

EVOS GC 1552 .P75 S42 1989 v.14

[Shoreline evaluations, 1989].

Volume 14

Green Island

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	No.
Naked Is.	NA
Peak Is.	PE
Stoney Is.	ST
Eleanor Is.	EL
Ingot Is.	IN
Block Is.	BL
Entrance Is.	EN
Sphinx Is.	SP
Disk Is.	DI
Knight Is.	KN
Smith Is.	SM
Seal Is.	SE
Applegate Is.	AP
Green Is.	GR
L. Green Is.	LG
Agnes (Bass) Is.	AB
L. Smith Is.	LS
Gore Point	GP
Montague Is.	MN
Aguliak Is.	AG
Squirrel Is.	SL
New Year Is.	NY
Murray Is.	MU
Squire Is.	SQ
Crafton Is.	CR
Pt. Nowell	PN
Junction Is.	JU
Chenega Is.	CH
Pleiades Is.	PL
Bainbridge Is.	BA
Flemming Is.	FL
Evans Is.	EV
Elrington Is.	ER
Latouche Is.	LA

B	oulder (>256mm)	В
C	obble (64-256)	C
P	ebble (4-64)	P
	ranule (2-4)	G
	and (0.06-2)	S
	ud (less 0.06)	M
	ock	R

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

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

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

SHORELINE TYPE

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

Comments:

Danger Is.

- * Multiple entry is acceptable, use decreasing order of type found. (ie. C/G/S where C is most predominant type and S is the least one.)
- ** Heavy (>6m wide and/or >1.0 cm thick)
 Moderate (3-6m wide and/or 0.2-1.0 cm thick)
 Light (0.1 -3m wide and/or <0.2 cm thick)
 No Oil (free of vissible oil)

DA

File: \VALDEZ\KEYCODES.LST



Alaska Resources
Library & Information Services
Anchorage, Alaska

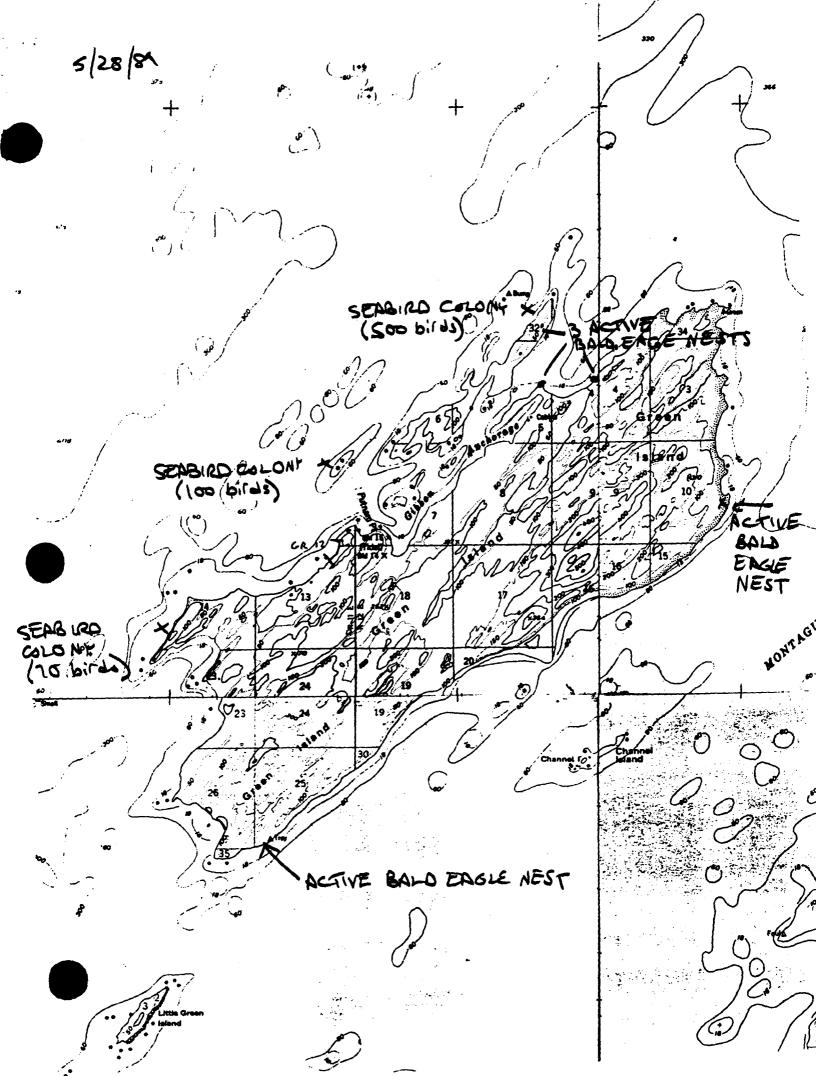


Oil Spill Public Information Center 645 G Street Anchorage, AK 99501

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Green	Island - Putnam Point Block
Includes Shoreline Segments: GR-1A, GR-11, GR-12	GR-1B, GR-2, GR-9, GR-10,
Submitted:	Date: \$14/89
(for Exxon) FOSC Approval: Soci 5-17-89 Jan :	Date: 5/18/8 (
The cleanup procedures identified in are recommended. Modifications to the field. Exxon and other field person innovations and productivity enhance representative. The OSC's representative on-site modifications. The consulted if these actions do not constraints of the Shoreline Clean safety and the protection of culture	the Shoreline Cleanup Program lese systems can be made in the inel are encouraged to suggest cements to the OSC's on-scene tative has the authority to Field Resource Team should be t fit within the Ecological nup Program. Requirements for
Distribution: Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file	need to add Andremous Advisor, to GRZ; GR9. GR9; GR11 Shoul reflect
FOSC CDFU NOAA EPA USDA (FS)	laster advis on remord of
USFW A.DEC A.FG A.DNR CAC	
PWSCA USFS	

A 9/4



500 m

(version 4/28/89)

HAProved 1112 Ner.

SHORELINE CLEANUP PROGRAM

DATE:April 28, 1989	SHORELINE SEGMENT GR-1
	Island - Putnam Point to the most
westerly point of Green Island.	
ADEC NOSHORELINE ASS	SESSMENT DATE: 89-04-28
Recommended Cleanup Activity(ies):
	low pressure flushing/flooding of washing on rocky areas. Warm water der areas.
Priorities Considerations: . Areas of heavy oiling. As stipulated under the attached	"general guidelines"
crews directed accordingly.	e survey): be conducted by a biologist and not disturb silhouettes and ADF&G
team will assess the shoreline cl the equipment, and will not restrictions/sensitivities.If he material is uncovered during clear	the upper surf line. Evaluation eaning site prior to operation of ify the crew leader of any eretofore undiscovered cultural anup, contact Exxon archaeologist ibed in the Operational Guidelines
State Historic Preservation Office EXXON: (June 1) FOSC: (June 1) * Signature required to satisfy s	Date: 4/28/87 Date: 4/28/87 Stipulations in Alaska DNR
land use permits for tide and s	

SHORELINE CLEANUP PROGRAM

DATE: April 28, 1989 S	HORELINE SEGMENT GR-1A
LOCATION: (see enclosed map) Northwes	st side of Green Island
ADEC NO. 44 SHORELINE ASSESSM	IENT DATE: 4-28-89
Recommended Cleanup Activity(ies): Amid Complete N Priorities Considerations:	high energy cobble beach, cold no construints high pressure above +8 +13
Ecological Constraints (from site sur	rvey):
Avoid marine terrace from point to 200m eas Next 75 meters, low pressure cold wash only no constraints (high energy heavely oiled b (east end) high pressure cold wash at + '8	v. From there to mid-segment peach). Last half of segment
Archeological Constraints (from site If heretofore undiscovered cult during cleanup, contact Exxon are actions prescribed in the Operation Cleanup dated 4/21/89 as amended No access to the uplands. No fires on the to the oiled zone of the beach.	tural material are uncovered chaeologist C. Mobley and take ional Guidelines for Shoreline d.
State Historic Preservation Officer	Date: 5/13/89
EXXON:	Date:
FOSC:	Date:

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

	Date:	Observer: HMY
	Time: 16 h 20 m We	ather: Sun Cloud Rain Snow/Fog
	LOCATION	12
	LOCATION GREETS	SITE Poin Comp
		SEGMENT NUMBER 67 GR-14
	LATITUDE: 6 0 d 16 m s	LONGITUDE: 147 d 29 m s
	LENGTH OF SHORELINE SEGMENT: 80	<u>O</u> m
	ACCESS: FOot/VEhicle/BOat/BArge/HE	-
	SHORELINE:	See a . was the sand to
	SHORELINE CHARACTER:	Band the start to
	BEach SPit Cove	Su dian she
	Wave Exposure: High/Med/Low	
	ROCK Y/N & 10 VErtical,	High Angle/Low Angle
	SEdiment Y/N & 9D Types: B	10/P/G/S/M/R
?	Strand Line W/N Algan Debri	S/Logs
-	ort	without of gone of spit
	LOCATION OF OIL: SU SP (H)	L to the to position
1	CONTINUOUS: (Y) WIDTH OF BAND:	n % of Segment 100
	PATCHY: 10/20/30/40/50/60/70/80/904	coverage % of Segment
	EST. OIL THICKNESS: 1-25 CM EST.	OIL PENETRATION: 25-30 cm+++
	POOLED OIL: (Y) "FREE" OIL: (T)	N WEATHERED: Y/N Collin 4
	STRAND LINE CLEAN OILED	B. W. Bedrock
	SUMMARY OILING: Amount High Med	
	COVERAGE Extensive	/Moderate/Light
	Deep is priesting Object to the High	the 1: 1 - 0: 1 has
	Deep in prich in Place at the High	thrown into ignost Line
		•
	Sen G have Bank	which are we will as
	- 1- 1. 1 1. k1	

DOCUMENTATION:

MAP/Aerial photo marking segment boundaries Aerid Ville - TAPE &
VTR: YN Tape Number(s) Rain
PHOTOGRAPHY: (Y) N Roll Number(s) from 3-73 T. En 9 glost = 36
SAMPLE NUMBERS COLLECTED: Line
SAMPLE NUMBERS COLLECTED: Dome - Leave along And Mailty, Free - Leave along Gibbing And Manyoria Heavy of the theory Heavy of the theory
- 3020 bill 1900 1900 1900 1900 1900 1900 1900 19
Round Green = S
Round Great = S
Segment

C:\WP\DATA\SHOREVAL.1

version: 4/24/89



ECOLOGICAL EVALUATION

LOCATION: Green Ist. SITE: N.W. Coastof Green OBSERVER: Amdur
LOCATION PREFIX SEG. NO.: /A LENGTH: ~ 1250 (M)
DATE: 89/04/28 TIME (HHMM): 15:30 TIDE HT.: 6 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy (YN Contin. Y/N Dense (YN Sparse YN None Y/N
Fucus dense at point, some (Sparse) in lower tidal zone
Mytilus (Mussels): Patchy YN Contin. Y/N Dense YN Sparse YN None Y/N
Musscher deuse at point, bound N 200M, lers deuse along cave
Balanus (Barnacles): Patchy(Y)N Contin. Y/N Dense Y/N Sparse(Y)N None Y/N
Scattered Balanus glandula; B. Cariosus
Patchy W/N Contin. Y/N Dense Y/N Sparse WN None Y/N
few litterina det point or buen intertidal zone at what out of come
Limpets: Patchy N Contin. Y/N Dense Y/N Sparse N None Y/N
few seen
OTHER OBSERVATIONS: 200m Section from point to east is in very good
Shape, 75 more to east extensive dammage / Some lie biota
Last 250M has good bioth below +8"
CLEANUP PRECAUTIONS: Avoid Marine Terrice from point east 250M, Next
above + 7' tide, Restot Cove; High pressure dold above + 8' tide
MAMMALS: Otters Harbor Seals 2 Sea Lions Whales
BIRDS: I dead oiled seabird.
GENERAL OBSERVATIONS: Marine Terrore at Westend is in good shap
and should be avoided completely. High energy Cobble beach
from cove to mid townsect is heavy oiled and can be clowned
from cove to mid townsect as heavy oiled and can be closed by any method (few animals). east half of segment is

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

ate 4-28-89 Location GREEN Island Site NW COAST OF GREEN
Location Prefix GR Segment # /A Length 1250 m
Survey Method: Air (A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Heavy oil, in places up to the top of the Bea.
Width of beach zone surveyed 1-5 m Tree fringe surveyed op to 40 m
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code) CMT FXF CAN, HTI
General observations justifying survey method and segment's site probability: moderate to steeply slopino condit to boulder head. 20 m wide
moderate to steeply sloping consile to Boulder ARACH. 20 m wide Shore Profile Vegetated Raised Beach. Vertical chiefs to Flat or moderately sloping uplands button A bund Ridge.
Fresh Water Sources Numicrous Small Streams. LARWIS lake to the South
Sea Exposure Open to the North And North EAST
robability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # MY 2 Frames 14 - 23
B/W Roll # Frames
Observor(s) Mike Yarsarough
Time survey started 3:30 pm Time survey ended 6:30 pm
Cultural resource considerations/restraints:
NO Access to the uplands. NO FIRES ON the upper Beach.
Restrict Activity to the oiled zone of the Beach.
IF heretorore undiscovered cultural material is uncovered during
Cleanup, contact EXXON Archeologist C. Mobley immediately

C:\WP\DATA\CULTURED.SHO

SHORELINE CLEANUP PROGRAM

DATE May 5, 198	39	SHORELINE SE	GMENT GR-IB
LOCATION: (see	enclosed map) <u>G</u>	reen Island	
ADEC NO. 44	shoreline Ass	ESSMENT DATE:	4/29/89
Clean only at +	eanup Activity(ies) 4' tide or better, unvegetated cobble	high pressure	cold ok, hot water
Priorities Cons	iderations:		
	traints (from site at ends of cove ar		i-beach.
No access to heretofore undi cleanup, contacactions prescri	scovered cultural	he active bead materials are logical Field I tional Guidelin	ch. No fires. If uncovered during Director and take nes for Shoreline
Woughoo Rec State Historic	H Preservation Offic	Date: er *	5/13/89
EXXON:		Date:_	
FOSC:		Date:	

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

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 04 27 /89	Observer:_	Amdu		
Time: /4 h 00 m We	ather: Sun	(Cloud/I	Rain Snow	/Fog
LOCATION				
LOCATION Green Isl	SITE NW e	nd of	Green	Is)
LOCATION PREFIX GR	SEGMENT NUI	MBER	18	
LATITUDE: 6 d m s	LONGITUDE:	147 d_	m	_s
LENGTH OF SHORELINE SEGMENT: 850)m			
ACCESS: FOot/VEhicle BOat/BArge/HE	lio/Float	Plane		
SHORELINE:				
SHORELINE CHARACTER:				
BEach Spit Cove				
Wave Exposure: High Med/Low				
ROCK YN % 15 VErtical	/High Angle	LOW Ar	ngle	
SEdiment W/N & 85 Types: B	1000010	9 / 3 /	' M / R	
Strand Line YN Algae/Debr	is/Logs			
OIL				
LOCATION OF OIL: SU / SP (H) M				
CONTINUOUS: ON WIDTH OF BAND:	20 m	% of	Segment_	30
PATCHY: 10/20/30/40/50/60/70/80/90	coverage	% of	Segment_	
EST. OIL THICKNESS: cm EST.	OIL PENETE	RATION:	cm	
POOLED OIL: YA "FREE" OIL:	N WEATH	IERED: (Ώи	
STRAND LINE CLEAN OILED				
SUMMARY OILING: Amount High Med Coverage Extensive	Low Moderate	'Light		
COMMENTS:				

version: 4/24/89



ECOLOGICAL EVALUATION

LOCATION: Green Isl. SITE: NWend of Green OBSERVER: Amdur
LOCATION PREFIX: GR SEG. NO.: 18 LENGTH: 850 (M)
DATE: 89 /04 / 29 TIME (HHMM): 14:00 TIDE HT.: 0.5 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy Y/N Contin. O/N Dense ON Sparse Y/N None Y/N
Mytilus (Mussels): Patchy N Contin. Y/N Dense YN Sparse Y/N None Y/N
Balanus (Barnacles): Patchy YN Contin. Y/N Dense YN Sparse N None Y/N
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: Moderate Oiling in High & Splash zones
Clan w/ high prossure cold water around algue at +#1 Tide zone. Hot water ok on Bouldes on beach. Keep off
CLEANUP PRECAUTIONS: Ments at each end of Cove and
clean only at + 4'tide
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: few oyster cutoling.
GENERAL OBSERVATIONS:

(version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-29-89 Location GREEN ISLAND Site NW END OF GREEN ISLA
Location Prefix 6-R Segment # 18 Length 850 A
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) None Data Source
Oil conditions/beach visibility Heavy oil
Width of beach zone surveyed 4 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code) cmT
General observations justifying survey method and segment's site probability:
General observations justifying survey method and segment's site probability: Boach values must be large boulded to Seddook. Low FMT Shore Profile terace AT the western sad. Uplands Alse 3-5 m Above the
Fresh Water Sources Several Small Streams
Sea Exposure
Access/Safety Rocky Beach on AN Exposed coast
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # MAY 2 Frames 26 And 27
B/W Roll # Frames
Observer(s) Mike YARBOROGY
Time survey started 2:00 pg Time survey ended 3:30 pg
Cultural resource considerations/restraints:
No Access to the ARCA ABove the Active Beach No Fines .
IF nevetoFore undiscovered cultural material is uncovered
during cleanup, contact Exxon Anchieologist C. Mobiley immediately

Boomed Off
Not cleaned as of 5/8 Cleaned
(version 4/28/89)

SHORELINE CLEANUP PROGRAM

· •	
DATE:April 28, 1989	SHORELINE SEGMENT GR-1
LOCATION: (see enclosed map)) Green Island - Putnam Point to the most
westerly point of Green Is	land.
ADEC NOSHORELI	INE ASSESSMENT DATE: 89-04-28
Recommended Cleanup Activi	ty(ies):
	pient low pressure flushing/flooding of essure washing on rocky areas. Warm water e/boulder areas.
Priorities Considerations: Areas of heavy oiling. As stipulated under the at	tached "general guidelines"
crews directed accordingly	will be conducted by a biologist and
team will assess the shorel the equipment, and will restrictions/sensitivities material is uncovered during	above the upper surf line. Evaluation line cleaning site prior to operation of l notify the crew leader of any .If heretofore undiscovered cultural ng cleanup, contact Exxon archaeologist prescribed in the Operational Guidelines
State Historic Preservation EXXON: William & Stu FOSC: L. S. Poblims	Date: 4/28/89 Date: 4/28/89 Date: 4/28/89 Date: 4/28/89
* Signature required to sate land use permits for tide	11 / / /44

SHORELINE CLEANUP PROGRAM

DATE May 5, 1989	SHORELINE SEGMENT GR-2
LOCATION: (see enclosed map) South	end Gibbons Anchorage
ADEC NOSHORELINE ASSESS	MENT DATE: 4/27/89
Recommended Cleanup Activity(ies): No cleanup advised unless oil at sifishery.	tream outfall poses hazard to
Priorities Considerations:	
Ecological Constraints (from site so Wash impacted point with low pressu avoid stream mouth, cove is stream m not high priority.	re cold water. Use caution to
Archeological Constraints (from site If heretofore undiscovered cultural cleanup, contact Exxon's Archeologactions prescribed in the Operation Cleanup dated 4/21/89 as amended.	materials are uncovered during ical Field Director and take
State Historic Preservation Officer	Date: 5/13/89
EXXON:	Date:
FOSC:	Date:

^{*} Signature required to satisfy stipulations in Alaska DNR

DOCUMENTATION:

MAP/Aerial photo marking segment boundaries	
VTR: (Y)N Tape Number(s) Horry Young Tape 8	
PHOTOGRAPHY: YN Roll Number(s)	
SAMPLE NUMBERS COLLECTED:	
CTream Stron oiled Fucus Out HAMPI	
STream FINT THEORY THEORY TO SEGMENT Terrest: al V: leo of Segment - Aer: al v: deo O Rocky GT Beginn: ny of Tope &	
Rocky at Beginning of Tope &	•
Morise Patches - Bolder	
t Cobel	

C:\WP\DATA\SHOREVAL.1

ECOLOGICAL EVALUATION

DATE O 4 / 27 /1989 TIME (HHMM) /7:21 TIDE HT. (m) +2 m OILED ZONE: SPLASH (HIGH) MED LOW SUBSTRATUM: (ROCKS BOULDER COBBLE GRAVEL SAND MUD LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus #*O	LOCATION CAL	EEN Island	SIT	ESWEND G	ibbans Pr	OBSERV	er <u>A</u> w	rdur
SUBSTRATUM: ROCKS BOULDER COBBLE GRAVEL SAND MUD LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus O Mytilus / Balanus 25 Littorina O Nucella O Pagurus O Limpets Halosaccion Gelidium Other Oil Damaged Biota / Louis heavily impacted / Muscles weak / Blanus Clean-up Precautions Wash w/ low pressure at +7 Ticles AT point (Cove is Mouth of Stream) Do Not wash Strom Month Only OILED ZONE: SPLASH MED LOW USE Control working point SUBSTRATUM: MORE BOULDER COBBLE GRAVEL SAND MUD Strond LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus Mytilus Balanus Littorina Nucella Pagurus Limpets Halosaccion Gelidium Other OIL Damaged Biota Clean-up Precautions MAMMALS(#): OTTERS 2 HARBOR DALL OTHER OTHER	DATE <u>04 / 2</u>	<u>7</u> /1989	TIM	E (HHMM) <u>/ 7</u>	:21	TIDE HT	. (m)	+2m
LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus	OILED ZONE:	SPLASH (HIGH	MED	LOW			
Nucella O Pagurus O Limpets Halosaccion Gelidium Other Oil Damaged Biota Fucus heavy impacted Muscles weak Blanus Clean-up Precautions Wash w/ low pressure at +7 Ticles At point (Cove is Mouth of Stream) Doulot wash Stram Moint Couly OILED ZONE: SPLASH AND MED LOW USE Counted with working point SUBSTRATUM: MOSE BOULDER COBBLE GRAVEL SAND MUD avoid LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus Mytilus Balanus Littorina Nucella Pagurus Limpets Halosaccion Gelidium Other Oil Damaged Biota Clean-up Precautions MAMMALS(#): OTTERS 2 HARBOR DALL OTHER OTHER	SUBSTRATUM:	ROCKS B	OULDER	COBBLE	GRAVEL	SAND	MUD	
Nucella O Pagurus O Limpets Halosaccion Gelidium Other Other Oil Damaged Biota fucus heavly impacted / Muscles weak / Shanus occupance of the following form of the following following following form of the following fol	LIVE BIOTA /	DENSITY (#/	m² or %c	cover-alga	e):			
Oil Damaged Biota fucus heaving impacted / Muscles weak / Brianny of Clean-up Precautions wash w/ low pressure at +7 Tides AT point (Cove is Month of Stream) Do Not wash Stram Me found only only only only only only only only	Fucus #0	Mytilus_	15	Balanus_	25	Littor:	ina	0_
Oil Damaged Biota fucus heavily impacted / Muscles weak / Balanus of Clean-up Precautions wash w/ low pressure at +7 Tides AT point (Cove is Mouth of Stream) Do Not wash Stram Me Doing Only OILED ZONE: SPLASH MED LOW use Control working points SUBSTRATUM: MCGRS BOULDER COBBLE GRAVEL SAND MUD avoid LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus Mytilus Balanus Littorina Nucella Pagurus Limpets Halosaccion Gelidium Other Oil Damaged Biota Clean-up Precautions MAMMALS (#): OTTERS 2 HARBOR DALL OTHER OTHER	Nucella O	Pagurus	0	Limpets		Halosa	accion	
Clean-up Precautions Wash w/low pressure at +7 Tides AT point (Cove is Mouth of Stream) Do Not wash Stram Mond Only OILED ZONE: SPLASH HELD MED LOW USE CONTINU WORKING POINT SUBSTRATUM: ROCKE BOULEER COBBLE GRAVEL SAND MUD STRAIN LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus Mytilus Balanus Littorina Nucella Pagurus Limpets Halosaccion Gelidium Other Oil Damaged Biota Clean-up Precautions MAMMALS (#): OTTERS 2 HARBOR DALL OTHER OTHER	Gelidium	Other_						
OILED ZONE: SPLASH MED LOW USE CONTROL WORK POINT SUBSTRATUM: ROOSS BOULDER COBBLE GRAVEL SAND MUD STUDIES LIVE BIOTA / DENSITY (#/m² or *cover-algae): Fucus Mytilus Balanus Littorina Nucella Pagurus Limpets Halosaccion Gelidium Other Oil Damaged Biota Clean-up Precautions MAMMALS(#): OTTERS HARBOR DALL OTHER OTHER BIRDS:	Clean-up Prec	autions Way	sh w/1	ow press	uve a	lot wa	Tide	tran M
Fucus Mytilus Balanus Littorina Nucella Pagurus Limpets Halosaccion Gelidium Other Oil Damaged Biota Clean-up Precautions MAMMALS(#): OTTERS HARBOR DALL OTHER BIRDS:	OILED ZONE:	SPLASH (HILBER THE	MED	LOW		ce cu	utoul w
Nucella Pagurus Limpets Halosaccion Gelidium Other Oil Damaged Biota Clean-up Precautions MAMMALS(#): OTTERS HARBOR DALL OTHER OTHER BIRDS:	LIVE BIOTA /	DENSITY (#/n	or %c	over-algae	e):			FI
GelidiumOtherOil Damaged BiotaClean-up Precautions	Fucus	Mytilus		Balanus_		Littori	.na	
Oil Damaged Biota	Nucella	Pagurus_	····	Limpets	· · · · · · · · · · · · · · · · · · ·	Halosa	ccion_	
MAMMALS(#): OTTERS 2 HARBOR DALL OTHER OTHER .	Gelidium	Other_						
MAMMALS(#): OTTERS 2 HARBOR DALL OTHER OTHER .	Oil Damaged B	iota						
OTHER								
BIRDS:								
		TTERS 2	HARB	or	_ DALL_		other_	
	MAMMALS(#): O							

(GRZ)

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 4/27/89	Observer: Young, HIN. J.
Time:	eather: Sun Cloud Rain/Snow/Fog
LOCATION	
LOCATION SWERD, G: blons Archooge SEOT Potyment	SITE 6
LOCATION PREFIX	SEGMENT NUMBER 3
LATITUDE: 6 d m s	LONGITUDE: 147 dm_s
LENGTH OF SHORELINE SEGMENT: 40	om
ACCESS: FOot/VEhicle BOat/BArge/HI	Elio/Float Plane
SHORELINE:	•
SHORELINE CHARACTER:	
BEach/SPit/COve//	,
Wave Exposure: High Med/Low	
ROCK YON \$ 20 VErtical	
SEdiment Ø/N % Types: 1	G / C / P / G / S / M / R
Strand Line M/N Algae/Debi	cis logs - supert: Int- Fuidence of the stranding - MANY years ago-
OIL FEW INCL	-" Log s
LOCATION OF OIL: SU / SP / H / M)/ î
CONTINUOUS: YN WIDTH OF BAND:	m % of Segment
PATCHY: 10, 30/40, 50/60/70/80/90 Thin (04+:-, To / 0 EST. OIL THICKNESS:	% coverage % of Segment 5%
EST. OIL THICKNESS: cm EST.	OIL PENETRATION:cm
POOLED OIL: YN "FREE" OIL: Y	weathered: (Y) n
STRAND LINE CLEAN OILED	_
SUMMARY OILING: Amount High/Med Coverage Extensive	/(Cor) ve/Moderate/Light
Several Parches of Fucus of COMMENTS: Parch of Moderatly of led ES 15MX 40M	re/Moderate/Light ~ Millia Pootion of Segment 2 M Fucus At MID T: Dol Zong

Sw END 6-1600ms Androwle
vate 4-27-89 Location G-RIEEN IS/And Site Cove Sw of Gibbon Ancholace
Location Prefix 6 Segment # 2 Length m
Survey Method: Air (A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Light oil Good visibility
Width of beach zone surveyed m Tree fringe surveyed up to 15 m
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: Moderately Steep, Angular Boulder Brack. High Rocy Shore Profile Faces Both Fast and west or Lowlands at the head of the co
Fresh Water Sources LARLY SAlmon STREAM DRAINING JAME
ea Exposure open to the North And EAST
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes/ho
Photos: Color Roll # Frames
B/W Roll # Frames
Observor(s) Mike YALBOROUGH
Time survey started S: 22 pm Time survey ended 7:30 pm
Cultural resource considerations/restraints:
IF PARVIOUSly undiscovered cultural Resources Are uncovered during
clamp, contact exxon Archeologist C mobley inacdintely.

