

KN-200 KN 201 ASC 16869
BAY OF ISLES, (West Arm)

ACE 1369625

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. 5, 1991)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (Feb. 1991)
____ '90 Other Documents _____

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date June 1 1990 Time 1400

Location: (Logging unit/Road/Waterbody) KN201 BAY OF ISLES
KN164T IS. ASC# 16869 (226-30-16869)
226-30-16870 - Lake stream with sockeye run

Operator/Contractor: EXXON/veco

Individuals present at time of inspection:

Name Representing

Activity/Situation Observed: Oil still remaining after
1st cleanup effort - Farmat, patties, OR, oiled vegetation

(June 1st. work was completed satisfactorily -)

Pertinent Statutes/Regulations: AK. statutes title 16

Recommended/Required Action (Specify):

Remove remaining farmats, patties, oiled veger, oil residue
from upper/lower ITZ both streams both banks.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Richard J. Foster ADFG Tech 3.
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date May 31-90 Time 1235-1600

Location: (Logging unit/Road/Waterbody) KN 201 - Bay of Isles, Knight Island - Anadromous Stream # 226-30-16869

Operator/Contractor: Exxon/Veco

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Craig Levine</u>	<u>Exxon</u>
<u>Rod Reynolds</u>	<u>Veco</u>
<u>Steve Emmanuel</u>	<u>GOPS</u>

Activity/Situation Observed: This oiled and fish stream somehow missed the ANADSCAT survey, Exxon agreed to clean. Area was treated 3 weeks prior insufficiently. R. Gustin returned with USCG Commander Keane & agreed on further removal of oiled material. When I arrived, 1 crew of 10 people were working in the adjacent segment. They eventually worked there way over & began working the stream area. I left before they finished, but they looked to be doing a good job. All Reps. quite cooperative

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): _____

Crew was due to complete treatment that day and move over to streams # 16870 & 16872 today or tomorrow. Rick Gustin will monitor treatment tomorrow.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Aimee Weseman / Fish & Wildlife Tech.
Fish and Game Representative/Title Company Representative/Title

Rick Gustin
FWT3
June 1, 1990

X
KN201 Bay Isles
West Arm

ASC#226-30-16870
ASC#226-30-16869 > Head

Neither of these lightly oiled streams were anadscatted, but both were treated by manual removal techniques. Areas of oiling consisted primarily of scattered tar patties, oiled grasses, and some broken tar mats. There was very little penetration beneath these oiled spots. Oiling covered UITZ to lower ITZ in random patches. A thorough job was done and the crew departed that afternoon. I am satisfied with the results, and recommend no further treatment. Approximately 1 super sack of oiled gravel was removed from these two streams combined.

ACE 7378830
+1814C1 B+

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 05/22/89

SHORELINE SEGMENT KN-201

LOCATION: (see enclosed map) KNIGHT ISLAND, BAY OF ISLES, HEAD OF
WEST

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

Manually pick up oiled debris and scrape up patches of oiled sediments.

Priorities Considerations: CLASS 1

Ecological Constraints (from site survey): Manual removal of oiled gravel and debris in probable salmon stream floodplain at head of bay must take place before the stream swells in summer. Restrict number of people and access in stream area and adjacent grassy areas. Exercise care in the grass area - cut oiled grasses by hand, scoop and shovel patches of oiled soil/gravel. Cleanup restricted to manual methods due to ^{small} amount of oil present combined with sensitivities of salmon and grasses/soil.

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: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

SHORELINE OIL EVALUATIONDate: 5/22/89 Time: 1200-1230Observer: C. DillonSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FLOCATIONLOCATION KNIGHT ISLANDSEGMENT NUMBER KN-201LENGTH OF SHORELINE SEGMENT: 450 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float PlaneSHORELINE:Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B 15% / C 60% / P 25% / G ___% / S ___% / M ___% / R ___%Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algaOILDegree of Oiling: Heavy/Moderate/Light/No Oil/UnobservedArea of Beach Impact: SU / SP / H / M / LContinuous: Y/N % of Segment _____ Width of Band: _____ mSporadic: Y/N % of Segment 75Est. Oil Thickness where > 1cm: 10-1 cm Est. Oil Penetration: 0 cmPooled Oil: ___% "Free" Oil: ___% Coated: H ___% / M 75% / L ___%Fresh ___% Mousse ___% Tar Formation: 75%Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Segment is unoiled except for a few small patches of tarry gravel. Refer to diagram for details. Also, some patches of oiled/moussed algae/grass, twigs.

