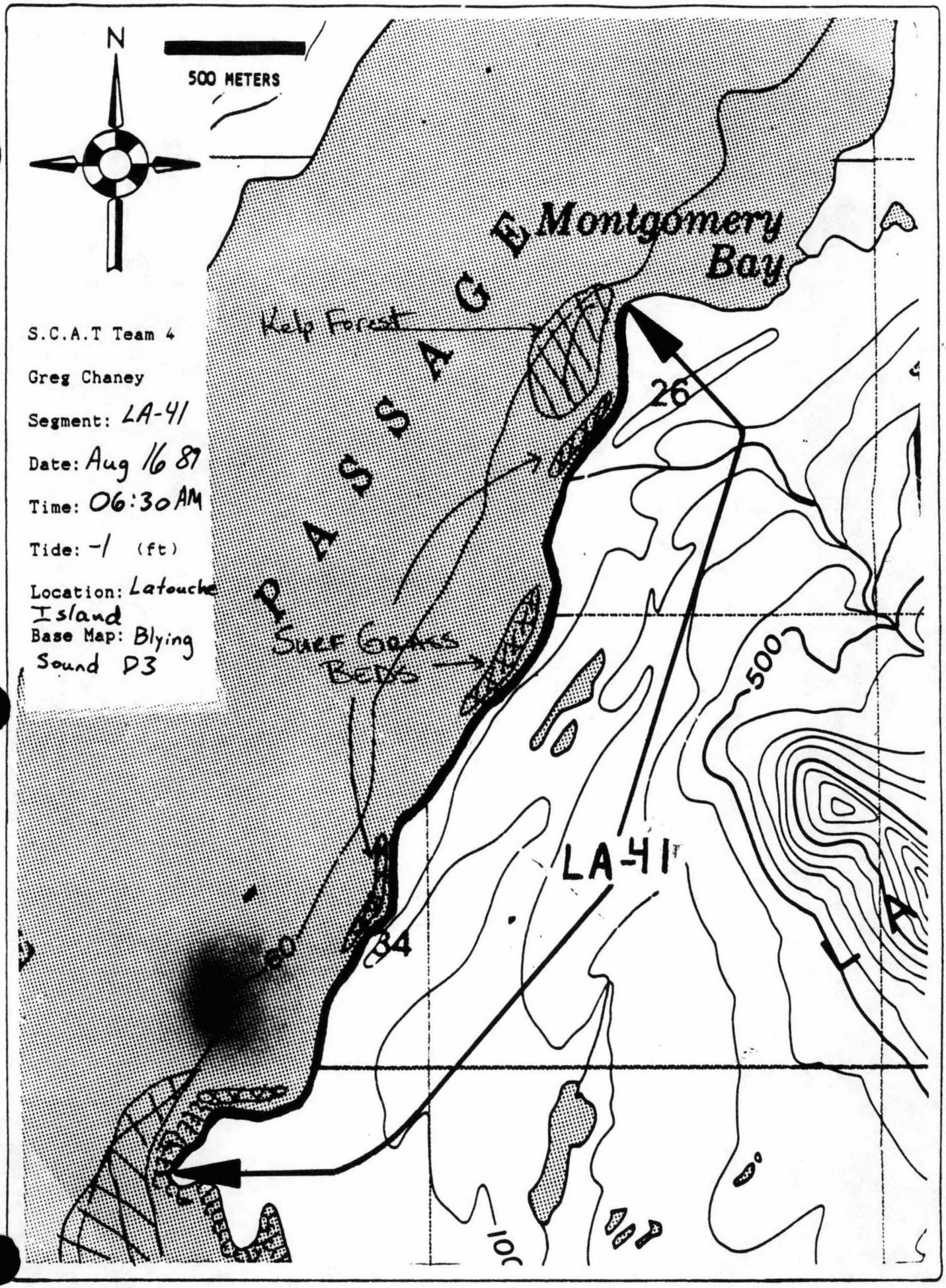
Observer(s) R. BUCK

Time survey [redacted]ed 0645 Time survey ended 0945

Cultural re[redacted] considerations/restraints:

SITE XBS-005 IS APPARENTLY ON TOP OF THE BLUFF AT LEAST 20 METERS ABOVE BEACH OF LA-41. ACCESS WAS IMPOSSIBLE AND XBS-005 WAS NOT INSPECTED. "STANDARD CONSTRAINTS" HERE.


ELRINGTON PASSAGE
ELRINGTON
PASSAGE
Montgomery Bay
LATOUCHE ISLAND
Latouche Park
Farview
active Bald Eagle nest
active Bald Eagle nest LA-25
active Bald Eagle nest
active Bald Eagle nest
active Bald Eagle nest DA-1
Danger Island
COLONY 49-16
60 birds.
MONTAGUE
LA-41
Point Bryant
LATOUCHE ISLAND



S.C.A.T Team 4

Greg Chaney

Segment: LA-41

Date: Aug 16 89

Time: 06:30 AM

Tide: -1 (ft)

Location: Latouche Island

Base Map: Blying Sound D3

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT LA-42

LOCATION: (see enclosed map) LATOUCHE ISLAND-SOUTH END

(LATOUCHE ISLAND SOUTHWEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/16/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to discontinuous, light oil, high wave exposure and difficult access.

Priorities Considerations:
Class 4: Light oil
A: Resources present

Ecological Constraints (from site survey):
Avoid disturbance to sea otters and seals which were observed offshore of this segment.

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.

Robert Burnett — Date: 8/23/89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson — Date: 8/30/89

EXXON: Daniel A. Tufts — Date: 8.30.89

FOSC: C E McCain — Date: 8/30/89

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

SHORELINE OIL EVALUATION

Date: Aug 16 89 / Time: 10:00 AM Observer: Greg Chaney

Surveyed From: (Foot)/Boat/Helio/Plane Weather: Sun/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION South Latouche Is. SEGMENT NUMBER LA-42

LENGTH OF SHORELINE SEGMENT: 3000 m

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 — % / P — % / G 5 % / S — % / M — % / R 90 %

