

LA-029 ASC: 226-40-16788
Southeast LaTouche Island

ACE 1369643

DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

____ '89 Intertidal Assessment Survey, Sport/Com. Fish
____ '89 Shoreline Clean-Up Program (SAT)
____ '89 Anadromous Fish Stream Authorization, for instream work
____ '89 Stream Treatment Reports
____ '89 Demobilization Reports ____ Bioremediation ____ other
____ '89 RLS Sheet ____ Oil sed. sample ____ Egg sample
____ '89 Fall Walk-a-thon Survey, ADEC
____ '89 Winter Assess. Study Site ____ Winter Stream Survey Form
____ '89 Other Documents _____

____ '90 Pre-Anadscat Survey, multi-assessment form
____ '90 Anadscat Survey
____ '90 Anadromous Fish Stream Evaluation (work order)
____ '90 Anadromous Fish Stream Addendum to work order
____ '90 Shoreline Evaluation, SAT and work order for segment
____ '90 Anadromous Fish Stream Authorization, Title 16 permit
____ '90 Stream Treatment Report
____ '90 ADEC Demobilization Report for Bio
____ '90 ADF&G Oiling Condition Survey, for ASAP use (Aug. Survey)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (____)
____ '90 Other Documents _____

Final Anadromous Stream Treatment Information

Segment ID - Stream ID	NTR	Bio	Bio Start	Bio End	Man	Man Start	Man End
K0911-CD020 262-10-10080					X	6/28/90	6/28/90
K0911-CD020 262-10-10092					X	6/28/90	6/28/90
K0917-CC100 262-15-10040	X						
K0919-HB001 262-20-10040					X	6/12/90	6/14/90
K0919-HB004 262-20-10030	X						
K1002-AB002 262-65-655					X	7/7/90	7/8/90
K1007-PB001 262-70-10025					X	6/23/90	6/24/90
K1007-PB016 262-70-10010					X	7/10/90	7/10/90
K1009-DB008 262-75-10020	X						
KN0103 226-10-16922		X	7/7/90	9/1/90	X	7/7/90	7/7/90
KN0106 226-10-16890					X	6/30/90	6/30/90
KN0110 226-10-16928	X						
KN0120 226-10-16940	X						
KN0129 226-10-16975					X	5/30/90	5/30/90
KN0129 KN0129-UNCAT		X	6/19/90	6/19/90	X	5/30/90	5/30/90
KN0132 226-10-16982		X	6/19/90	9/11/90	X	5/26/90	5/29/90
KN0134 226-30-16865		X	6/23/90	6/23/90	X	6/23/90	6/23/90
KN0201 226-30-16872					X	6/1/90	6/1/90
KN0205 226-30-16860					X	6/1/90	6/3/90
KN0211 226-10-16875		X	7/1/90	7/9/90	X	7/1/90	7/9/90
KN0211 226-10-16880					X	7/1/90	7/1/90
KN0213 226-30-16853		X	7/1/90	7/6/90	X	7/1/90	7/6/90
KN0401 226-30-16820					X	6/30/90	6/30/90
KN0500 226-10-16992		X	7/5/90	9/11/90	X	7/5/90	7/7/90
KN0500 226-10-16996		X	7/7/90	9/11/90	X	7/5/90	7/7/90
KN0601 226-40-16855	X						
KN0602 226-40-16851	X						
KN0602 226-40-16853	X						
KN0701 226-30-16840		X	6/30/90	9/13/90	X	6/30/90	7/27/90
KN0704 226-30-16844	X						
LA015 226-40-16782		X	7/3/90	7/8/90	X	7/3/90	7/8/90
LA018 226-40-16780		X	7/3/90	8/26/90	X	6/15/90	7/4/90
LA021 226-40-16774		X	6/17/90	6/17/90	X	6/13/90	6/14/90
LA021 226-40-16776	X						
LA023 226-40-16772	X						
LA029 226-40-16788	X						
LA031 226-40-16785	X						
MA009 226-20-15044	X						
MN001 227-20-17570	X						
NA026 226-40-12950	X						
NK001 232-21-10230		X	7/3/90	7/4/90	X	7/3/90	7/4/90
PD002 242-42-10450					X	6/21/90	6/23/90
PD003 242-42-10460					X	6/21/90	6/23/90
TB002 232-10-10340					X	7/1/90	7/1/90
TB003 232-10-10342					X	6/20/90	7/1/90
WB001 242-32-10155					X	6/19/90	6/19/90
WB003 242-32-10160					X	6/19/90	6/19/90
WH003 226-40-16322		X	7/8/90	7/8/90	X	7/8/90	7/8/90

CATALOG NUMBER: 2264016788 SEGMENT#: LA029 LOCATION: LATOUCHE ISLAND, SOUTHEAST SIDE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/12/90	PRE-ANADS CAT	1	15 SURFACE			CT AP	
MAD vs. OG: COMMENTS: 15 METER BAND OF TAR AND STAIN. OIL ON STREAM BANKS. UPPER STORM BERM COVERED WITH SNOW.							

CATALOG NUMBER: 2264016788 SEGMENT#: LA029 LOCATION: LATOUCHE ISLAND, SOUTHEAST SIDE							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/20/90	ANADSCAT	1	20 x 100 SURFACE	<1	1 10	ST	
04/20/90	ANADSCAT	2	 SURFACE		10	HOR MS 10-15	
MAD vs. OG: COMMENTS: STAIN ON SCATTERED ROCKS IN ZONE OF INTEREST. ONE PIT IN 4 REVEALED BURIED MOUSSE (5-10 CM BAND OVERLAID BY 10 CM CLEAN SUBSTRATE) NO TREATMENT RECOMMENDED. COMPLETE SKELETON OF DEAD ADULT SEA OTTER. STAIN ON STREAM BANKS.							

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DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/20/90	OG'S ANADSCAT	1	 SURFACE	<1 OFN		ST	SLIGHT SCATTERED STAINING, MITZ IN BETWEEN TWO STREAM CHANNELS AT MOUTH.
04/20/90	OG'S ANADSCAT	2	 SUBSURF		10-15	OF	4 PITS NORTH SIDE OF STREAM. PIT 2 LAYER 10-15CM. OTHER PITS CLEAN.

MAD vs. OG: PIT 2 IN MAD, BURIED MOUSSE, STAINING IN MAD, SOUTH OF BOTH CHANNELS.
COMMENTS:



Pre-ANADSCAT-90 ^{ATW}

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/12/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: _____

4 START TIME: 0711

16 HIGH TIDE HTS: 1

22 OBSERVERS: TOM CROWL

5 STOP TIME: 0725

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG

6 SEGMENT #: LA029

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT. AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

13 LOCATION: _____

14 DESCRIPTION: _____

EXTENT OF OIL

SHORELINE

STREAM

L

W

M²

%

L

W

M²

%

27 SURFACE COVERAGE

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

28 SURFACE THICKNESS

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

29 PENETRATION

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

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y (N)