DOCUMENTATION: KN-201

Map/Aerial photo marking segment boundaries ATTACHED

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

Photography: Y/N Y Roll Number(s) _____

Sample Numbers Collected: NONE

ECOLOGICAL EVALUATION

LOCATION: KNIGHT ISLAND SITE: BAY OF ISLES OBSERVER: MEYER

LOCATION PREFIX: KN SEG. NO.: 201 LENGTH: 450 (M)

DATE: 05/22/89 TIME (HHMM): 1145 TIDE HT.: _____ (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

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

OTHER OBSERVATIONS: Probable salmon stream at head of bay free of oil although some small patches of oil are in gravel of its floodplain.

CLEANUP PRECAUTIONS: Manual removal of oiled gravel and debris in stream floodplain must place before the stream swells in summer. Restrict number of people and access in area of saline stream. No mechanical cleanup recommended.

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

BIRDS: ♀♂ Green-winged Teal; Oystercatcher -1; Herring Gull -1; Raven -1; Bald Eagle -1

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/24/89 Location Knight Island Site _____

Location Prefix KN Segment # KN-201 Length 450m

Survey Method:

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

Ground ☒ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility light and patchy

Width of beach zone surveyed 2-10m Tree fringe surveyed 0-10m

Cultural resources observed in beach zone (AHRS code) _____

Cultural resources observed in tree fringe (AHRS code) _____

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

Shore Profile beach at head moderately sloped, cobble / gravel, rest of segment steep wall face and cobble fields

Fresh Water Sources one large and two small streams

Sea Exposure protected

Access/Safety good to beach, poor to rock face + cobble fields

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

On the beach, itself.

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

Photos: Color Roll # _____ Frames _____

B/W Roll # CW8 Frames 18-20

Observer(s) C. Wilson

Time survey started 1205 1105 Time survey ended 1230

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are discovered during cleanup notify Tyson and ecologist, C. Mobley, immediately.

(23) 5/22/89 1030-1200 Segment KN-200 clear logs algae woods

Head of West Arm of Bay of Isles,
Knight Island

$$K_N = 200 = 200 \text{ m}$$

5/22/89 (24)

SEGMENT

KN-201

1200-1230

c. 450 m

85

CP 579125

~~Debiles~~ / ~~Debiles~~

wx: Cloudy / Sunny.
Survey: foot

Access: boat, helo, ft plane
Wave Exposure: low

Mostly dried tar
patches with
pebbles and algae.