Taked for now-need to writy "low out-low priorty". Changed to
Addendum to high segre air eligh priority

Penipal Haul-out file

Shiped.

(version 5/02/89)

2 May

SHORELINE CLEANUP PROGRAM

DATE 4/27/89 ~	SHORELINE SEGMENT GR-3
LOCATION: (see enclosed map) North	n East point of Large Island,
adjacent to Green Island.	
ADEC NOSHORELINE ASSES	SSMENT DATE: 4/2//89
Recommended Cleanup Activity(ies):	
	eadland has patches which could be cleaned
if it presents a Pinniped hazard. Li	ttle danger of oil refloating.
Priorities Considerations:	
Pinniped Haulout.	
Ecological Constraints (from site	survey): Clean-up is not recommended
	ed (400) meters should be cleaned, although
it is a low priority. Clean with low	pressure cold wash when tide is $N + 7$.
Archeological Constraints (from si	
If heretofore undiscovered cultural cleanup, contact Exxon's Archeological Contact Exxon's Archeology (Contact Exxon's Archeology)	l materials are uncovered during
actions prescribed in the Operat	
Cleanup dated 4/21/89 as amended.	
<i>γ</i> 1 ,	
Phyla & Homes	Date: 5/4/89
State Historic Preservation Office	
$ \cdot $	-1.100
EXXON: Wh Stuby	Date: 5/4/87
FOSC:	Date:

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

[revised 17 Apr 89]

SHORELINE OIL EVALUATION

Date: 27 / 12PN 189 Observer: Young Forcett Amou	^
Time: //00 h m Weather: Sun/Cloud/Rain/Snow/Fo	g
LOCATION NE POINT of Long	
LOCATION GREEN ISLE SITE ISLAND N+W 0+ (Main)	ST E
LOCATION PREFIX GR SEGMENT NUMBER 3	
LATITUDE: 6 d m s LONGITUDE: 147 d m s	
LENGTH OF SHORELINE SEGMENT: FOO m	
ACCESS: FOot/VEhicle/BOat/BArge/HElio/Float Plane	
SHORELINE:	
SHORELINE CHARACTER:	
BEach/SPit/Cove/Po:at//	
Wave Exposure: Kigh/Med/Low	
ROCK Y/N % Fo VErtical High Angle/Low Angle	
SEdiment Y/N % 20 Types: 6/6/P/G/S/M/R	
Strand Line YN Algae/Debris/Logs	
OIL	aO
LOCATION OF OIL: SU /SP / BD / M / L CONTINUOUS: D/N WIDTH OF BAND: 2 m & of Segment	τ
CONTINUOUS: Ø/N WIDTH OF BAND: 2 m % of Segment_	_
PATCHY: (10/20/30/40/50/60/70/80/90% coverage % of Segment 5%	?
EST. OIL THICKNESS: F:/m cm EST. OIL PENETRATION: /- cm	
POOLED OIL: YAV WEATHERED: YAV	
STRAND LINE CLEAN/OILED	
SUMMARY OILING: Amount High/Med/Low Coverage Extensive/Moderate/Light	
COMMENTS: A Few parches of 0:1ed Fucus at UppertEntert	; el

DOCUMENTATION: NE Point of Long Island
MAP/Aerial photo marking segment boundaries
VTR: QN Tape Number(s) 8 Acrial + Taraini
PHOTOGRAPHY: (Y)N Roll Number(s) John Andur
SAMPLE NUMBERS COLLECTED: //
Video of entire shouling at Lontide - Few Patches of Mousse at NET NU End Of Island are on video tope. Coverage of
0: / is extremy patchy with MOST gITZ
Clem.
the state of the s

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(GR: 3)

ECOLOGICAL EVALUATION

	LOCATION: Green Ist SITE: Long Ist N.W. Paitobserver: Fawart Amdur
	LOCATION PREFIX: GR SEG. NO.: 3 LENGTH: (M)
	DATE: 89/04/27 TIME (HHMM): 10:00 TIDE HT.: 666ing + 0.3 (M)
	OILED ZONE: Splash High Medium Low
	SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
	LIVE BIOTA
	Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	Mytilus (Mussels): Patchy YN Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	mestly small 1-2 cm mestly same age group mixed w/ occassional
	Balanus (Barnacles): Patchy Y/N contin. Y/N Dense Y/N Sparse Y/N None Y/N
	Continues bands of Balanus glandula, patory B. Carbsus
	Littorina Patchy YN Contin. ON Dense YN Sparse Y/N None Y/N
	littorines Seem ak, even there in ailed areas
	Limpets: Patchy (Y) N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	OTHER OBSERVATIONS: 400m Stretch of high intertidal on east side of
	point tended to be heavily oiled-mouse zone 10-20m wide on low angle rocks
	CLEANUP PRECAUTIONS: Clean up not recomended for most segmen
	and should be cleaned w/ low pressure cold wash and should be done at mid tide w+71 (Not High Priorit
י ע	MAMMALS: Otters Harbor Seals Sea Lions Whales
	BIRDS: (1) dead min partly eaten.
	GENERAL OBSERVATIONS:

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-27-89 Location GAFEN Island Site NE point or Long Island
Location Prefix GR Segment # 3 Length
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Patchy, 1,54+ oil
Width of beach zone surveyed 25 m Tree fringe surveyed 10-30 m
Cultural resources observed in beach zone (AHRS code) Nowe
Cultural resources observed in tree fringe (AHRS code) <- HTL
General observations justifying survey method and segment's site probability:
General observations justifying survey method and segment's site probability: FIRT ANJUIAL BOULDER BEACH WITH UPPER ZONE OF VEGETATION - Shore Profile Covered Rock. FIRT UPLANDS RISING UP to 3 m. Above the BEACH Shore Profile Covered Rock.
Fresh Water Sources Small Streams
Sea Exposure Exposed in All directions
Access/Safety Difficult landing on exposed locky beach.
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes/no
Photos: Color Roll # MAy 7 Frames 5-9
B/W Roll # Frames
Observer(s) Mile YARBOROUGH DAVE McMahan
Time survey started 10:44 Am Time survey ended 12:32 pm
Cultural resource considerations/restraints:
II undiscovered cultural remains are uncovered during
cleanup, contact Exxon Archeologist C. mobley immediately.

Signed Of On

Addendem to Penniped Haul-out tile

(version 5/02/89)

forms for GR-6 missing?

SHORELINE CLEANUP PROGRAM

DATE_	4/27/8	39		SHORELINE	SEGMEN	TGR-4	
LOCAT	rion: (:	see enclosed	map) GR	EEN ISLAND/	Channel	Island	
ADEC	NO	sho	DRELINE ASSES	SMENT DAT	ΓΕ: <u>4/</u>	27/89	
Recon	Pinni	_	tivity(ies): ea - oiling oni fucus.	sland is is	solated a	nd light.	, Confined
Prior							for two hundred
Ecolo	only	if concerned	over pups (High (from site	Tidezone).		II Impact	. Is low, crean
If he clear actio	retofo nup, c ons pr	ore undiscovo ontact Exxo	nts (from si ered cultural n's Archeolo the Operat: as amended.	material	ls are u eld Dir	ector a	and take
4	harla	~	ma sation Office	Da r *	te: <u>5/</u>	14/89	
EXXON	I:	·		Da	te:		
FOSC:	'			Da	te:		

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 27 April 189 Observer: Young H.N. Ji
Time: 12 h 57 m Weather: Sun/Cloud Rain/Snow/Fog
LOCATION
LOCATION Charel Is SITE
LOCATION PREFIX GR SEGMENT NUMBER 4
LATITUDE: 6 d m s LONGITUDE: 147 d m s
LENGTH OF SHORELINE SEGMENT: m (Extinc Island
ACCESS: FOot/VEhicle/BOat/BArge/HElid/Float Plane
SHORELINE:
SHORELINE CHARACTER:
BEach/SPit/Cove//
Wave Exposure: High/Med/Low 2073
ROCK YN % VErtical/High Angle/Low Angle
SEdiment (9/N % 85 Types: B/C/F/C/S/M/R
Strand Line YN Algae Webris Logs
OIL New Zone - Or Haus out
TOCATION OF OTT. CIL / CD / H / H / T OF FUCES 200 M Band-5MW
CONTINUOUS: Y/N WIDTH OF BAND: m % of Segment
PATCHY: 20/30/40/50/60/70/80/90% coverage % of Segment 59.
EST. OIL THICKNESS: 74: Coating of EST. OIL PENETRATION: cm
POOLED OIL: YN "FREE" OIL: YN WEATHERED: WYN STRAND LINE CLEAN OILED
STRAND LINE CLEAN OILED
SUMMARY OILING: Amount High/Med/Low Coverage Extensive/Moderate/Light
comments: Island is clean in most areas - Path of
0: liv Fucus on NE, NW, and BW- 20045M-NW PONOT Recommend Clean-puntace
TRACES - EE Trace o: ling on FULLS is a Hazard to Seal C:\WP\DATA\SHOREVAL. 1 Haulout + Pupping - OTTER observed Swimming SE Eno of Island -

DOCUMENTATION:	
MAP/Aerial photo marking segment boundaries	
VTR: (1)/N Tape Number(s) &- Ac:: L + Tee;+: L-Comple. TSTA Comple. PHOTOGRAPHY: (Y)N Roll Number(s) Toka Ladar by Mann	T e -41-0
PHOTOGRAPHY: YN Roll Number(s) Toke Lader by Mare	7 /04
SAMPLE NUMBERS COLLECTED:	
Roch Pile Grassy Blatt Pelile Bonch - 707. High Blatt 10.1. Pelile Bonch - 707.	•

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version: 4/24/89



ECOLOGICAL EVALUATION

LOCATION: Green 151. SITE: Channel S. OBSERVER: Fawcett/Amdu
LOCATION PREFIX: GR SEG. NO.: > 4 LENGTH: (M)
DATE: 89 /04 / 24 TIME (HHMM): 13:00 TIDE HT.: +.3 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy (Y/N Contin. Y/N Dense (Y/N Sparse Y/N None Y/N
None on cobble beaches on west side
Mytilus (Mussels): Patchy N Contin. Y/N Dense Y/N Sparse Y N None Y/N
few dense latches among gravel & boulders
Balanus (Barnacles): Patchy N Contin. Y/N Dense N Sparse Y/N None Y/N
dense patches on most rocky & stable boulders
Patchy (Y) N Contin. Y/N Dense (D) N Sparse Y/N None Y/N
Extremely dense in rocks on west side, feeding on drift algae
Limpets: Patchy O/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Scattered among rocks & bouldous
OTHER OBSERVATIONS: few animals among bare de Cobble
and gravel. He high energy Steep beach on west side
CLEANIN DESCRIPTIONS NO CLEAN ASSEMBLE
CLEANUP PRECAUTIONS: NO Cleanup recomended OKCEPT POSSILLY 19
Pressure washing although oil impact minimal.
MAMMALS: Otters 2 Harbor Seals 2 Sea Lions Whales
BIRDS: Oyster Catchers (many)
FENERAL OBSERVATIONS:

(version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Deer reviewed Small are - 12 de Manuel - adjaignt meas to.

(version 5/02/89)

Start & Cleaning 5/8

SHORELINE CLEANUP PROGRAM

DATE May 2, 1989	SHORELINE SEGMENT GR-5
LOCATION: (see enclosed map) Gre	en Island
ADEC NOSHORELINE ASS	ESSMENT DATE: 4/29/89
Recommended Cleanup Activity(ies) Secondary priority cleanup area. +5' tide (flooding).	Use high pressure warm water at
Hot water can be used if it allows less interference with the marine	
Priorities Considerations: Avoid using warm water on live ani only on unvegetated rocks in +7'	
Ecological Constraints (from site Community below oiled zone is heat ok in oiled zone and on vertical and with as few people as possil Potential seal pupping area so mu	olthy, no hot water. High pressure I face. Do entire island quickly ble, do only at rising 5' tide.
Archeological Constraints (from s If heretofore undiscovered cultural cleanup, contact Exxon archaeolog prescribed in the Operational G dated 4/21/89 as amended.	al materials are uncovered during gist C. Mobley and take actions
Marker & Holmes State Historic Preservation Office	Date: 5/2/89
EXXON: Chang	Date: 5/3/89
FOSC:	Date:

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

7 . 6

SHORELINE OIL EVALUATION

Date: 04 29 /89	Observer: Amdur
Time: 11 h 25 m	Weather: Sun/Cloud Rain/Snow/Fog
LOCATION	
LOCATION Green Isl.	SITE SMALL ISLAND NORTH OF "LONG ISLAND
LOCATION PREFIX GR	SEGMENT NUMBER5
LATITUDE: 6dms	LONGITUDE: 147 dm_s
LENGTH OF SHORELINE SEGMENT: 2	TO m
ACCESS: FOot/VEhicle/BOat/BArge/H	Elio/Float Plane
SHORELINE:	
SHORELINE CHARACTER:	
BEach/SPit/Cove	
Wave Exposure: High Med/Low	
ROCK YN & 80 Vertica	l/High Angle Low Angle
SEdiment Y/N % 20 Types:	B/C/P/G/S/M/R
Strand Line Y/N Algae/Deb	ris/Logs
OIL	
LOCATION OF OIL: SU / SP / H / M	: / L
CONTINUOUS: (Y)N WIDTH OF BAND:	
PATCHY: 10/20/30/40/50/60/70/80/9	0% coverage % of Segment
EST. OIL THICKNESS: Cm EST TO Surfue Coat	. OIL PENETRATION:cm
POOLED OIL: Y/N "FREE" OIL: (Yn weathered: Yn
STRAND LINE CLEAN/OILED	•
SUMMARY OILING: Amount digh Me Coverage Extensi	d/Low ve/Moderate/Light
COMMENTS:	
Sousitive area due to Ha	-bouseal habatat.

version: 4/24/89



ECOLOGICAL EVALUATION

LOCATION: Green Isl. SITE: 015 Long Island " OBSERVER: F	mdur
LOCATION PREFIX: GR SEG. NO.: 5 LENGTH: 12	
DATE: 89 /04/29 TIME (HHMM): 11:25 TIDE HT.:	
OILED ZONE: Splash High Medium Low	
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud	
LIVE BIOTA	
Fucus (algae): Patchy Y/N Contin. N Dense Y/N Sparse Y/	/N None Y/N
Lots of Fucus in Interndal, lang greens & browns als Ell quass in Tidepools Mytilus (Mussels): Patchy (Y/N Contin. Y/N Dense (Y/N Spars	se Y/N None Y/N
MyTilus present in large books, heavy oil in oiled	
Balanus (Barnacles): Patchy (Y)N Contin. Y/N Dense (Y)N Span	
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 (7)'N None	ne Y/N
other observations: Isopods, Tidepool fish, and Pagar below oiled zone i Many Huber Scals in avea, hawours for Seals, Island possible puping avea	
haulouts for seals. Island possible puping area	
CLEANUP PRECAUTIONS: Cleanup have is a priority, Problem	
Clean only at 5.5' tide (Flood only). Low pressure col	erbouce possible
MAMMALS: Otters 4 Harbor Seals +7 Sea Lions What	
Other	1169
BIRDS:	
GENERAL OBSERVATIONS:	

(version of 4/25/89)

COLTURAL RESOURCE EVALUATION FOR OILED SHORELINE .
Date 4-29-89 Location GARRN ISLAND Site on "Long Island"
Location Prefix GR Segment # 5 Length 250 m
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Nowe Data Source
Oil conditions/beach visibility Heavily oile
Width of beach zone surveyed 5 m Tree fringe surveyed 5 land
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 Steep Boulder and Bodrock Beach. Sw and Flat and grass covered on and supports two trace covered Bodrock Stacks. Fresh Water Sources None
Sea Exposure wide open to the North and North west
Access/Safety Difficult LANding on AN Exposed Rocky Beach
Probability of undiscovered sites in beach zone (circle one) ① 2 3 4 5
Monitoring during cleanup needed yes no Collection yes/no
Photos: Color Roll # Frames Frames
B/W Roll # Frames
Observer(s) Nike Ymasorough
Time survey started 11: 25 Am Time survey ended 12: 30 pm
Cultural resource considerations/restraints:
IF HEREtOFORE Undiscovered cultural REMAINS ARE uncovered during
clean up contact Pexxon Ancheologist C. Mobiley immediately

Signed off on Pinniped Haulout

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 4/29/89	SHORELINE SEGMENT GR-6
LOCATION: (see enclosed map)	GREEN ISLAND
	3+ 8H / F
ADEC NOSHORELINE	ASSESSMENT DATE: 4/29/89
	ies): NONE, Do not clean. Oil stain line, well above the area used by seals. marine community.
Priorities Considerations:	
Pinniped Haulout.	
Ecological Constraints (from s	site survey):
Low to no impact. Stains high on	vertical rocks. Do not clean.
cleanup, contact Exxon's Arch	tural materials are uncovered during heological Field Director and take erational Guidelines for Shoreline
Charles 7. Homes State Historic Preservation Of	Date: 5/4/89
EXXON:	Date:
FOSC:	

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

. version: 4/24/89



ECOLOGICAL EVALUATION

LOCATION: Green Isl. SITE: Sed Hawauts OBSERVER: Amdur
LOCATION PREFIX: GR SEG. NO.: 6 LENGTH: (M)
DATE: <u>29/64/29</u> TIME (HHMM): //:25 TIDE HT.: 75 (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 Peuse alge quowth in band to High Tidel Zone 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
of mitter
CLEANUP PRECAUTIONS: Do not clean oil Stain may look bad but
its in upper zone w/ No effect on Seals or marine Community
MAMMALS: Otters 10 Harbor Seals 15 Sea Lions Whales
BIRDS:
GENERAL OBSERVATIONS: Keep away

[revised 17 Apr 89] SHORELINE OIL EVALUATION

Date: 04 / 29 /89	Observer: Amdur
Time: 1 h 25 m	Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Green Isl.	SITE Seal Haulouts
LOCATION PREFIX GR	SEGMENT NUMBER6
LATITUDE: 6 d m s	LONGITUDE: 147 dm_s
LENGTH OF SHORELINE SEGMENT:	m
ACCESS: FOot/VEhicle BOat/BArge/H	Elio/Float Plane
SHORELINE:	•
SHORELINE CHARACTER:	
BEach/SPit/COve//_	Rock pinnele
Wave Exposure: High Med/Low	
ROCK YN % 100 VErtica	l High Angle Low Angle
SEdiment Y/N % Types:	B / C / P / G / S / M / R
Strand Line YM Algae/Deb	ris/Logs
<u>oil</u>	
LOCATION OF OIL: SU / SP / H / M	I/L
CONTINUOUS: (2)/N WIDTH OF BAND:	
PATCHY: 10/20/30/40/50/60/70/80/9	0% coverage % of Segment
EST. OIL THICKNESS: Coating on EST	OIL PENETRATION:cm
POOLED OIL: YN "FREE" OIL:	YN WEATHERED: WN
STRAND LINE CLEAN/OILED	
SUMMARY OILING: Amount High/Me Coverage Extensi	d Low ve/Moderate Light
COMMENTS:	
Tar Stain on few rocks well above point used by	at extreme tideline
well above point used by	Harbor Seuls.

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(version of 4/25/89)

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-29-89 Location CREEN Island Site SEAL Haulouts
Location Prefix GR Segment # 6 Length_
Survey Method:
Air (A - indicate on map) Boat (A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Light conting
Width of beach zone surveyed m Tree fringe surveyed
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 wave washed offshore Rocks
Fresh Water Sources
Sea Exposure open
Access/Safety NOT Accessible
Probability of undiscovered sites in beach zone (circle one) 12 3 4 5
Monitoring during cleanup needed yes no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) MINE YARBOROUGL
Time survey started 11:25 Am Time survey ended 12:30 pg
Cultural resource considerations/restraints:
IF heretofore undiscovered cultural REMAINS Are Found
during cleanup contact Exxon Archeologist C. Mobiley
immediately.

SHORELINE CLEANUP PROGRAM

DATE May 5, 1989	SHORELINE SEGMENT GR-9
LOCATION: (see enclosed map) Gree	en Island
ADEC NOSHORELINE ASSE	SSMENT DATE: 4/30/89
Recommended Cleanup Activity(ies): Use hot water (180 dgr.) on cobble stream area in mid-cobble beach. and remove all oiled fucus.	beach on heavy tar areas. Avoid
Priorities Considerations: I don't believe the stream is used ADF&G atlas of anadromous fish stro Cleaning stream bed (seep from upl	eams. If not in atlas, recommend
Class 2B	
Ecological Constraints (from site Reef community seems ok. Try to avoides. High pressure is ok but no algae.	oid working on reefs below +7.5'
Archeological Constraints (from si No access above the active bea undiscovered cultural materials contact Exxon's Archeological Fig prescribed in the Operational Gu dated 4/21/89 as amended.	ach. No fires. If heretofore are uncovered during cleanup, eld Director and take actions
State Historic Preservation Office	
EXXON:	Date:
FOSC:	Date:

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: <u>64</u> / <u>30</u> /89	Observer: Amdur
Time: 08 h 45 m	Weather: Gur/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Green Isl.	SITE NW Cost of Green Is
LOCATION PREFIX GR.	segment number
LATITUDE: 6 d m s	LONGITUDE: 147 dm_s
LENGTH OF SHORELINE SEGMENT: 30	0 <i>0</i> m
ACCESS: FOot/VEhicle/BOat/BArge	HElio/Float Plane
SHORELINE:	
SHORELINE CHARACTER:	
Beach Spit/Ove	
Wave Exposure: High/Med/Low	
ROCK WN \$ 50 Vertic	cal/High Angle Low Angle
SEdiment (Y)N % 30 Types	B/C/P/G/S/M/R
Strand Line 6/N Algae/De	ebris/Logs
OIL	
LOCATION OF OIL: SU / SP /H/	
CONTINUOUS: (Y) N WIDTH OF BANK	0: <u>/8 m</u> % of Segment <u>90</u>
PATCHY: 10/20/30/40/50/60/70/80	/90% coverage % of Segment /0
EST. OIL THICKNESS: 1-2 cm ES	ST. OIL PENETRATION:O cm
POOLED OIL: Ø/N "FREE" OIL:	
STRAND LINE CLEAN OILED	
SUMMARY OILING: Amount High/I	Med/Low sive Moderate/Light
COMMENTS:	

version: 4/24/89

ECOLOGICAL EVALUATION



LOCATION	Green Isl. SITE: NW	Coast OBSERVE	R: Amdur
LOCATION	PREFIX: GR SEG. NO.:	9 LENGTH:	300 (M)
DATE: 89	/04/30 TIME (HHMM): 8	:45 TIDE HT.:_	+3.3 (M)
OILED ZON	WE: Splash (High) Medium L	,ow	
SUBSTRAT	M: Rocks Boulder Cobble	Gravel Sand Mud	
LIVE BIOT	CA CONTRACTOR		
Fucus (a)	.gae): Patchy (YN Contin.	Y/N Dense (Y)N Spar	rse Y/N None Y/N
Fucus Cu-trom Mytilus	danse on Rock Veefs, or the August of the Mussels): Patchy (YN Cont	less on Cabble. Le pools, in. Y/N Dense Y/N	Sparse(Y)N None Y/N
	Barnacles): Patchy (V) N Co		
,	YN Contin. Y/N Dense (1/1)		Y/N
Limpets:	Patchy N Contin. Y/N Do	ense Y/N Sparse 🗹/N	None Y/N
	ERVATIONS: Oiled Ofter		A ghome.
	RECAUTIONS: High pressure old interference below ole beach (180°) ok.		
•	Otters Harbor Seals		
BIRDS: \angle	oiled seabird (Corman	aut?) w/ head &	earen.
	BSERVATIONS: Oil on Cal	•	
	in awas. Oil is Tarlik		
Plirtle !	or no peneantion.	•	

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-30-89 Location GREEN Island Site Northwest COAST
Location Prefix GR Segment # 9 Length
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Nove Data Source
Oil conditions/beach visibility Heavy oil 8 m wide Band or unoiled upper
Width of beach zone surveyed 8 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code) NONC
Cultural resources observed in tree fringe (AHRS code) CON, HTI
General observations justifying survey method and segment's site probability: 144 of varies from 500 to Mr. From Address And large boulders to 144 consiles and boulders, uplands include both vertical clines and Shore Profile Raised Arach Aidge in Front of A large.
Shore Profile Asised seath Aide in Front of A lake.
Fresh Water Sources Lake, large seep through the Asised Beach Aidge
Sea Exposure open to the North
Access/Safety DIFFICUIT LANding on AN exposed Beach.
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # MRY Z Frames 76-30
B/W Roll # Frames
Observer(s) mile YARBOROUGH
Time survey started 8:45 Am Time survey ended 10:34
Cultural resource considerations/restraints:
NO ACCESS ABOVE the Active BEACH. NO FIRES. Should HeretoForce
undiscovered cultural remains Be uncovered During cleanup.
contact Exxon Ancheologist C. Mobley immediately.