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 16789

38 STREAM NAME: _____

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

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

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

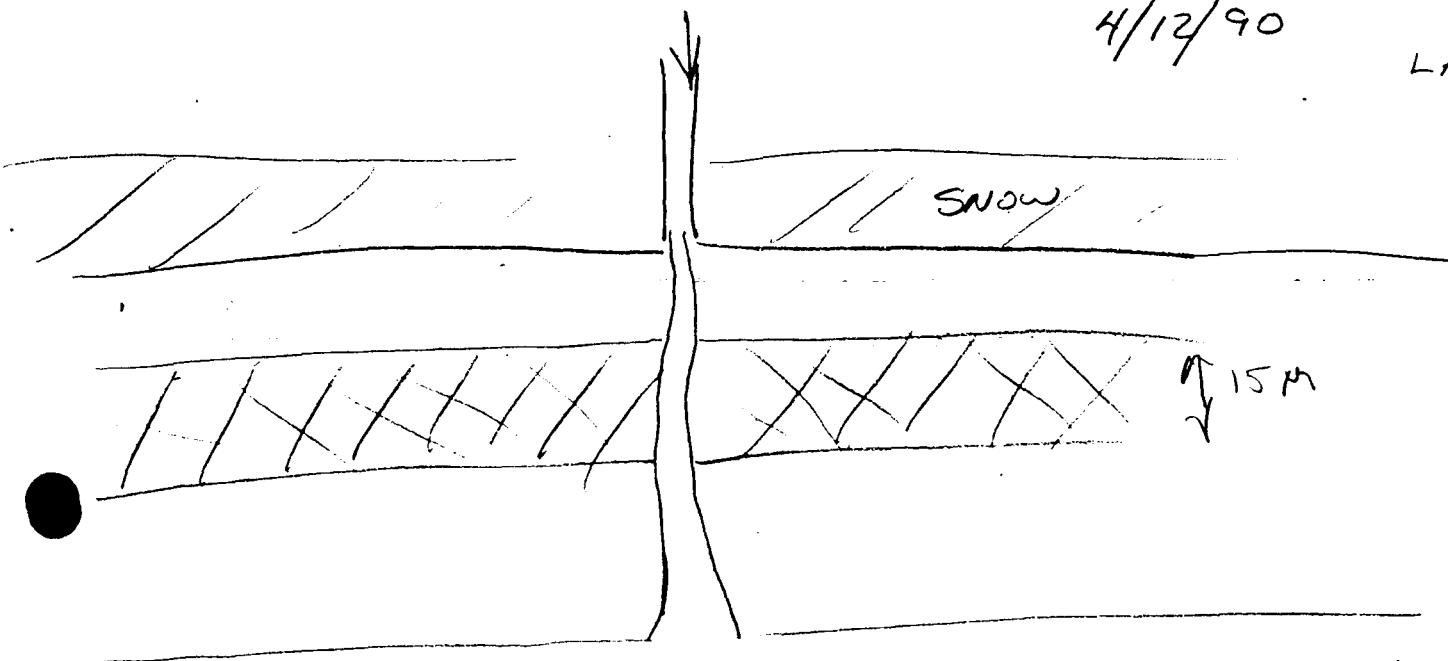
COMMENTS: 15 METER BAND OF TAR & STAIN, UPON STORM
BURN COVERED WITH SNOW

ACE 7379941 +/S

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

ADW
226-40
TC
4/12/90
ASC 16780
LA 29



= Sample taken
= Photo frame # and
shot direction.

ACE 7379942 -15

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

NODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER:

SURVEY TYPE:

METHOD:

DATE: / /

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN? Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	50	15					5/40
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:

CATALOG NUMBER: 2264016788

STREAM NAME:

LOCATION: LATOUCHE ISLAND, SOUTHEAST SIDE

SEGMENT NUMBER: LA029

SHORELINE TYPE:

DATE: 04/12/90 TIME: BEACH-0725

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	15						SURFACE	CT AP	

COMMENTS:

15 METER BAND OF TAR & STAIN. UPPER STORM BERM COVERED WITH SNOW.

STREAM BANKS: YES

MILE OF STREAM: YES

OIL ON
OIL WITHIN 1

CATALOG NUMBER: 2264016788

STREAM NAME:

LOCATION: LATOUCHE ISLAND, SOUTHEAST SIDE

SEGMENT NUMBER: LA029

SHORELINE TYPE:

DATE: 04/20/90 TIME: BEACH-1530

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1 2	20	100		<1	1	10 10	SURFACE SURFACE	ST HOR MS	

COMMENTS:

STAIN ON SCATTERED ROCKS IN ZONE OF INTEREST. ONE PIT IN 4 REVEALED BURIED MOUSSE (5-10 CM BAND OVERLAID BY 10 CM CLEAN SUBSTRATE) NO TREATMENT RECOMMENDED.

COMPLETE SKELETON OF DEAD ADULT SEA OTTER. FRY PRESUMED.

BANKS: YES, STAIN

STREAM: YES

OIL ON STREAM
OIL WITHIN 1 MILE OF

1 : ANADOMAT 40

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/12/90

15 HIGH TIDE TIMES: 1

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7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number _____

12 SOURCE: Map Loran

13 LOCATION: _____

14 DESCRIPTION: _____

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

SHORELINE

STREAM

L	W	M ²	%	L	W	M ²	%

27 SURFACE COVERAGE

28 SURFACE THICKNESS

29 PENETRATION

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

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(within 50 meters)

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

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: 15 METER BAND OF TAR & STAIN, Upper Stream

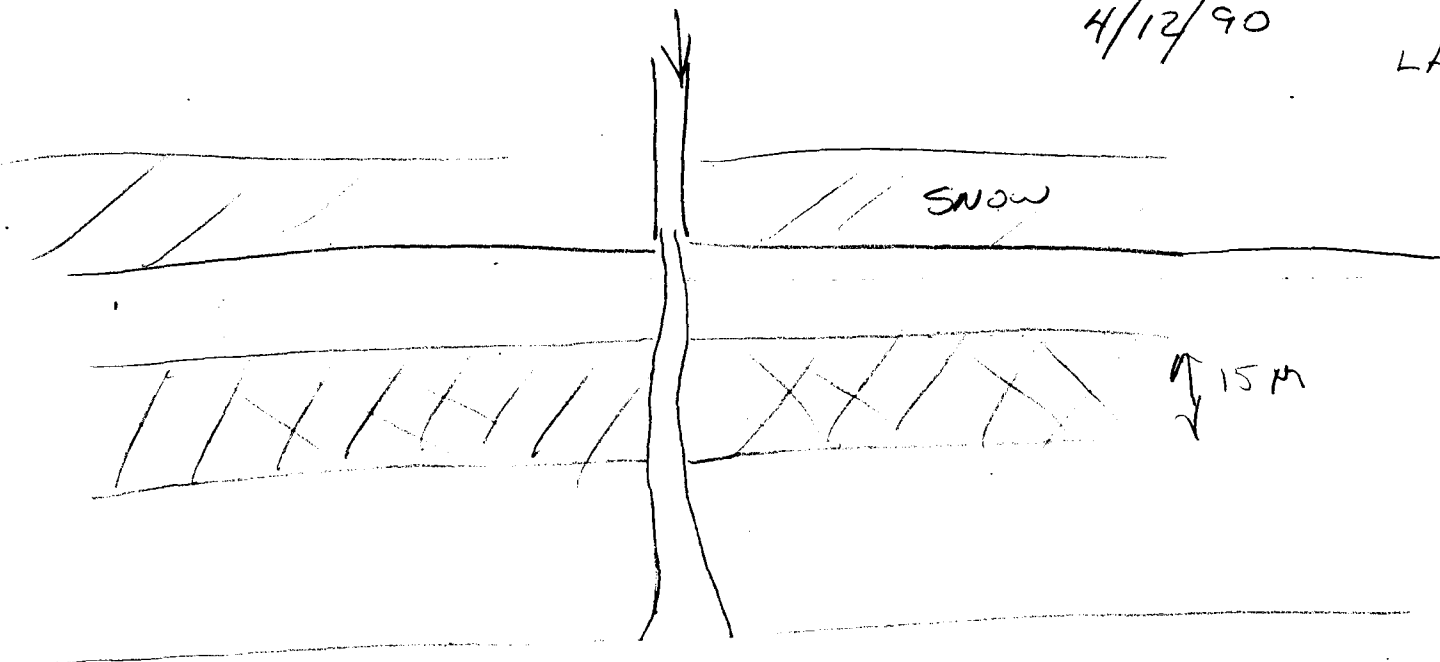
Barren covered with snow

ACE 7379941 +/S

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

ATW
226-40-
TC 16780
4/12/90
LA29



= Sample taken
= Photo frame # and
shot direction.

ACE 7379942 -15

CATALOG NUMBER: 2264016788				SEGMENT#: LA029	LOCATION: LATOUCHE ISLAND, SOUTHEAST SIDE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS	
04/12/90	PRE-ANADS CAT	1	15 SURFACE			CT AP	Both sides of stream - MITZ	

MAD vs. OG:

COMMENTS:

15 METER BAND OF TAR AND STAIN. OIL ON STREAM BANKS. UPPER STORM BERM COVERED WITH SNOW.

CATALOG NUMBER: 2264016788				SEGMENT#: LA029	LOCATION: LATOUCHE ISLAND, SOUTHEAST SIDE			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS	
04/20/90	ANADSCAT	1	20 x 100 SURFACE	21 11-50	1 mm 10	ST	Both sides of stream - throughout ITZ - scattered stain	
04/20/90	ANADSCAT	2	SURFACE subsurface		10 5-10cm 10-15cm	HOR MS	North side of stream - small area of subsurface oil overlaid by clean substrate.	

MAD vs. OG:

COMMENTS:

STAIN ON SCATTERED ROCKS IN ZONE OF INTEREST. ONE PIT IN 4 REVEALED BURIED MOUSSE (5-10 CM BAND OVERLAID BY 10 CM CLEAN SUBSTRATE) NO TREATMENT RECOMMENDED. COMPLETE SKELETON OF DEAD ADULT SEA OTTER. STAIN ON STREAM BANKS.

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04/20/90	OG'S ANADSCAT	2	SUBSURF		10-15	OF	4 PITS NORTH SIDE OF STREAM. PIT 2 LAYER 10-15CM. OTHER PITS CLEAN.	

MAD vs. OG: PIT 2 IN MAD, BURIED MOUSSE, STAINING IN MAD, SOUTH OF BOTH CHANNELS.
COMMENTS:

OG WILLIAM LEID USCG McMAHON MENT ST/ LA-29
 BIO MICHAEL FAWCETT LAND REP STREAM 2264016381 (OF 1)
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 10
 TEAM NO. 15 TIDE LEVEL +3 FT DATE 20 / 100 / 90
 EST. SUBDIVISION LENGTH: 60 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 100 % B 20 % C 30 % P 50 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 50 m NO 10 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	SP	PR	FW	GY	SE	DR	TL	LR	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				X			X								X	
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0 cPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	Z SHEEN (Y/N)	V	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SP	PR	FW	GY	SE	DR	TL	LR	SU	U	M	L				
1	15					X	.													X			N		P/G
2	25				X		10-15	X	X										X				N		P/G
3	25					X	.												X				N		P/G
4	20					X	.													X			N		P/G
							.																		
							.																		