↑
KW=201

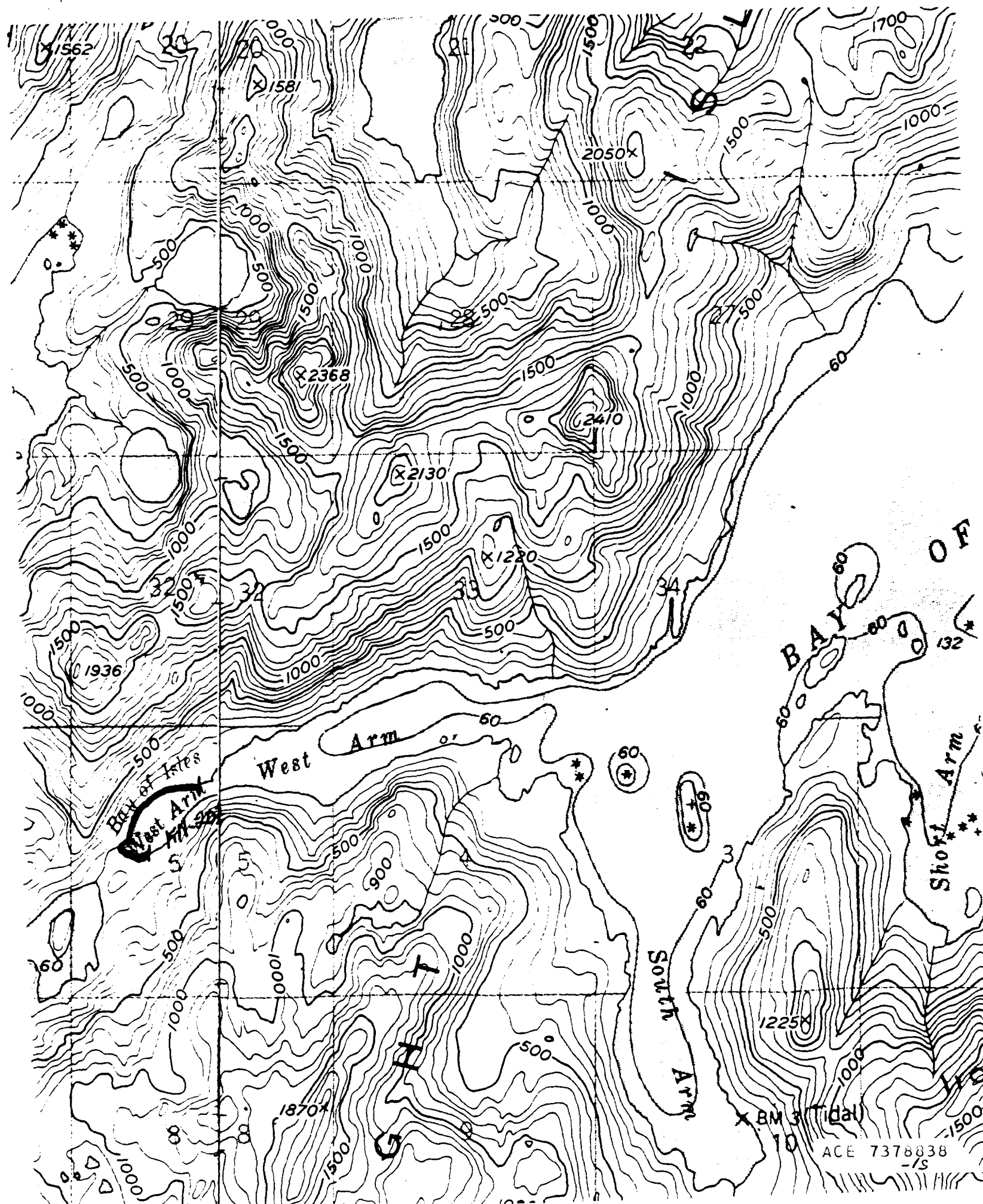
KNL 7

Focus covered
with boulders and cobbles
with pooled black oil
with small amount
of loose silt.
Oil is vacuumable.

ACE 7378837

ACE 7378836

ACE 7378837



State of Alaska
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Field Inspection Report

Date June 1 1990 Time 1400

Location: (Logging unit/Road/Waterbody) KN201 BAY OF ISLES
KN164T IS. ASC# 16869 (226-30-16869)
226-30-16870 - Lake stream with sockeye run

Operator/Contractor: Exxon/Veco

Individuals present at time of inspection:

Name

Representing

Activity/Situation Observed: Oil still remaining after
1st cleanup effort - tar mats, patties, OR, oiled vegetation

(June 1st. work was completed satisfactorily.)

Pertinent Statutes/Regulations: AK. statutes title 16

Recommended/Required Action (Specify):

Remove remaining tar mats, patties, oiled veg., oil residue
from upper/lower ITZ both streams both banks.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Richard J. Suster ADFG Tech.
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date June 1 1990 Time 1400

Location: (Logging unit/Road/Waterbody) KN201 BAY OF ISLES
KNIGHT IS. ASC# 16869 (226-30-16869)
226-30-16870 - Lake stream with sockeye run

Operator/Contractor: EXXON/Veco

Individuals present at time of inspection:
Name Representing

Activity/Situation Observed: Oil still remaining after
1st cleanup effort - tar mats, patties, OR, oiled vegetation

(June 1st. work was completed satisfactorily.)

Pertinent Statutes/Regulations: AK. Statutes title 16

Recommended/Required Action (Specify):

Remove remaining tar mats, patties, oiled vege., oil residue
from upper/lower ITZ both streams both banks.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Richard J. Boster ADFG Tech 3
Fish and Game Representative/Title

Company Representative/Title

Page of

Date June 1 1990 Time 1400

226-30-16870 - Lake stream with sockeye run

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
-------------	---------------------

(June 1st. work was completed satisfactorily.)

Remove remaining formats, patties, oiled veg., oil residue
from upper/lower ITZ both streams both banks.