Drift Debris on Beach: (Yes)/No Supra/(Upper)/Mid/Lower Type Logs: Seaweed

OIL

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

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

Continuous: Y/N % of Segment 5 Width of Band: 2 m

Sporadic: Y/N % of Segment 95 Mostly Bedrock

Est. Oil Thickness where > 1cm: — cm Est. Oil Penetration: 0 cm

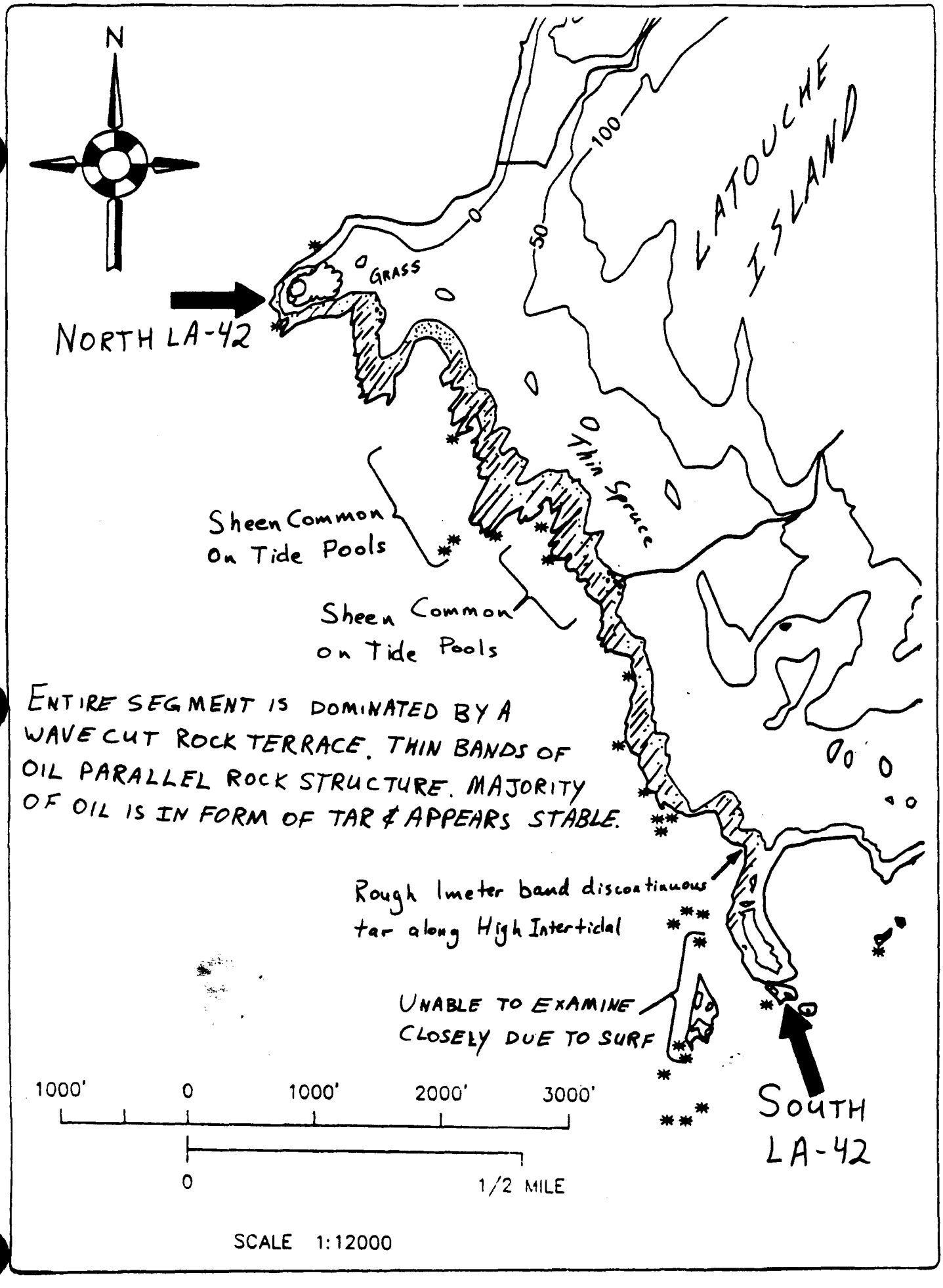
Pooled Oil: — % "Free" Oil: — % Coated: H 10 % / M 10 % / L 80 %

Fresh trace % Mousse — % Tar Formation: 100 %

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

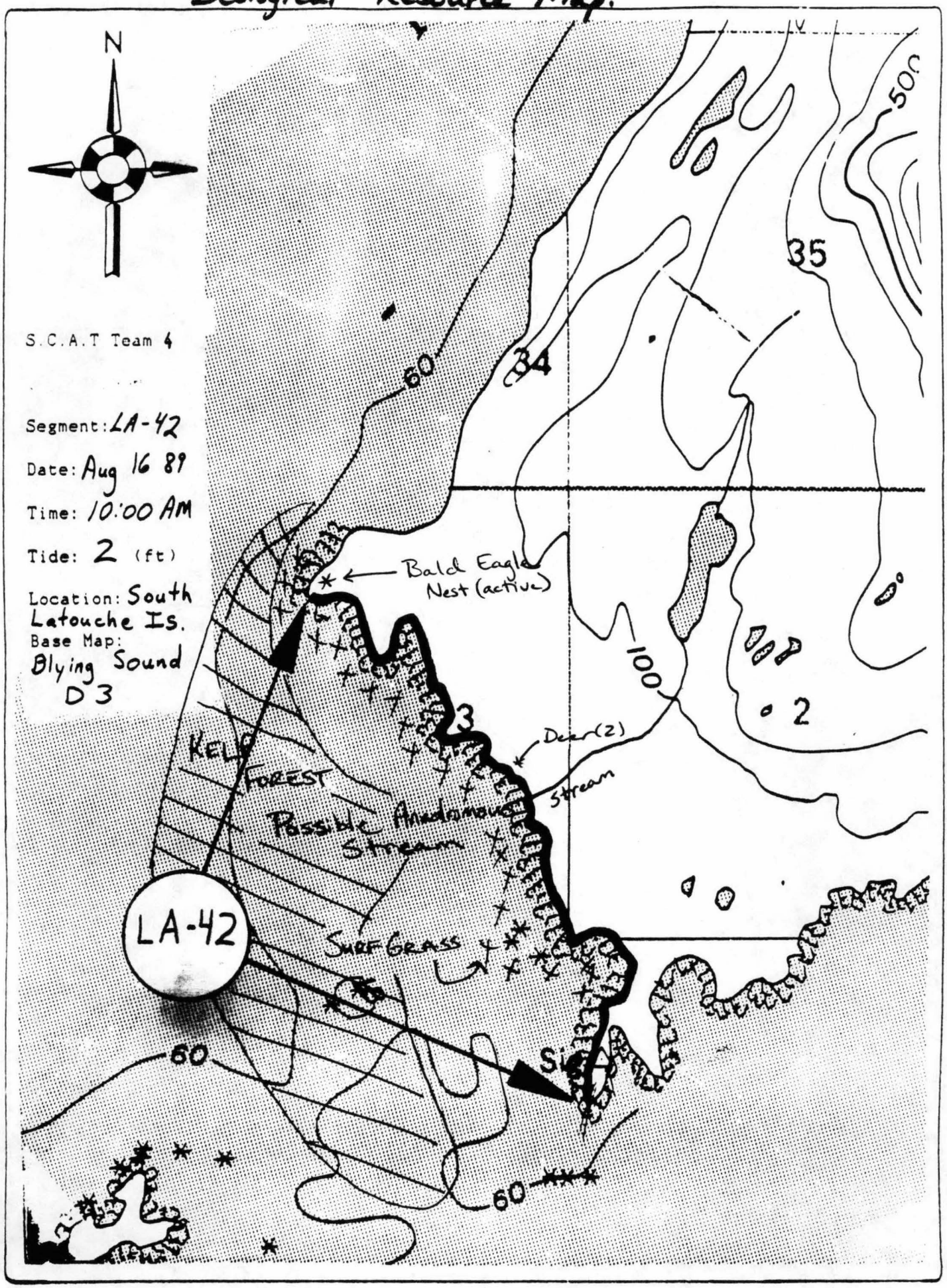
Comments:

This low wave cut terrace consists of bedrock layers which are oriented perpendicular to the shoreline. These rock layers have distinct bedding planes which have trapped a significant amount of tar, however the tar observed was not concentrated in distinct bands. The wave cut terrace is so broad that the tar which is present is spread out over a large area. Sheen was observed in several tide pools but it did not appear to be from a local source. Sheen may be coming from nearby heavily oiled segments.



SCALE 1:12000

Ecological Resource Map.



ECOLOGICAL EVALUATION

LOCATION: Latouche Island SITE: South shore OBSERVER: J. Tarpley

LOCATION PREFIX: LA SEG. NO.: 42 LENGTH: 3000 m (M)

DATE: 8/16/89 TIME (HHMM): 1000-1130 TIDE HT.: +2.0' → +6.0' (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

Wide band of Fucus across ITZ. Other algae also abundant – Odonthalia, Cladophora, Neorhodomela lacia, Corallines.

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

Only on rocky pts. – Absent on ITZ benches.

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

Includes Littorina sitkana, L. scutulata, & Margarites sp.

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

Includes – Notoacmaea persona & Tectura scutum

OTHER OBSERVATIONS: Extensive and thick Kelpforest offshore throughout the length of segment. Surfgrass beds also present close to shore. Algal drift abundant with few logs. Tidepool fishes abundant.

CLEANUP PRECAUTIONS: Foul waters – rocks & kelp – Avoid oil contamination of healthy low ITZ. Avoid eagle nest – 300'.

MAMMALS: Sea Otters 45+ Harbor Seals 3 Sea Lions (Steller's) 1 Whales _____
Other 2 Blk-tail deer on beach near stream.

BIRDS: 18 Harlequin Ducks; 2 Brandt's Geese; 3 Kittlitz's Murrelets; 20-25 No. Phalaropes; Gulls, Kittiwake; 12 Common Murres (juvs)

GENERAL OBSERVATIONS: ITZ is very wide occurring on a wave cut platform. Many tidal pools present. High energy beach. Rocks coated with tar.

*Possible anadromous stream in segment. Offshore kelp forest is prime habitat for numerous sea otters & harbor seals. Possible Bald Eagles nest in segment. Due to the physical environment and rocks at this site, Bioremediation may be the best method for clean up without damaging healthy biota.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/16/89 Location S. SIDE LATOUCHE ISLAND FLYING SOUND (D-3) QUAD Site

Location Prefix LA- Segment # 42 Length 3000 M

Survey Method:

Air (A - indicate on map) Boat ✓ (80%) (A - indicate on map

Ground ✓ (20%) (G - indicate on map)

Known cultural resources (AHRS #) AA12436 Data Source 14(4)(1) MA

Oil conditions/beach visibility GENERALLY ZERO TO LIGHT BUT LOCALLY MODERATE GOOD BEACH VISIBILITY