SHORELINE CLEANUP PROGRAM

DATE May 5, 1989	SHORELINE SEGMENT GR-10
LOCATION: (see enclosed map) Green 1	Sland
ADEC NOSHORELINE ASSESS	SMENT DATE: 4/30/89
Recommended Cleanup Activity(ies): Use moderate (±100 LBS) pressure to on rocks with eastern exposure. Wor: interference with subtidal communit	k on +6' tides or better. Avoid
Priorities Considerations: Class 3A	
Ecological Constraints (from site s Live animals present in oiled area high temperature is recommended. Wo	, moderate pressure ok but no
Archeological Constraints (from sit If heretofore undiscovered cultural cleanup, contact Exxon's Archeologactions prescribed in the Operation Cleanup dated 4/21/89 as amended.	materials are uncovered during gical Field Director and take
Wacufas Regle State Historic Preservation Officer	
EXXON:	Date:
FOSC:	Date:

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 04 / 30 /89	Observer: Amdur
Time: 10 h 34 m	Weather: Sur/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Green Isl.	SITE Northwest Coast
LOCATION PREFIX GR	SEGMENT NUMBERO
LATITUDE: 6 d m s	LONGITUDE: 147 dm_s
LENGTH OF SHORELINE SEGMENT: 4	85 m
ACCESS: FOot/VEhicle BOat/BArge	/HElio/Float Plane
SHORELINE:	
SHORELINE CHARACTER:	
BEach/SPit(COve)/	
Wave Exposure: High Med Low)
ROCK WN & 30	Aldigh Angle Low Angle
SEdiment (Y)N % 70 Types:	B/C/P/G S/M/R
Strand Line Y/N Algae/De	abris/Logs
OIL	
LOCATION OF OIL: SU / SP /H/	M / L
CONTINUOUS: ON WIDTH OF BAND): <u>/O</u> m % of Segment <u>50</u>
PATCHY: 10/20/30/40/50/60/70/80/	90% coverage % of Segment 50
EST. OIL THICKNESS: Coating CM ES	T. OIL PENETRATION: Cm
POOLED OIL: YN "FREE" OIL:	⟨Y⟩ N WEATHERED: ⟨Y⟩ N
STRAND LINE CLEAN/OILED	
SUMMARY OILING: Amount High/G Coverage Extens	ed/Low live/Moderate/Light
COMMENTS:	

version: 4/24/89

ECOLOGICAL EVALUATION



LOCATION: GREEN ISL. SITE: Northwest Coast OBSERVER: Andur
LOCATION PREFIX: GR SEG. NO.: 10 LENGTH: 485 (M)
DATE: <u>89/04/30</u> TIME (HHMM): <u>/0:34</u> TIDE HT.: 3 (M)
OILED ZONE: Splash (High) Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy(Y)N Contin. Y/N Dense(Y)N Sparse Y/N None Y/N
Dence on Reef Structures, alive below oiled zone & Some alive in oil. Enteromerpha present in trappost and celquar Mytilus (Mussels): Patchy (Y) N Contin. Y/N Dense (Y/N Sparse Y/N None Y/N
Dense parded of mussiels (stressed) ~ 50% etill aline
Balanus (Barnacles): Patchy y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
no activity seen , some High zone and Super zone balances
Littorina Patchy YN Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Limpets: Patchy (Y) N Contin. Y/N Dense (N) Sparse (T/N) None Y/N
Few seen, most in oiled zones dead or slow to vespond.
OTHER OBSERVATIONS: MAST points & Coves with Castern Chiposure
has oil, less oil on west side of vect - sometures.
CLEANUP PRECAUTIONS: USe moderate pressure ~ 100 165 to
Clean veers with line animals. Clean at +6' tides or bot
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS:
GENERAL OBSERVATIONS: Subtidal Communitys look healty.

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-30-89 Location GREEN Island Site NORTHWEST COAST
Location Prefix GR II Segment # 10 Length 485 m
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Moderate contint of oil.
Width of beach zone surveyed op 10 20 m Tree fringe surveyed —
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 Aigh cluses
resh Water Sources Small thickles Down the chief FACES.
Sea Exposure open to the worth
Access/Safety Aucceo, resposed beach.
Probability of undiscovered sites in beach zone (circle one) 12 3 4 5
Monitoring during cleanup needed yes no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) Aike YALBOROUGH
Time survey started 10:34 Time survey ended 11:30
Cultural resource considerations/restraints:
IF nanetoFor undiscovered cultural Remains and 1=ound
during cleanup, contact exxon Archaelogist C. Mobiley
in media lély

SHORELINE CLEANUP PROGRAM

DATE <u>May 5, 1989</u>	SHORELINE SEGMENT GR-11
LOCATION: (see enclosed map)	Green Island
ADEC NOSHORELIN	E ASSESSMENT DATE: 4/30/89
Recommended Cleanup Activity Hot water (180 dgr.) ok on vegetated zones above +6' removal should remove most o	vertical faces. High pressure cold on tide. Remove all oiled plants. Plant
Priorities Considerations: Class 3A	
Ecological Constraints (from Live animals present in oil vegetated zones.	n site survey): led areas. Use high pressure only in
cleanup, contact Exxon's A	ultural materials are uncovered during rcheological Field Director and take Operational Guidelines for Shoreline
Woughs Reguration	Date: 5/13/89
EXXON:	Date:
FOSC:	Date:

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

[revised 17 Apr 89] SHORELINE OIL EVALUATION

Date: <u>64</u> / <u>30</u> /89 Observer: <u>Amdur</u>
Time:h Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION
LOCATION Green Isl. SITE
LOCATION PREFIX GR SEGMENT NUMBER
LATITUDE: 6 d m s LONGITUDE: 147 d m s
LENGTH OF SHORELINE SEGMENT:m
ACCESS: FOot/VEhicle/BOat/BArge/HElio/Float Plane
SHORELINE:
SHORELINE CHARACTER:
BEach/SPit/Cove/Point / Terrue/
Wave Exposure: High Med/Low
ROCK (Y/N % 75 VErtical/High Angle/Low Angle)
SEdiment (Y/N % 25 Types: B / C / P / G / S / M / R
Strand Line Y/N Algae/Debris/Logs
<u>oil</u>
LOCATION OF OIL: SU / SP /H / M / L
CONTINUOUS: Y WIDTH OF BAND: 10 m % of Segment 25
PATCHY: 10/20/30/40 50/60 70/80/90% coverage % of Segment 75
EST. OIL THICKNESS: Coaning on EST. OIL PENETRATION: _O om
POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N
STRAND LINE CLEAN/OILED
SUMMARY OILING: Amount High Med Low Coverage Extensive Moderate Light
COMMENTS:
Oil mouse on marine plants, Tor and weathered oils on
Vertide rocks.

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version: 4/24/89

(QR-11)

ECOLOGICAL EVALUATION

LOCATION: Green Isl. site:	OBSERVER:	Amdur
LOCATION PREFIX: 6K SEG. NO.: 11	LENGTH:	(M)
DATE: 89 /04/30 TIME (HHMM): 11:30 T	IDE HT.:	2.5 (M)
OILED ZONE: Splash (High) Medium Low		
SUBSTRATUM: Rocks Boulder Cobble Gravel S	and Mud	
LIVE BIOTA		
Fucus (algae): Patchy(Y)N Contin. Y/N Dense	Y)N Sparse	Y/N None Y/N
Heavy hands of fucus in oil zone retained to the property of the Mytilus (Mussels): Patchy (Y) N Contin. Y/N D	ense YN Spa	Asuse Arse Y/N None Y/N
OK below oiled zones, mostly dead in	upper.	
Balanus (Barnacles): Patchy (Y)N Contin. Y/N	Dense Y/N Sr	parse(Y)N None Y/N
Littorina Patchy (Y)'N Contin. Y/N Dense (Y)'N Sparse (Y/N None Y/N	Ī
Limpets: Patchy YN Contin. Y/N Dense Y/N	Sparse(Y)N N	one Y/N
OTHER OBSERVATIONS: Reef at NE point S	hoyd be a	c and
lette alone, mostly undrumen during	oiling	
CLEANUP PRECAUTIONS: low Temp hat warm	ok it ne	ded most
Oil son fucus, use hot (120°) war		
MAMMALS: Otters Harbor Seals Sea I	Lions W	hales
BIRDS: Oysan cature on point		
GENERAL OBSERVATIONS: Oil Clinquig To fue	us above	+8' tide zone
· ·		

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-30-89 Location GAISIN Island Site north west coast
Location Prefix GR Segment # 11 Length_
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Nove Data Source
Oil conditions/beach visibility
Width of beach zone surveyed m Tree fringe surveyed
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 Moulder, and coasle and sedeout seach in Front OF MOUL CLIFFS
Fresh Water Sources Nowl
Sea Exposure Ofen to the wath
Access/Safety Victually UNACCESSIBLE
Probability of undiscovered sites in beach zone (circle one) 1 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) Mike YAR HOROGL
Time survey started 11:50 Time survey ended 11:53
Cultural resource considerations/restraints:
I = previously undiscovered cultural material is uncovered
during cleanup, contact Exxon Archeologist C. mobley
immediately

SHORELINE CLEANUP PROGRAM

DATE May 5, 1989 SHOR	ELINE SEGMENT GR-12		
LOCATION: (see enclosed map) Northwest	coast of Green Island		
ADEC NOSHORELINE ASSESSMEN	NT DATE: 4/30/89		
Recommended Cleanup Activity(ies): None, no oil.			
			
Priorities Considerations:			
Ecological Constraints (from site surve Clean area, no cleanup needed.	ey):		
Archeological Constraints (from site survey): Cultural resource evaluation not completed, no oil. If cleanup is planned, cultural resource evaluation should be conducted.			
Wonglas Regle State Historic Preservation Officer *	Date: 5/13/89		
EXXON:	Date:		
FOSC:	Date:		

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

SHORELINE OIL EVALUATION

Date: 04 / 30 /89	Observer: Amdur
Time: // h /5 m	Weather: Sun Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Green Island	SPECIFIC AREA Northwest Coastline
LOCATION PREFIX GR	SEGMENT NUMBER 12
LATITUDE: 6dms	s LONGITUDE: dm_s
LENGTH OF SHORELINE SEGMENT:	m
ACCESS: Foot/Vehicle/Boat/Barge Helio/	Float Plane
SHORELINE:	
SHORELINE CHARACTER:	
Shoreline Type: (BEA/COV/HANG/LANG/VER/H	HLD/SPI
Wave Exposure: High/Med/Low	
Sediment: B% / C_70% / P_20% / G40%	:/S <u>20</u> %/M_%/R_%
Drift Debris in Intertidal Zone: Yes/	O Upper/Mid/Lower Type
OIL	
Area of Beach Impact: SU / SP / H / M	/ T.
Continuous: Y/N Width of Band:	_
Patchy: 10/20/30/40/50/60/70/80/90% cov	rerage % of Segment
Est. Oil Thickness: cm Est	. Oil Penetration:cm
Pooled Oil: O % "Free" Oil: O % W	eathered: O % Stained: 2 %
Tar Formation:2_\$	
Drift Debris in Intertidal Zone Oiled?	
Degree of Oiling: Heavy/Moderate/Li	ght(No Oil/Unobserved
Comments:	

version: 4/24/89

TOGIC ECODOGICAL EVALUATION

LOCATION: (areen Isl.	SITE: N.W. C	<u>095T</u> 01	BSERVER: <u>H</u>	mdur	
LOCATION PR	EFIX: GR	SEG. NO.:	2 LI	ength:		(M)
DATE: 89 / C	94/30 TIME	E_(HHMM):_/1:15	TIDE	нт.: 2.7	25	M)
OILED ZONE:	Splash High	n Medium Low				
SUBSTRATUM:	Rocks Bould	ler Cobble Gr	avel Sand	Mud		
LIVE BIOTA						
<u>Fucus</u> (alga	e): Patchy 🕅	N Contin. Y/N	Dense (Ý) N	Sparse Y	N None Y/	'n
Mytilus (Mu	ssels): Patch	y 🕅 N Contin.	Y/N Dense	Y/N Spars	se ②N Non	e Y/N
Balanus (Ba	rnacles): Pat	chy (Y) N Contin	n. Y/N Den	se Y/N Spar	se Y) Non	e Y/N
		N Dense'Y/N S		· · · · · · · · · · · · · · · · · · ·	e Y/N	
OTHER OBSERV	ATIONS: <u>ک</u> می	d bouch				
CLEANUP PREC	CAUTIONS:	lo pil do v	10t Clean	or bothe		
MAMMALS: Ott		rbor Seals		s Wha	les	-
GENERAL OBSE	RVATIONS:	lealey beach	t Cobbe	2 Zones		

CULTURAL RESOURCE EVALUATION

Date 9.30-89 Location Green Island Site N. W. CONST
Location Prefix GR Segment # 12 Length
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility No oil
Width of beach zone surveyedm Tree fringe surveyed
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 10w uplands School A Raised Seach Ridge
resh Water Sources
Sea Exposure open to the west and north west
Access/Safety
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) MIKE YARBOROUGE
Time survey started 11:15 Am Time survey ended 11:30 Am
Cultural resource considerations/restraints:
cultural resource revaluation not completed: no oil

i i sub 5.

EXXON FSOC

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

.	
shoreline segment number 62-1	<u>A</u>
SHORELINE SEGMENT NAME	
SUBMITTED FOR APPROVAL 5/29/89	
COMMENTS: Boomed with Pom-Poms 7 2-3 days and changed out a Boom is removed.	6 be checked every o needed, until Pom-Bm
Boar is removed.	C.F. Liege Signature of EXXON rep
	Signature of EXXON rep
	Signature of ADEC rep
Coast Guard Comments and Action.	
X Completed removal of gross contact the oil will not migrate. Site will later date to determine future treatments	mination to the extent that require reassessment at a sent.
The majority of surface oil contact the site will require reassessment at future treatment.	amination has been removed. a later date to determine
All contamination has been remove required unless re-oiled.	Robert Soudini LT Scot 1
Wa. Inne	Signature of Coast Guard rep

SICKON ANTOES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER GR-18
SHORELINE SEGMENT NAME
SUBMITTED FOR APPROVAL 5/29/89
COMMENTS: Boomed with for- flow is and will check every 2-8 days and change out the pompones as necessary and some is secretal.
every 3-3 days and change out the pompons as mecessary
and been is survered.
Signature of EXXON rep
ADEC comments on the condition of this shoreline segment and action recommendation.

Coast Guard Comments and Action.

Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

All contamination has been removed. No further treatment required unless re-oiled.

Signature of Coast Guard rep

Signature of ADEC rep

XC: ADEC EXXON FSOC

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	GR-3
SHORELINE SEGMENT NAME	Green Haulout
SUBMITTED FOR APPROVAL 5	<u></u>
COMMENTS: Environmental	y clean
	Signature of EXKON rep
ADEC comments on the condinecommendation.	ition of this shoreline segment and action
ADIEC not present	MZ
	Signature of ADEC rep
Coast Guard Comments and A	Action.
Completed removal of the oil will not migrate. later date to determine fu	gross contamination to the extent that Site will require reassessment at a sture treatment.
	ce oil contamination has been removed. sessment at a later date to determine
required unless re-oiled.	been removed. No further treatment Signature of Coast Guard rep
XC: ADEC	

8

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE	SEGMENT	NUMBER	GR-5		-
SHORELINE	SEGMENT	NAME	Green Haul	out	· •
SUBMITTED	FOR APPI	ROVAL _5/	<u>11</u> / 89		
COMMENTS:	Enviro	onmentaly cl	ean		
				Signature of E	XXON rep
ADEC comme recommenda		he condit	ion of thi	s shoreline segmen	t and action
ADEC	was.	g for	nesent		
				Signature of A	DEC rep
Coast Guar	d Commen	ts and Act	tion.		
Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.					
The m The site w future tre	ill requ	of surface ire reasse	e oil cont essment at	amination has been a later date to do	removed. etermine
All corequired un			een remov	ed. No further tro	satment 5/5/89 Guard rep
YC. ADEC				,	. •

8

GR 11

Shoreline Treatment Process(es) Com Hot water wash Warm water wash	pleted for this Segment Mechanical Non-mechanical
Water deluge	Other
Exxon	
Treatment as indicated above has been com from this segment.	
Comments Treatment of Jague	And the second of the second o
Signature Imm 1)	Date: 91719 Time:
Printed Name 10 Mary Dulin	The second secon
Existing Shoreline Condition As Visually Determined by USCG Surface Oil	Existing Shoreline Condition As Visually Determined by ADEC Surface Oil
Percent Degree of Oiling	Percent Degree of Oiling
Heavy Medium Light Very Light None	O Heavy O Medium Light Very Light None
Subsurface OII Yes No COMMENT BELOW	Subsurface OII Yes No COMMENT BELOW
Reassessment	Reassessment
Yes - necessary	Yes - necessary
No - not necessary unless re-oiled	No - not necessary unless re-oiled
Commones Do sugarhiant orling	
Signature Sale Dardiner	Date: 9/7/89Time: 1/13
Printed Name X AZE, GAP DAZE A	The second of th
San The State of t	approved/disapproved
	1e:9/7/8)Time: 1(30
Printed Name Title Title	
COPY: EXXON ADEC FOSC ISCC 4-25	y de la companya de

EXXON VALUEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER <u>GR12</u>
SHORELINE SEGMENT NAME
SUBMITTED FOR APPROVAL 5/29/89
COMMENTS:
CF Degini
Signature of EXXON rep
1000 companie on the sendition of this should be companied and sending
ADEC comments on the condition of this shoreline segment and actio recommendation.
Signature of ADEC rep

Coast Guard Comments and Action.

Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

All contamination has been removed. No further treatment required unless re-oiled.

Signature of Coast Guard ret

XC: ADEC EXXON FSOC

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Pinniped Haulout Block					
Addendum					
Includes Shoreline Segments: <u>GR-3. GR-4. GR-6</u>					
Submitted: Wilm Still Date: 5/6/89 FOSC Approval: CE Pobline Date: 5/12/89					
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.					
Distribution:					
Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file FOSC CDFU					
FOSC CDFU NOAA EPA USDA (FS) USFW A.DEC A.FG A.DNR CAC PWSCA USFS					

SHORELINE CLEANUP PROGRAM

DATE 4/2//89 SHORELINE SEGMENT GR-3
LOCATION: (see enclosed map) North East point of Large Island,
adjacent to Green Island.
ADEC NOSHORELINE ASSESSMENT DATE: 4/27/89
Recommended Cleanup Activity(ies):
Last four hundred (400) meters near headland has patches which could be cleaned
if it presents a Pinniped hazard. Little danger of oil refloating.
•
Priorities Considerations:
Pinniped Haulout.
Ecological Constraints (from site survey): Clean-up is not recommended
for most of segment. Last four hundred (400) meters should be cleaned, although
it is a low priority. Clean with low pressure cold wash when tide is $N + 7$.
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 * EXXON: UM Studio Date: 5/4/89
FOSC: Date:

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

SHORELINE CLEANUP PROGRAM

DATE	4/27/8	39			SHOREL	INE SEGME	ENT	GR-4
LOCA'	TION: (s	see	enclosed m	a p)G	REEN ISLA	AND/Channel	l Isla	nd
ADEC	NO		shori	CLINE ASSE	SSMENT	DATE:	4/27/8	9
Reco	mmended	i Cl	eanup Acti	vity(ies)	:			
	Pinnip	ed E	aulout Area	- oiling on	island is	s isolated	and 1	ight. Confined
	to a f	ew p	atches in fu	cus.				
Prio	rities	Con	sideration	s: NO C1	ean-up re	ecommended.	. Exc	ept for two hundre
	(200)	mete	r area on we	st side (Se	al Haulou	ıt Area).	0il i	mpact is low, clea
Ecolo			oncerned ove straints (
If he clear	eretofo nup, co ons pro	re onta	ct Exxon'	ed cultura s Archeol he Operat	l mater ogical	ials are Field Di	irect	vered during or and take or Shoreline
State	halo Histo	ric	Preservat	ion Office	er *	Date:	<u> </u>	89
EXXO	N:					Date:		
FOSC						Date:		

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 27/ April 189 Observer: Young It.N. Ji
Time: 12 h 57 m Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION
LOCATION Chorest Is site
LOCATION PREFIX GR SEGMENT NUMBER 4
LATITUDE: 6 d m s LONGITUDE: 147 d m s
LENGTH OF SHORELINE SEGMENT: m (E = I = I = I = I = I = I = I = I = I =
ACCESS: FOot/VEhicle/BOat/BArge/HElld/Float Plane
SHORELINE:
SHORELINE CHARACTER:
BEach/SPit/Cove/
Wave Exposure: High/Med/Low 2073
ROCK YN &VErtical/High Angle/Low Angle
SEdiment (1)/N % 85 Types: B/C/P/G/S/M/R
Strand Line YN Algae Debris Logs.
OIL New Zone - O- Haus out
TOCATION OF OTT - CIL / CD / H / M / T. Ar Fuces 200 M Band SM L.
CONTINUOUS: Y/N WIDTH OF BAND: m % of Segment
PATCHY: 20/30/60/50/60/70/80/90% coverage % of Segment 59.
EST. OIL THICKNESS: 7kin Coating cm EST. OIL PENETRATION: cm
POOLED OIL: YAV "FREE" OIL: YAV WEATHERED: YAN STRAND LINE CLEAN OILED
STRAND LINE CLEAN OILED
SUMMARY OILING: Amount High/Med/Low Coverage Extensive/Moderate/Light
COMMENTS: Island is Clean in most areas - Path of
D: lin Fucus on NE, NW, and BW- 20045M-NW PONOT Recommend Clean-p untoll
TRACES - EE Trace o: ling on FUCCS is A HOZELD TO COST
TRACES - EE Trace o: ling on FUCCS is A Hazard To Seal 20M + 2M - SW C:\WP\DATA\SHOREVAL.1 Haulout + Pupping - OTTER observed Swimming SE Eno of Island -
Did Not Appear to be Orled

· pace s

DOCUMENTATION:	
MAP/Aeria photo marking segment boundaries	
VTR: (9/N Tape Number(s) &- Ac.: L + Terrer TSIA- (Be PHOTOGRAPHY: (Y)N Roll Number(s) Toka Ladar	it: I-Complete
PHOTOGRAPHY: YN Roll Number(s) Tohn LADAR	DY Marry y
SAMPLE NUMBERS COLLECTED:	
Rock Party Brust GRANITE ROMBERS CONDECTED. Rock Party Brust GRANITY Brust Palik Brush - 707. High Blutt O Maters	RochyPile Ze Smhigh

C:\WP\DATA\SHOREVAL.1

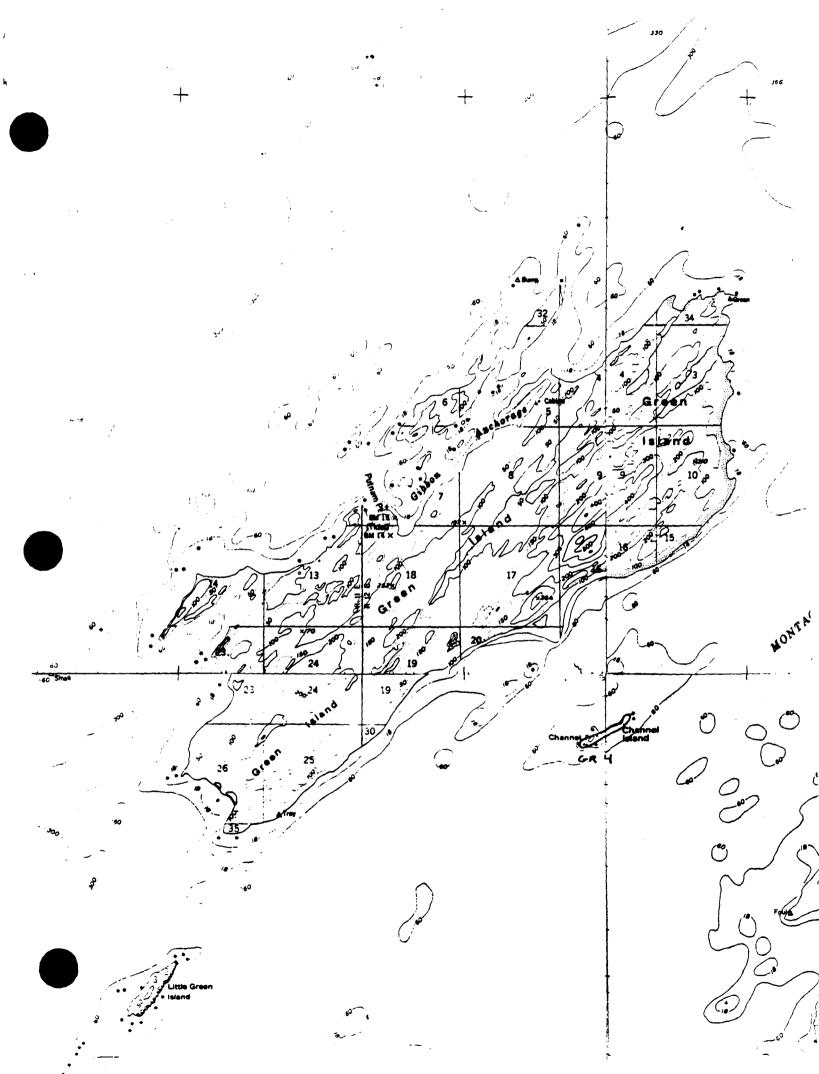
(GR.4)

ECOLOGICAL EVALUATION

LOCATION: Green ISI. SITE: Channel ISI. OBSERVER: Fawcett/Amdus
LOCATION PREFIX: GR SEG. NO.: > 4 LENGTH: (M)
DATE: 89 /04 / 24 TIME (HHMM): 13:00 TIDE HT.: +.3 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy (Y/N Contin. Y/N Dense (Y/N Sparse Y/N None Y/N
None on cobble beaches on west side
Mytilus (Mussels): Patchy ON Contin. Y/N Dense Y/N Sparse(Y)N None Y/N
few dense Patches among gravel & boulders
Balanus (Barnacles): Patchy N Contin. Y/N Dense N Sparse Y/N None Y/N
dense patches on most rocky & stable boulders
Patchy YN Contin. Y/N Dense N Sparse Y/N None Y/N
Extremely deuse in rocks on west side, feeding on
Limpets: Patchy O/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Scattered among rocks & boulders
OTHER OBSERVATIONS: few animals among bare with Cobble
and gravel. A high energy Steep beach on west Side
CLEANUP PRECAUTIONS: NO Cleanup recomended except possibly in
Pressure washing although oil impact minimal.
MAMMALS: Otters 2 Harbor Seals 2 Sea Lions Whales Other
BIRDS: Oyster catchers (many)
GENERAL OBSERVATIONS:

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

Date 4-27-89 Location Garen Island Site Channel I
Location Prefix (-A Segment # 4 Length_
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) None Data Source
Oil conditions/beach visibility Little oil
Width of beach zone surveyed 5 m Tree fringe surveyed 5 m
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code) Nowe
General observations justifying survey method and segment's site probability:
Shore Profile FOR A ROLK SEA STACK AT THE SW CORNER OF THE 15/An
Fresh Water Sources NOME
Sea Exposure very exposed
Access/Safety Internediate Stopping point Between Green i montague I Good VIEW in All directions.
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # my 2 Frames 10-1
B/W Roll # Frames
Observer(s) MIKE YARBOROUGH, DAVE McMAHAN
Time survey started 12:41 Time survey ended 2:08
Cultural resource considerations/restraints:
IF previously undiscovered cultural remains are uncovered
durina cleanup, contact EXXON Archeologist C. Mobley
immediately.