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Form 11-88 (1-82)

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date May 31-90 Time 1235-1600

Location: (Logging unit/Road/Waterbody) KN 201 - Bay of Isles, Knight Island - Anadromous stream # 226-30-16869

Operator/Contractor: Exxon/Veco

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Craig Levine</u>	<u>Exxon</u>
<u>Rod Reynolds</u>	<u>Veco</u>
<u>Steve Emmanuel</u>	<u>GOPS</u>

Activity/Situation Observed: This oiled anad fish stream somehow missed the ANADOSCAT survey. Exxon agreed to clean. Area was treated 3 weeks prior insufficiently. R. Gustin returned with USCG Commander Keane & agreed on further removal of oiled material. When I arrived, 1 crew of 10 people were working in the adjacent segment. They eventually worked there way over & began working the stream area. I left before they finished, but they looked to be doing a good job. All Reps. quite cooperative

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): _____

Crew was due to complete treatment that day and move over to streams # 16870 & 16872 today or tomorrow. Rick Gustin will monitor treatment tomorrow.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Aimee Weseman / Fish & Wildlife Tech.
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date May 31-90 Time 1235-1600

Location: (Logging unit/Road/Waterbody) KN 201 - Bay of Isles, Knight Island - Anadromous stream # 226-20-16869

Operator/Contractor: Exxon/Veco

Individuals present at time of inspection:

Name

Representing

Craig Levine

Exxon

Rod Reynolds

Veco

Steve Emmanuel

COPS

Activity/Situation Observed: This oiled anad fish stream somehow missed the ANASCAT survey. Exxon agreed to clean. Area was treated 3 weeks prior insufficiently. Reustin returned with USCG Commander Keane & agreed on further removal of oiled material. When I arrived, 1 crew of 10 people were working in the adjacent segment. They eventually worked there way over & began working the stream area. I left before they finished but they looked to be doing a good job. All Reps. quite cooperative

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): _____

Crew was due to complete treatment that day and move over to streams # 16870 & 16872 today or tomorrow. Rick Gustin will monitor treatment tomorrow!

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Rimee Weseman / Fish & Wildlife Tech.

Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date May 31-90 Time 1235-1600

Location: (Logging unit/Road/Waterbody) KN 201 Bay of Isles Knight
Island - Anadromous stream # 206-30-16869

Operator/Contractor: Evon/Veco

Individuals present at time of inspection:
Name Representing

Craig Levine Evon
Steve Emmanuel COPS

Activity/Situation Observed: This oiled area was cleaned up by the contractor. They used a skid loader to remove the oiled material. When I arrived, I saw the skid loader was working in the stream bed. They were only working there way over & began working the stream area. I left before they finished but they looked to be doing a good job. All kept quite cooperative.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): Evon was due to complete treatment that day and move over to stream # 206-30-16870 today or tomorrow. Rick Gustin will monitor treatment tomorrow!

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Renee W. Leseman Fish Wildlife Tech.
Fish and Game Representative/Title Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date 3/31/90 Time 10:35-11:00

Location: (Logging unit/Road/Waterbody) KN 341
2-1-869

Operator/Contractor: _____

Individuals present at time of inspection:
Name Representing

Activity/Situation Observed: _____

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): _____

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Fish and Game Representative/Title

Company Representative/Title

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/29/89

SHORELINE SEGMENT KN-201

LOCATION: (see enclosed map) Knight Island, Bay of Isles

Head of West

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/22/89

Recommended Cleanup Activity(ies):

- Manually pick up oiled debris and scrap up patches of oiled sediments.

Priorities Considerations:

- Class 1.

...in documented ordonnances

Ecological Constraints (from site survey): Manual removal of oiled gravel and debris in ~~probably~~ salmon stream flood plain at head of bay must take place before the stream swells in summer. Restrict number of people and access in stream area and adjacent grassy areas. Exercise care in the grassy area - cut oiled grasses by hand, scoop and shovel patches of oiled soil/gravel. Cleanup restricted to manual methods due to small amount of oil present combined with sensitivities of salmon and grasses/soil.