Width of beach zone surveyed 30 M m Tree fringe surveyed —

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

General observations justifying survey method and segment's site probability

Shore Profile WAVE CUT FOLDED SLATE BEDROCK RIDGES AND SMALL GRAVEL POCKET BEACHES

Fresh Water Sources 1 SMALL STREAM

Sea Exposure OPEN TO GULF OF ALASKA - VERY EXPOSED

Access/Safety ACCESS FOR SKIFF IN CALM WEATHER POSSIBLE

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 —

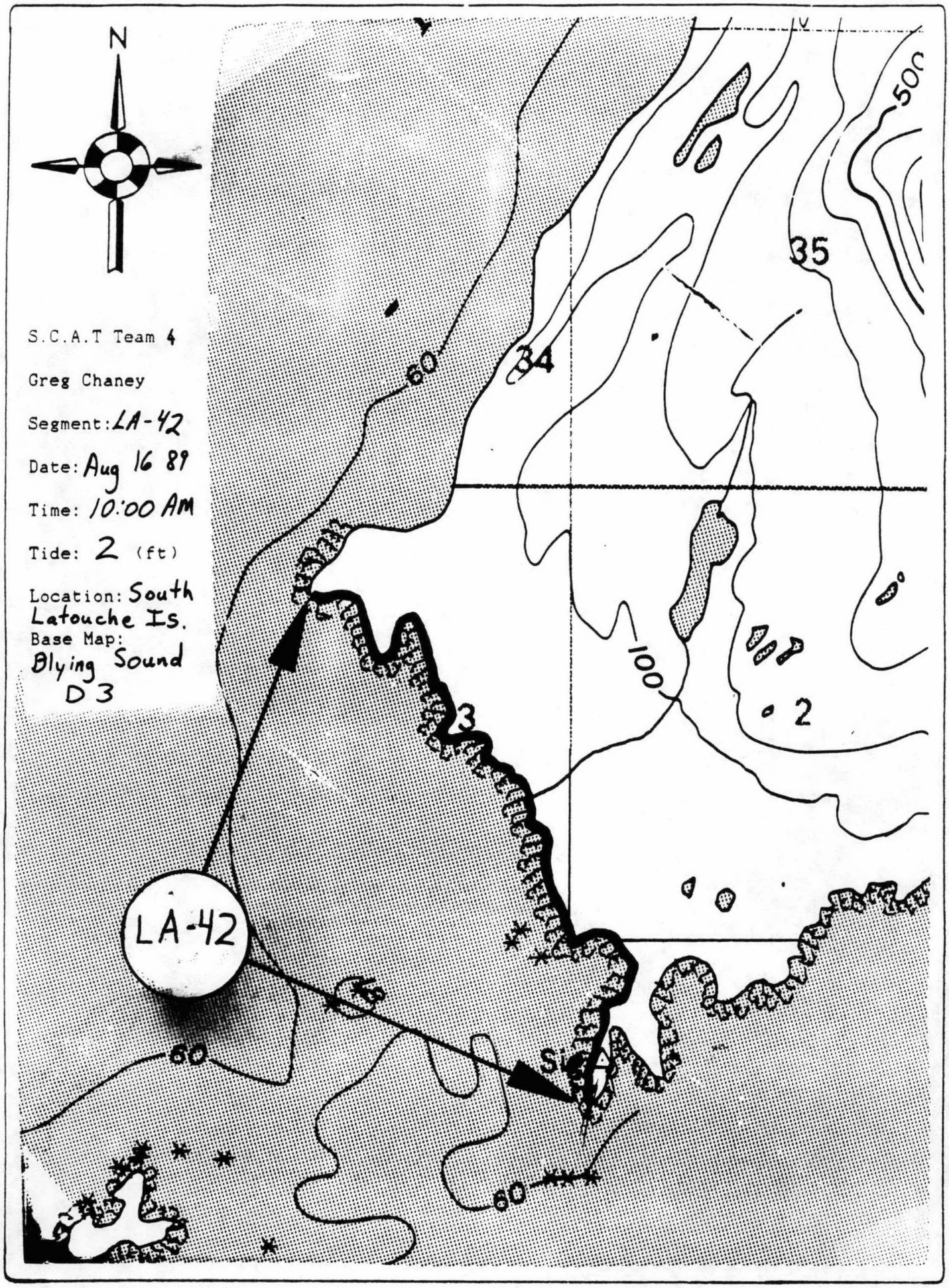
B/W Roll # PESTMY-21 Frames 4-6

Observer(s) P. BUCK

Time survey started 1004 HRS Time survey ended 1145 HRS

Cultural resource considerations/restraints:

"STANDARD CONSTRAINTS"


N
S.C.A.T Team 4
Greg Chaney
Segment: LA-42
Date: Aug 16 89
Time: 10:00 AM
Tide: 2 (ft)
Location: South Latouche Is.
Base Map: Blying Sound D3
LA-42
50
35
34
60
100
3
2
60
60

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 9/3/89 SHORELINE SEGMENT LA-43

LOCATION: (see enclosed map) LATOUCHE ISLAND-HORSESHOE BAY

(HORSESHOE BAY BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 9/3/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to no oil.

Priorities Considerations:
No oil
Medium recreational use

Ecological Constraints (from site survey):
Two cataloged anadromous streams (#16750 and #16760) are located in this segment. If cleanup is planned, contact ADF&G and RAT forty eight hours prior to beginning cleanup activities.

Archeological Constraints (from site survey):
If cleanup is planned, a complete archaeological assessment must be conducted.

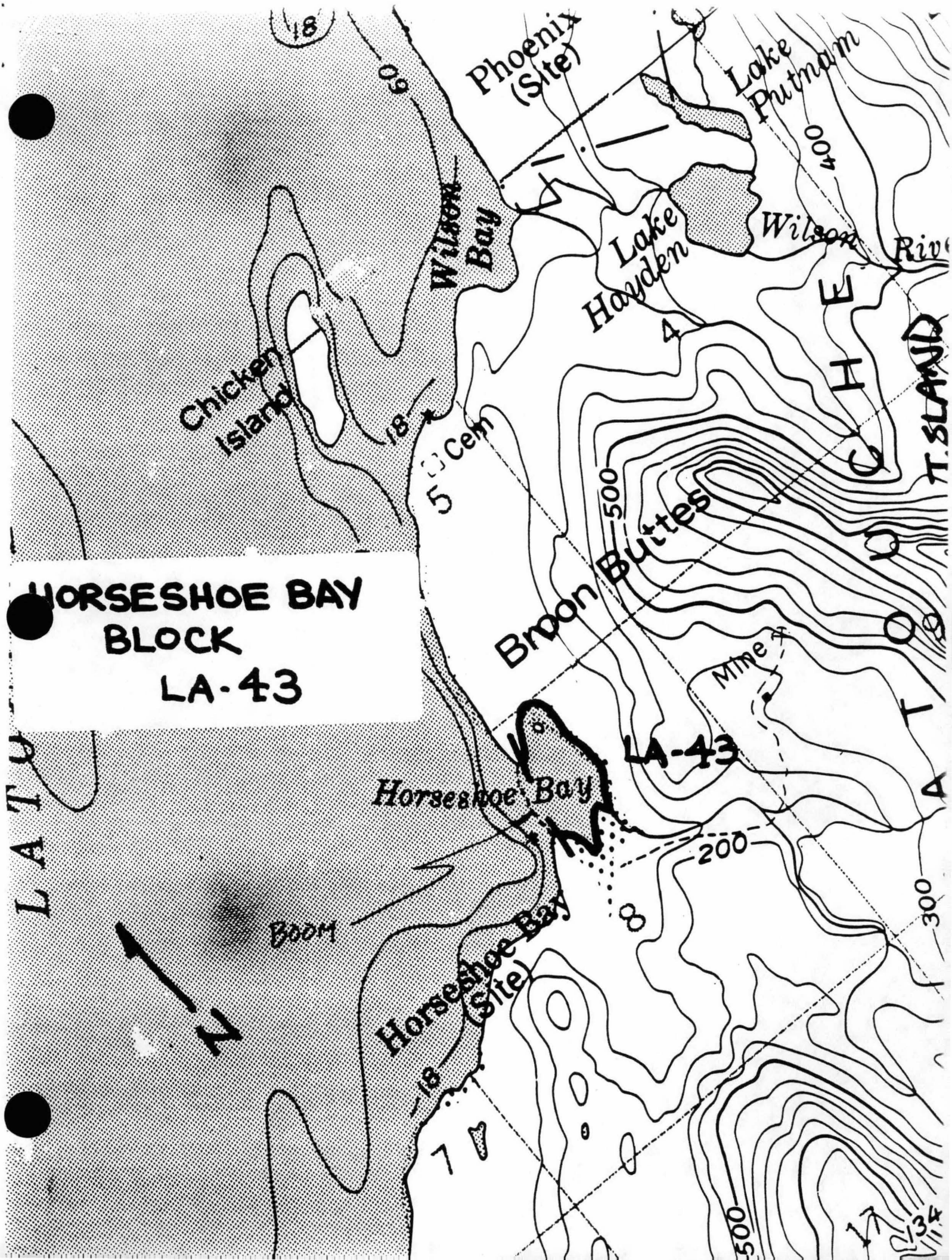
Robbe Bizzell — Date: 9/04/89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson — Date: 9/5/89