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 4/29/89	SHORELINE SEGMENT GR-6
LOCATION: (see enclosed map)	GREEN ISLAND
ADEC NOSHORELINE	ASSESSMENT DATE: 4/29/89
	(ies): NONE, Do not clean. Oil stain eline, well above the area used by seals. marine community.
•	•
Priorities Considerations:	
Pinniped Haulout.	
Ecological Constraints (from	site survey):
Low to no impact. Stains high o	n vertical rocks. Do not clean.
cleanup, contact Exxon's Arc	ltural materials are uncovered during cheological Field Director and take perational Guidelines for Shoreline
Charles 7. Homes. State Historic Preservation C	
EXXON:	Date:
FOSC:	

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

Sect to TREOR

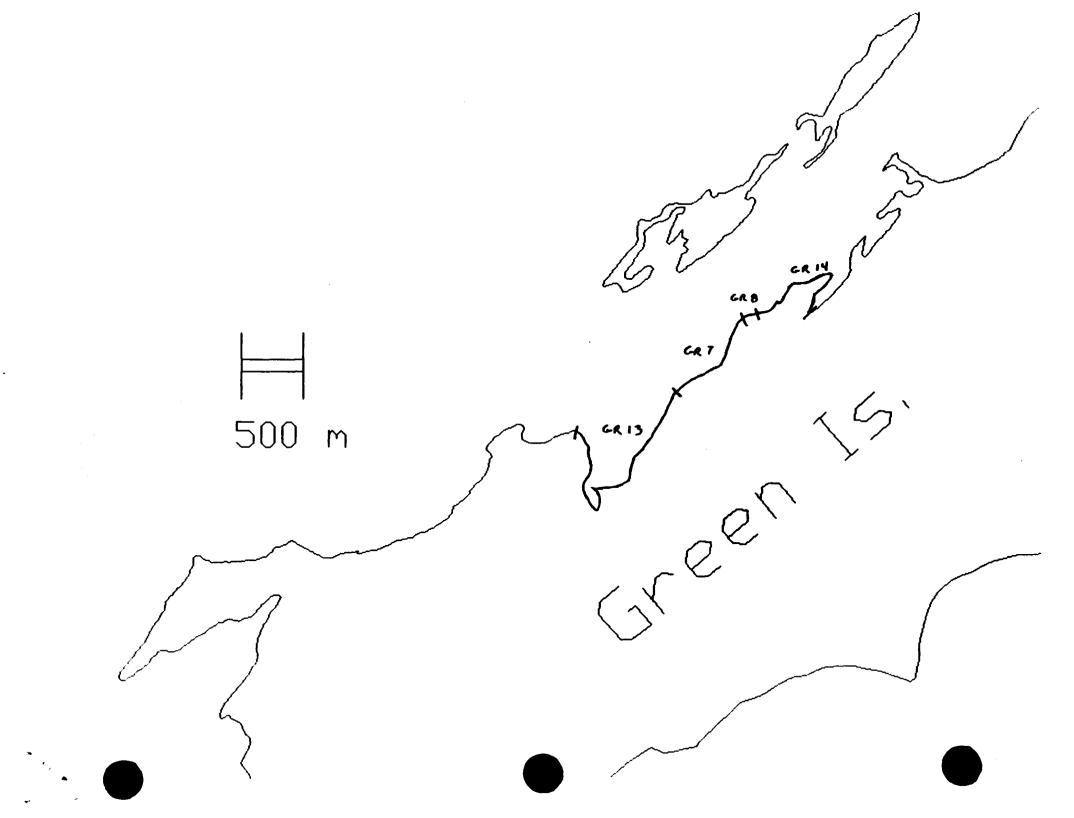
(version 5/04/89)

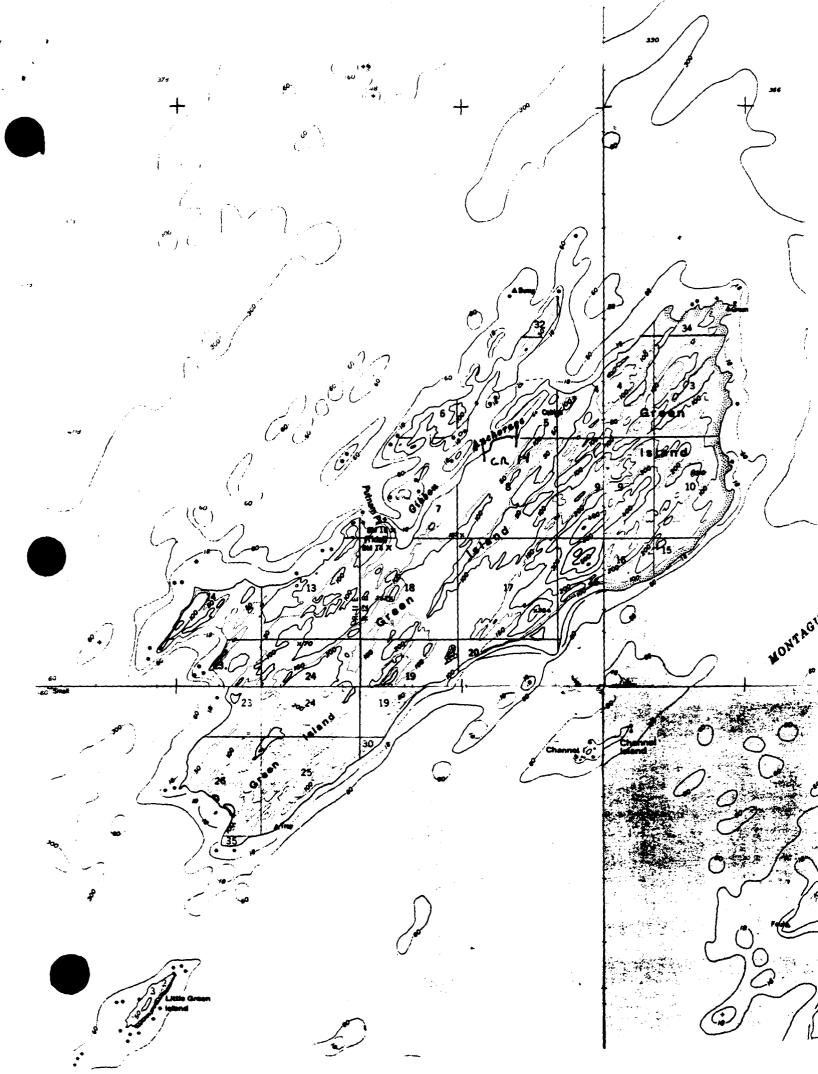
SHPO

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Green Island - Gibbon Anchorage

Block			
Includes Shoreline Segments: GR-7, GR-8, GR-13, GR-14			
Submitted: <u>QM. Qdam</u> (for Exxon)	Date: <u>5-/5-89</u>		
(for Exxon) FOSC Approval:	Date:		
The cleanup procedures identified in are recommended. Modifications to the field. Exxon and other field personne innovations and productivity enhance representative. The OSC's represent approve on-site modifications. The Figure 2 consulted if these actions do not Constraints of the Shoreline Cleanus safety and the protection of cultural	se systems can be made in the el are encouraged to suggest ements to the OSC's on-scene ative has the authority to ield Resource Team should be fit within the Ecological p Program. Requirements for		
Distribution: Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file			
FOSC CDFU NOAA EPA USDA (FS) USFW A.DEC A.FG A.DNR CAC PWSCA USFS			





SHORELINE CLEANUP PROGRAM

DATE May 4, 1989	SHORELINE SEGMENT GR-7
LOCATION: (see enclosed map)_	Green Island/Gibbon Anchorage
ADEC NOSHORELIN	E ASSESSMENT DATE: 4/28/89
crew at +7' tide to remove c	v as a very low priority. Small foot
Priorities Considerations: Priority is given to possibil none seen) and bird health.	lity of herring spawn in area (although
patches of fucus above +7' tat +7' tides only. Extent o	healthy. Small amounts of oil are on cide. Any cleaning work should be done of oiling and damage is minimal, with the shore birds which use the area.
cleanup, contact Exxon's An	ultural materials are uncovered during rcheological Field Director and take Operational Guidelines for Shoreline
State Historic Preservation	Officer * Date: 5/13/89
EXXON:	
FOSC:	Date: 5 - 2/-89

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 04 / 28 /89	Observer: Amdur
Time: 09 h 30 m	eather: Sun/Cloud Rain/Snow/Fog
LOCATION	
LOCATION GREEN Isl.	SITE Gibbon Anchorage
LOCATION PREFIX GR	
LATITUDE: 6 d m s	LONGITUDE: 147 dms
LENGTH OF SHORELINE SEGMENT:	50_n
ACCESS: FOot/VEhicle/BOat/BArge/H	Elio/Float Plans
SHORELINE:	
SHORELINE CHARACTER:	
BEach/SPit/Cove//	/
Wave Exposure: High/Med/Low	
ROCk YN % 10 VErtica	1/High Angle Low Angle
SEdiment Y/N % Y Types:	B/C/P/G/S/M/R
Strand Line Y/N Algae Deb	ri/Logs
OIL	
LOCATION OF OIL: SU / SP /H/ M	
CONTINUOUS: (Y/N WIDTH OF BAND:	2-3 m % of Segment 70
PATCHY: 10/20/30/40/50/60/70/80/9	0% coverage % of Segment 30
EST. OIL THICKNESS: Cont CR EST	. OIL PENETRATION:cm
POOLED OIL: Y/O "FREE" OIL:	Y/N WEATHERED: Ø/N
STRAND LINE CLEAN/OILED	
SUMMARY OILING: Amount High/Me Coverage Extensi	d/Low ve/Moderate/Light
COMMENTS:	

ECOLOGICAL EVALUATION



LOCATION: Green SITE: Gibbon Anchonge OBSERVER: Amdur
LOCATION PREFIX: GR SEG. NO.: \$7 LENGTH: 850 (M)
DATE: 89/04/28 TIME (HHMM): 0930 TIDE HT.: 2.8 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy (Y)N Contin. Y/N Dense (Y/N Sparse Y/N None Y/N
fucus in clause partches along beach. Oil clinging to fucus in spots
Mytilus (Mussels): Patchy YN Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Some large beds
Balanus (Barnacles): Patchy (Y/N Contin. Y/N Dense Y/N Sparse (Y/N None Y/N
Balance precent, generally unciled but very patchy above + 7
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: Geese Seen above beach, not in effected
avecs. Oil band very neverw
CLEANUP PRECAUTIONS: if Cleaned, do at + 9 Tide vecemend
NOT to clem. oiled fucus could be removed manually only.
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: Geese
GENERAL OBSERVATIONS: Oil is Tarlike & not sticky, oiled fucus
Could be removed by Small Foot Datiol W/ hitle impact.

CULTURAL RESOURCE EVALUATION

Date 4-28-89 Location GREEN ISLAND Site GISSON Archaege
Location Prefix GR Segment # 7 Length 800 m
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) PAD in intention Data Source John mattson
Oil conditions/beach visibility Band or oil c. 2 m wide at 3 - FOOT tide line
Width of beach zone surveyed <u>S-10</u> m Tree fringe surveyed 10 m
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: additably sloping angular boulded and latte coaste beach intelliged with hedge. 12.25 m wide rone on veg. covered, uplithed beach in Front or Shore Profile simes a low beach hidge of uplands asses c. In above the beach.
Shore Profile simes A low seach side of uplants assure c. Zm Above the Seach.
Fresh Water Sources Three lance streams and Numerous small Seeps
Sea Exposure Protected in Gigson Archorage
Access/Safety Engily Accessible FIAT Protected Seach
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 (5)
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) M.Ke YARSonough
Time survey started 9:30 Am Time survey ended 10:30 Am
Cultural resource considerations/restraints:
IF cleanup is limited to manual acmount or oiled fucus
NO cultural resource considerations / restraints are necessary. Should
heretofore undiscovered cultural remains are found during cleanup.
contract Exxon Alcheologist C. mosley innediately.

SHORELINE CLEANUP PROGRAM

DATE_5/4/89	SHORELINE SEGMENT GR-8
LOCATION: (see enclosed map) Green	Island/Gibbon Anchorage
ADEC NOSHORELINE ASSE	SSMENT DATE: 4/29/89
Recommended Cleanup Activity(ies) Clean-up recommended as "Class 2' tide, very low pressure. Cold wash limit pressure so as not to was collect oiled debris from drift 1:	priority. Crew in only at +9' ok, (soft sediments present, so out sand/mud). Foot crew can
Priorities Considerations: This is a bird habitat area with a support large bivalve community.	
Ecological Constraints (from site Healthy community below and above supports bird populations. Low pr to keep people out of subtidal mapossible. Do work at +9' tide only	e oiled zone. Benthic community essure wash ok, (very low). Try adflats and use as few boats as
Archeological Constraints (from sancheological monitor to be prese	
State Historic Preservation Office	Date: 5/13/84
EXXON:	Date: <u>5//9/89</u>
FOSC:	

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

Browne no charp excomodalin

SHORELINE OIL EVALUATION

Date: 04 / 29 /89 Observ	ver: Amdur
Time: 08 h 45 m Weather:	Sun Cloud Rain/Snow/Fog
LOCATION	
LOCATION GREEN ISI. SITE	Gibbon Anchorage
LOCATION PREFIX GR SEGMEN	T NUMBER8
LATITUDE: 6 d m s LONGIT	TUDE: 147 dms
LENGTH OF SHORELINE SEGMENT:	
ACCESS: FOot/VEhicle/BOat/BArge/HElio/F	loat Plane
SHORELINE:	
SHORELINE CHARACTER:	
BEach/SPit/COve//	
Wave Exposure: High/Med/Low	
ROCK ON \$ 5 VErtical/fligh	
SEdiment (Y) N & 95 Types: B / (G)	(P / G / S / M)/ R
Strand Line (7/N Algae/Debris/Log	js
OIL	
LOCATION OF OIL: SU / SP / H / L	
CONTINUOUS: YN WIDTH OF BAND: 20	m % of Segment_50
PATCHY: 10/20/30/40/50/60/70/80/90% cove	erage % of Segment 20
EST. OIL THICKNESS: Cont on EST. OIL	PENETRATION:cm
POOLED OIL: Y N "FREE" OIL: Y N	WEATHERED: Ø/N
STRAND LINE CLEAN OILED	
SUMMARY OILING: Amount High/Med/Low Coverage Extensive/Mode	rate Light
COMMENTS:	

Version: +/4+/07

ECOLOGICAL EVALUATION



LOCAT	FION: Green Ist. SITE: Gibbon Anchonge OBSERVER: Amdur
	TION PREFIX: GR SEG. NO.: 8 LENGTH: 150 (M)
DATE	: 89/04/29 TIME (HHMM): 0845 TIDE HT.: 3 (M)
OILE	O ZONE: Splash High Medium Low
SUBST	TRATUM: 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
Den	se areas of fucus / area of +9' tide Most fucus coated
<u>Myti</u>]	lus (Mussels): Patchy 🗭 N Contin. Y/N Dense Y/N Sparse 📆 N None Y/
	eny mussels in shale beach on NE end of Sector
Balar	Nus (Barnacles): Patchy (Y) N Contin. Y/N Dense Y/N Sparse (Y) N None Y/
Limpe	ets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	FT Sediments.
	NUP PRECAUTIONS: Cleanup recremended because bird Habatat,
Cles	un only at +9' tide or higher (Keep people out of Subtidal und flats as much as pasible) use low pressure wash (cold) of Iceep pressure low enough not to wash away sedments. Small crow ALS: Otters Harbor Seals Sea Lions Whales
M	ud fluts as muchas posible) use low pressure wash (cold) of Iceep Pressure low enough not to wash away sedments. Small crow
MAMMA	ALS: Otters Harbor Seals Sea Lions Whales
BIRDS	5: Oyster Catcheus, other sharebilds ~ 20+
	·
GENE	RAL OBSERVATIONS:

CULTURAL RESOURCE EVALUATION

Date 4-21-89 Location Green Island Site G. Ason Anchorne
Location Prefix 6-R Segment # 8 Length 150~
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) PAO in intertidal zone Data Source John Mattson
Oil conditions/beach visibility 6 m wide Band of oil access the upper Seach
Width of beach zone surveyed 10-12 m Tree fringe surveyed of to 10-
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 of Alder And Small space covered Raised Beach is record or a low up water seeping through a Beach Ridge above the Beach.
Fresh Water Sources small And Behind the Death Aidse.
Sea Exposure Protected in Giagon Anchorace
Access/Safety Peotected, Easily Accessible beach
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 (5)
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) Mike YarAoreugh
Time survey started 9:45 Am Time survey ended 10:15 Am
Cultural resource considerations/restraints:
Site should be monitored during cleaning. Should here to reach
undiscovered cultural material be discovered during cleanup,
contact rexxon Ancheologist C. Mosley immediately.

SHORELINE CLEANUP PROGRAM

DATE May 4. 1989 SHOP	RELINE SEGMENT GR-13
LOCATION: (see enclosed map) Green Is	land /Putnam Point
ADEC NOSHORELINE ASSESSME	NT DATE: 4/27/89
Recommended Cleanup Activity(ies): None, little oil.	
Priorities Considerations: None	
Ecological Constraints (from site surv	vev):
Very little tar on a few rocks. No cleanadromous fish stream in center of co	san-up recommended. Possible
Archeological Constraints (from site a Cultural resource evaluation not compl is planned, cultural resources evaluat	leted, no oil. If cleanup
State Historic Preservation Officer *	Date: 5/13/89
EXXON:	Date: 5-/9-89
FOSC:	Date: 5-2/-89
* Signature required to satisfy stipul land use permits for tide and submen	
Reserve so cleary recommedation	- Food pruding FOSC

SHORELINE OIL EVALUATION

Date: 04 / 27 /89	Observer: Amdur
Time:hm	Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Green Isl.	SPECIFIC AREA Cove East of Putuan point
LOCATION PREFIX	segment number
LATITUDE: 6dms	LONGITUDE: dms
LENGTH OF SHORELINE SEGMENT:	m
ACCESS: Foot/Vehicle Boat/Barge/Helio	Float Plane
SHORELINE:	
SHORELINE CHARACTER:	
Shoreline Type: BEA/COV HANG/LANG/VER/H	LD/SPI
Wave Exposure: High/Med/Low	
Sediment: B 2 % / C 70% / P 10% / G 10%	/ S 8
Drift Debris in Intertidal Zone: Yes	O Upper/Mid/Lower Type
OIL	
Area of Beach Impact: SU / SP / H / M	/ L
Continuous: Y/N Width of Band:	m % of Segment
Patchy: 10/20/30/40/50/60/70/80/90% cov	erage % of Segment
Est. Oil Thickness: O cm Est	. Oil Penetration:cm
Pooled Oil: O % "Free" Oil: O % W	eathered:O_% Stained:%
Tar Formation: 2	
Drift Debris in Intertidal Zone Oiled ?	Yes/No Upper/Mid/Lower
Degree of Oiling: Heavy/Moderate/Li	ght/No Oil/Unobserved
Comments:	

version: 4/24/89

SCOLOGICAL EVALUATION

LOCATION: Gran Isl. SITE: Gove cost of OBSERVER: Amdur
LOCATION PREFIX: GR SEG. NO.: 13 LENGTH: (M)
DATE: 89 /04 / 27 TIME (HHMM): 4:27 TIDE HT.: //5 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy (Y)N Contin. Y/N Dense Y/N Sparse (Y)N None Y/N
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: Possile anothermous in centr of Cove. Sand and grand near seven mounty.
CLEANUP PRECAUTIONS: No Cleanup recovered. Very little Oil impact
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: 2 Bald Eagles Seem.
GENERAL OBSERVATIONS:

CULTURAL RESOURCE EVALUATION

Date 4-27-99 Location G-REEN Island Site Putnam Point
Location Prefix 6R Segment # 13 Length_
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) SEW 208 Data Source AHRS Files
Oil conditions/beach visibility very little oil
Width of beach zone surveyedm Tree fringe surveyed
Cultural resources observed in beach zone (AHRS code) Fx =
Cultural resources observed in tree fringe (AHRS code)
General observations justifying survey method and segment's site probability:
Shore Profile
resh Water Sources
Sea Exposure
Access/Safety
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s)
Time survey started Time survey ended
Cultural resource considerations/restraints:
cultural resource Evaluation not completed: No cleanup
Are commanded.

SHORELINE CLEANUP PROGRAM

DATE May 5,1989	SHORELINE SEGMENT GR-14
LOCATION: (see enclosed	map) Green Island/Gibbon Anchorage
ADEC NOSHOP	RELINE ASSESSMENT DATE: 4/29/89
Recommended Cleanup Act No oil. No clean-up rec	
Priorities Consideratio	ns:
Ecological Constraints Beaches are clean. Do n	
	es (from site survey): Ation not completed, no oil. If cleanup esources evaluation should be conducted.
State Hystoric Preserva	Date: 5/13/89
EXXON:	Date:5/14/89
Fosc:	

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

SHORELINE OIL EVALUATION

Date: 0 4 / 29 /89	Observer: Amdw
Time:hm	Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Green Isl.	SPECIFIC AREA GIbbon Anchorage
LOCATION PREFIX GR	SEGMENT NUMBER
LATITUDE: 6dm	s LONGITUDE: d s
LENGTH OF SHORELINE SEGMENT:	m
ACCESS: Foot/Vehicle/Boat/Barge/Helic	/Float Plane
SHORELINE:	
SHORELINE CHARACTER:	
Shoreline Type: BEA/COV/HANG/LANG/VER/	HLD/SPI
Wave Exposure: High/Med/Low	
Sediment: B% / c <u>50</u> % / p <u>10</u> % / G <u>10</u>	* / S 10 * / M 20 * /R
Drift Debris in Intertidal Zone: (es/	No Upper/Mid/Lower Type
OIL	
Area of Beach Impact: SU / SP / H / M	· / Т.
Continuous: Y/N Width of Band:	
conclinatous. 1/N width of Band	w & OI Degment
Patchy: 10/20/30/40/50/60/70/80/90% co	verage % of Segment_O
Est. Oil Thickness: cm Es	t. Oil Penetration:cm
Pooled Oil: O * "Free" Oil: O *	Weathered: O % Stained: O %
Tar Formation:	
Drift Debris in Intertidal Zone Oiled	? Yes/No Upper/Mid/Lower
Degree of Oiling: Heavy/Moderate/L	ight/No Oil/Unobserved
Comments:	

, version: 4/24/89

ECOLOGICAL EVALUATION

LOCATION: Green Ist. SITE: Gibbon Anchonge OBSERVER: Amdur
LOCATION PREFIX: GR SEG. NO.: 14 LENGTH: (M)
DATE: 89 /04 / 29 TIME (HHMM): 10:00 TIDE HT.: +2 (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 N Contin. Y/N Dense 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: <u>numerous</u> Shorebirds. Claus present & numerous Sof Sediments.
CLEANUP PRECAUTIONS:
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: many Shovebirds
GENERAL OBSERVATIONS:
•

CULTURAL RESOURCE EVALUATION

Date 4.	29.89	Loca	ation_ 64	leen I	sland	Site_	GIBBON	Anchorm
Location I	Prefix_	GR	Segme	ent #_	14	Length		
Survey Met	hod:							
Air		(A - indi	cate on ma	ap) Bo	at	(A	- indicat	e on map)
Ground		(G - indi	.cate on m	nap)				
Known cult	ural re	esources (AHRS #) _			Data	Source	
Oil condit	ions/be	each visib	ility	NO 01	<u> </u>			
Width of b	each zo	one survey	ed	• •	_m Tree	fringe s	urveyed	
Cultural r	resource	es observe	d in beac	h zone	AHRS	code)		
Cultural r	resource	es observe	d in tree	fring	ge (AHRS	code)		
General ob	servati	ons justi:	fying surv	vey met	hod and	segment's	site pro	bability:
Shore Prof	ile							
resh Wate	er Sourc	:es						
Sea Exposu	re							
Access/Saf	ety							
Probabilit	y of ur	ndiscovere	d sites i	n beac	h zone	(circle o	ne) 1 2 3	4 5
Monitoring	during	g cleanup	needed y	es/no	Co	llection	yes/no	
Photos:	Color F	Roll #			Frames_			
	B/W Rol	1 #	-		Frames_			
Observer(s	;)		·					
Time surve	y start	:ed		ı	'ime sur	vey ended		
Cultural r	resource	consider	ations/re	strair	its:			
Cultural	Resource	e Bualua	tion no	T con	pleted	: No oil		

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

Signature of EXXON rep
Signature of EXXON rep
shoreline segment and action
Signature of ADEC rep
ination to the extent that equire reassessment at a nt.
mination has been removed. a later date to determine
d. No further treatment
Hahard Fallandini LT See

XC: ADEC EXXON FSOC

EXXXX VALDES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGNENT NUMBER	RB
SHORELINE SEGMENT NAME	
SUBMITTED FOR APPROVAL 5/29	4 89
COMMENTS: ARCHAE ologist Peter And During steam No cultural mate	C. F. Duging Signature of skinn rep
ADEC comments on the condition recommendation.	of this shoreline segment and action
	Signature of ADEC rep
Coast Guard Comments and Action	•
X Completed removal of gross the oil will not migrate. Site later date to determine future t	contamination to the extent that will require reassessment at a creatment.
The majority of surface oil The site will require reassesses future treatment.	contamination has been removed.
required unless re-oiled.	removed. No further treatment Signature of Coast Guard rep
KC: ADEC	

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	GR. 13
SHORELINE SEGMENT NAME	
SUBMITTED FOR APPROVAL 5	<i>28</i> / 89
COMMENTS:	

Signature of EXXON rep

ADEC comments on the condition of this shoreline segment and acrecommendation.