Archeological Constraints (from site survey):

Avoid damage to oil boiler in the intertidal zone of the east portion of the segment. 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: 5/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

SHORELINE OIL EVALUATION

Date: 5/22/89 Time: 1200-1230

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fo

LOCATION

LOCATION KNIGHT ISLAND SEGMENT NUMBER KN-201

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 15% / C 60% / P 25% / G ___% / S ___% / M ___% / R ___%

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

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 75

Est. Oil Thickness where > 1cm: 0-1 cm Est. Oil Penetration: 0 cm

Pooled Oil: ___% "Free" Oil: ___% Coated: H ___% / M 75% / L ___%

Fresh ___% Mousse ___% Tar Formation: 75%

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

Comments:

Segment is unoiled except for a few small patches of tarry gravel. Refer to diagram for details. Also, some patches of oiled/moussed algae/grass, twigs.

DOCUMENTATION: KN-6

Map/Aerial photo marking segment boundaries ATTACHED

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) _____

Sample Numbers Collected: NONE

(23) 5/22/89 1030-1200 Segment KN-200

Head of West Arm of Bay of Isles,
Knight Island

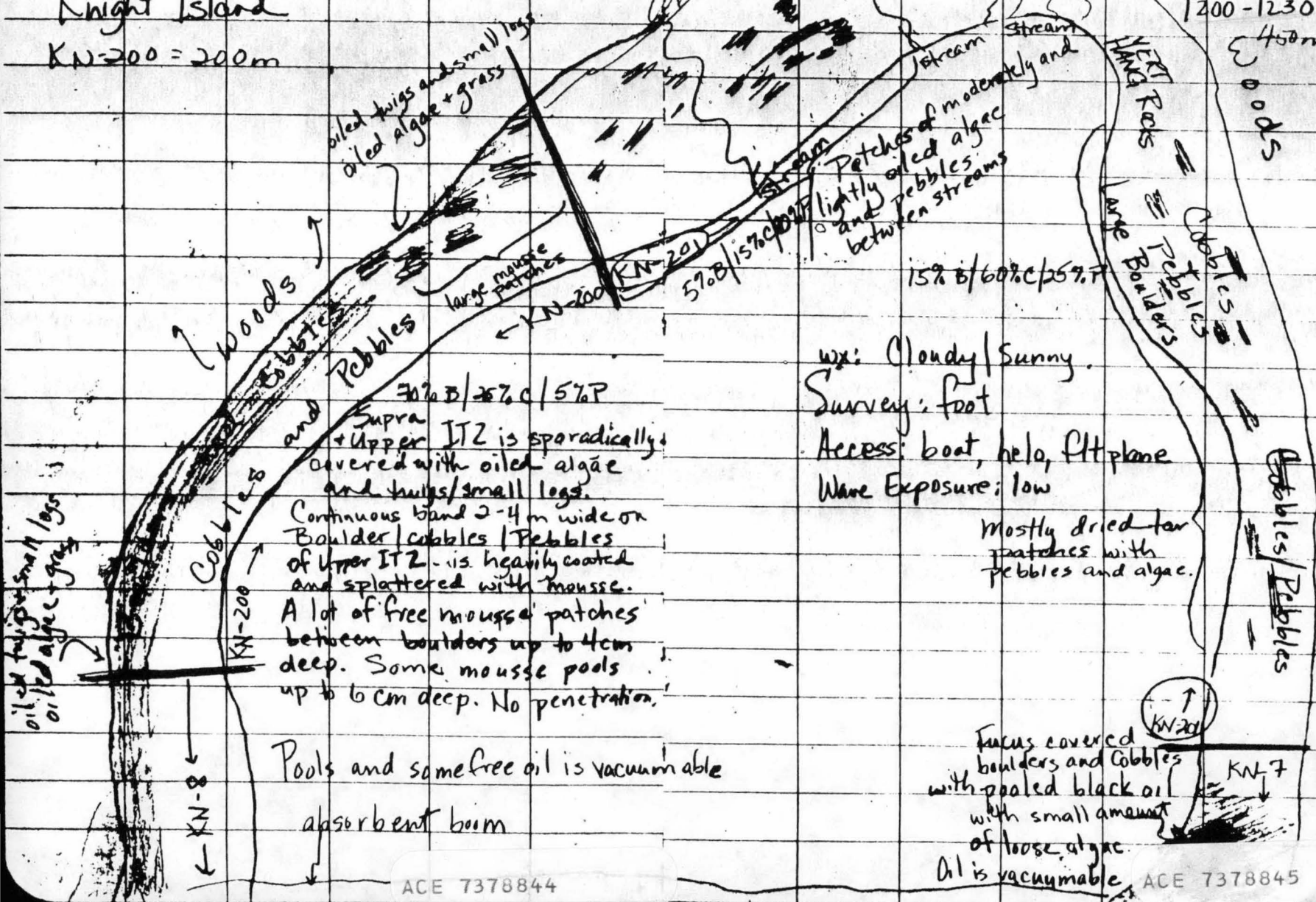
KN-200 = 200m

clear
logs/algae Woods

5/22/89 (24)

SEGMENT
KN-201
1200-1230

450m
Woods



wx: Cloudy / Sunny.
Survey: foot
Access: boat, helo, Pitt plane
Wave Exposure: low

Mostly dried tan
patches with
pebbles and algae.