EXXON: [signature] — Date: 9/5/89

FOSC: [signature] — Date: 9/6-89

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


HORSESHOE BAY
BLOCK
LA-43
Phoenix (Site)
Lake Putnam
Lake Hayden
Wilson Bay
Wilson River
Chicken Island
Broon Buttes
Mine
LA-43
Horseshoe Bay
Boom
Horseshoe Bay (Site)
LATTICE
T. SLAND
N
18
60
400
500
200
300
8
7
4
5
134

SHORELINE OIL EVALUATION

Date: 9/3/89 Time: 1030-1100 Observer: C. Dillon

Surveyed From: (Foot)/Boat/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Horseshoe Bay (Latouche Is.) SEGMENT NUMBER LA-43

LENGTH OF SHORELINE SEGMENT: 800 m

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 1 % / C 20 % / P 40 % / G 15 % / S 15 % / M 8 % / R 1 %

Drift Debris on Beach: Yes/(No) Supra/Upper/Mid/Lower Type _____

OIL

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

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

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm

Pooled Oil: _____ % "Free" Oil: _____ % Coated: H____ % /M____ % /L____ %

Fresh _____ % Mousse _____ % Tar Formation: _____ %

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

Comments:

No oil observed.

ECOLOGICAL EVALUATION

LOCATION: La Touche Is. SITE: Horseshoe Bay OBSERVER: Smith

LOCATION PREFIX: A SEG. NO.: 43 LENGTH: 800 (M)

DATE: 9/3/89 TIME (HHMM): 1030 TIDE HT.: 1/2-1 (M)

OILED ZONE: Splash High Medium Low No oil

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

Dense Fucus beds on Pebble cobble beach. None oiled

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

Dense in patches. Individuals situated among Pebble/gravel. Most healthy - NO oil. Some evidence of predation (open shells)

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

Dense adult and spat on cobbles/pebbles near water. None oiled. No barnacle on rocks.

Littorina

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

Dense under Fucus canopy

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

Many individuals also found under Fucus canopy

OTHER OBSERVATIONS: Many open clam shells (Saxidomus, Tapes) Many spawning pink salmon. Evidence of bear use of intertidal Zostera beds offshore

CLEANUP PRECAUTIONS: Sensitive resources include anadromous fish and dense clam intertidal beds. Restrict all access to bay.

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

Other Black bear

BIRDS: Gulls,

GENERAL OBSERVATIONS: No oil observed. Bay is pristine and no oil was seen on boom either.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/14/89 Location HORSESHOE BAY, LATOUCHE I SEWARD (A-3) QUAD Site

Location Prefix LA- Segment # 43 Length

Survey Method: [SEE NOTE AT BOTTOM OF PAGE]