Signature of ADEC rep

Coast Guard Comments and Action.

X Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

All contamination has been removed. No further treatment required unless re-oiled.

Consture of Coast Guard

XC: ADEC EXXON FSOC

EXXON VALUES

SHORELINE TREATMENT APPROVAL

shoreline segment number $GR-14$
SHORELINE SEGNENT NAME
SUBNITTED FOR APPROVAL 5/29/89
Coments:
Signature of EXXON rep ADEC comments on the condition of this shoreline segment and active recommendation.
Signature of ADEC rep
·
Coast Guard Comments and Action.
Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.
The majority of surface oil contamination has been removed The site will require reassessment at a later date to determine future treatment.

All contamination has been removed. No further treatment

XC: ADEC EXXON

required unless re-oiled.

A.DEC A.FG A.DNR CAC PWSCA USFS

4	

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

	_			
Location (see	enclosed map)	: GREEN IS	SLAND NORTH BI	OCK
	(REASSESSMENT	r)		
Includes Shore	eline Segments	S:GR-104]	R	
	<u> </u>			
Submitted:	- CANA	<u></u>	Date:_	8/17/89
	(for Exam)	0.).		
ISCC Recommend	dation:	me Mich	Date:	8/23/87
FOSC Approval:	: 7 E.C	iances L	Date:_	8-23-59
are recommended field. Exxon innovations as representative approve on-sit consulted if	ed. Modificati and other fie nd productivi e. The OSC's te modification these action of the Shorel	tified in the solutions to these solutions to these solutions to these solutions are representative ons. The Field of colling the colling of cultural materials are considered to the colling of cultural materials.	ystems can be re encouraged s to the OSC e has the a Resource Tea within the rogram. Requi	made in the to suggest son-scene uthority to me should be Ecological rements for
Distribution:				
	oreline Coord: oreline Superv AT file			
SHPO	<i>*</i> *			
FOSC CDFU				
NOAA				
EPA				
usda. (PS) Uspw:	<i>)</i>			

X

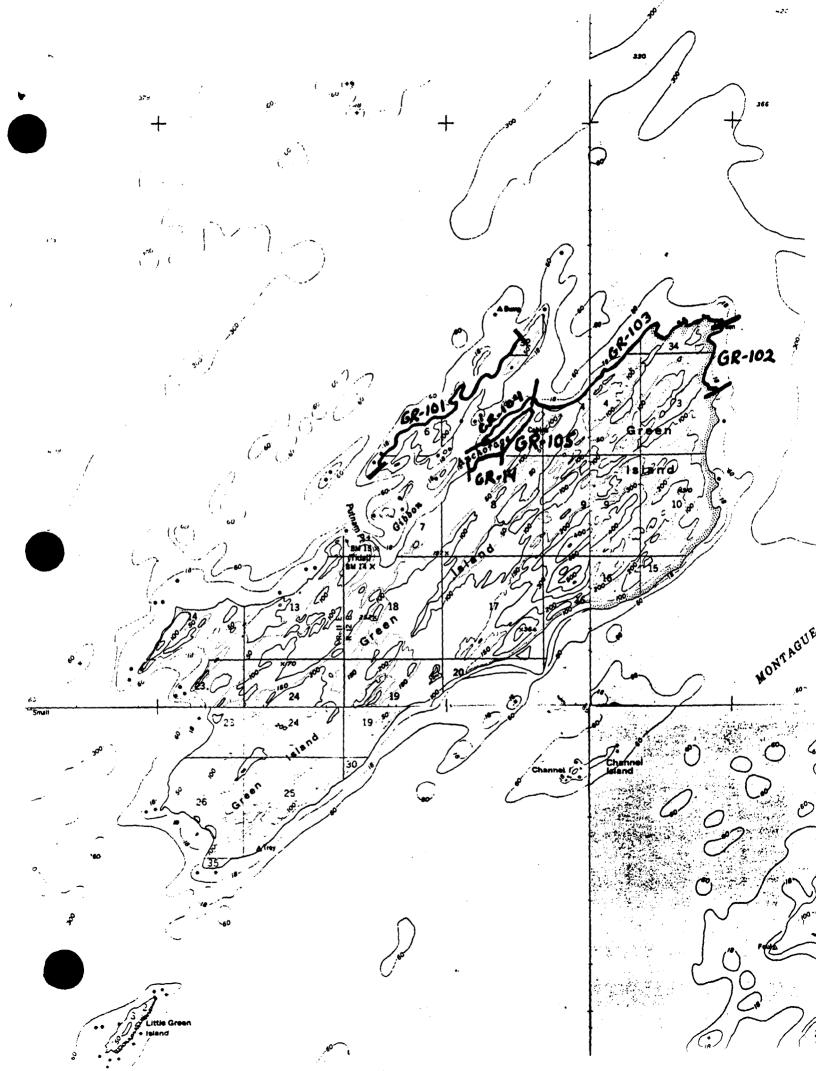
SHORELINE CLEANUP PROGRAM

DATE 8/16/89	SHORELINE SEGMENT GR-104R
LOCATION: (see enclosed map)G	REEN ISLAND-NORTHERN
(GREEM ISLAND NORTH BLOCK)	(REASSESSMENT)
ADEC NOSHORELINE ASSE	ESSMENT DATE: 8/13/89
Recommended Cleanup Activity(ies) No cleanup is recommended at contamination and a medium wave this beach since first assessed of	this time due to light oil exposure which has been cleaning
Priorities Considerations:	
Ecological Constraints (from site No cleanup is recommended because eagle nest that would be disturble were cleaned.	se of the presence of an active
Archeological Constraints (from s If heretofore undiscovered culduring cleanup, contact Exxon's take actions prescribed in t Shoreline Cleanup dated 4/21/89 a	tural materials are uncovered Archeological Field Director and he Operational Guidelines for
State Historic Preservation Office	Date: 8/17/89
ISCC: Jugue Michael	Date: 8(23/89
EXXON: Devel D. T. J.	Date: 8.23.89
FOSC: D.F. Carry	Date: 5-13+9

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

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map):	GREEN ISLAND NORTH
Includes Shoreline Segments: G	R-101, GR-102, GR-103, GR-104,
GR-105	
Submitted: Am. C. Com.	
(for Exxon)	Date: <u>5-/9-89</u>
FOSC Approval: 25/10/4	Date: 5-21-59
The cleanup procedures identificate recommended. Modifications field. Exxon and other field prinnovations and productivity expresentative. The OSC's representative. The OSC's representative if these actions do Constraints of the Shoreline safety and the protection of cubic bistribution: Exxon Shoreline Coordinate	ed in the Shoreline Cleanup Program to these systems can be made in the ersonnel are encouraged to suggest than cements to the OSC's on-scene presentative has the authority to The Field Resource Team should be not fit within the Ecological Cleanup Program. Requirements for altural material must be observed.
Exxon Shoreline Supervisor Exxon SCAT file	
FOSC CDFU- NOAA EPA USDA (FS) USFW A.DEC A.FG A.DNR CAC PWSCA	NO DRIGINAL EXECUT SIGNATURE



SHORELINE CLEANUP PROGRAM

DATE 5/19/89	SHORELINE SEGMENT GR-101
LOCATION: (see enclosed	map) GREEN ISLAND NORTH - Small island
North of Green Is	sland
ADEC NOSH	ORELINE ASSESSMENT DATE: 5/16/89
Recommended Cleanup Ad	ctivity(ies):
mousse area. Use high	degrees) on cobble beach on heavy tar and pressure on rock reefs and remove all oiled ities to affected areas.
Priorities Considerati	ions: Medium.
Ecological Constraints	s (from site survey):
Do not clean high-me	edium tidal areas when tide is low.
If heretofore undiscov cleanup, contact Exxo	ints (from site survey): ered cultural materials are uncovered during on's Archeological Field Director and take the Operational Guidelines for Shoreline as amended.
Charles & Handstate Historic Preserv	Busc. / Jan
EXXON:	Date:
FOSC:	Nate•

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

SHORBLINE . L EVALUATION

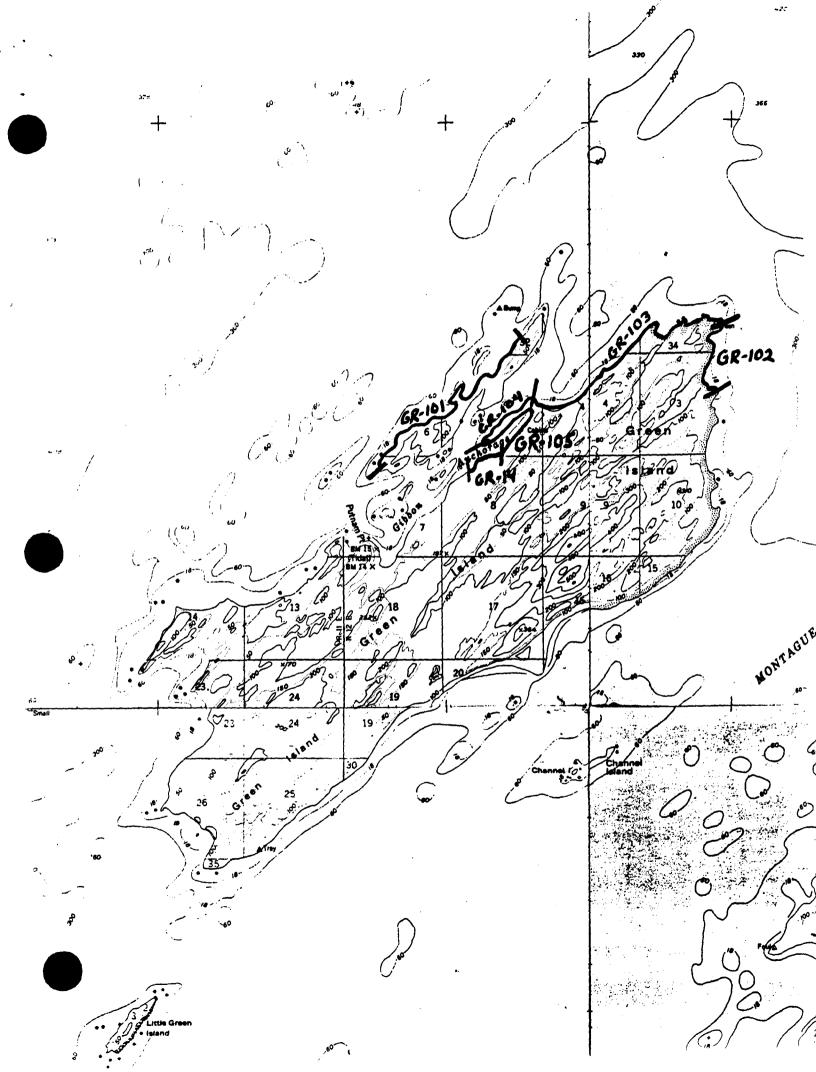
Date: 5/16/29/ Time: 1400	Observer: MEYER
Surveyed From: Foot/Goat/Helio/Plane	Weather: (Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION Small Island N of Creen Island SE	EGMENT NUMBER <u>GR 101</u>
LENGTH OF SHORELINE SEGMENT: 4400	n_
ACCESS: Foot/Vehicle/Boat/Barge/Helio/Fl	loat Plane
SHORELINE:	_
Shoreline Type:SPI/BEA/COV/ALD/STRT	Slope: LANG/HANG/VER
Wave Exposure: High Med/Low	
Sediment: B 20 % / C/5% / P20% / G 5% /	s 5 * / M * /R 35 *
Drift Debris on Beach: Yes/No Supr	a/Upper/Mid/Lower Type Logs
OIL	• • • • • • • • • • • • • • • • • • •
Degree of Oiling: Heavy Moderate Ligh	tive Oil Unobserved
Area of Beach Impact: SU / SP / H / (M)	L
Continuous: (Y)N % of Segment 30	
Sporadic: YN t of Segment 10	<u> </u>
Est. Oil Thickness where > lcm:cm	Est. Oil Penetration:cm
Pooled Oil: % "Free" Oil: % Coa	ted: H \$ /M /00 \$ /L \$
Fresh Nousse 80	_ t Tar Formation: _20_t
Drift Debris Oiled ? Yes/No Supra/Upper	/Mid/Lower Amount: H/M/L/
Comments:	
Beach #1 - 5N half modestely oiled - 11con	unended for cleanup
Beach # 2 - Continuers band in mid-high to	dol zone, moderakly orlad (lit-med al)
Deach * 3 - mid-bush tidal Tone michialdy out	led 6-10 m wide band
Brack # 4 - will bond b- 10 m wide His	middle tidal zone - not heavy cart
Brack + 5 - heavier sild bond ind-lidal	Prene 1
Beach *6 - Band on west and 15 m wide.	rest oil patches -lover printes Cleaners

REOLOGICAL EVALUATION

LOCATION: GREW ISLAND SITE: GR 101 OBSERVER: MEYER
LOCATION PREFIX: GR SEG. NO.: 101 LENGTH: 4400 (M)
DATE: 05/16/89 TIME (HHMM): 1400 TIDE HT.:(M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy @N Contin. @N Dense @/N Sparse Y/N None Y/N Bands of Fucus dead in mid tidal zone retaining oil and mousse; surrounding boulders/cobbles no longer oiled. Fixus in lower tidal zone alive, occassionally with light oil coating. Green theatthy in most of low tidal zone
Mytilus (Mussels): Patchy (Y)N Contin. Y/N Dense (Y)N Sparse (Y)N None Y/N Musels dense on Beach #2 and cooked with oil in oiled zone but still alive (closed). Patchy dense mussels on rack reefs and cooked fields unacled.
Balanus (Barnacles): Patchy P) N Contin. P) N Dense Y) N Sparse Y) N None Y/N Patchy Balanus on Boach + 1 caused in mause but ALIUE; large expanses with no Balanus present. Unpited headlands with danse heatthy Balanus (outside oiled zone).
Littorina Patchy (Y) N Contin. Y/N Dense Y/N Sparse (Y) N None Y/N oiled fucust Alive amid weatherd oiled rocks but sparse - moving into area.
Limpets: Patchy N Contin. Y/N Dense Y/N Sparse N None Y/N
Tew seen, all slive, none in oiled zone. Light to Dight to OTHER OBSERVATIONS: Moderate oiling in mid and high intertided zones, fixus dead in oiled Zone and holding much of the nivesse foil present, little Ino live biota to Work oiled band only at mid tide to high tide to avoid damage to living biota. CLEANUP PRECAUTIONS: In lower intertidal zone.
One may have been oiled - dark fur. MAMMALS: Otters Harbor Seals(<u>LI)</u> 6 Sea Lions Whales
BIRDS: 5 NW Crows, 1 cormorant sp., 4 Pigeon Guillenot, 1 Eagle
GENERAL OBSERVATIONS:

CULTURAL RESOURCE EVALUATION

Date 5 /16/89 Location Small Island north of Green Site
Date 5 / 16/89 Location Small Island noom of Garan Site
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) 207 Data Source (AHRS #)
Oil conditions/beach visibility / jaht to moderate
Width of beach zone surveyed 2-10 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability:
shore Profile learner moderately alogal, but heavily cobbled
Fresh Water Sources woul
Sea Exposure seen to north
Access/Safety good at low-tible
Probability of undiscovered sites in beach zone (circle one) 123 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # Mone Frames
B/W Roll # Frames_
Observer(s) C. Wilson
Time survey started /400 Time survey ended /600
Cultural resource considerations/restraints:
I de le todare malicavered métural renouvele me
I f be to fore indiscovered suttend services no
archaeologist, combbly, innochately



SHORELINE CLEANUP PROGRAM

DATE_5/19/89	SHORELINE SEGMENT GR-102
LOCATION: (see enclosed ma	ap) Northeast end of Green Island
ADEC NOSHORE	LINE ASSESSMENT DATE: 5/16/89
Recommended Cleanup Activ	rity(ies):
No cleanup recommended bag dead-oiled fucus at m	- oiling is light and patchy. Possibly midtide line.
Priorities Considerations	s: None.
Ecological Constraints (f	from site survey): live biota. If cleanup activities occur
constraints should be rec	
cleanup, contact Exxon's	d cultural materials are uncovered during Archeological Field Director and take ne Operational Guidelines for Shoreline
State Historic Preservati	Date: <u>May 19, 1989</u> on Officer *
EXXON:	Date:
FOSC:	Date:

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

PROGRAM

LEANUP PROGRAM

SHORELINE SEGMENT GR-101 EEN ISLAND NORTH - Small island	SHORELINE SEGMENT GR-102 Ortheast end of Green Island
SESSMENT DATE: 5/16/89 on cobble beach on heavy tar and on rock reefs and remove all oiled fected areas.	SSESSMENT DATE: 5/16/89 is): ing is light and patchy. Possibly line.
ium.	1e.
e ey): areas when tide is low. Site survey): al materials are uncovered during logical Field Director and take tional Guidelines for Shoreline	<pre>ite survey): biota. If cleanup activities occur ered. m site survey): :ural materials are uncovered during eological Field Director and take erational Guidelines for Shoreline ed.</pre>
Date: 5-/9-89 Date: 5-21-89	Date: May 19, 1989 Date: 5-19-89 Date: 5-21-89
Date. 3-47-01	Date: 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

stipulations in Alaska DNR submerged lands .

station shoreline claude mural.

ly stipulations in Alaska DNR $_{\rm id}$ submerged lands .

thin probley FOSC uspection

SHORELINE . L EVALUATION

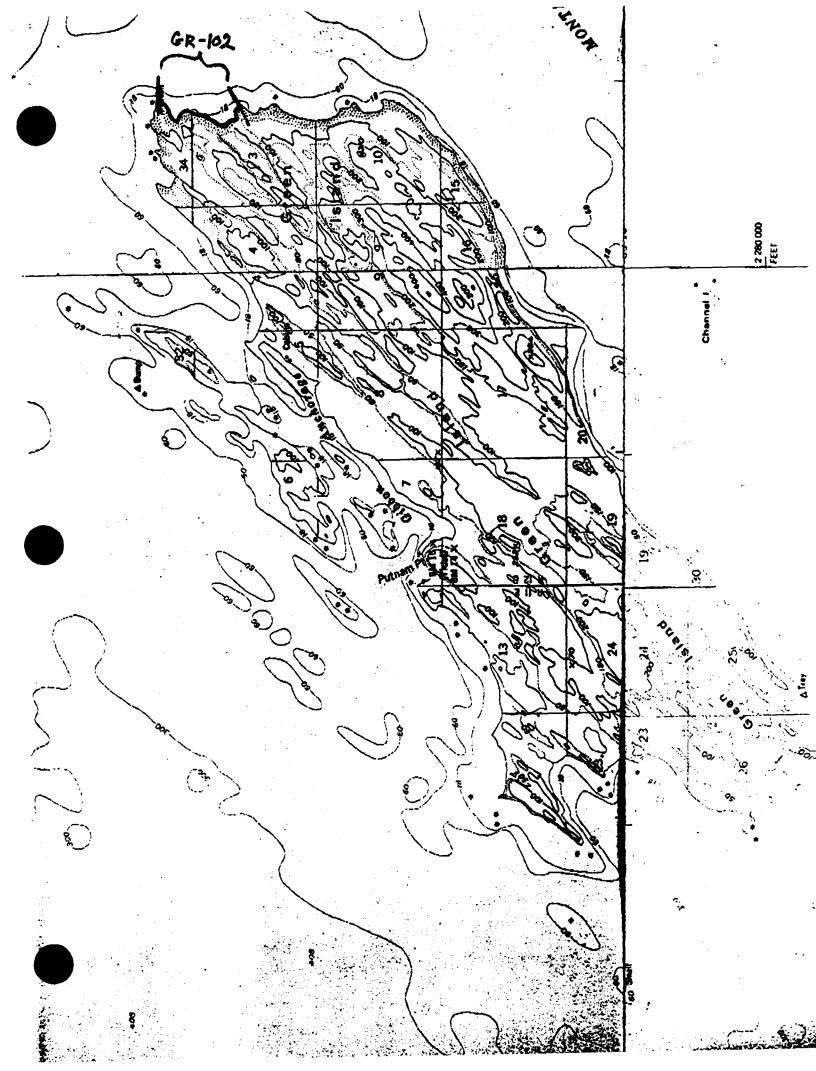
Date: 05/16/89 / Time: Observer:
Surveyed From: Foot/Bost/Helio/Plane Weather: Sur/Cloud/Rain/Snow/Fo
LOCATION
LOCATION GREEN ISLAND SEGMENT NUMBER GR 102
LENGTH OF SHORELINE SEGMENT: 1600 m
ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane
SHORELINE:
Shoreline Type:SPI/EEA/COV/HLD/STRT Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low
Sediment: B 10 2 / C 362 / P 5 2 / G 5 2 / S 2 / N 2 / R 50 2
Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type 1065
<u>oil</u>
Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved
Area of Beach Impact: SU / SP / H / W / L
Continuous: Y/N % of Segment Width of Band:m
Sporadic VN * of Segment 100
Est. Oil Thickness where > 1cm:cm
Pooled Oil:
Fresh * Mousse 20
Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/
Comments: '

ECOLOGICAL EVALUATION

	LOCATION: GREEN ISLAND SITE: GR 102 OBSERVER: MEYER
,	LOCATION PREFIX: GR SEG. NO.: 102 LENGTH: 1600 (M)
	DATE: 05 / 16 / 89 TIME (HHMM): 1600 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
	Dead fucus is retaining oil and mousse, surrounding todders ! collides no longer oiled.
	Mytilus (Mussels): Patchy y N Contin. WN Dense y N Sparse Y/N None Y/
	Balanus (Barnacles): Patchy ()/N Contin. ()/N Dense ()/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 ORGERMANTONS. Miled and light and add a single siled Come will
	OTHER OBSERVATIONS: Oiled areas light and patrhy, primarily oiled fucus, with
	Abundant mythus, balance, litorina throughout are and rocks self-cleaned.
	CLEANUP PRECAUTIONS: No change recommended.
	MAMMALS: Otters Harbor Seals Sea Lions Whales
	Other
	BIRDS: Fagle, several small alcids - memolets
	GENERAL OBSERVATIONS:

CULTURAL	RESOURCE	EVALUATION

Date 5/16/89 Location Wien Island Site
Location Prefix GR Segment # GP-103 Length 1600m
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 to oil
Width of beach zone surveyed 0-3 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code)
General observations justifying survey method and segment's site probability:
Shore Profile moderately sloped beaches
Fresh Water Sources water neeping on leads!
Sea Exposure open to last
Access/Safety good at fow tide
Probability of undiscovered sites in beach zone (circle one) 1 3 4 5
Monitoring during cleanup needed yes no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) C. Welnen
Time survey started 1600 Time survey ended 1625
Cultural resource considerations/restraints:
I f be stodere underquesed outtied meterial are
unrowered during cleaning control Efform rechardosis
I flestofore undireveed outtied material see surrovered during cleaning control Effor suchaeologic C Mobbly, immediately
()



SHORELINE CLEANUP PROGRAM

DATE 5/19/89	SHORELINE SEGMENT GR-103
LOCATION: (see enclosed map)	Green Island Northeast end
ADEC NOSHORELINE	ASSESSMENT DATE: 5/16/89
prior to mechanical cleanup. heavy tar and mousse area. deposited above high tide lin	(ies): Scoop up heavy mousse areas Use hot water on cobble beach on Pick up manually oiled sea grasses e and double bag. On beach #3 oiled y be pushed into active surf zone.
Priorities Considerations: M	edium.
medium tidal areas when tide	site survey): Do not clean high - is low. Do not use high pressure/ iled grasses. Do not clean this area
cleanup, contact Exxon's Arc	tural materials are uncovered during theological Field Director and take perational Guidelines for Shoreline
Ohule E. Homes State Historic Preservation 0	Date: <u>May 19, 1989</u>
EXXON:	
FOCC.	nate: 5-2/-89

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

SHORELINE OIL EVALUATION

: 🖰

Date: 05/16/89/ Time: 1630	Observer: MEHER
Surveyed From: Foot/Soat/Helio/Plane	Weather: Sun Cloud/Rain/Snow/Fog
LOCATION	,
LOCATION Northwest shore of Green Island ST	egment number <u>GR 10.3</u>
LENGTH OF SHORELINE SEGMENT: 4300	
ACCESS: Foot/Vehicle/Boat/Barge/Helio/F	loat Plane
SHORELINE:	
Shoreline Type:SPI/BEA/COV/HLD/STRT	Slope: LANG/HANG/VER)
Wave Exposure: High/Med/Low	
Sediment: B 15% / C 10% / P 2 % / G 2 % /	/ S_1 * / M_ * /R 70 *
Drift Debris on Beach: Yes No Supr	e/Upper/Mid/Lower Type unoiled lons
OIL	Junes
Degree of Oiling: Heavy/Moderate/Light	nt No Oil/Unobserved
Area of Beach Impact: SU / SP / H / H)	L
Continuous: YN tof Segment 80	Width of Band: 10-25 m
Sporadic: YN tof Segment 20	
Est. Oil Thickness where > 1cm: 12 cm	Est. Oil Penetration:cm
Pooled Oil: % "Free" Oil: 25 % Co	ated: H 30 % /M 45% /L_%
Fresh 10 t Mousse 60	_
Drift Debris Oiled ? Yes/No Supra/Oppe	Mid/Lower Amount: H/M/L/
Comments:	
Beach + 1 - patches of heavy free oil morse: most o	I on bedrack; continuous band @ MID. HIGH
hade leve a corners hime colod and weathere	1 s. 1 covered with newer misse.
Beach # 2 - pratiques sm bond of oil @ mid. Between Beach # 2 and # 3 - continuous mod heavy Beach # 2 - Feet and only has bond of me	high tideline
Between Berch # 2 and # 3 - contrinous mod- heavy	band of mousse 6-20m wide @ wind tide line
Beach * 3 - Fast and only has bond of me	russe; It oil above high tide line
usixed in gravel - possibly of	ill groved redeposited by tide.