Fucus covered
boulders and cobbles
with pooled black oil
with small amount
of loose algae.
Oil is vacuumable

ECOLOGICAL EVALUATION

LOCATION: KNIGHT ISLAND SITE: BAY OF ISLES OBSERVER: MEYER

LOCATION PREFIX: KN SEG. NO.: 201 LENGTH: 450 (M)

DATE: 05/22/89 TIME (HHMM): 1145 TIDE HT.: _____ (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: Probable salmon stream at head of bay free of oil although some small patches of oil are in gravel of its floodplain.

CLEANUP PRECAUTIONS: Manual removal of oiled gravel and debris in stream floodplain must take place before the stream swells in summer. Restrict number of people and access in area of salmon stream. No mechanical cleanup recommended.

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

BIRDS: ♀♂ Green-winged Teal; Oystercatcher -1; Herring Gull -1; Raven -1; Bald Eagle -1

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/24/89 Location Knight Island Site _____

Location Prefix KN Segment # KN-201 Length 450m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility light and patchy

Width of beach zone surveyed 2-10m Tree fringe surveyed 0-10m

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 beach at head moderately sloped, cobble / gravel, rest of segment steep wall face and cobble fields

Fresh Water Sources one large and two small streams

Sea Exposure protected

Access/Safety good to beach, poor to rock face + cobble fields

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

On the beach, itself.