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

Ground (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS FILE

Oil conditions/beach visibility ZERO - LIGHT OILING, GOOD BEACH VISIBILITY

Width of beach zone surveyed 30 M m Tree fringe surveyed —

Cultural resources observed in beach zone (AHRS code) NONE OBSERVED

Cultural resources observed in tree fringe (AHRS code) NONE OBSERVED

General observations justifying survey method and segment's site probabilit

Shore Profile LOW GRADIENT COBBLE/GRAVEL BEACH AND LAGOON/ESTUARY

Fresh Water Sources SALMON STREAM AT HEAD OF HORSESHOE BAY

Sea Exposure PROTECTED COVE

Access/Safety TOO SHALLOW FOR BARGE

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 —

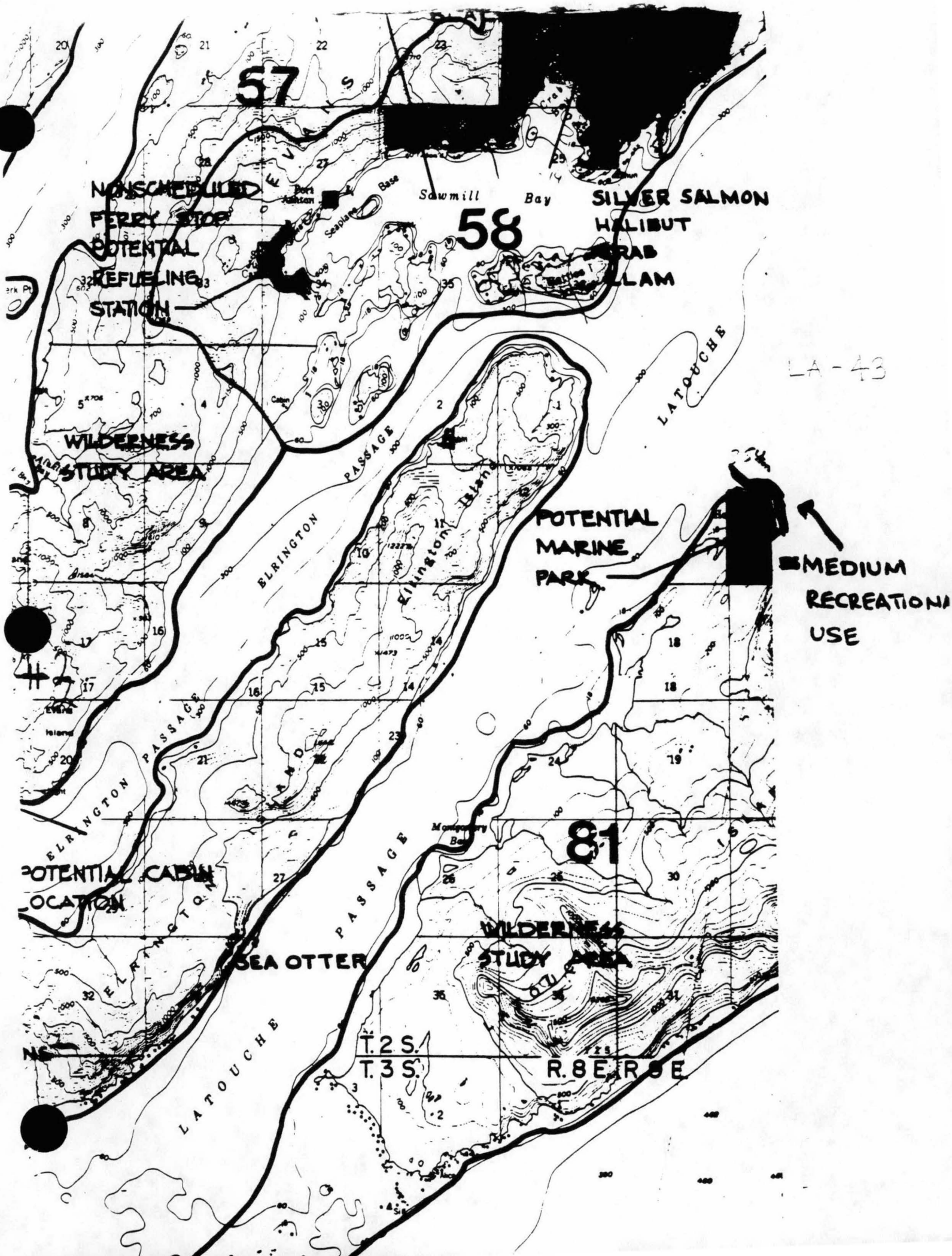
Observer(s) P. BUCK

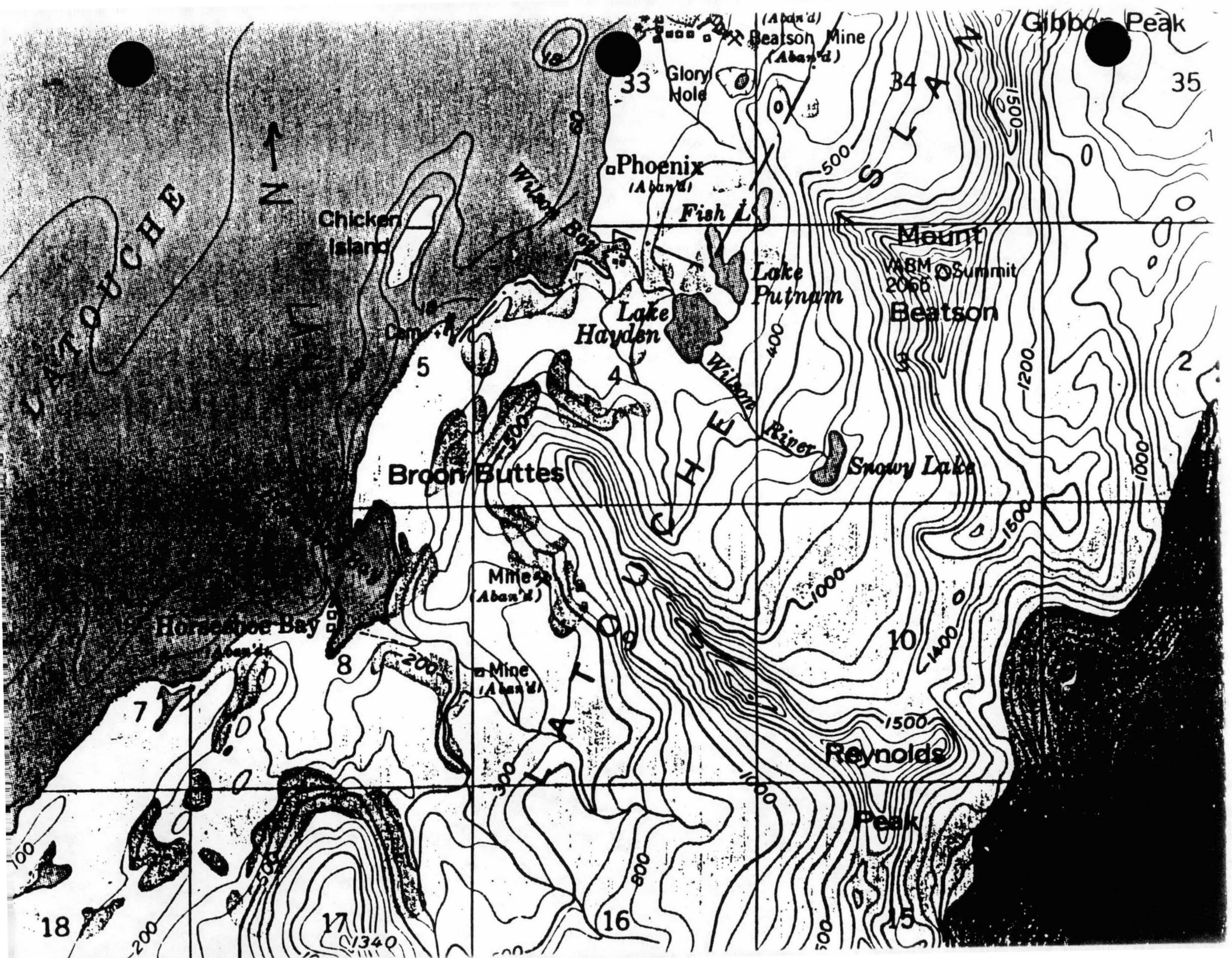
Time survey started 0745 Time survey ended 0800

Cultural resource considerations/restraints:

IF CLEANUP IS RECOMMENDED, SEGMENT LA-43 SHOULD BE RE-EXAMINED BY A SCAT ARCHAEOLOGIST.

NOTE: HORSESHOE BAY (LA-43) WAS NOT PHYSICALLY INSPECTED BY THE SCAT TEAM. ON 8/14/89, WE ENTERED HORSESHOE BAY AND NOTED 2 BLACK BEARS FEEDING IN THE STREAM. THE BIO (PATTY CRANK) ADVISED AGAINST GOING INTO THE BAY, SO IT WAS BY-PASSED. DAN MANN ON 8/20/89 RECOMMENDED THAT WE FILL OUT A FORM FOR HORSESHOE BAY - LA-43. THIS WAS DONE ON 8/20/89.


57
58
81
NONSCHEDULED
FERRY STOP
POTENTIAL
REFUELING
STATION
Sawmill Bay
SILVER SALMON
HALIBUT
CRAB
CLAM
LA-43
WILDERNESS
STUDY AREA
ELRINGTON PASSAGE
LATOUCHE
POTENTIAL
MARINE
PARK
MEDIUM
RECREATIONAL
USE
POTENTIAL CABIN
LOCATION
SEA OTTER
WILDERNESS
STUDY AREA
T. 2 S.
T. 3 S.
R. 8 E.
R. 9 E.