ECOLOGICAL EVALUATION

LOCATION: GREEN SLAND SITE: GR 103 OBSERVER: MEYER
LOCATION PREFIX: 6R SEG. NO.: 103 LENGTH: 4300 (M)
DATE: 05/16/89 TIME (HIDDM): 1630 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 Fucus in mid-high ITZ oiled and dead; healthy fucus in lower tidal zone. High tide line marked on beaches by continuous voll of dead, uproted cal grass retaining heavy mouses.
Nytilus (Mussels): Patchy Y/N Contin. Y/N Dense W/N Sparse W/N None Y/N
Some mussels coaled with oil but alive (closed)
Balanus (Barnacles): Patchy (Y)N Contin. Y/N Dense (Y)N Sparse (Y)N None Y/N
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: Oiled zone basically free of mytiles, balances, letterina, limpots, line fucus. Beach 3 has oiled once extending around nots of land grasses.
CLEANUP PRECAUTIONS: Work oiled band only at mid tide to high tide to
avoid drawage to living biots in lower intertidal some. Pick up and bay the
Leavily oiled / Maussed retining sea grasses. MAMMALS: Otters Marbor Seals Sea Lions Whales
BIRDS: 4 Pigeon Guillemets; 1 Great Alue Herry
GENERAL OBSERVATIONS:

_{ಆಗ್ರ}ಕ್ಕ್ರಗ್ರಶ್ವರ ಸ⊶ಕ್ಕರ ನಡೆದು. ಹಸಸರಿಗೆ ಅರಸಕೆಡಿತ

CULTURAL RESOURCE EVALUATION
Date 5/16/89 Tocation When Taland Site
Location Prefix GR Segment # CR-103 Length 4300m
Survey Method:
Air (A - indicate on map) Boat indicate on map;
Ground (G - indicate on map)
Known cultural resources (AHRS #) 207 Data Source 14(h) ?
Oil conditions/beach visibility light to lawy
Width of beach zone surveyed 2-8 m Tree fringe surveyed 10m
Cultural resources observed in beach zone (AHRS code) Name
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability:
shore Profile Tun cappled hearles but monthy steep for and
Fresh Water Sources of the strange
Sea Exposure Open to north
Access/Safety good
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # Mone Frames
P/W Poll #

Observer(s) C. Wilson

Time survey started /630 Time survey ended /880

Cultural resource considerations/restraints:

If heretopor undiscovered sustand somewise are identified dung skump soutant Expore subscribed.



SHORELINE CLEANUP PROGRAM

DATE_	5/19/89	•	SHORELINE SEGMENT_	GR-104
LOCAT	ION: (see encl	osed map) GREE	N ISLAND NORTH	
ADEC	NO.	SHORELINE ASSES	SSMENT DATE: 5/1	6/89
		p Activity(ies):		×/ ∨/-
	hot water (e beach, high pres	sure on rock
Prior	ities Conside	rations:		
Low	•			
Ecolo	gical Constra	ints (from site	survey):	
Do 1	not clean hig	h-medium tidal a	areas when tide is 1	low.
If her cleans action	retofore undis up, contact ns prescribed	Exxon's Archeol	ite survey): l materials are unco ogical Field Direct ional Guidelines f	tor and take
State	Marles To	Servation Office	Date: May	19, 1989
EXXON	·		Date: 3-/9	-89
FOSC:			Date: 5-2)	1-89

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

SHOPPLINE OIL EVALUATION

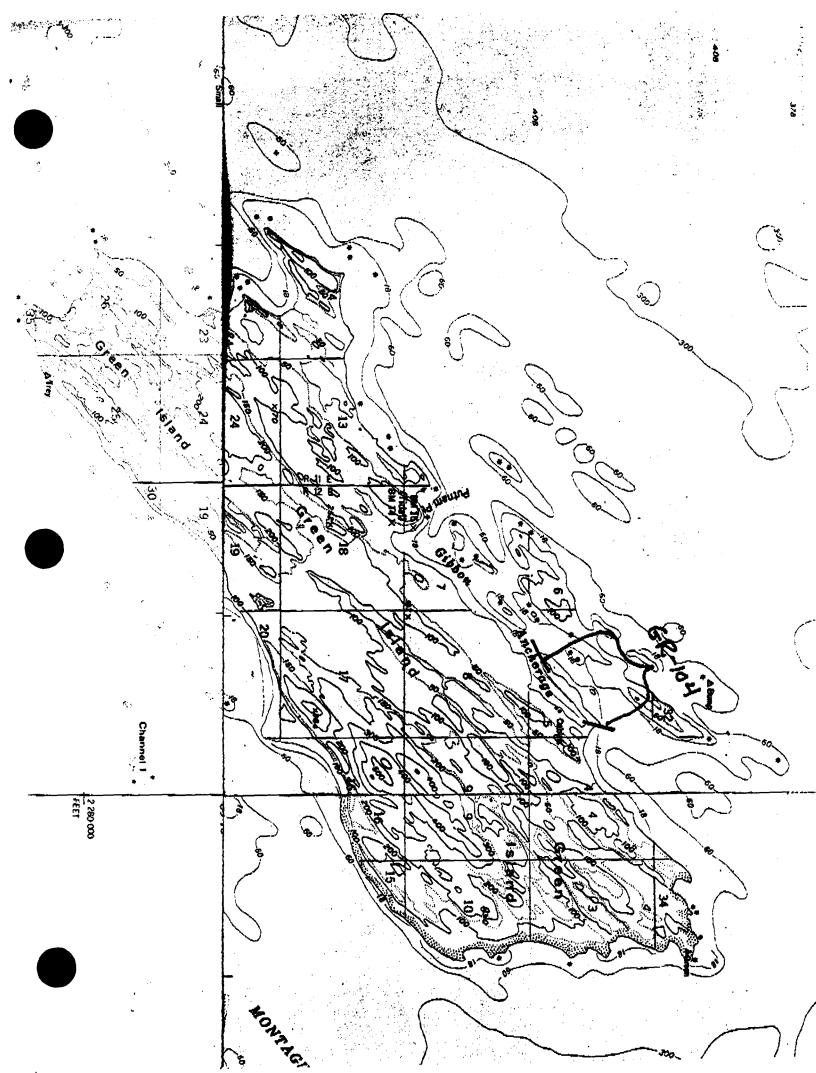
Date: 05/16/89/ Time: 1715	Observer: MEYER_
Surveyed From: Too /Boal/Helio/Plane	Weather: Sun Cloud/Rain/Snow/Fog
LOCATION	
LOCATION NORTH GREEN ISLAND	SEGMENT NUMBER _GR 104
LENGTH OF SHORELINE SEGMENT:	<i>15</i> m
ACCESS: Foot/Vehicle/Boat/Barge/Helio,	/Float Plane
SHORELINE:	
Shoreline Type:SPI/GEN/COV/HLD/STRT	Slope: LANG/HANG/FER
Wave Exposure: High/Hea/Low	
Sediment: B_ * / C <u>55</u> * / P <u>5</u> * / G <u>20</u> :	* / S_ * / N_ * /R_/D *
Drift Debris on Beach: (es/No Su	pra/upper/Mid/Lower Type 1065
OIL	*
Degree of Oiling: Heavy/Moderate/K	ight/No Oil/Unobserved
Area of Beach Impact: SU / SP / H /	-
Continuous: Y/N % of Segment	50 Width of Band:m
Sporadic: Y/N % of Segment	<u>50 </u>
Est. Oil Thickness where > 1cm:c	Est. Oil Penetration:cm
Pooled Oil: % "Free" Oil: % (Coated: H_ * /M /00 * /L_ *
Fresh 8 Mousse 8	O t Tar Formation: 20 t
Drift Debris Oiled ? Yes/No Supra/Upp	per/Mid/Lower Amount: H/M/L/
Comments:	. •
Oiled areas patchy and >1	m wide - low prosty cleanup.
·	

MCOLOGICAL EVALUATION

LOCATION: N. Green Sand SITE: GR 104 OBSERVER: MEYER
LOCATION PREFIX: GR SEG. NO.: 104 LENGTH: 15 (M)
DATE: 05 / 16 / 89 TIME (HHMM): 17/5 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 Fixus in lower tidal Zone adjacent to oiled annu alive i healthy Mytilus (Mussels): Patchy (Y/N Contin. Y/N Dense (Y/N Sparse Y/N None Y/N
Balanus (Barnacles): Patchy ON Contin. Y/N Dense Y/N Sparse ON 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 W/N
OTHER OBSERVATIONS: Segment primarily cobble + gravel beaches — little bioto present.
CLEANUP PRECAUTIONS:
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: 2 eystercatches, ~ 20 glancous usinged galls, 1 Short-billed dounteher
GENERAL OBSERVATIONS: Oiled sweet patchy and 71 m wide, not
BIRDS: 2 eystercatches, ~20 glancers winged galls, 1 Short billed downtches. GENERAL OBSERVATIONS: [1] I sweet patchy and 71 m with, not much bioto impacted, some dead oiled fraces in patches.

CULTURAL RESOURCE EVALUATION

Date 5/16/89 Location Mess Taland Site
Location Prefix GR Segment # CR 104 Length 1200
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) <u>None</u> Data Source <u>None</u>
Oil conditions/beach visibility light
Width of beach zone surveyed now m Tree fringe surveyed Now
Cultural resources observed in beach zone (AHRS code) Anno
Cultural resources observed in tree fringe (AHRS code) fore
General observations justifying survey method and segment's site probability:
Shore Profile steep worth and heavy boulder feelow
Fresh Water Sources None
sea Exposure protected to north
Access/Safety_gond
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # None Frames
B/W Roll #Frames
Observer(s) C. Whan
Time survey started 1815 Time survey ended 1830
Cultural resource considerations/restraints:
If heretofore undiscovered cuetical resources are
unovered dung champ notify Eyon aich-
reologist, C. Mobby, immediately



SHORELINE CLEANUP PROGRAM

DATE 5/19/89	SHORELINE SEGMENT GR-105
LOCATION: (see enclosed map)	Green Island
ADEC NOSHORELINE	ASSESSMENT DATE: 5/16/89
Recommended Cleanup Activity(ies):
No cleanup recommended.	
	-
Priorities Considerations: No	one.
Ecological Constraints (from s	site survey):
No constraints necessary bed cleanup occurs, constraints sh	cause no cleanup is recommended. If nould be reconsidered.
Archeological Constraints (fro No constraints necessary beca cleanup occurs, constraints sh	use no cleanup is recommended. If
Charle E + Somes	Date: <u>May 19, 1989</u> fficer *
State Historic Preservation Of	rricer *
EXXON:	$\leq ln / cq$
7030:	Date: <u>5/21/89</u>

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

SHORELING OIL EVALUATION

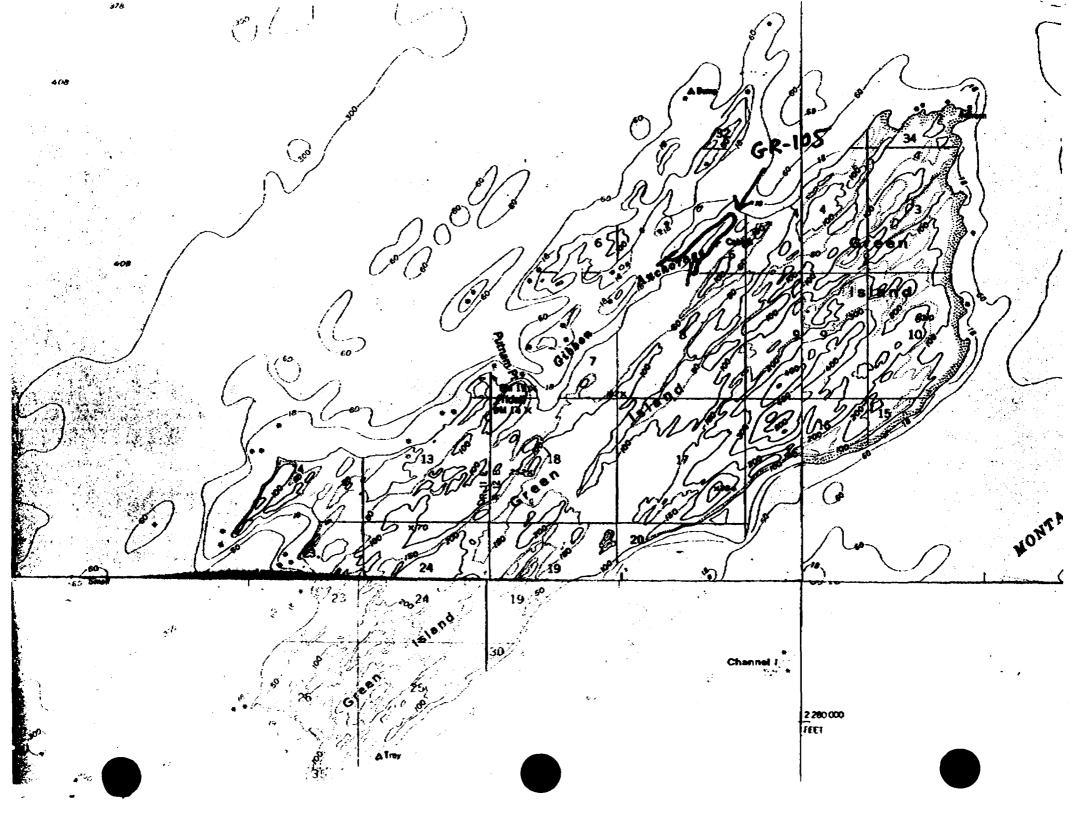
	Date: 05/16/89/ Time: 18/5 Observer: MEYER
,	Surveyed From: Foot/Soat/Helio/Plane Weather: Sur/Cloud/Rain/Snow/Foo
	LOCATION
	LOCATION GREEN SLAND SEGMENT NUMBER GR 105
	LENGTH OF SHORELINE SEGMENT: 2100
	ACCESS: (2002/Vehicle/Boat/Barge/Helio/Float Plane
	SHORELINE:
	Shoreline Type:SPI/BEA/COV/HLD/STRT Slope: (ANG/HANG/VER
	Wave Exposure: High/Med/Loy
	Sediment: B \$ / C 30 \$ / P \$ / G 60 \$ / S 10 \$ / N \$ /R \$
	Drift Debris on Beach: (Yes/No Supra/Upper/Mid/Lower Type 1465
:	OIL ·
	Degree of Oiling: Heavy/Moderate/Light/% Oil/Unobserved
	Area of Beach Impact: SU / SP / H / M / L
	Continuous: Y/N % of Segment
	Sporadic: Y/N % of Segment
	Est. Oil Thickness where > 1cm:cm Est. Oil Penetration:cm
	Pooled Oil: D t "Free" Oil: S t Coated: H D t /M D t /L D t
	Fresh * Mousse * Tar Formation: *
	Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lover Amount: H/M/L/
	Comments:
	NO DIL IN AREA - PROTECTED COVE.
\	

ECOLOGICAL EVALUATION

LOCATION: GREEN ISLAND SITE: GR 105 OBSERVER: MEYER
LOCATION PREFIX: GR SEG. NO.: 105 LENGTH: 2100 (M)
DATE: 05/16/89 TIME (HHMM): 1815 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
Algoe on gravel / send at low tidal area; fecus spotty and annied throughout ann.
Mytilus (Mussels): Patchy (Y/N Contin. Y/N Dense Y/N Sparse (Y/N None Y/1
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: SUCCESSED ONLY BY BOAT - NO OIL EVIDENT
CLEANUP PRECAUTIONS: NO CLEANUP RECUMMENDED
MAMMALS: Otters / Harbor Seals Sea Lions Whales
BIRDS: 2 Oystercotchers, 5 piges quellent
GENERAL OBSERVATIONS: ENTIRE AREA IS PROTECTED AND FREE OF OIL CONTAMINATED.

CULTURAL RESOURCE EVALUATION

Date 5 16 89 Location Mana Taland site
Location Prefix GR Segment # GR-105 Length 2100 cm
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) Mone Data Source Mane
Oil conditions/beach visibility to all promet
Width of beach zone surveyed O m Tree fringe surveyed 6
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code) Kone
General observations justifying survey method and segment's site probability:
Shore Profile Youl
Fresh Water Sources lake in back of basch may bone been
Sea Exposure stellered.
Access/Safety good
Probability of undiscovered sites in beach zone (circle one) 1 23 4 5
Monitoring during cleanup needed yes/fo Collection yes/no
Photos: Color Roll # / Frames
B/W Roll # Frames
Observer(s) C. Wilhon
Time survey started /836 Time survey ended
Cultural resource considerations/restraints:
Localed during claring northist Byon rich - deologist, C. Wobley, immediately
Tocated during claring contact Byton rich -
deologust, C. Mobbey, immediately



SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

	Location (see enclosed map): GREEN ISLAND NORTH BLOCK	
	(REASSESSMENT)	
	Includes Shoreline Segments: GR-104R	
	Submitted: Date: 8/17/39	- !
	ISCC Recommendation: Jacque Michel Date: 8/23/8	<u> </u>
W	FOSC Approval: S. Craurey L Date: 5-23-69	
	The cleanup procedures identified in the Shoreline Cleanup Prograre recommended. Modifications to these systems can be made in field. Exxon and other field personnel are encouraged to sugget innovations and productivity enhancements to the OSC's on-screpresentative. The OSC's representative has the authority approve on-site modifications. The Field Resource Team should consulted if these actions do not fit within the Ecologic Constraints of the Shoreline Cleanup Program. Requirements as afety and the protection of cultural material must be observed.	the est ene to be cal
	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

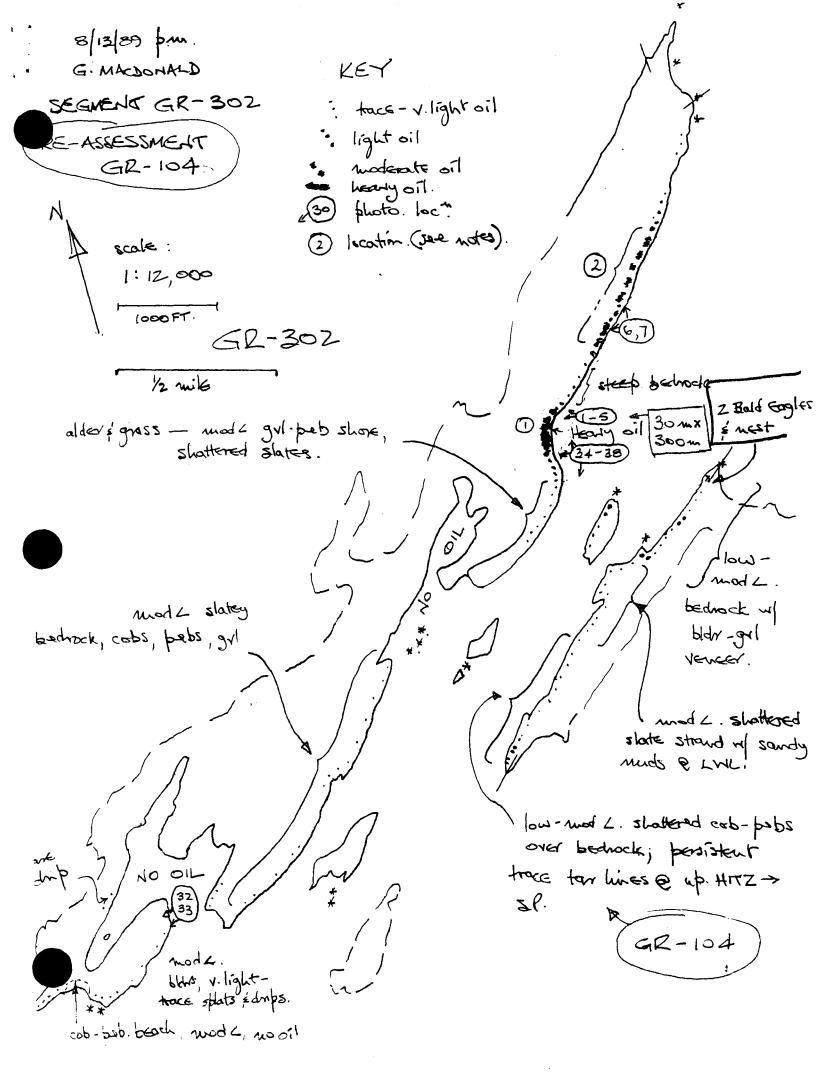
USFS

SHORELINE CLEANUP PROGRAM

DATE8/16/89	SHORELINE SEGMENT GR-104R
LOCATION: (see enclosed map)	GREEN ISLAND-NORTHERN
(GREEM ISLAND NORTH BLOCK) (REASSESSMENT)
ADEC NOSHORELINE A	SSESSMENT DATE: 8/13/89
	at this time due to light oil re exposure which has been cleaning
Priorities Considerations: 4B	
	ite survey): ause of the presence of an active urbed if this small amount of oil
during cleanup, contact Exxon'	cultural materials are uncovered s Archeological Field Director and the Operational Guidelines for
State Historic Preservation Of	Date: 8/17/8-9
ISCC:	Date:
EXXON:	Date:
FOSC.	Date:

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

RE-ASSESS GR-104R 14.30 HRS mod-low L bedrock blocky blooms (sandst.) & shattened light-tract oil as fresh tow drips, spots & shots a withingwide - shot & and @ up. HITZ here corest diamical or bacteriologic easily - frost & work susceptible 14.50 HCS. EAD of SEGMENT



EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE	SEGMENT	NUMBER	GR-102	
SHORELINE	SEGMENT	name		
SUBMITTED	FOR APPR	OVAL _	<u>//</u> 89	
COMMENTS:			•	

Signature of EXXON rep

ADEC comments on the condition of this shoreline segment and action recommendation.

No clean-up recommended in block report

No clean-up was done according to USCG monitors

Area checked 6/4/89 and not much oil present.

No objection to once not being

treated at This time.

Coast Guard Comments and Action.

X Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

All contamination has been removed. No further treatment required unless re-oiled.

This segment was Recommended FOR NO TRANTMENT By SCAT. NO TREATMENT WAS CONDUCTED

Signature of Coast Guard rep

XC: ADEC EXXON FSOC

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

	SHORELINE SEGMENT NUMBER
	SHORELINE SEGMENT NAME
	SUBMITTED FOR APPROVAL _6/_// 89
	COMMENTS:
	4 - 0
	Signature of EXXON rep
	ADEC comments on the condition of this shoreline segment and action recommendation.
	Area free of pooled oil, free oil and oiled debris.
	Oil still present.
	No objection to crews moving to other areas
	Sta Contra
	Signature of ADEC rep
	Coast Guard Comments and Action.
	X Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a
	later date to determine future treatment.
	The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine
	future treatment.
	All contamination has been removed. No further treatment required unless re-oiled.
j.	14 Debeis And Solbent Boom Should Be Waland Mandon 17 Scott
·	required unless re-oiled. If Debris' And Sorbent Boom Should Be Refositioned. MANNEW Sware Boom to Prevent Signature of Coast Guard rep XC: ADEC Recoling.
	TVVAH T

FROC

;#

EXXON VALDES

SHORELINE TREATMENT APPROVAL

shoreline segnent number <u>G</u> e	105
SHORELINE SEGNENT NAME	
SUBMITTED FOR APPROVAL 5/21/89	
COMMENTS:	
	C.F. Dugin
	Signature of EXXON rep
ADEC comments on the condition of recommendation.	this shoreline segment and action
·	,
	Signature of ADEC rep
Coast Guard Comments and Action.	the contract of the contract o
Completed removal of gross conthe oil will not migrate. Site will later date to determine future tree	IT Lednile Levezaazbeur er e
The majority of surface oil of the site will require reassessment future treatment.	entamination has been removed. at a later date to determine
All contamination has been represented unless re-oiled.	0.00.
	Signature of Coast Guard rep
	-

XC: ADEC

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

	Location (see enclosed map): GREEN ISLAND BLOCK
	Includes Shoreline Segments: GR-300, GR-301, GR-302
	Submitted: Date: 8/17/89
	ISCC Recommendation: Nuchel Date: 8/23/15
3	
	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.