COMMENTS

SLIGHTLY SCATTERED STAINING

OTTER SKULL TAKEN BY Tom Crowe (AD.F.G.)

REVIEWED _____ DATE _____

OG WILLIAM REID

SKETCH MAP

17/49 SEGMENT ST/ LA 29

STREAM 226-40-16788

DATE ____/____/90

CHECKLIST

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

LEGEND

1 

Pit - No Subsurface Oil

2 

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B


ten Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

 Oiled Vegetation

1 

Photo location, direction,
and number

ACE 7379939

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

REVISION: 03/24/90



18/49

Ecologist's summary
Segment LA 29
Stream 226-40-16788

4/20/90

Michael Fawcett

Stream mouth lies on a boulder/cobble/
pebble beach. Scattered light stains
of oil were found in MTZ. Dense
Mussels, barnacles, and Fucus occupy
boulders in MTZ-LTZ. No cleanup
recommended. Remains of dead sea
otter found on UTZ berm. No obvious
oil or tag, but all that was left
was skeleton and bits of fur. Skull
collected by Tom Crowe (ADF&G).
Several otters seen feeding near shore.

M H Fawcett

ACE 7379940-15/58

14/49

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

225-42-16788
STREAM
SEG ID: LA 29 SUBDIV: TEAM: AS15 SURVEY DATE: 20/1/90
PAVEMENT: CHAR 0 AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS - VEG - TRH - DBR - WAVE EXP: LW - MD X HG -
FAX RCVD: DT: AGENCY DISAGREE:
EST SUBDIV LGTH: 60 OIL CATEGORY: W 0 M 0 N 0 VL 50 NO 10 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 20 COB 30 PEB 50 GRN 0 SAN 3 MUD 0 VEG 0

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

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

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

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

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

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

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

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: LA-29 SUBDIV: S-226-40-16788

PIT # 1 PIT DEPTH 15 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI - MI X LI -
SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN - MUD - VEG -

PIT # 2 PIT DEPTH 25 OIL CHARACTER OF OIL INTVAL: FROM 10 TO 15
QUANT: UC OIL CLR: - FLM CLR: BR ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN - MUD - VEG -

PIT # 3 PIT DEPTH 25 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN - MUD - VEG -

PIT # 4 PIT DEPTH 20 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: WATER OIL CLR: --- FLM CLR: --- ZONE: SU --- UI --- MI X LI ---
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN - MUD - VEG -

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

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

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

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

PROBLEMS:

FIELD SHORELINE COMMENT SHEET

13/49

SEGMENT ST LA 29 SUBDIVISION: 14788 DATE _____

USCG

NAME CWO2 J. Mc MAISON SIGNATURE J. Mc MAISON

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADFG~~
~~ADEC~~ Michael Wiedner

NAME No Team member SIGNATURE Michael Wiedner

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME No Team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7379935

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD LA-29
 STREAM ID # 226-40-16788
 ANNOTATED MAP INCLUDED Y(N)

DATE 4-20-90
NAME GARCIA
TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
					Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	SPORADICALLY		NONE						
Medium Band	STAINED	LESS THAN								
Narrow Band	170									
Very Light										
TOTAL MANDAYS					0		0		0	

SUBSURFACE OIL YES - LIGHT FILM (10-15CM IN DEPTH) ONLY IN PIT #2.

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	NONE								
Area #2									
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
"Pocket" #1		NONE						
"Pocket" #2								
"Pocket" #3								
Random/Continuous								

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

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

GENERAL

Snow covering 10% of the Supratidal Zone?

Wave Exposure H / M / L

Access Limitations: *NONE*

Snare Boom/Pom Poms Recommended? *NO*

Would the production Craft have to be relocated to complete work on this subdivision? Y NO, # of Times N/A

COMMENTS:

NO TREATMENT NECESSARY ON THIS STREAM.

19/49

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS SS DS TS AVS SCH HPHS PTA2 REGION: PXS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4/20/9018 HIGH TIDE TIMES: 1207 1230A21 TEAM RECORDER: M. WIEDMER4 START TIME: 150019 HIGH TIDE HTS: 9.0' 9.4'22 OBSERVERS: T. CROWE5 STOP TIME: 153017 LOW TIDE TIMES: 0400 163423 AGENCY: ADF&G6 SEGMENT #: LA-02918 LOW TIDE HTS: 4.5' 1.6'24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: 2.68'

Roll #: _____ Frame: _____

8 K-UNIT: _____

25 VIDEO TAKEN: N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: SEWARD A-3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number _____12 SOURCE: Map Loran

Oil _____

13 LOCATION: S.E. LATOUCHE IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	N	N ²	S	L	N	N ²	S
100	20		<1	20	6		0

36 CATALOGED ANAD. FISH STREAM? Y N37 CATALOG #: 226-40-16788

38 STREAM NAME: _____

28 SURFACE THICKNESS

<1mm				0	0	0
10				0		

39 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? Y N STAIN

29 PENETRATION

30 OVERALL OIL IMPACT: N VL L N N41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS? Y N

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove43 ANADROMOUS FISH PRESENT? Y NFRY PRESUMED34 WAVE EXPOSURE: High Moderate Low44 ANADROMOUS FISH OBSERVATION
Species _____ Aerial _____ Ground _____35 SUBSTRATE TYPE: Bedrock Boulder 33 Cobble 33Gravel 33 Sand Mud/silt

COMMENTS:

STAINS ON SCATTERED ROCKS IN ZONE OFINTEREST. ONE PIT IN A REVEALED BURIED MOUSSE
(5-10 CM BAND OVERLAIN BY 10 CM CLEAN SUBSTRATE)NO TREATMENT RECOMMENDED. COMPLETE SKELETON OF DEADADULT SEA OYSTER