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # _____ Frames _____

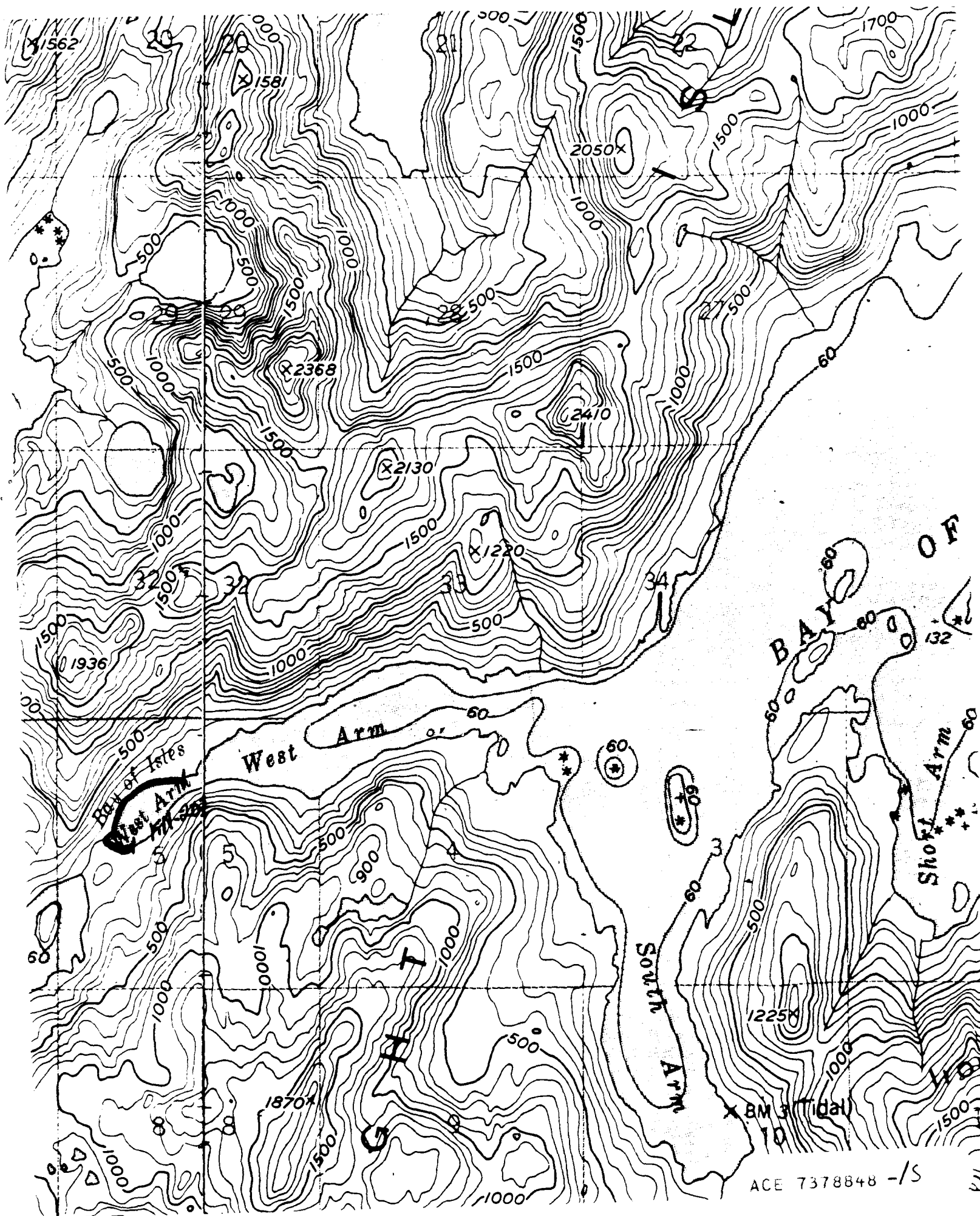
B/W Roll # CW8 Frames 18-20

Observer(s) C. Wilson

Time survey started 1205 1105 Time survey ended 1230

Cultural resource considerations/restraints:

If hitherto undiscovered cultural resources are discovered during cleanup notify Byron and -
archaeologist, C. Mobley, immediately.



ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ KN-201 A STREAM NO: 226-30-16872 DATE 4/22/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Three anadromous streams in KN-201: 226-30-16872, 226-30-16869, 226-30-16870.

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

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

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. No ecological constraints re: intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

SHPO SIGNATURE: J. David McMahon DATE: 5/9/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of mousse and tar patties as indicated on sketch map, 2) removal of tarmat where indicated. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90

ADEC Art Weaver Art Weaver

EXXON Andy Tetz Andy Tetz

NOAA Bruce Wasscott Bruce Wasscott

USCG D.D. Rome D.D. Rome

FOSC: W L DATE: 5-18-90

ACE 7378849 +15

Processed
5/8/50
mr

RECEIVED
MAY 05 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: KN-201 A

STREAM NO: 226-30-16872

CONCUR

2 separate streams stuck together.

KN201 A in front

KN 134 in back

OK

ACE 7378850

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ KN-201 A STREAM NO: 226-30-16872 DATE 4/22/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Three anadromous streams in KN-201: 226-30-16872, 226-30-16869, 226-30-16870.

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

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

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. No ecological constraints re: intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of mousse and tar patties as indicated on sketch map. 2) removal of tarmat where indicated. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

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

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

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

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

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

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

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

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

1E Main Bay Hatchery release (4/20 to 6/10)

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 (8/11 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 Roth 267-2206

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation: Tent sites (5/1 to 9/15)

6W Anchorage (5/1 to 9/15)

6X Forest Service cabins (5/1 to 9/15)

6Y Lodge (5/1 to 9/15)

Special use destination

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

7HH Finfish harvesting

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

7JJ Invertebrate harvesting

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

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

ACE 7378852

FIELD SHORELINE COMMENT SHEET

39/
43

SEGMENT ST/ KN-201 SUBDIVISION: ^{ASC #} 226-30-16872 DATE 22 APR 90

USCG

NAME Kevin L. Drohan SIGNATURE Kevin L. Drohan

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Agree.

ADEC → **ADF&G**

NAME Rick Gustin SIGNATURE Richard Gustin

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS Perform work at a minimum of (0.7 tide)

Remove scattered broken tar matts which cover areas ranging from upper intertidal to lower intertidal on both east and west sides of creek.

There are a few scattered patties west of the creek near a smaller creek - these should be manually removed.

The flat on the ^{east} ~~west~~ side of the creek in the upper inter-

LAND MANAGER → **NONE**

NAME Rick Gustin SIGNATURE Richard Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

tidal zone has scattered bands of matts needing removal. Perform a survey of the entire ITZ prior to work to get a feel for the distribution of matts.