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USFW-

A.DEC

A.FG

A.DNR

CAC

PWSCA

USFS

CSEN S ACTIVE BAND TEALUE NEST ACTIVE BALD ERGLE NEST SEABIRD LOLONY (iprid ool) GR-301/EST MONTAGU BALD FEAGLE BACST GR-300 ACTIVE BALD GREEN ISLAND BLOCK Engle NEST GR-300, GR-301, GR-302

3 active hald angle nest

(version 5/02/89)

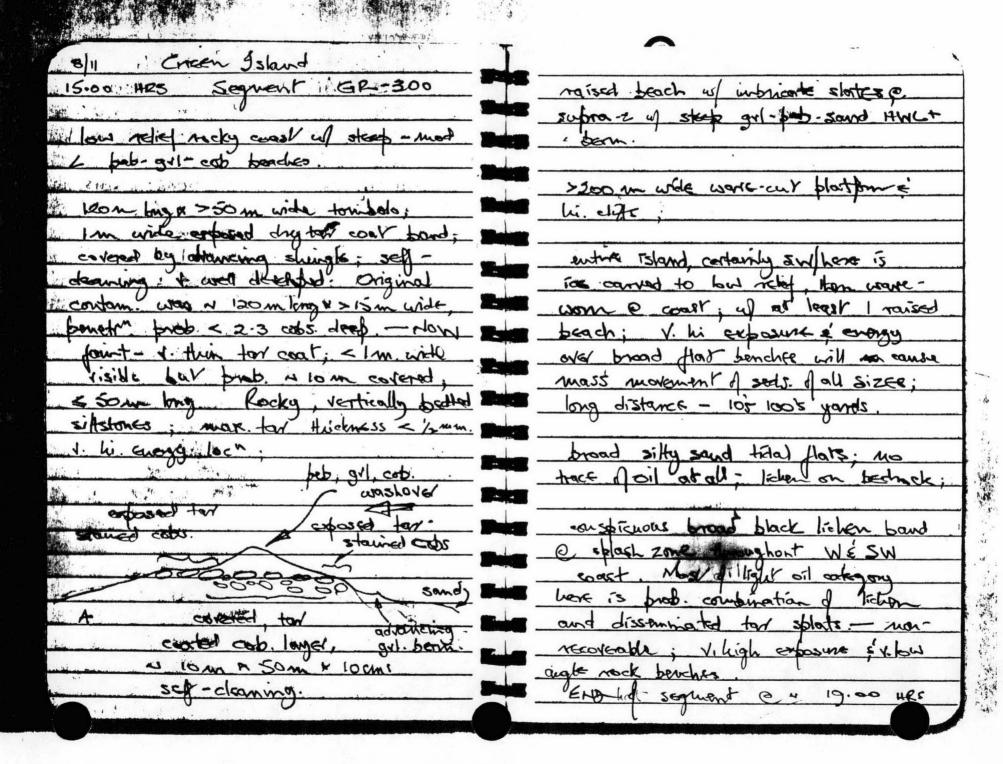
SHORELINE CLEANUP PROGRAM

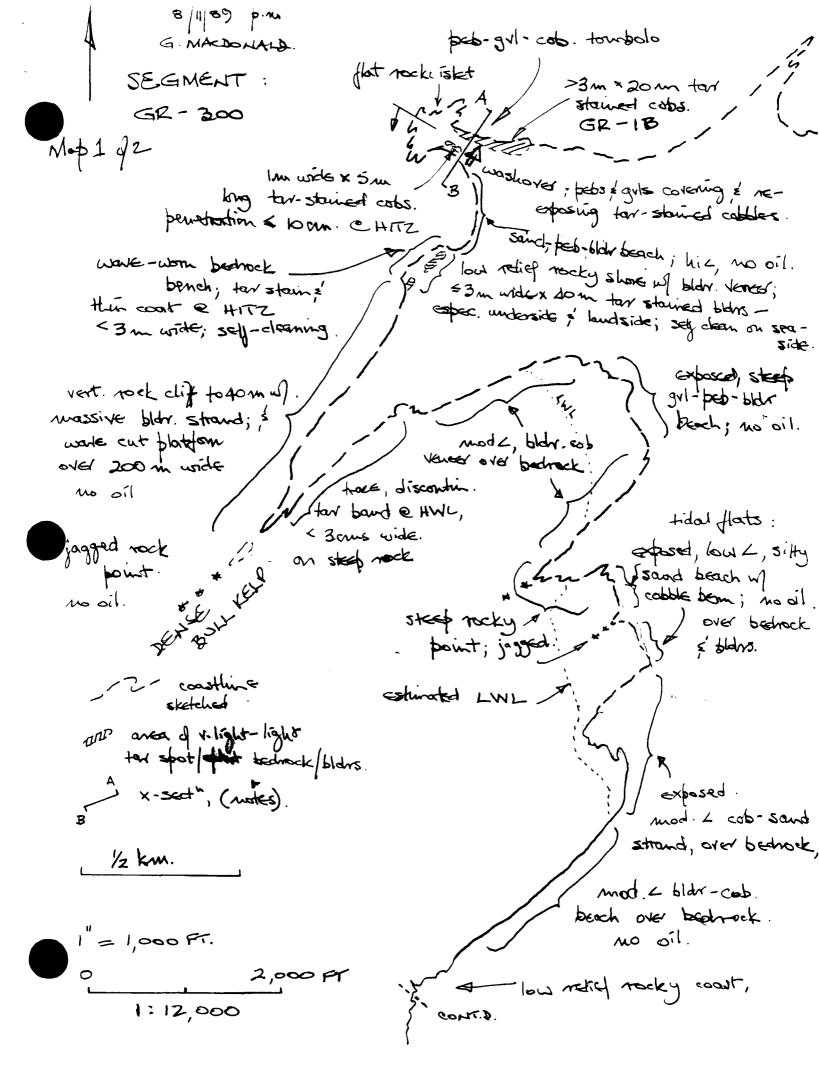
DATE 8/16/89	SHORELINE SEGMENT GR-300		
LOCATION: (see enclosed map)	GREEN ISLAND-SOUTHWEST COAST		
(GREEN ISLAND BLOCK)		
ADEC NOSHORELINE ASSES	SMENT DATE: 8/11/89		
Recommended Cleanup Activity(ies): No cleanup is recommended at reassessment) because oil contac cleaning is already in progress experienced on this shoreline and	this time (subject to FOSC mination is light and self-under the high wave energy		
Priorities Considerations: 4B			
Ecological Constraints (from site No cleanup is recommended becardisturb diverse communities of organisms inhabiting this shoreling	use cleanup activities would both terrestrial and marine		
Archeological Constraints (from site survey): If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.			
State Historic Presentation Office	Date: 8/17/89		
ISCC: Juguel michel	Date: 8/23/89		
EXXON:	Date:		
FOSC: D.F. Crancog L	Date: 8.23-89		

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

SHORELIME OIL EVALUATION

	Date: 8 11 89 Time: 15.00 Observer: GRAHAM MARDONAL
	Surveyed From: Foot Boat Helio/Plane Weather: Sun Cloud Rain/Snow/Fo
	LOCATION
	LOCATION S.W. CHECK Sound. SEGMENT NUMBER GR-300
	LENGTH OF SHORELINE SEGMENT: 9,500 m
	ACCESS: Foot/Vehicle Boat Barge Helio Float Plane Shallow draft only.
	SHORELINE: Shallow draft only.
	Shoreline Type; SPI BEA COV HLD STRT Slope: LANG HANG VER
	Wave Exposure: (High Med/Low
	Sediment: BIS 1 / CIS 1 / P 5 1 / G 5 1 / S 5 1 / M 1 /R 55 1
	Drift Debris on Beach: Yes No Supra/Upper/Mid/Lower Type
	OIL
	Degree of Oiling: Heavy/Moderate/Light/No Oil Unobserved V.LIGHT
	Area of Beach Impact: SU / SP H H / L
	Continuous: YN t of Segment Width of Band:m
	Sporadic: YN & of Segment 47/
	Est. Oil Thickness where > 1cm:cm Est. Oil Penetration: <pre>cm</pre>
	Pooled Oil:
	Fresh t Mousse t Tar Formation: t DRY
	Drift Debris Oiled ? Yes No Supra/Upper/Mid/Lower Amount: H/M/L/
	Comments:
	low relia island guarded by wide shoots and
	hazandus foul ground. V. light batchy too coating
	in high energy, his sediment boat intertidal zone;
	SELF-cleaning and colobba, block and bedrack evident,
	Especially @ Seable gyl. beach areas.
	Extended working tide window for this his priorty area.
,	





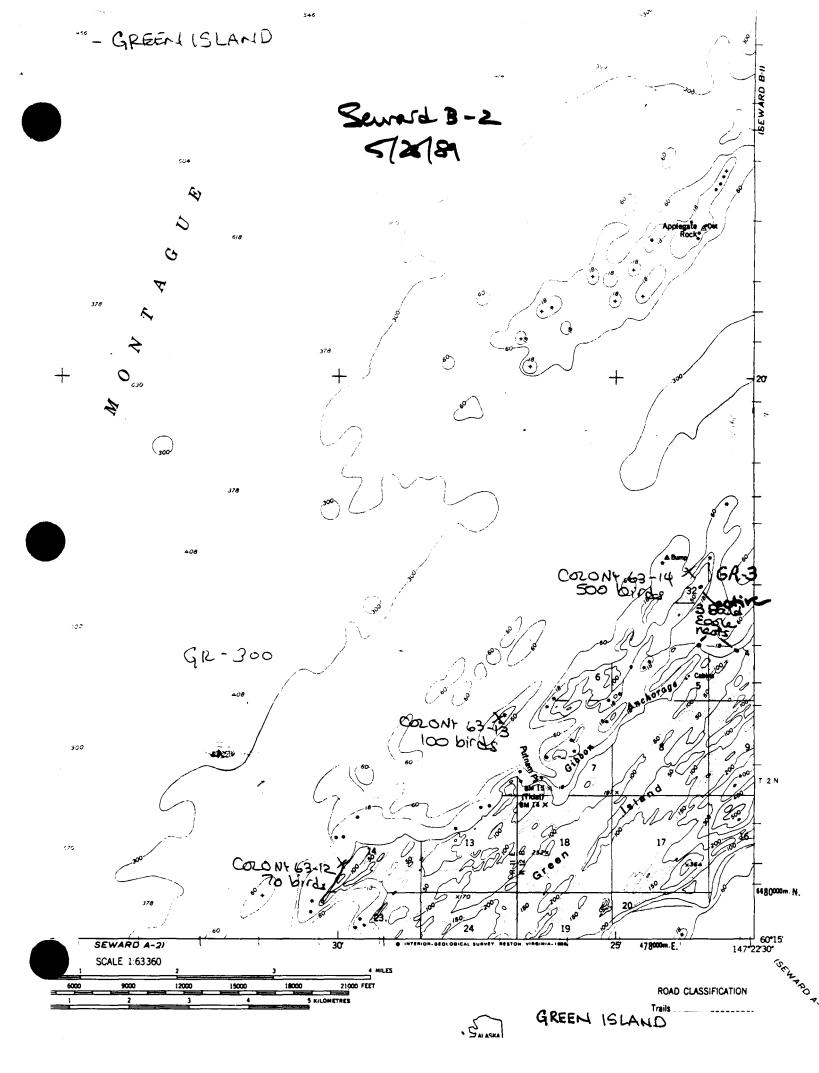
ECOLOGICAL EVALUATION

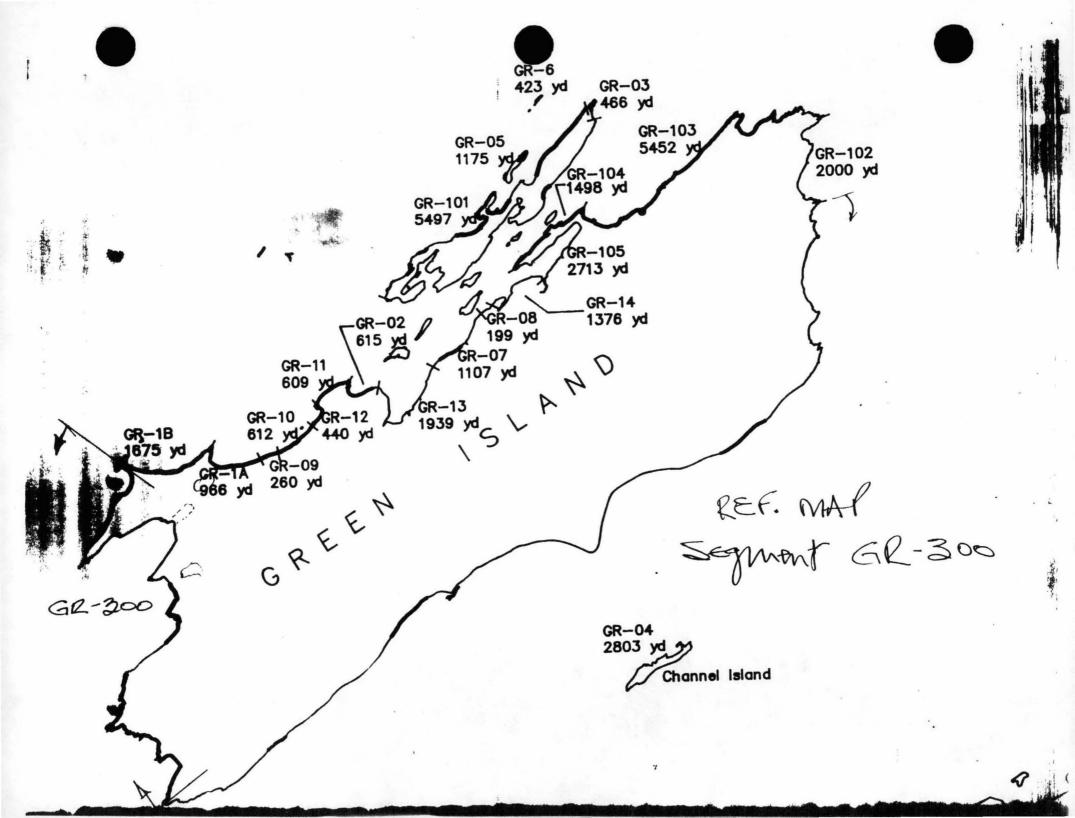
LOCATION: Pruce William Sound SITE: S.W. Green Island OBSERVER: S. Dearn
LOCATION PREFIX: SEG. NO.: GR-300 LENGTH: 9500 (M)
DATE: 08/11/89 TIME (HHMM): 1500 - 1900 TIDE HT.: 6-9ft.*
OILED ZONE: Splash High Medium Low as per Andy teals request for
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N Beaches had fines present in small clusters on larger bounders. Fucus was present in continuous bands in places-primarily on rocky outcroppings.
Mytilus (Mussels): Patchy Y N Contin. Y/N Dense Y N Sparse Y N None Y/N
Small patches of sparse & dense mussels were on the vertical sides of large boulders +1
Balanus (Barnacles): Patchy (Y)N Contin. (Y)N Dense (Y)N Sparse (Y)N None Y/N
Barnacles were present on larger boulders + rocky outeroppings. Many large individuals located within two segment.
Littorina Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Littorines were clustered in dense aggregations beneath fucus blades. A few individuals were also present under cabilles + boulders on several beaches.
Limpets: Patchy(Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Individuals were present under Fucus blades + under larger cobbles/boulders
OTHER OBSERVATIONS: Dense bull kelp beds (Nereocystis lutkeans) + Surfgrans geds
(Phyllospadix) were present within segment. Atop of storm terms + adjacent to speach some
diverse plant zone exists (terrestrial) the Many different algal species present in wrack line suggesting a diverse subtidal community.
CLEANUP PRECAUTIONS: This area contains a high diversity of organisms - both teres
+ marine. And clear up activity would significantly disturb these organisms. The
amount of oil the could be retrieved from cleanup methods would be minimal 2 whales (possible and does not jumpy the disturbance damage to these microhabitats.
MAMMALS: Otters O Harbor Seals Sea Lions Whales trueller South of Control of
BIRDS: 2 Black Oyoke Catchers 1 eagle 20+ Kittiwakes (10 observed on an apparent roost - is a near
rock), 30+ Juvenile marvied murelet type hand (positive wantification not made), 4 pigeon guillemots, numes sandifices (2 2 7 398), Glancous-wingen quill's GENERAL OBSERVATIONS:
A species rich area with many microhabitats. Wave exposure + sediment scour rates
are probably considerable during storms.

CULTURAL RESOURCE EVALUATION

Date 6-11-89 Location 6REEN 15. Site_
Location Prefix 6R Segment # 6K-200 Length 9500 ~.
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground (G - indicate on map)
Known cultural resources (AHRS #) DATH NOT HYAILARIE Data Source
Oil conditions/beach visibility Light to None, Good Visibility
Width of beach zone surveyed 10 m Tree fringe surveyed up to 5 m
Cultural resources observed in beach zone (AHRS code) SHP
Cultural resources observed in tree fringe (AHRS code) No NE
General observations justifying survey method and segment's site probability:
Shore Profile Low ANGLE WAVE CUT REEFS, To LOW ANGLE 6/C/S beach
Fresh Water Sources small streams
Sea Exposure high everyor 5 to SE acrossine
Access/Safety variable non-accession is fair, safety-made to
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes/no Collection yes/no
Photos: Color Roll # Frames
B/W Roll # P6P# 13 Frames 15-17
Observer(s) 26. Phippen
Time survey ented 1536 Time survey ended 1900
Cultural resource considerations/restraints:
Standard
1. 15 take

RECREATION: R. 12 E. R. 11 E. FORT CHALMERS CABIN PAOT - 6 MEDIUM RECIERATIONAL USE GR-300





SHORELINE CLEANUP PROGRAM

DATE 8/16/89	SHORELINE SEGMENT GR-301		
LOCATION: (see enclosed map) GREEN	ISLAND-SOUTHERN SHORE		
(GREEN ISLAND BLOCK)			
ADEC NOSHORELINE ASSESSME	ENT DATE: 8/12/89		
Recommended Cleanup Activity(ies): No cleanup is recommended at this reassessment) because oil contaminatelight or entirely lacking. Because self-cleaning of this small amount of	ion on this segment is either e wave energy is high here,		
Priorities Considerations:			
4 A			
Ecological Constraints (from site sur No cleanup is recommended because of and of marine mammals which would cleanup activities.	the high diversity of birds		
3 attre bold angle hasts			
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. IF CLEANUP IS DECREED DECREED DECREES AND THE ADDRESS OF THE PROPERTY WILL SEE THE PROPERTY WILL SE			
REQUIRED PRIVING TO ANY CLEANUP HETHUR	53		
State Historic Preservation Officer	Date: 8/17/89		
ISCC: Michel Michel	Date: 8/23/89		
EXXON: Smal D Total	Date: R.23.89		
FOSC: D. E. Crancay	Date: 8-23-89		
ı			

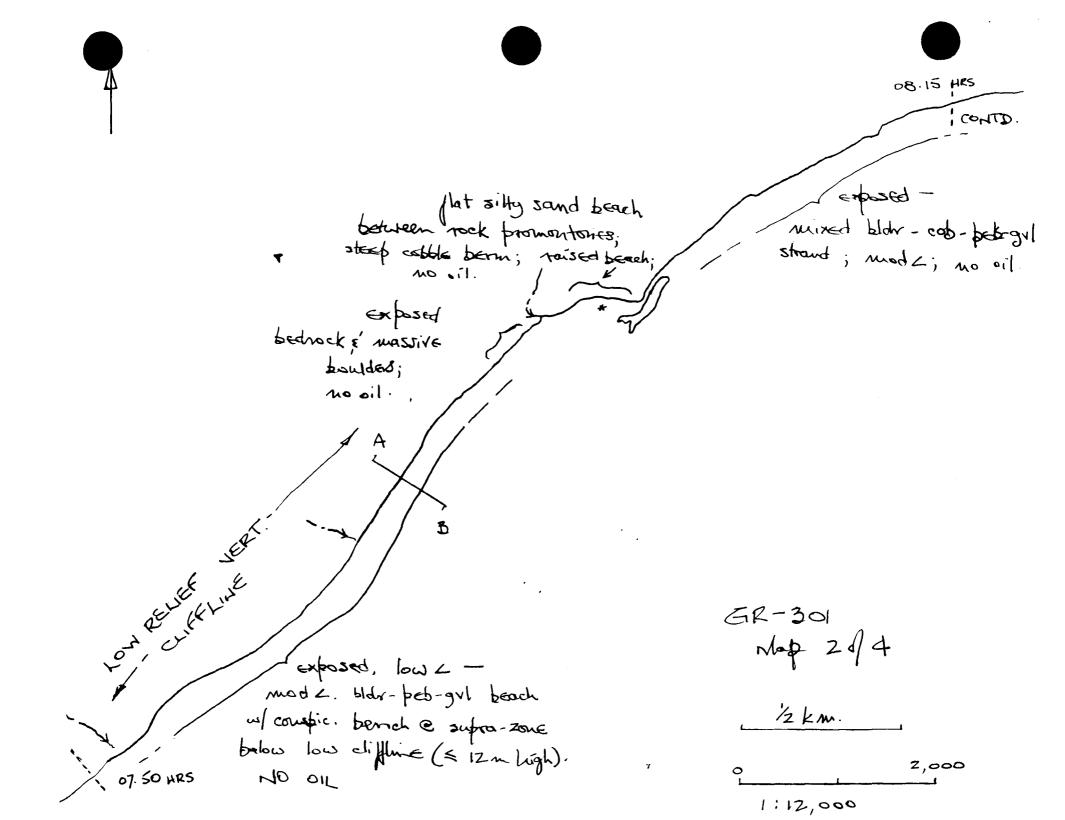
* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

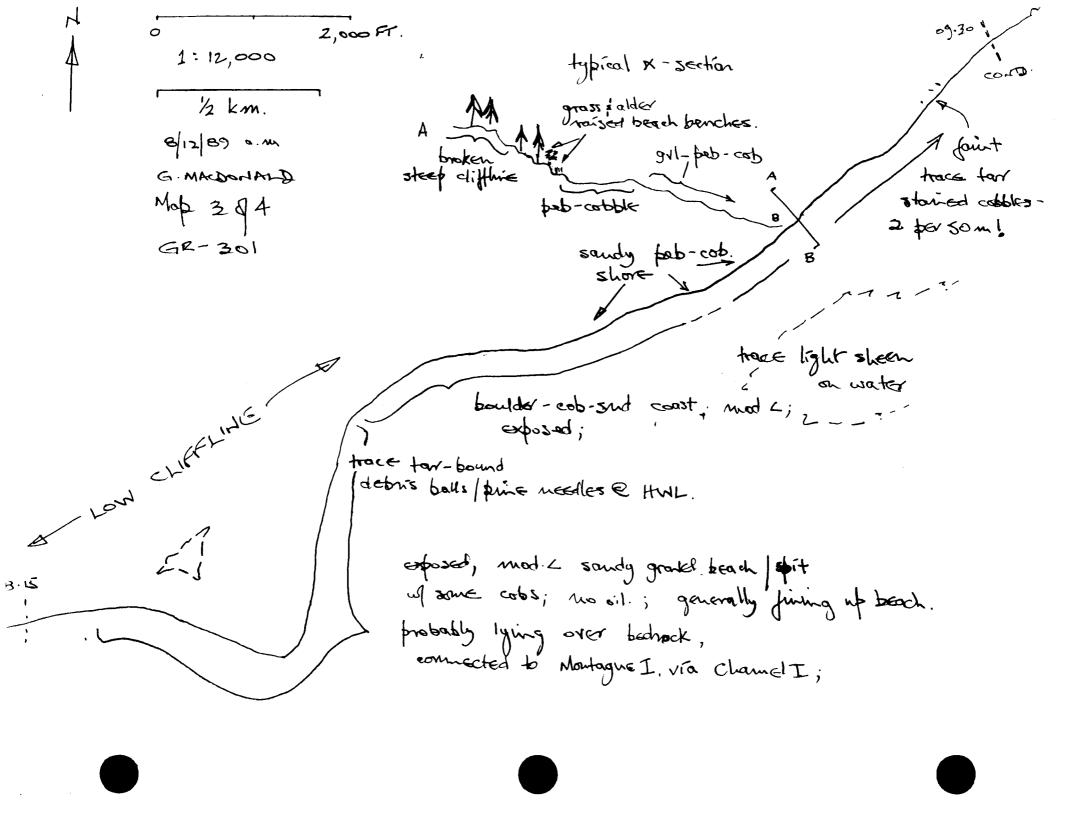
SHORELINE OIL EVALUATION

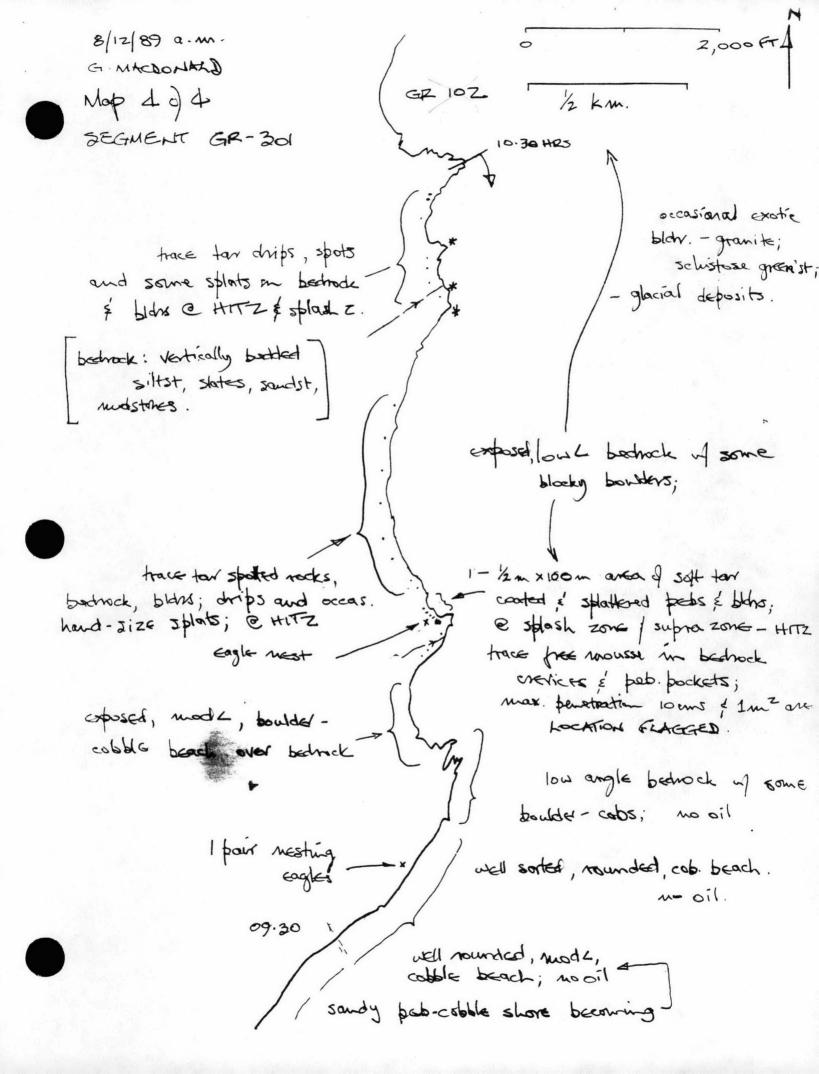
1 /	GRAHAM
Date: 8 12 85/ Time: 06.30	Observer: MARDONALD.
Surveyed From: Foot Boat Helio/Plane	Weather: Sun/Cloud/Rain/Snow Fo
LOCATION	
LOCATION S. Shore GREEN 15.	SEGMENT NUMBER _ GR - 301
LENGTH OF SHORELINE SEGMENT: 14, 7	200 m
ACCESS: Foot/Vehicle Boat Barge Helic	O/Float Plane
SHORELINE:	what only. (MOD)
Shoreline Type:SPI/BEA/COV/HLD/STRT	Slope: LANG HANG VER
Wave Exposure: High Med/Low State Sediment: B 50% / C15% / P 7 % / G 15 %	KE
Sediment: B 30 % / C 15 % / P 3 % / G 5	\$ / S / \$ / M _ \$ /R 50\$
Drift Debris on Beach: Yes No	upra/Upper/Mid/Lower Type
OIL	. ocasima.
Degree of Oiling: Heavy/Moderate/I	Light No Oil Unobserved TRACE
Area of Beach Impact: SU/SP/H/	f/L
Continuous: Yew % of Segment	∠ 10 Width of Band: ≤ 1 m
Sporadic: YN % of Segment_<	<u>: 1</u>
Est. Oil Thickness where > lcm:	m Est. Oil Penetration:cm
Pooled Oil: % "Free" Oil: Kere %	
Fresh % Mousse	Tar Formation: 99+8
Drift Debris Oiled ? Yes No Supra/Up	oper/Mid/Lower Amount: H/M/L/
Comments:	
Exposed, mod-low angle	bednock & boulder shore; v.
shallow - access hazond hi;	
tract tox-shotted section co	- broki & bus WIA =
disseminated spots & splo	its and occasional 2-3 m
lengths of tor line \$150	im wide.
Soft bedrock hi. erosia	n tak.
, –	