ACE 7379923

48 PHOTOLOG

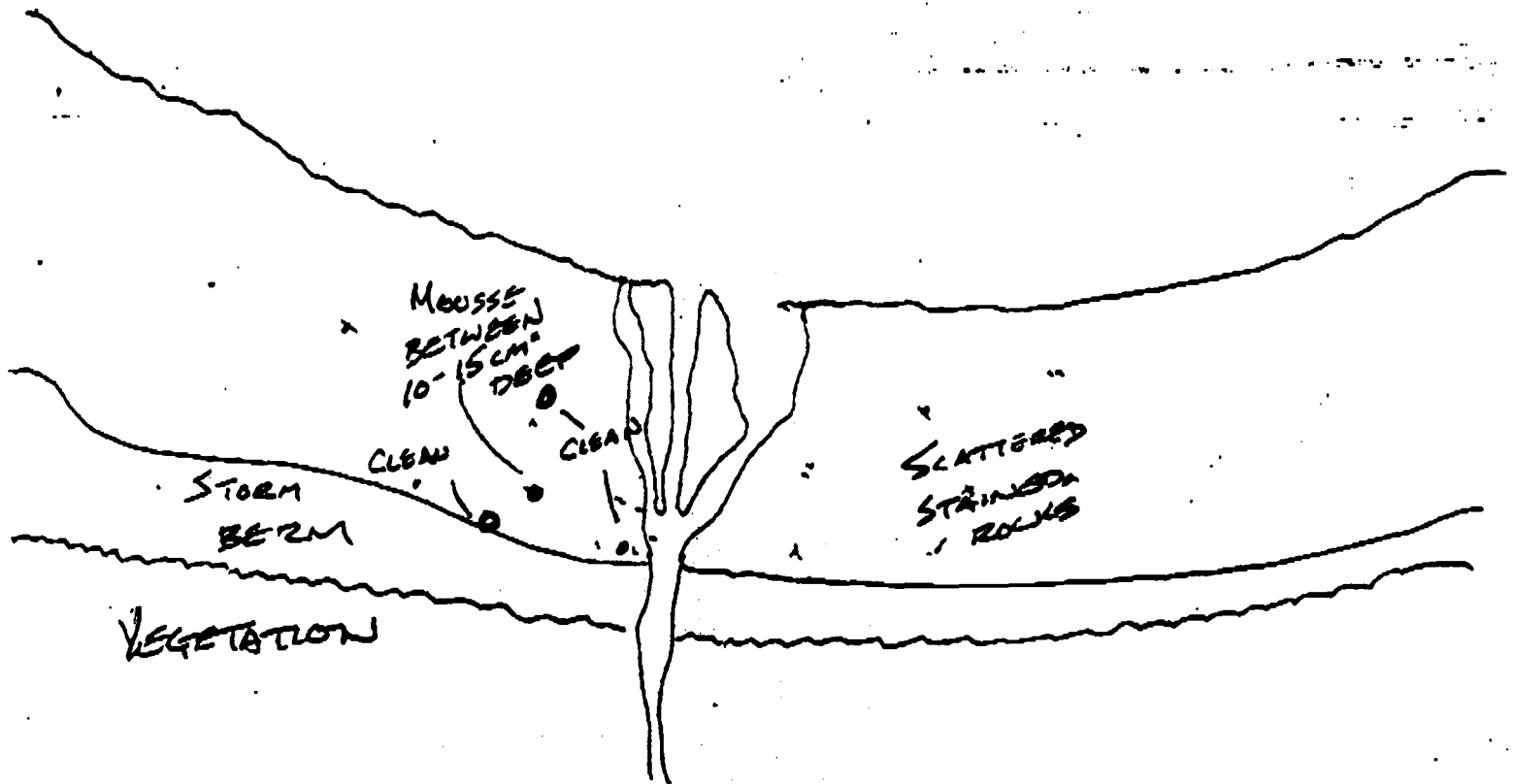
LA-029 24/49
226-40-16788

48 PHOTOLOG

PAGE(9)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



ACE 7379924

18/49

Ecologist's summary
Segment LA 29
Stream 226-40-16788

4/20/90

Michael Fawcett

Stream mouth lies on a boulder/cobble/
pebble beach. Scattered light stains
of oil were found in MTZ. Dense
Mussels, barnacles, and Fucus occupy
boulders in MTZ-LTZ. No cleanup
recommended. Remains of dead sea
otter found on UTZ berm. No obvious
oil or tag, but all that was left
was skeleton and bits of fur. Skull
collected by Tom Crowe (ADF&G).
several otters seen feeding near shore.

M H Fawcett

SHORELINE OILING SUMMARY (ANAD.) 16/49

OG WILLIAM LEID SCG McMAHON SE ENT ST/ LA-29
 BIO MICHAEL FAWCETT LAND REP STRIM 1226 40 16381 OF 1
 EXXON GUS GARCIA ADPG MIKE WIEDNER TIME 10
 TEAM NO. 15 TIDE LEVEL +3 FT DATE 20 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 20 % C 20 % P 50 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 30 m NO 10 m

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0 c

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SHEEN (Y/N)	T	SURFACE SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		10	20	1	2	3	4	SU	M	SL	U				
1	15					X	.								X				N		P/G
2	25				X		10-15	X	X					X					N		P/G
3	25				X		.							X					N		P/G
4	20				X		.							X					N		P/G
							.														
							.														

COMMENTS

SLIGHTLY SCATTERED STAINING

OTTER SKULL TAKEN BY Tom Crowe (AD.F.G.)

REVIEWED JW DATE 4-26-90

OG WILLIAM REID

SKETCH MAP

17/49

SEGMENT ST/ LA 29

STREAM 226-40-16788

DATE / 90

CHECKLIST

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

LEGEND

1 Δ

Pli - No Subsurface Oil

2 Δ

Pli - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Open Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

eee

Oiled Vegetation

1 \rightarrow

Photo location, direction,
and number



ACE 7379931

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

REVISION: 03/24/90

FIELD SHORELINE COMMENT SHEET

13/49

SEGMENT ST / CA 29 SUBDIVISION: 16788 DATE _____

USCG
NAME W02 L. MC MARTIN SIGNATURE J. McMartin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~APR 14~~
~~ADCO~~ NAME Michael W. Wooten SIGNATURE Michael W. Wooten

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER
NAME no team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7379919

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

20 April 1990

ASC # 226-40-16785

Segment LA-031

Observations Very light stain on surface armor observed more than 50 yards north of stream. One partially oiled drift log observed on storm berm south of stream. No buried oil observed in test pits. No other visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16788

Segment LA-029

Observations Scattered stained surface cobbles and boulders found throughout anadromous fish stream zone. One out of four test pits revealed a layer of buried mousse 5 to 10 cm thick underneath 10 cm of clean substrate. Results from other pits indicate that this mousse layer was restricted to a small area.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16776

Segment LA-021

Observations Stain and some light tar and light mousse scattered through anadromous fish stream zone. No significant quantities of buried oil observed.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ANADI OUS FISH STREAM EVALUATIC

SEGMENT ST/ LA-29 STREAM NO: 226-40-16788 DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

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

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes X No _____ Maximum Depth 15 cm

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

Alaska Department of Fish and Game

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

20 April 1990

ASC # 226-40-16785

Segment LA-031

NT
1
Observations Very light stain on surface armor observed more than 50 yards north of stream. One partially oiled drift log observed on storm berm south of stream. No buried oil observed in test pits. No other visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16788

Segment LA-029

0
1
Observations Scattered stained surface cobbles and boulders found throughout anadromous fish stream zone. One out of four test pits revealed a layer of buried mousse 5 to 10 cm thick underneath 10 cm of clean substrate. Results from other pits indicate that this mousse layer was restricted to a small area.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16776

Segment LA-021

1
0
Observations Stain and some light tar and light mousse scattered through anadromous fish stream zone. No significant quantities of buried oil observed.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ACE 7379943

16788

N

LA029

500.0

walk-a-thon

OILING

H - Heavy
M - Moderate
L - Light
VL - Very Light
N - None
NS - Not Surveyed

Distance In Meters

N

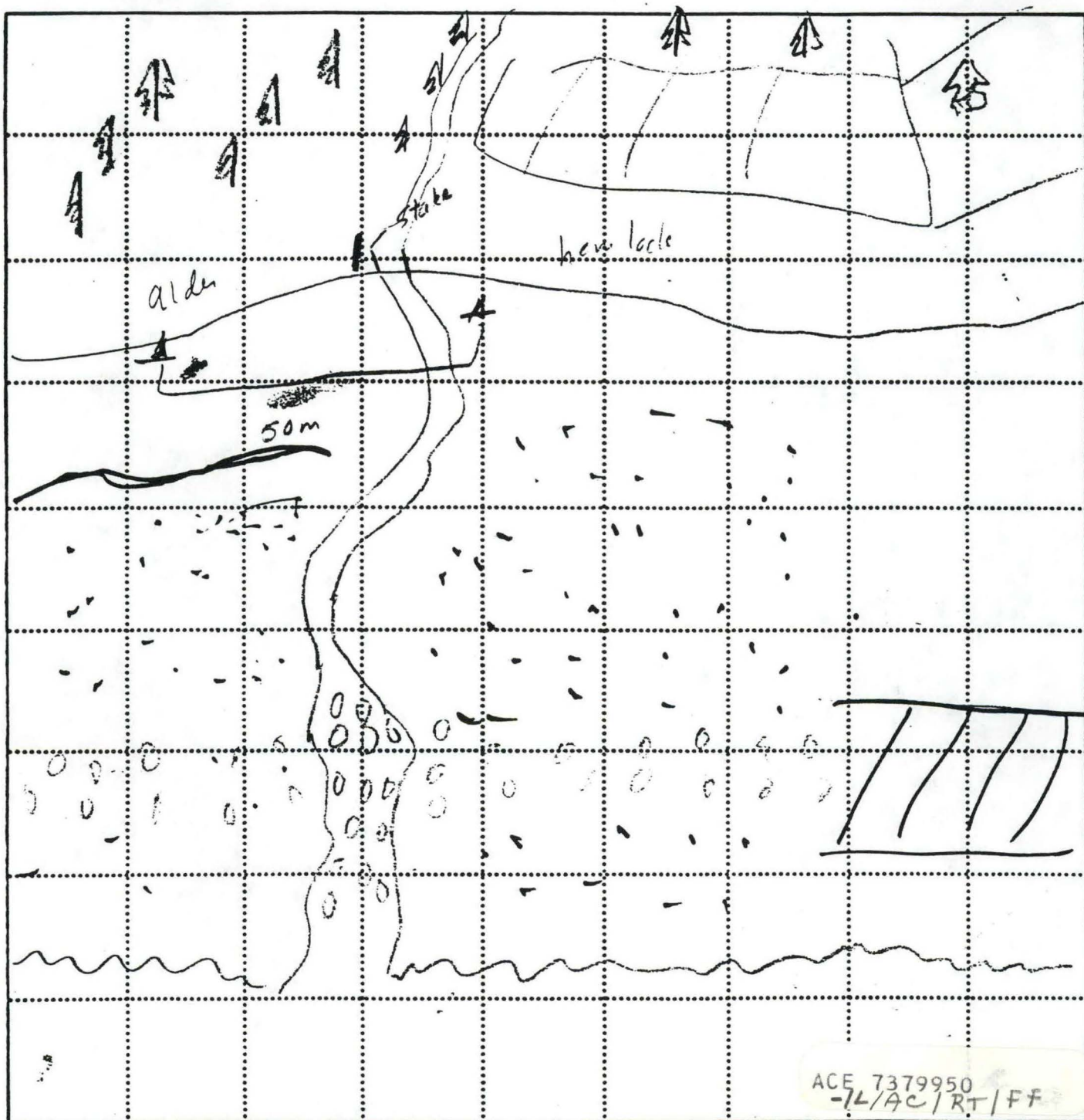
ASSESSMENT OF INTERTIDAL SPAWNING AREAS AFFECTED BY THE PRINCE WILLIAM SOUND OIL SPILL