Remove any oiled debris found.

No bioremediation recommended.

ACE 7378853

SHORELINE OILING SUMMARY (NAD)

REVISION NO. 0477

OG CAL LARSON USCG 22REHEZ, CWE SEGMENT ST/ KN 201 4/A
 BIO KEN CRITCHLOW LAND REP STREAM 226-30-16872 OF
 EXXON DARLHL YOGS ADFG 22K 22STN-AIMEE WEESEMAN TIME/B. 10 to 18:50
 TEAM NO. 14 TIDE LEVEL + DATE 4/22/90
 EST. SUBDIVISION LENGTH: 65 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 5 % P 10 % G 60 % S 20 % M 5 % V 5
 SLOPE: Long 100 % Hang 5 % Vert 5 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 5 m M 5 m N 5 m VL 10 m NO 55

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	R	B	C	P	SW	W	M	U	U	SW	W	M	U
ASPHALT PAVEMENT				✓				✓			✓	✓	✓
POOLED													
COVER													
COAT													
STAIN													
MOUSSE				✓			✓			✓	✓	✓	✓
PATTIES				✓			✓			✓	✓	✓	✓
TARBALLS				✓			✓			✓	✓	✓	✓
FILM													
NO OIL										✓			

PAVEMENT H F (S) 10 sq. m by 2PATTIES / TARBALLS 1 BAG

NEAR SHORE SHEEN? NO BR RW (SD) 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)	?	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO			SW	W	M	U	U	SW	W	M	U				
1	8					✓	•							✓							10, 450/18, 4
3	9					✓	•							✓							60, 30/60, 5
2	16					✓	•							✓							15, 60, 30/60, 5
4	14					✓	•							✓							50, 60, 30/50, 5
5	10					✓	•									✓		Y			

COMMENTS

REVIEWED JWDATE 4-24-90

ACE 7378654

$\frac{1}{4}$

SKETCH MAP

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Side Body
- ___ Off (Dist.)
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HVEL/L.VL
- ___ SBL
- ___ Profile Location(s)
- ___ Profile(s)
- ___ PR Location(s)
- ___ Photo Location(s)

LEGEND

PH - No Subsurface Oil

2 A
PH - Subsurface Oil

CT/C
Confidential Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

[C1/S]
Special Distribution

Old Vegetation

Photo location, direction,
and number

ACE 7378855 -/S

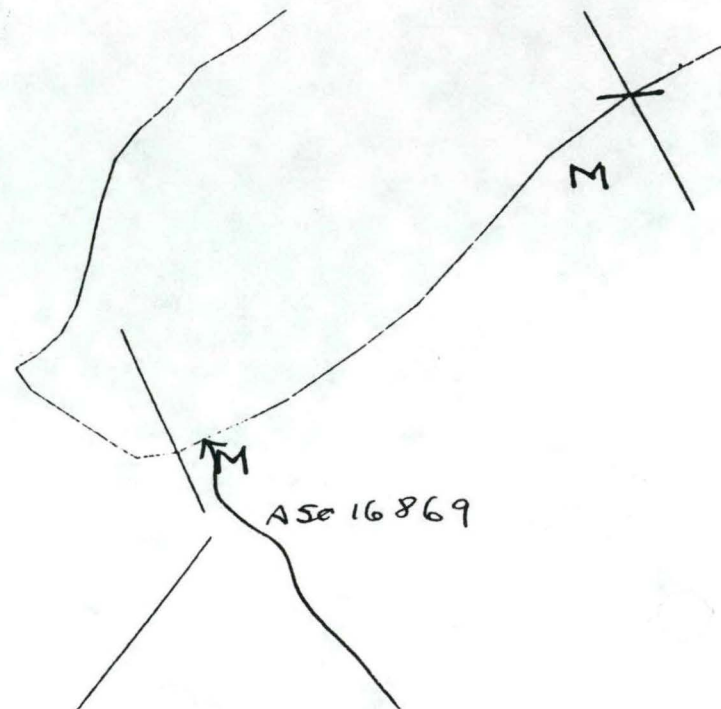
Oil Character Length (in): AP PO CV CT ST MS PT TB FL NO

REF ID: A62479

KN200

201
nms/dw

500.0



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



ADEC Sep/Oct 1989 Survey

ACE 7378856
-L/AC/R+FF