Gibbon Peak
(Aban'd)
Beatson Mine
(Aban'd)
Glory Hole
33
34
35
Phoenix
(Aban'd)
Fish L.
Chicken Island
Wilson Bay
Lake Putnam
Lake Hayden
Mount Beatson
WBM Summit 2065
Wilson River
Snowy Lake
Broon Buttes
Mine
(Aban'd)
Horseshoe Bay
(Aban'd)
Mine
(Aban'd)
Reynolds Peak
5
4
3
2
8
7
10
18
17
16
15
1340
1500
1200
1000
500
400
200
100
600
1400

(version 5/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Danger Island Block

Includes Shoreline Segments: DA-1, DA-2

Submitted : _____ Date: 7/17/89
(for Exxon)

ISCC ~~Approval~~ Recommendation: Sherm K. Christopher Date: 8/2/89

FOSC Approval: _____ Date: 8/2/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

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KA 9/2

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/15/89 SHORELINE SEGMENT DA-1

LOCATION: (see enclosed map) Northeast shore - Danger Island, southwest tip of LaTouche Island, PWS

ADEC NO._____ SHORELINE ASSESSMENT DATE: 7/11/89

Recommended Cleanup Activity(ies):
If access is possible:
- Manually remove contaminated drift material (fucus) and manually harvest contaminated fucus.
- Break up and remove, if possible, incipient oil pavement on low angle, fine grained beaches.
- Use moderate to high pressure warm to hot water washing on rock and oiled logs.
- Use other approved methods as appropriate.

Priorities Considerations:
Class 2-3: heavy to moderate oil
Class B: resources present

Ecological Constraints (from site survey):
Work at mid tide + or take appropriate measures to protect lower intertidal zone. In cleanup "access corridor", avoid disturbing offshore seal haulouts, seabird roosts, kelp beds and eelgrass beds. Restrict cleanup to manual methods in locations 4 & 5 and limit access and number of people due to ecologically rich and unoiled intertidal/splash zone. Avoid recontamination of shallow subtidal communities during cleanup of location 1, 2 and 3. Removal of heavily oiled fucus is recommended.

Archeological Constraints (from site survey):
If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

_____ Date: July 1989
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson Date: 8-2-89

EXXON: _____ Date: August 2, 1989

FOSC: _____ Date: 8-2-89

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

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/15/89 SHORELINE SEGMENT DA-2

LOCATION: (see enclosed map) Danger Island, southwest tip of LaTouche Island, PWS

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/11/89

Recommended Cleanup Activity(ies):
Access is difficult here due to the high wave energy rocky coastline. If access is possible:
- Manually remove contaminated drift material (fucus), oiled fucus in holdfasts, and patches of mousse.
- Use moderate to high pressure warm to hot water washing on rock and oiled logs.
- 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. Avoid disturbing Harbor Seal and Steller Sea Lion haulouts in crew access corridors. Removal of oiled fucus is recommended to minimize contamination of rich, unoiled subtidal and intertidal zones if access permits. Limit numbers of people and equipment to minimize impacts on lower and subtidal zones. Seabird Colony present - see advisory.

:c 8/2/89
6 August 2 89

Archeological Constraints (from site survey):
If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

[signature] Date: July 18, 89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson Date: 8-2-89

EXXON: [signature] Date: August 2, 1989

FOSC: [signature] Date: 8-2-89

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

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): DANGER ISLAND BLOCK

8/29/89 (REASSESSED)

Includes Shoreline Segments: DA-02R

Submitted : [signature] Date: 8-29-89
(for Exxon)

ISCC Recommendation: Sharon K. Christopherson Date: 9-1-89

FOSC Approval: [signature] Date: 9-1-89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

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(version 08/02/89)

SHORELINE CLEANUP REASSESSMENT

DATE 8/29/89 SHORELINE SEGMENT: DA-02R

REASSESSMENT DATE 8/24/89

PURPOSE FOR REASSESSMENT "Six weeks since initial assessment"

Revised Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to high wave exposure and extremely poor access.

Priorities Considerations:
Class 3: Moderate
Class A: Resources present

Revised Ecological Constraints:
Work at mid tide + or take appropriate measures to protect lower intertidal zone. Avoid disturbing Harbor Seal and Steller Sea Lion haulouts in crew access corridors. Limit numbers of people and equipment to minimize impacts on lower and subtidal zones. Seabird colony present, see advisory.

Revised Archeological Constraints:
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. NO UPLAND ACCESS. DJT 9.1. SC 9/1/8

State Historic Preservation Officer * Date: Aug. 29, 89

ISCC: Sharon K Christopherson Date: 9-1-89

EXXON: Daniel D Tufts Date: 9.1.89

FOSC: R S McCullin Date: 8-1-89

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

L. Dixon
G. Chaney
J. Tarpley

(version 6/05/89)

SHORELINE CLEANUP REASSESSMENT

DATE Aug 24 1989 SHORELINE SEGMENT DA-2R

ADEC NO. _____ REASSESSMENT DATE: Aug 24 1989

Revised Recommended Cleanup Activity(ies):
Site A as identified on original segment report sketch map was re-surveyed. Over all segment oiling appeared to have remained nearly the same as originally reported. Mousse seemed to have weathered since original survey. Due to difficult access bioremediation may be the only treatment feasible at this time.

Revised Ecological Constraints:
No revisions at this time. Ecological evaluation and constraints from original SCAT Report still apply. I strongly suggest that should cleanup crews in this area, that crews be minimized and that cleanup operations occur as late as possible in the season to minimize disturbance to Sea birds colony and principal haulouts

Revised Archeological Constraints:
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.