NAME: Labucka E side
USGS MAP: Seward A-3
MAP #:
DATE: 4/18
TIME OF SURVEY: 17-30
LOW TIDE 71.3 TIME 1857
COLLECTORS: DR + SM

LA-29

NO OIL
SHEEN
MOUSSE
BLACK OIL

OIL TYPES PRESENT (1 2 3 4)
PHOTO #: 30+31 Roll #7
STREAM CATALOG #: 16779 NOW
SCALE: ONE GRID EQUALS 16782



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

COMMENTS:

oil penetration varied 2 inches from 2+ feet & 1 pt this note on #16785 also

19/49

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/20/90

15 HIGH TIDE TIMES: 1007 1 2304

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1500

16 HIGH TIDE HTS: 9.0' 1 9.4'

22 OBSERVERS: T. CROWE

5 STOP TIME: 1530

17 LOW TIDE TIMES: 0400 1 1634

23 AGENCY: ADF&G

6 SEGMENT #: LA-029

18 LOW TIDE HTS: 4.5' 1 1.6'

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: 2.68'

Roll #: Frame:

8 K-UNIT:

Ebb Stack Flood Slack

25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA:

20 USCG QUAD: SEWARD A-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION: S.E. LATOCHIE IS.

14 DESCRIPTION:

Oil

Sediment

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	20		<1	20	6		0
28 SURFACE THICKNESS	<1mm				0	0		0
29 PENETRATION	10				0			

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-40-16788

38 STREAM NAME:

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N STAIN

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder 33 Cobble 33

Gravel 33 Sand Mud/silt

Where:

43 ANADROMOUS FISH PRESENT? Y N

FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

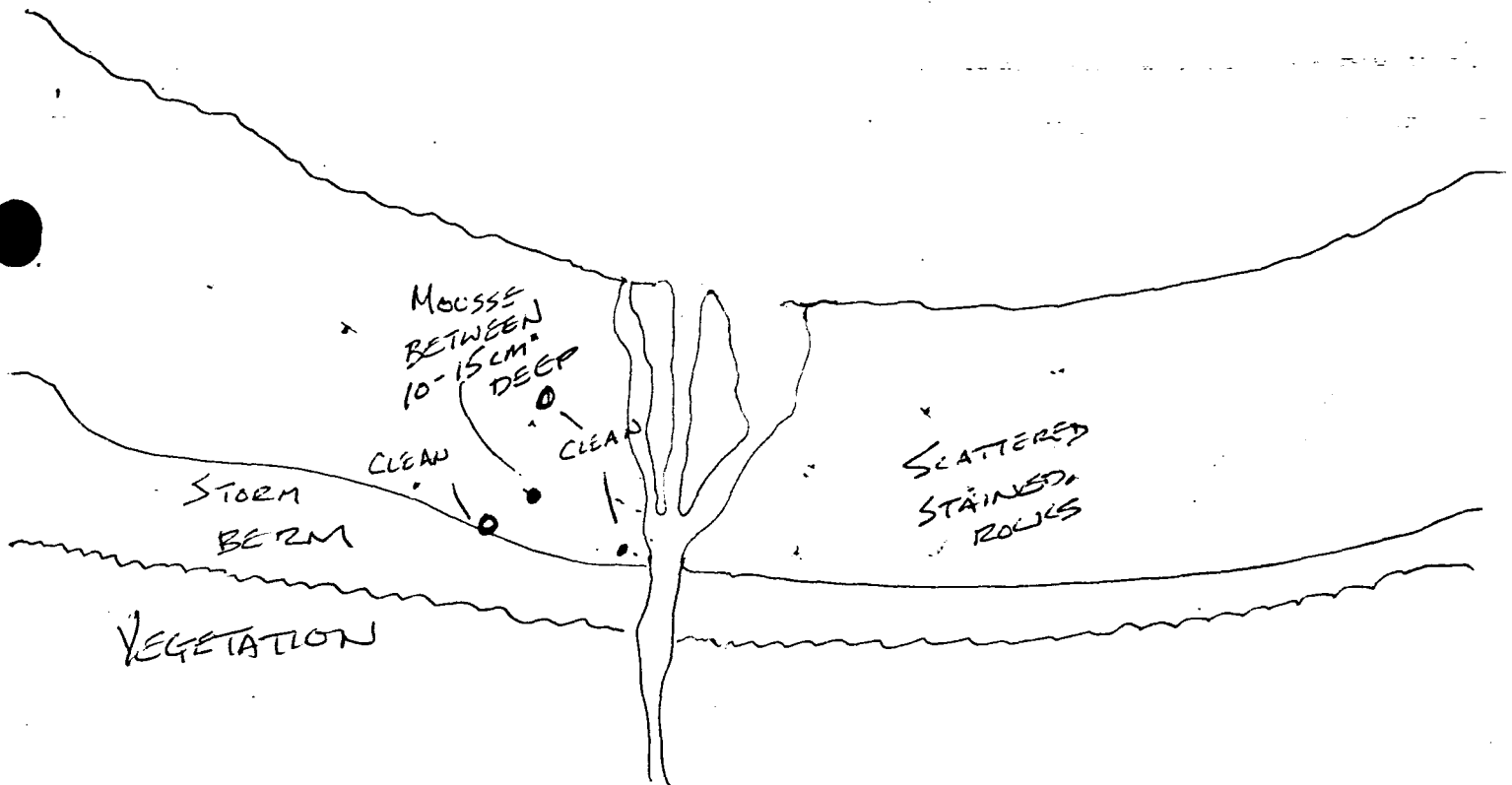
Species Aerial Ground

COMMENTS: STAINS ON SCATTERED ROCKS IN ZONE OF
INTEREST. ONE PIT IN A REVEALED BURIED MOUSSE
(5-10 CM BAND OVERLAIN BY 10 CM CLEAN SUBSTRATE)
NO TREATMENT RECOMMENDED. COMPLETE SKELETON OF DEAD
ADULT SEA OTTER

ACE 7379933+S/SL

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
ODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL: S
SHORELINE TYPE:	ALL SEGMENTS:	

ASC NUMBER:
 SURVEY TYPE:
 METHOD:
 DATE: / /
 START TIME:
 STOP TIME:

TEAM RECORDER:
 OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN? Tape Number:

Counter Start:

WAVE EXPOS:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.
 4.

2.
 5.

3.
 6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	100	20		<1	1	10	SP
SITE 2	20	6			1	10	400/MS
SITE 3							MS
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE	
Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS:

19/49

ADF&G MULTI-ASSESSMENT DATA FORM

ANADSCAT 90

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/20/90

15 HIGH TIDE TIMES: 1007 , 2304

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1500

16 HIGH TIDE HTS: 9.0' , 9.4'

22 OBSERVERS: T. CROWE

5 STOP TIME: 1530

17 LOW TIDE TIMES: 0400 , 1634

23 AGENCY: ADF&G

6 SEGMENT #: LA-029

18 LOW TIDE HTS: 4.5' , 1.6'

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: 2.68'

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA:

20 USCG QUAD: SEWARD A-3

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

Oil

13 LOCATION: S.E. LATOCHÉ Is.

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	20		<1	20	6		0
28 SURFACE THICKNESS	<1mm				0	0		0
29 PENETRATION	10				0			

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-40-16788

38 STREAM NAME:

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N STAIN

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

Where:

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Boulder 33 Cobble 33

Gravel 33 Sand Mud/silt

COMMENTS: STAINS ON SCATTERED ROCKS IN ZONE OF
INTEREST. ONE PIT IN A REVEALED BURIED MOUSSE
(5-10 CM BAND OVERLAIN BY 10 CM CLEAN SUBSTRATE)
NO TREATMENT RECOMMENDED. COMPLETE SKELETON OF DEAD
ADULT SEA OTTER

ACE 7379933+S/SH

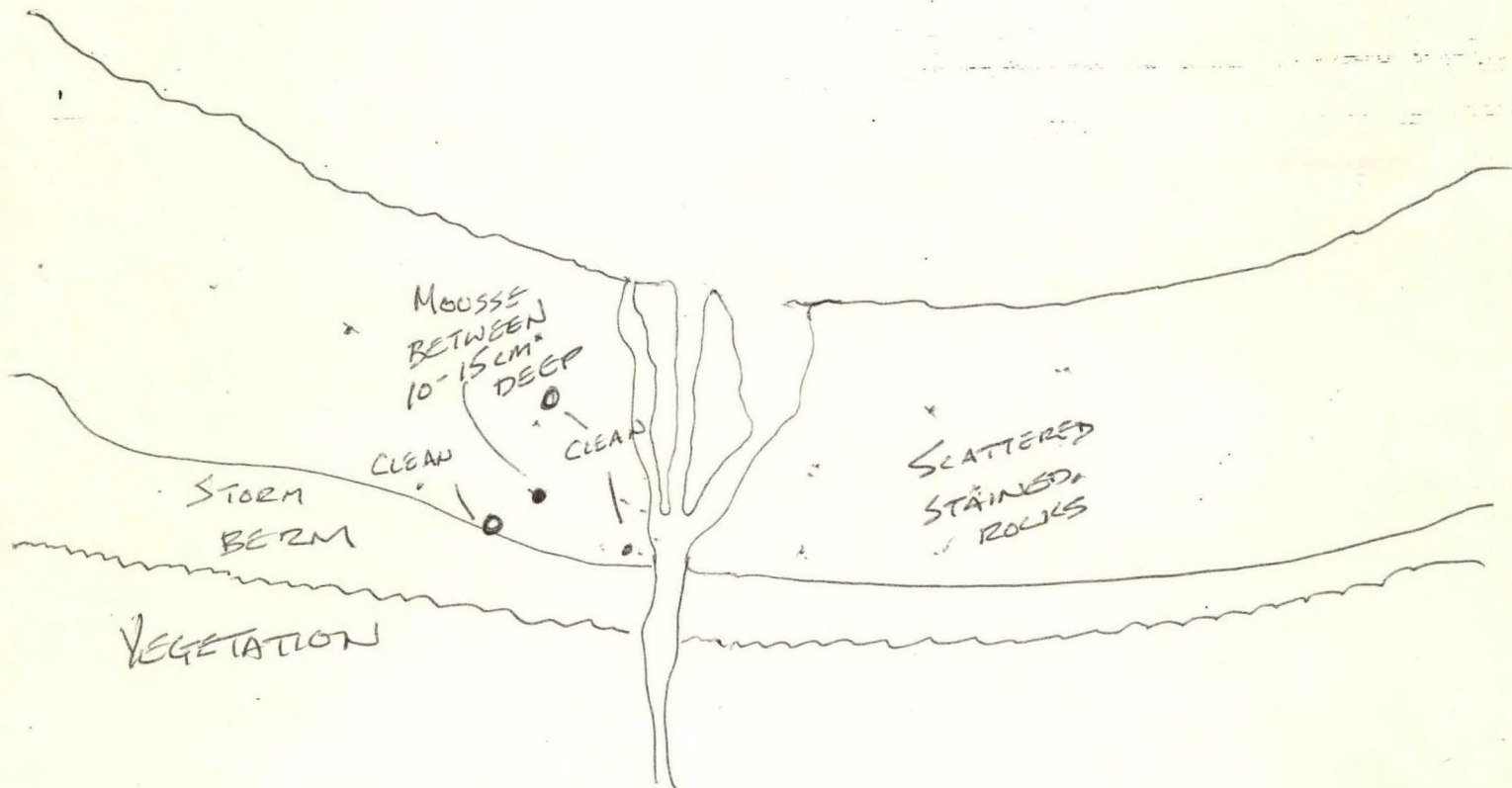
LA-029 20/49
226-40-16788

45 PHOTOLOG

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

ACE7379933/B
-13

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

20 April 1990

ASC # 226-40-16785

Segment LA-031 ✓

Observations Very light stain on surface armor observed more than 50 yards north of stream. One partially oiled drift log observed on storm berm south of stream. No buried oil observed in test pits. No other visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16788

Segment LA-029

Observations Scattered stained surface cobbles and boulders found throughout anadromous fish stream zone. One out of four test pits revealed a layer of buried mousse 5 to 10 cm thick underneath 10 cm of clean substrate. Results from other pits indicate that this mousse layer was restricted to a small area.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16776

Segment LA-021

Observations Stain and some light tar and light mousse scattered through anadromous fish stream zone. No significant quantities of buried oil observed.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

OG WILLIAM LEID USCG McMAHON ELEMENT ST/ LA-29
 BIO MICHAEL FAWCETT LAND REP STREAM 226401638 OF LA-29
 EXXON GUS GARCIA ADPG MIKE WIEDMER Time 10
 TEAM NO. 15 TIDE LEVEL +3 FT DATE 20 / 1 / 90
 EST. SUBDIVISION LENGTH: 60 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 100 % B 20 % C 30 % P 50 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 50 m NO 10

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	S	P	S	SP	PR	FW	GY	BL	OR	TL	LR	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				X			X								X	
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 0 BAC

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	V	SURFACE SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SP	PR	FW	GY	BL	OR	TL	LR	SU	U	M	U				
1	15					X	-													X			N		P/G
2	25				X		10-15	X	X										X				N		P/G
3	25					X	-												X				X		P/G
4	20					X	-													X			X		P/C
							-																		
							-																		

COMMENTS

SLIGHTLY SCATTERED STAINING

OTTER SKULL TAKEN BY Tom Crowe (AD.F.G.)

REVIEWED _____ DATE _____

APR-21-1990 10:44 FROM EXXON CMD CORDOVA TO EXXON OPS P.18

SKETCH MAP

OG WILLIAM REID

17/49 SEGMENT ST/ LA 29

STREAM 22640-16788

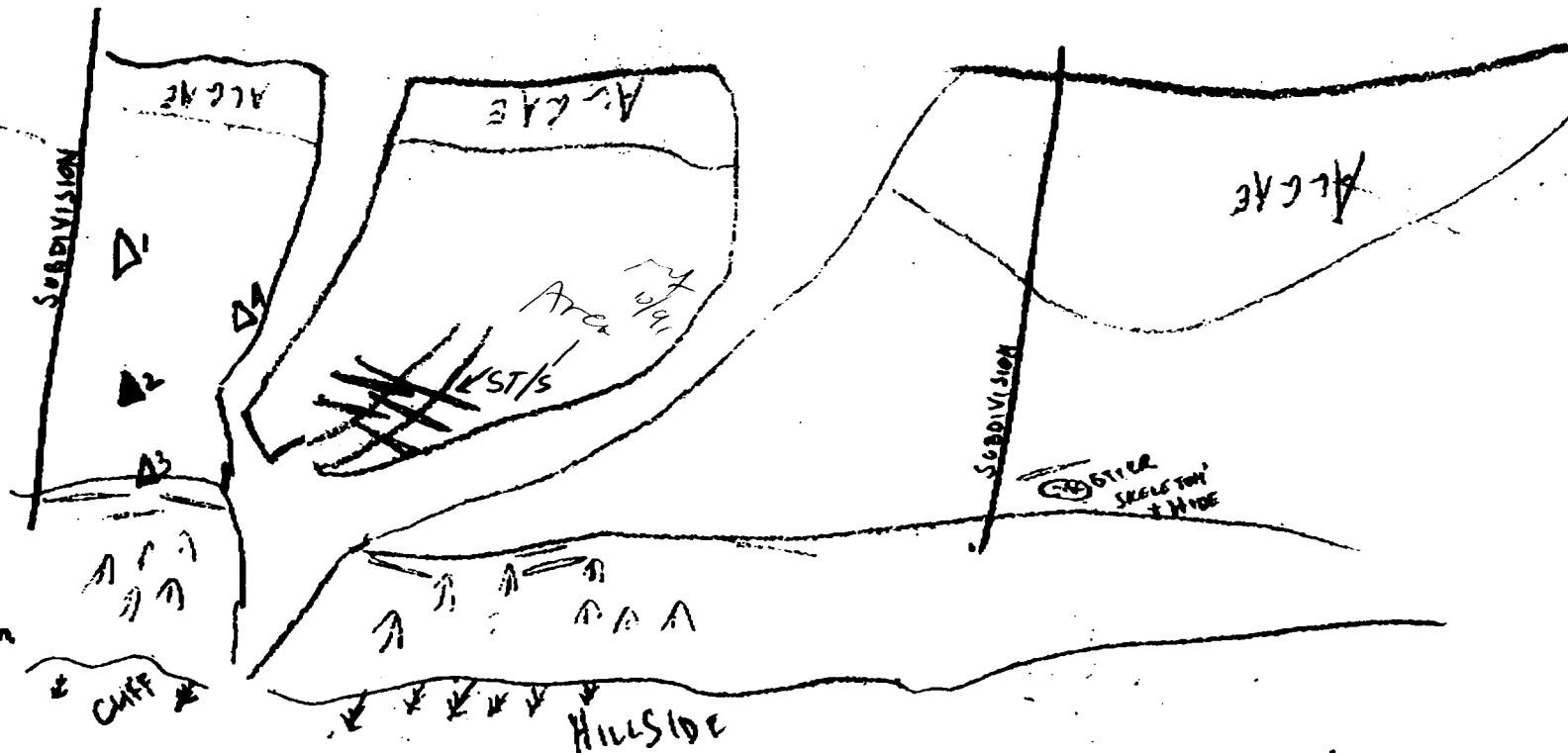
DATE 1 / 90

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PT Location(s)
- ☐ Photo Location(s)

LEGEND

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



ACE 7379922

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

REVISION:000000

18/49

Ecologist's summary
Segment LA 29
Stream 226-40-16788

4/20/90

Michael Fawcett

Stream mouth lies on a boulder/cobble/
pebble beach. Scattered light stains
of oil were found in MTZ. Dense
Mussels, barnacles, and Fucus occupy
boulders in MTZ-LTZ. No cleanup
recommended. Remains of dead sea
otter found on UTZ berm. No obvious
oil or tag, but all that was left
was skeleton and bits of fur. Skull
collected by Tom Crowe (ADF&G).
Several otters seen feeding near shore.