_____ Date: _____
State Historic Preservation Officer *

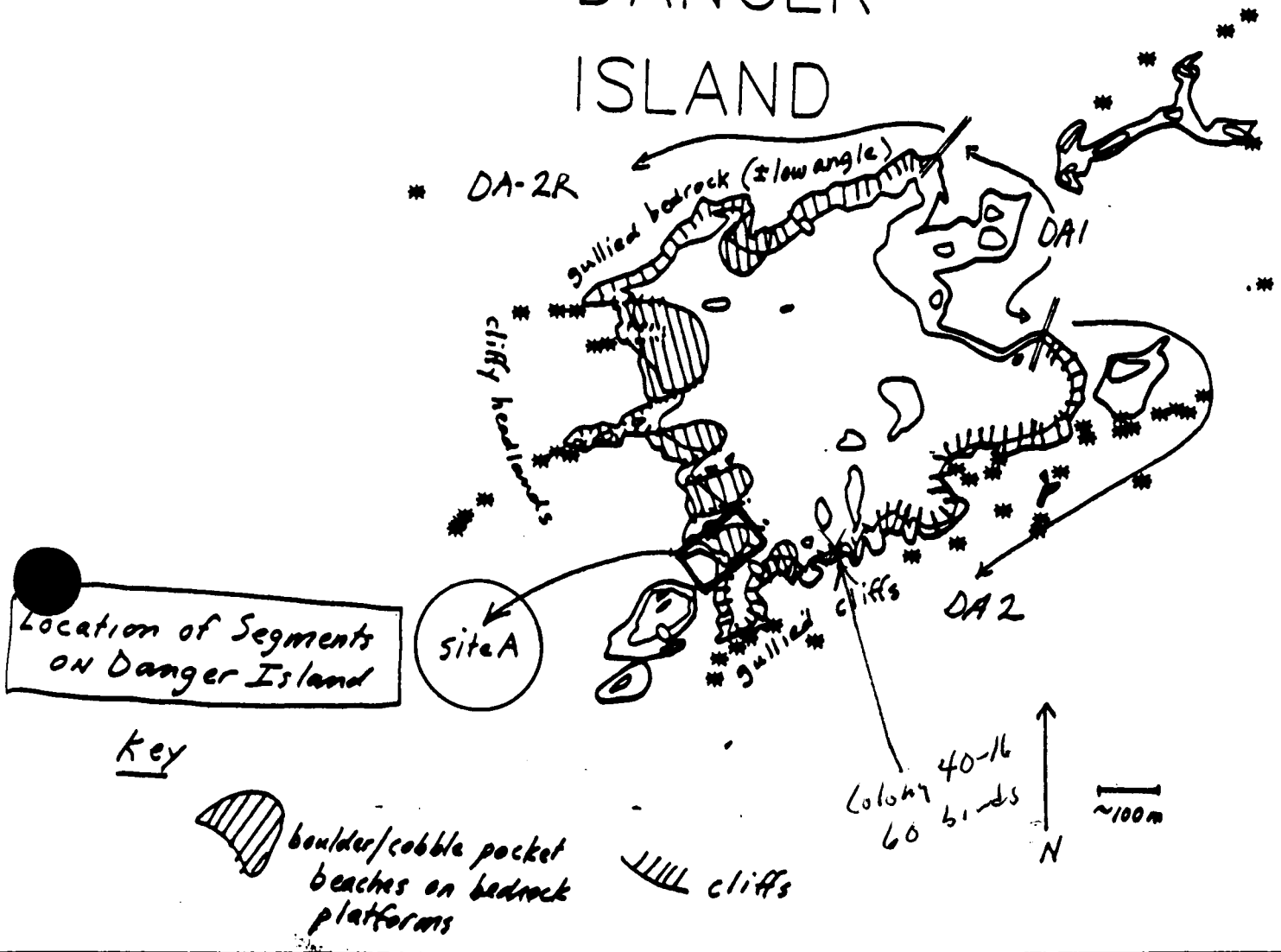
EXXON: _____ Date: _____

FOSC: _____ Date: _____

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

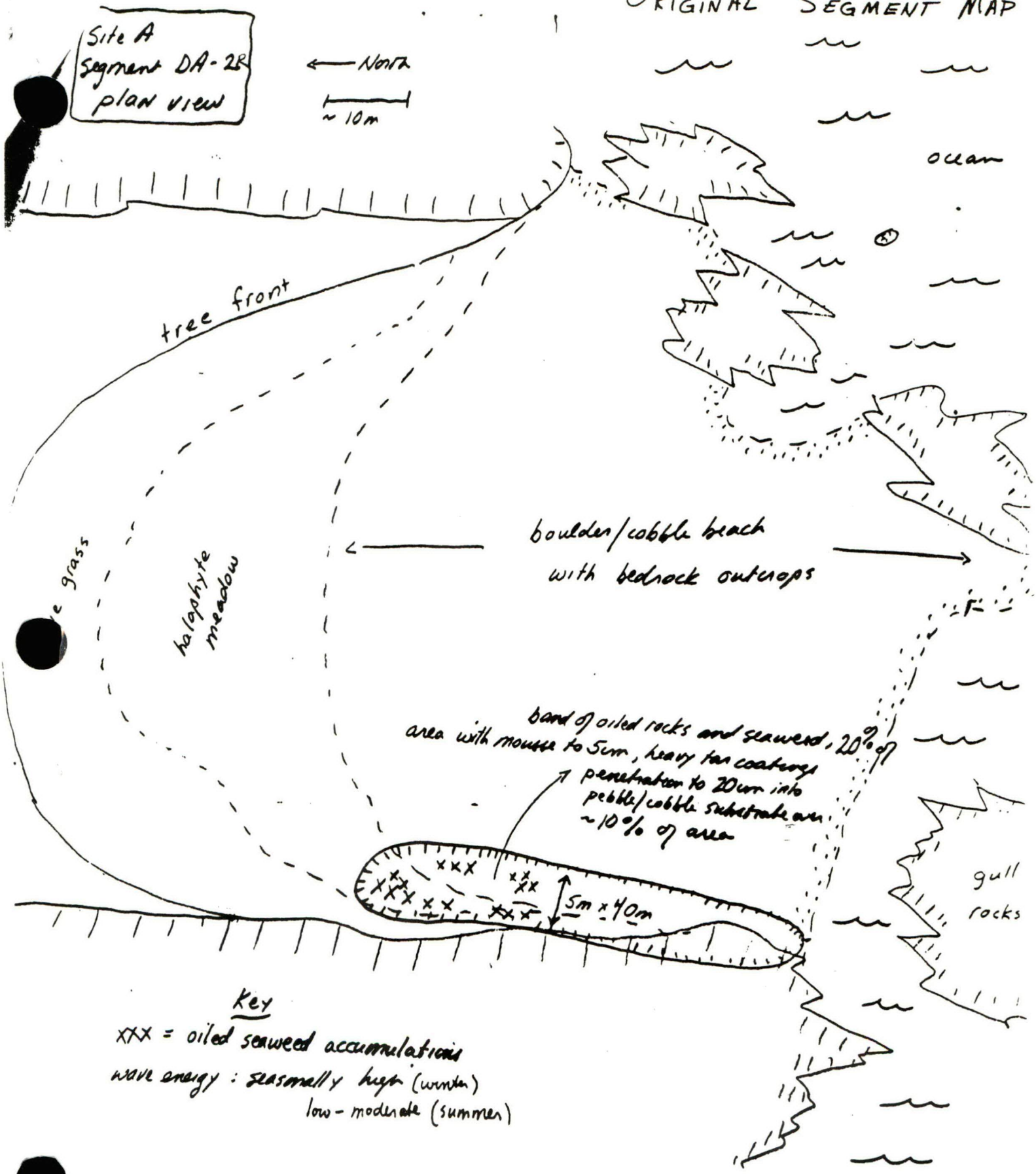
ORIGINAL SEGMENT MAP

DANGER ISLAND



Location of Segments on Danger Island

ORIGINAL SEGMENT MAP



Key

XXX = oiled seaweed accumulations

wave energy : seasonally high (winter)
low - moderate (summer)