M H Fawcett

OPERATIONS FIELD NOTE

See Back for Instructions

12/49

SEGMENT ID ANAD LA-29
STREAM ID # 226-40-16788
ANNOTATED MAP INCLUDED Y(N)

DATE 4-20-90
NAME GARCIA
TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
	Length	Width	Area		Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	SPORADICALLY		NONE						
Medium Band	STAINED.	LESS THAN								
Narrow Band	170									
Very Light										
TOTAL MANDAYS					0		0		0	

SUBSURFACE OIL YES - LIGHT FILM (10-15 CM IN DEPTH) ONLY IN PIT #2.

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1									
Area #2									
Area #3									
Area #4									
Sporadic Mats									

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

OILED LOGS <u>Y(N)</u>	OILING <u>H/M/L</u>	QUANTITY <u>L/M/S</u>	BURN <u>Y/N</u>
------------------------	---------------------	-----------------------	-----------------

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

GENERAL

Snow covering 10% of the Supratidal Zone?

Wave Exposure (H)M/L

Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

Would the production Craft have to be relocated to complete work on this subdivision? Y(N), # of Times N/A

COMMENTS:

NO TREATMENT NECESSARY ON THIS STREAM.

ACE 7379926 +/S

FIELD SHORELINE COMMENT SHEET

13/49

SEGMENT ST / LA 29 SUBDIVISION: 16788 DATE _____

USCG

NAME CWO2 J. Mc MATTON SIGNATURE J. Mc MATTON

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADFC~~ Michael Wiedner
~~ADEC~~
NAME NO TEAM MEMBER

SIGNATURE Michael Wiedner

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME NO TEAM MEMBER SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7379927

ANAD...OUS FISH STREAM EVALUATIO

SEGMENT ST/ LA-29 STREAM NO: 226-40-16788 DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

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

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: A. David M. Mahan DATE: 5/8/90

Subsurface Oil Observed: Yes X No Maximum Depth 15 cm

RECOMMENDATIONS:

X No Treatment Recommended

Treatment Recommended

Manual Pickup

Bioremediation

Tarmat Removal

Snare/Absorbent Booms

Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

Spot Washing: Wands

Beach Cleaner

Other (see comments)

COMMENTS:

TAG COMMENTS:_____

TAG APPROVAL DATE: 5/7/90.

ADEC ART WEAVER Art Weaver

EXXON *study T&E*

NOAA Gary Petros Gary Petros

USCG G.A. BEITER G.A. Beiter

FOSC: ML DATE: 5-18-90

DATE: 5-18-90

ACE 7379915
+1S/AC/RT

SSAT DATA ENTRY FORM

PAGE 1 OF 2

14/49

GENERAL DATA

SEG ID: LA 29 ²²⁶⁻⁴²⁻¹⁶⁷⁸⁸ ~~SUBDIV:~~ AS 15 TEAM: AS 15 SURVEY DATE: 2014-190
 PAVEMENT: CHAR 0 AREA 0 THICKNESS 0 TARBALLS 0
 OILED: LGS - VEG - TRH - DBR - WAVE EXP: LW - MD X HG -
 FAX RCVD: DT: AGENCY DISAGREE:
 EST SUBDIV LGTH: 60 OIL CATEGORY: W 0 M 0 N 0 VL 50 NO 10 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 20 COB 30 PEB 50 GRN 0 SAN 3 MUD 0 VEG 0

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

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

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

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 OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI

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 OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI

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 OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI

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

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

15/49

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: LA-29 S-2241 226-40-16788
SUBDIV: _____

PIT # 1 PIT DEPTH 15 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI - MI X LI -
SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN - MUD - VEG -

PIT # 2 PIT DEPTH 25 OIL CHARACTER OF OIL INTVAL: FROM 10 TO 15
QUANT: UC OIL CLR: - FLM CLR: BR ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN - MUD - VEG -

PIT # 3 PIT DEPTH 25 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN - MUD - VEG -

PIT # 4 PIT DEPTH 20 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI - MI X LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN - MUD - VEG -

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

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

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

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

PROBLEMS: _____

ACE 7379929

*Processed
5-7-90
MLC*

RECEIVED

MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: LA-29

STREAM NO: 226-40-16788

Concurrence

ACE 7379916

Salmon stream mouth - fry outmigration (5/15)

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

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

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

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

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

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

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

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

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

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

1H Remote release site

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Rothy 267-2208

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

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

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

6Y Special use destination

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

7HH Finfish harvesting

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

7JJ Invertebrate harvesting

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

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2350

ACE 7379918

(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 :

G. R.
(for Exxon)

Date: 8/17/89

ISCC Recommendation:

Jacques L. Michel

Date: 8/25/89

FOSC Approval:

D. E. Conway

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

ACE 7379944 +15

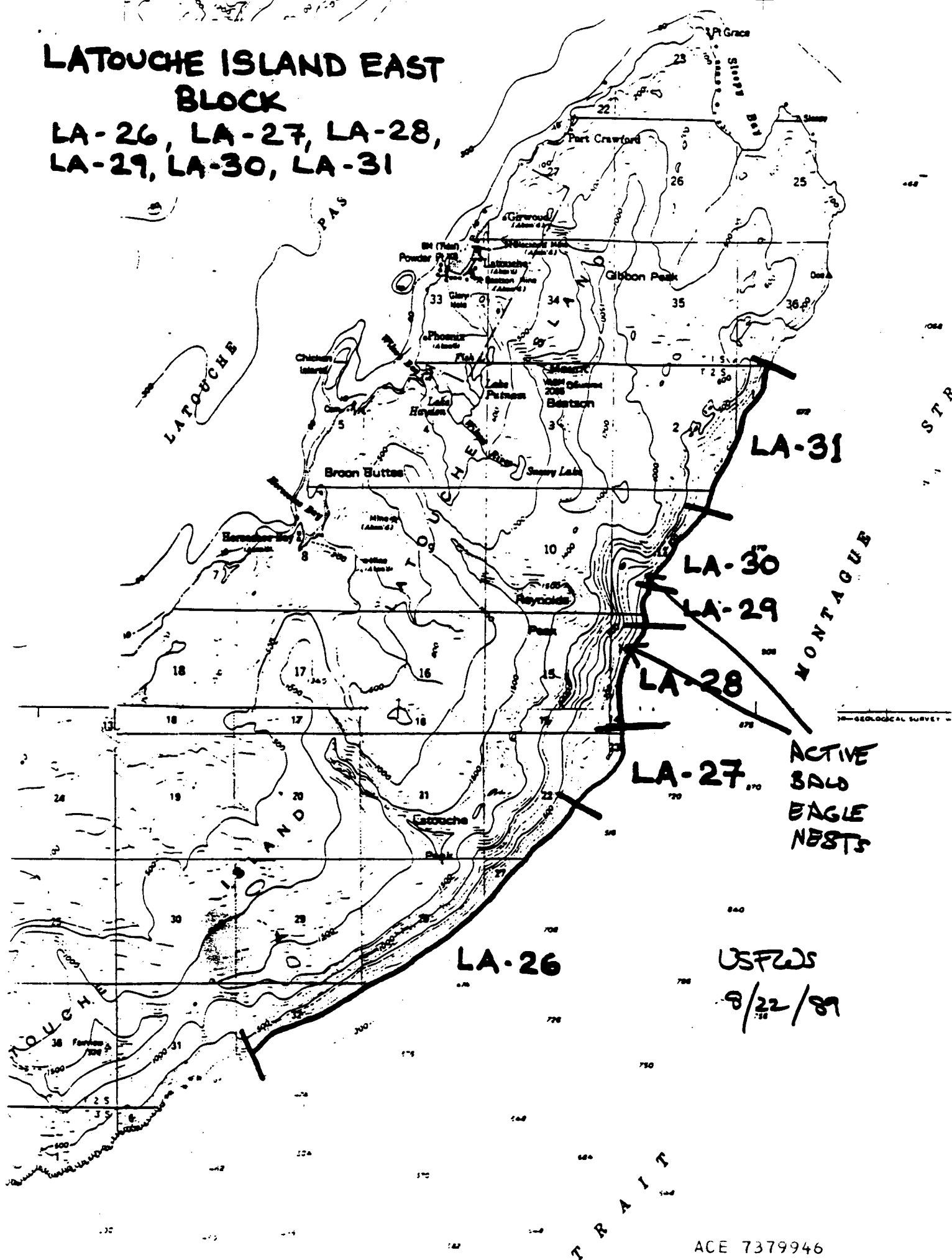
******* SCOT NOTE *******

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

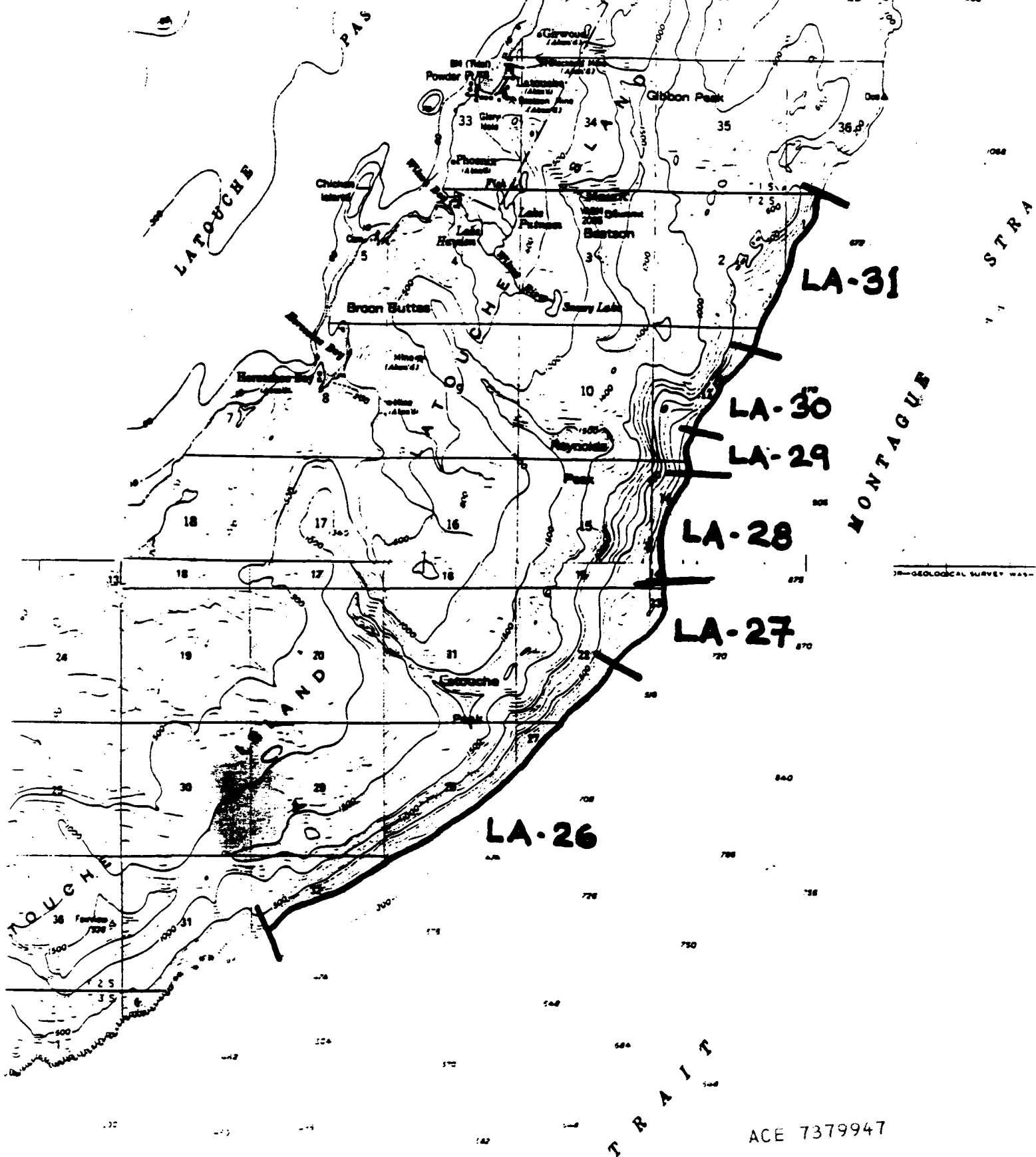
READ THIS FIRST

**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.**

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



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



FILE COPY

Rec'd 8/21/89
J. Morrison

(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 : *[Signature]* Date: 8/17/89
(for Exxon)

ISCC Recommendation: _____ Date: _____

FOSC Approval: _____ Date: _____

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.

Distr LA-26 - OK - CAC uplands

LA-27 OK

LA-28 - poss. stream, 20yd
buffer if fish

LA-29 #16779 min
buffer

LA-30 OK

LA-31 - #16785 no clean

LA-26: no cleanup O.K.

LA-27: Bald eagle nest?
where? active? O.K.
for bio remed - if distant
from eagle nest site

LA-28: Eagle nest (?); area -
drumming spawning stream?
O.K. for bio remediation
if protect salmon stream
& avoid eagle nest

LA-29: Bio remed. seems
O.K. where are cobble/
pebble areas? How much?
use measure to protect biota
LA-30: Same as 29

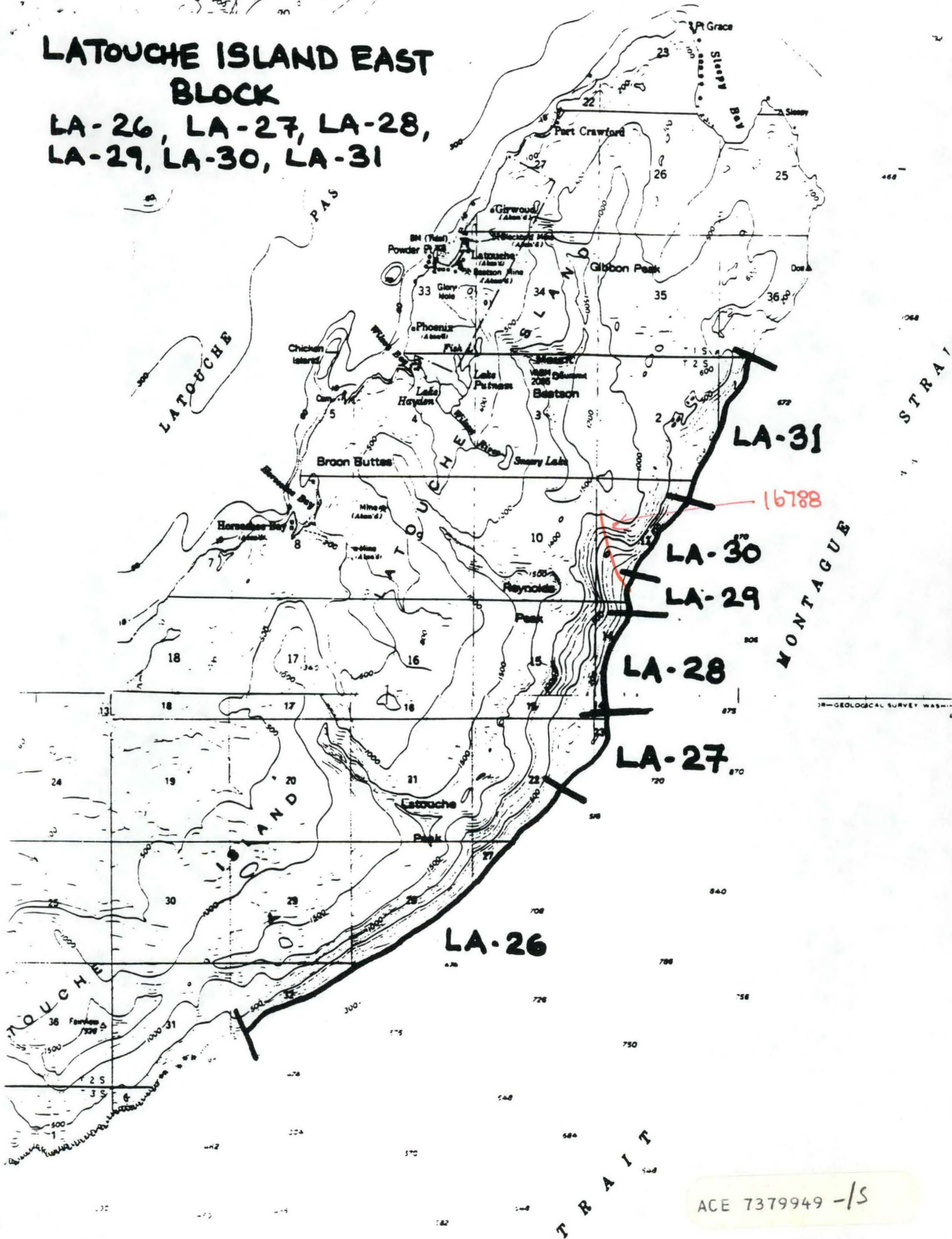
LA-31: Bio remed.
seems O.K. Same
considerations as 29 & 30

USFS

ACE 7379948

LATOUCHE ISLAND EAST BLOCK

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



ACE 7379949 -15