8/12 06.15 ARS GR-301 (35 ocas e channel I & NEL! Expused him neliet rocky coast w black granule strands on Us born@ strang like oil bonding locw. W occan swells Map 3 - fract sheen on water; trace natural elen from backbeach no oil on beach; test bitsno trace. behock & beaches flushed by small Streams chaining bog & lowland; Super/H,S bot. below rotting secured Mob 4 no oil heads a stream exit. small crevice lilled w mound soturated (cooked gol, 1 m2 × 10 mms * CERCLA site? below eagle west typical X-section remainder of bedrock is stated on ter drips / spots & hand - size state bldr: bedrock FLAGGED or situ 412M sand Hacts V. macesithe coast for anything but 1. shallow draft craft & 18" cob-bas raised beach cob-beb 10:30 HRS. SEGMENT. BU3 8. 16 · 西日 1 · 明金·

8/11/89 p.m exposed, low 1:12,000 GR-360 contd. eliet, rocky coast; GR-301 8/12 a.m. Z,000 FT 100 m wide interice work 1/2 Km. restricted being Canada acts. boulder veneer cob. beb. sand beaches covering well rounded plan armour over dat bednock. jagged rock bount. discontin. tor bond, < 10 m widt x < 10 m long low L. Sandy beach @ HITZ, on vert rock strata. ul blows. no oil. occas. 20.50m long KITTIWAKE ROOST decaying veg -> Small strands of soundy guls. trace tan splots marsh oil sheen. and thin (<5m wide) blacky sub-roundedbedrock; max with of ~ 50 clean and boulded over low < - mode. absorb. boom bedrock State & Ak spot/splat zone & 10m', Cerela Study Sit #4527 or confined to channel ways ying perpendicular to beach & wowe-worn fow relig coast, Jaces of blooms. 8/11 p.m. shoals; medically 8/12/89 bedded sediments; a.m. V. expased; low diffline; hi exposure; Plan-cap armour GR-301 over low Z. bednock Map 194





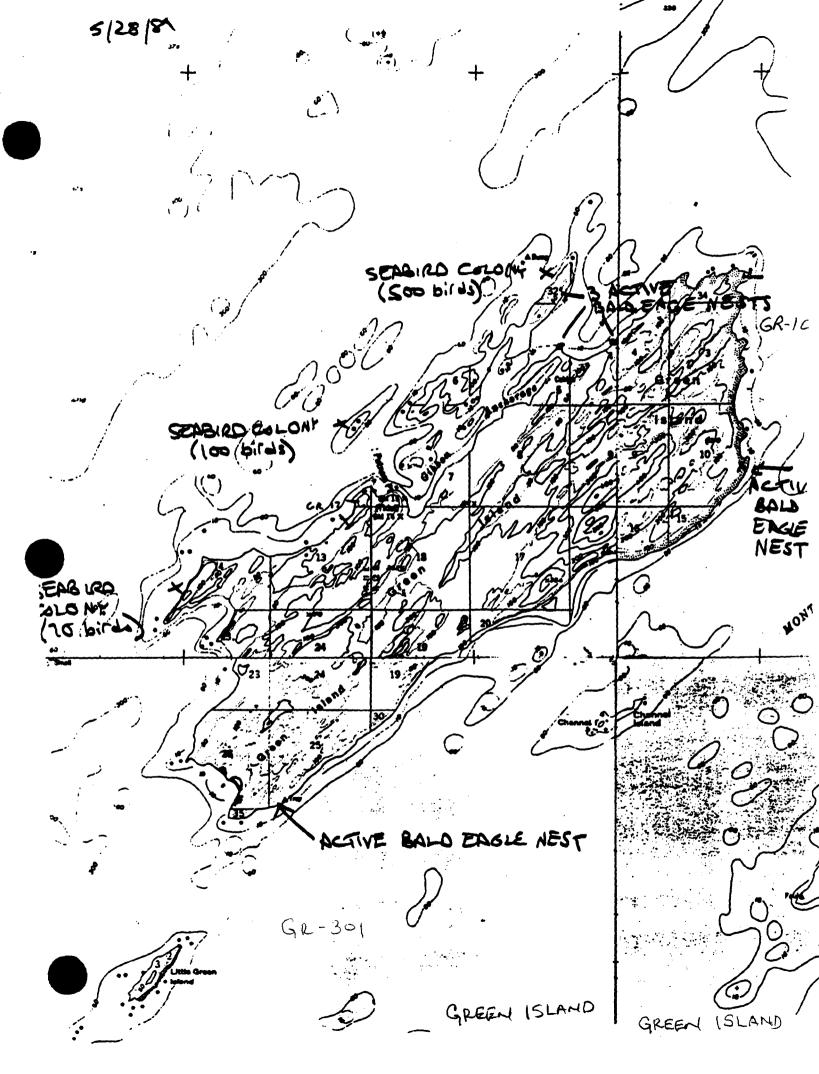


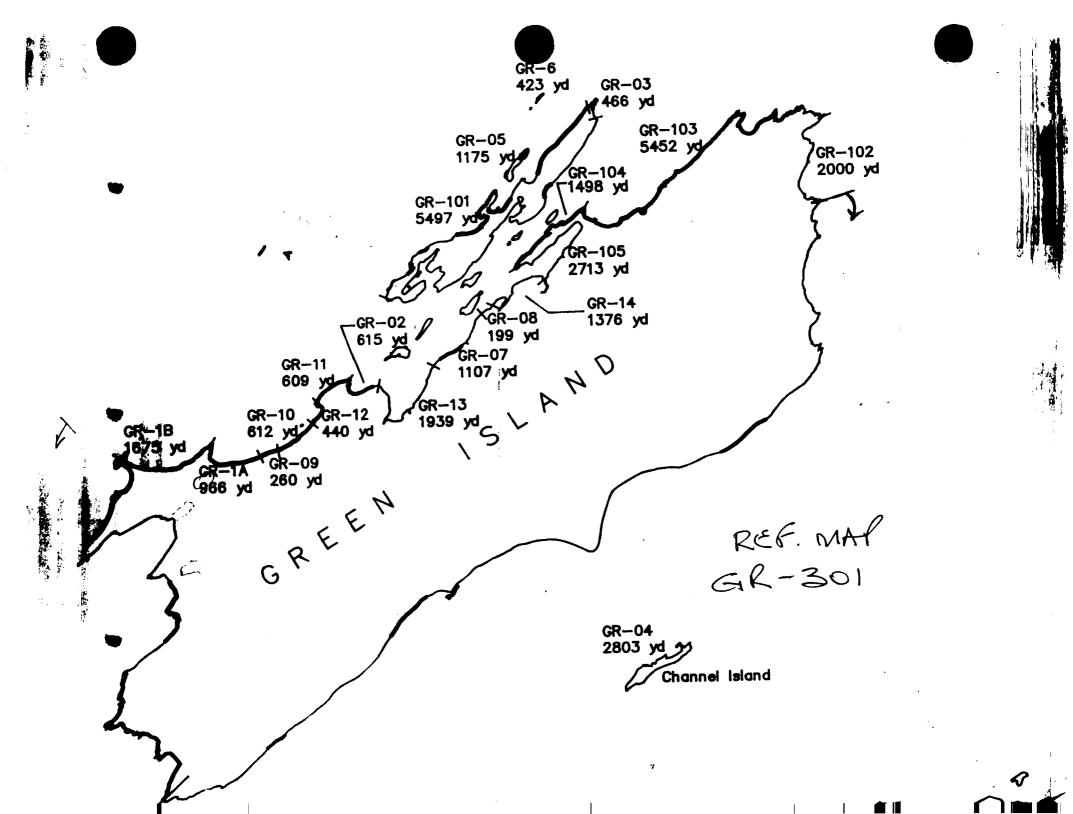
ECOLOGICAL EVALUATION

LOCATION: Trace William Sand SITE: 275.E. Green Island OBSERVER: 5. Dearn
LOCATION PREFIX: SEG. NO.: GR-301 LENGTH: 14, 200 (M)
DATE: 08 / 12 / 89 TIME (HHMM): 0700 - 1030 TIDE HT.: 4.0 - 7.5 ft.
DATE: 08 / 12 / 89 TIME (HHMM): 0700 - 1030 TIDE HT.: 4.0 - 7.5 ft. (2) > 5.0 ft tide worked as per Andy Teal's regrest to 15/11/59
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy Y N Contin. Y N Dense Y N Sparse Y N None Y/N
Dense continuous bands of Fucus on flat rock benches + on several boulder areas is pocket beaut
Mytilus (Mussels): Patchy YN Contin. Y/N Dense YN Sparse YN None Y/N
Small clusters of mussels present on vertical sides of boulders + rock outeroppings. Also located in amongravel / coloble mixture on some beaches.
Balanus (Barnacles): 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 Continuous Balanus band on some igner boulders + rocks. Patchy clusters present on some coobles + smaller boulders
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Trinarily found beneath fucus blades + under cobbles.
Limpets: Patchy (Y)N Contin. Y/N Dense Y/N Sparse (Y)N None Y/N
Under coloides + Freus blades. No small individuals (< 1 cm) observed
OTHER OBSERVATIONS: Bull kelp beds affehore, dense surfgrass beda nearshore, I active eagle nest, many salmon jumping nearshore, many small rafts of others, many species of intertidal ala
nest, many salmon Jumping near shore, many small rafts of others, Many species of intertidal alla
theny species of terestrial floats near storm bern.
CLEANUP PRECAUTIONS: Access to the areas in this segment is very limited + oil is present in very small access. Cleanup activities would create trampling + thermal disturbances +
in very small and so. Cleaning activities would create transfling + thereat disturbances +
MAMMALS: Otters 20+ Harbor Seals _ Sea Lions 4 washer Whales 30 Occas*
Other Stra-blackfailed dear -13 individuals (badults 7 juveniles) * 3 pools of Orca's observed (4/pod = 15, 8, 7) one group was observed only 300 ft from store. A. ?
BIRDS: 2 Arctic terms numerous Kithinaker of Jancons winged gulls 6.8 whimbrels ~ 35 juvenile figure of processing
GENERAL OBSERVATIONS: This segment supports a rich healthy fauna + flora in both to
(interplat + subindat). The marie - terrespiral environments)

CULTURAL RESOURCE EVALUATION

Date 8-12-89 Location GREEN 15. site_
Location Profix GR Segment # GR-301 Length 14,200 m
Survey Method:
Air(A - indicate on map) Boat (A - indicate on map
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data NoT Available Data Source
Oil conditions/beach visibility hight to none
Width of beach zone surveyed 10 m Tree fringe surveyed 5-10m
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code) home
General observations justifying survey method and segment's site probability
shore Profile on angle wave est platforms to mod. L p. c. b. beach.
Fresh Water Sources streams
Sea Exposure SE high energy
Access/Safety mostly good acress, fair to good safety
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes/10
Photos: Color Roll # Frames
B/W Roll # Frames
Observer(s) Phigpen
Time survey ended 0630 Time survey ended 1030
Cultural reserves considerations/restraints:





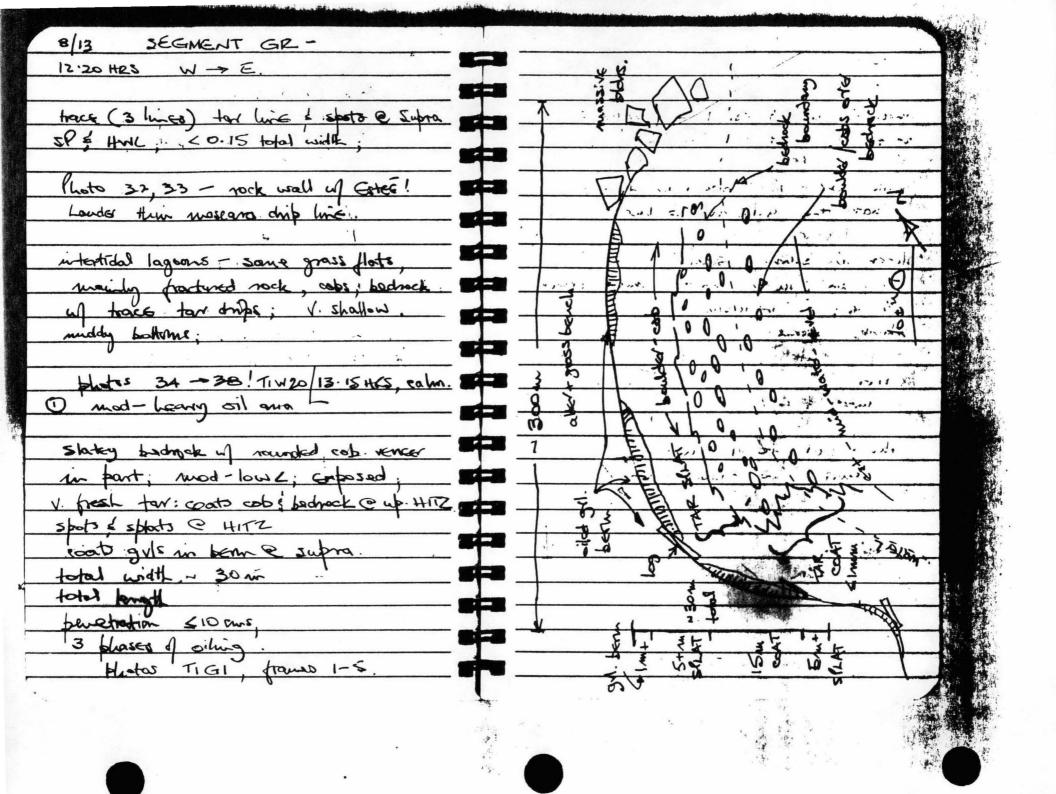
SHORELINE CLEANUP PROGRAM

DATE_	8/16/8	19		SHORELIN	E SEGMENT_	GR-302	
LOCAT	'ION: (s	ee enc	losed map)_	GREEN ISLAND-	ISLAND OF	F OF	
NORT	HERN CO	DAST OF	GREEN ISLAN	ID (GREEN ISI	AND BLOCK	0	
ADEC	мо		SHORELINE A	SSESSMENT DAT	E:GF	R-302	
1) bipress and 2 for r	ioremed ure/war (prec emainde	iation m to he eding her if the	ot water was pioremediati	nded for locations in the constant of the cons	mended fo leanup is	r location 1 recommended	
Prior 3B	ities (onsider:	rations:				
If cl reduc traff	eanup : e damaq ic near	is done ge to mi the is	, work only d/lower intal sland to red	ite survey): at tides grea ertidal commun uce disturbance SEMBLED CALLY	nities. M ce to bird	finimize boat	7.23.4
If h durin take Shore	eretofo g clear action line Cl	ore und nup, con ns pres leanup d	discovered of the state of the	m site survey cultural mate s Archeologic the Operati 9 as amended.	erials ar al Field ional Gui	Director and delines for	.
REQUI	RTON	OF A	DOZINERU ONE HT T	- ACTIVITIES. THE - ITALP OF SEGME TME OF SCAT SU	LEATIMENT SILENT WHERE WE (8/13/1) Date:	OIL WAS PRES	D M ENT 8/U DOT P. Zi
State	Histor	ic Pre	ervation Of	ficer *			
ISCC:	ma	neg-	males		Date:	8/24/89	
EXXON	: <u>//</u>	ul	2 1/4	 	Date:	8-23-89	
Fosc:	7	<u>د. C</u>	eterry -	-	Date:	8.23-89	

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

SHORELINE OIL EVALUATION

	Date: 8/13/89 Time: 12.20 Observer: G. MARDONALD.
	Surveyed From Foot Boat Helio/Plane Weather: Sun/Cloud/Rain/Snow/Foot
	LOCATION
	LOCATION _ ISIS, At A. GREEN & SEGMENT NUMBER _ GR - 302
	LENGTH OF SHORELINE SEGMENT: 11,350 m
	ACCESS: Foot/Vehicle Boat Barge/Helio/Float Plane
	BHORELINE: V. Shallow draft only - rocky & Shallow.
	Shoreline Type:SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER
	Wave Exposure: High Med Low)
	Sediment: B301 / C151 / P201 / G51 / SAP / NAP /R301
	Drift Debris on Beach: Yes No Supra/Upper/Mid/Lower Type
	OIL
	Degree of Oiling: Heavy Moderate Light No Oil Unobserved
	Area of Beach Impact: SU/SP/H/M/L
A.	Continuous: YN & of Segment < 10 / Width of Band: < 30 m
	Sporadic: (V) & of Segment 504 - trace and some light oil.
	Est. Oil Thickness where > 1cm:cm Est. Oil Penetration:cm
	Pooled Oil: * "Free" Oil: Teke * Coated: H_ * /M_ * /L 100 *
	Fresh * Mousse TRACE * Tar Formation: 100 *
	Drift Debris Oiled ? Yes No Supra Upper Mid/Lower Amount: H/M/L)
	Comments:
c.	1) N 30 m with x 300 m heavily oiled to bedrick (< 15 ms);
	location (2) has about 300 m x 5m wide moderately
	siled blobs & bedrick; - as tresh tor.
	Remainder of segment has besistent trace for spots, dribe;
	splots go vithin lives bands; william & some of this
	heavy - mad. oiling over can be hit by high energy
	works NE & SW Jetches.
	La Jan



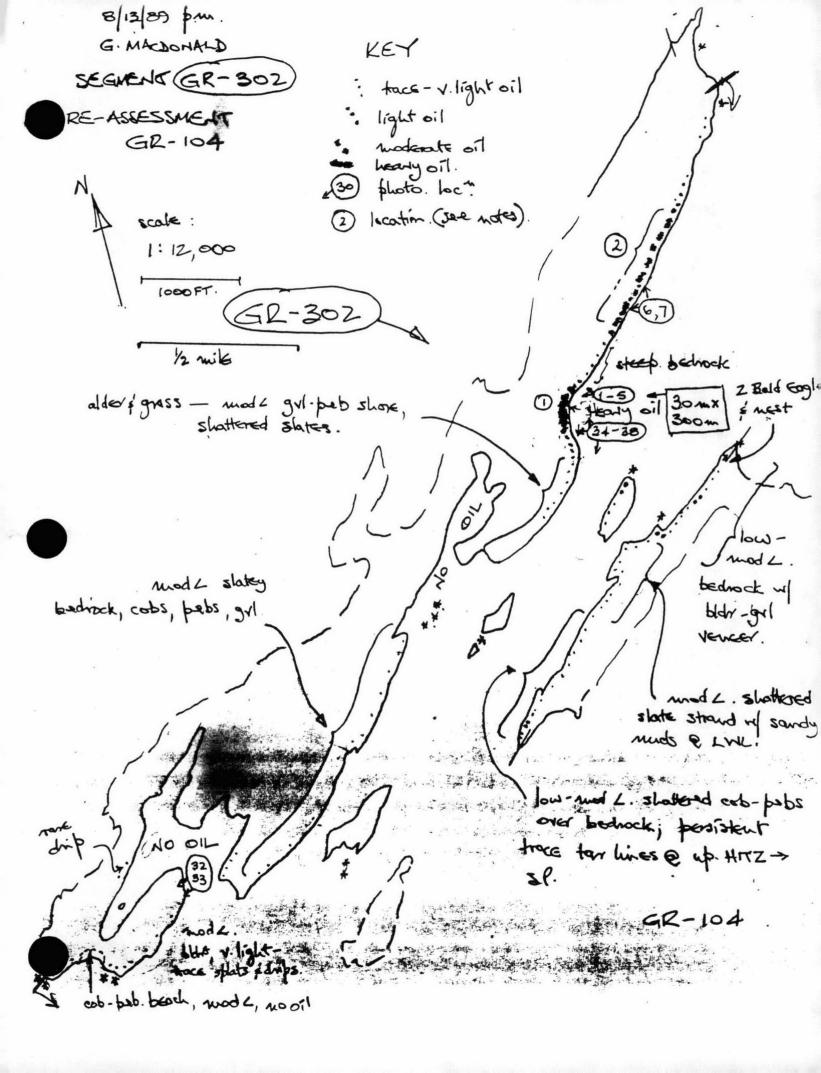
blocky sifty sandst w frames # 6,7 thing our toward and 14.25 HRS **GN3** SEGMENT

ECOLOGICAL EVALUATION

LOCATION: Principlian Sound SITE: N. Green Island OBSERVER: 5. Dearn
LOCATION PREFIX: SEG. NO.: GR-302 LENGTH: 11,350 (M)
DATE: / TIME (HHMM): 12:20 - 14:30 TIDE HT.: 9.0 - 7.5 ft (MA)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy Y N Contin. Y N Dense Y N Sparse Y N None Y/N
Dense continuous band present in Most areas, Same boulder/cobbic beaches have sculled clumps. Some Finess having oiled in sphatford areas. In Moderaty oiled areas—some dead plants present. Nytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Chusters of mussels on boulders + interspersed between large coldoles/builders. 1
Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N Plesent on Cobbles + borlders. Some in higher intotidal in oiled areas are moderate oiled, + some appear plad. Littorina Patchy (Y)N Contin. Y/N Dense Y/N Sparse (Y/N None Y/N
Littories Scattered throughout Fricus zone. In oiled areas - many dead individuals fresent
Limpets: Patchy Y N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Some lingets present- scallered across segment, under Freus blades.
OTHER OBSERVATIONS: Seagness beds present in some shallow subtidelarees. In calm back bay - soft sediments on berthos, Scarlered w/ clan shell debons. Clanshell debons the forest in many intertidal area (Clanshells often have holes in their possibly "victions" (!) of sea ofter foregoing (?). Oyster catchers may account for the high amount of dead mussels). CLEANUP PRECAUTIONS: Clean up activities Should occur at tides higher than + 6.0ft to avoid / minimize disturbances to the mid-low intertidal. Minimize boost traffic near
Island in segme section - to reduce distribution to oysto catchers.
MAMMALS: Otters Harbor Seals Sea Lions Whales Other
BIRDS: Oyster Catchers - 20 (gathered an island in segment SEEMEP). Belted linghisher - 1 (in back to lead observed, at least one other eagle heard in woods. Architeras (segment) GENERAL OBSERVATIONS: Species diversity in this segment is relatively low. Some areas
are relatively devoid of macroalgue + invertebrates Organisms below ated areas appear
are relatively devoid of macroalgue + invertebrates. Organisms below oited areas appear healthy, however organisms within oited areas show signs of stess + trauma (many are in fact dead)

CULTURAL	RESOURCE	EVALUATION
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Date 8-13-87 Location Green Is. site
Location Prefix GR Segment # 6R-302 Length 11,340
Survey Method:
Air(A - indicate on map) Boat (A - indicate on ma
Ground (G - indicate on map)
Known cultural resources (AHRS #) Pata not available Data Source
Oil conditions/beach visibility /1924 to heavy, good visibility
Width of beach zone surveyed 10 m Tree fringe surveyed 0m
Cultural resources observed in beach zone (AHRS code) 1000
Cultural resources observed in tree fringe (AHRS code)
General observations justifying survey method and segment's site probabilit
shore Profile low angle, colibbe peblike to blocky bo Aler /el
Fresh Water Sources home observed
sea Exposure protested, in between two islands, shallows.
Access/Safety good, safe,
Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5
Monitoring during cleanup needed yes no Collection yes no
Photos: Color Roll # Frames Frames
B/W Roll # Frames
Observer(s) 6. Physica
Time survey anded 1480
Cultural resource considerations/restraints:
Standard
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MANUAL PROPERTY MANUAL AND DESCRIPTION OF THE PARTY OF TH



GR 302

MUSPECHON RECORD

	and A. A. A. A. A. A. Cammanh
Shoreline Treatment Process(es) Cor	
Hot water wash	Mechanical
Warm water wash	Non-mechanical
Water deluge	Other North
Exxon	
Treatment as indicated above has been co	mpleted. Hequest demodifization
from this segment.	
	Ment GRJOD IS COMPLETE
Ready for demobilization	The state of the s
Signature Sommy La	Date: 9/7/Time:
Printed Name Tommy Dulia	The state of the s
Existing Shoreline Condition As Visually Determined by USCG Surface Oil	Existing Shoreline Condition As Visually Determined by ADEC Surface Oil
Percent Degree of Olling	Percent Degree of Olling
— Heavy	Heavy
Medium Light	
Very Light	Very Light
75 None	100 % None
Subsurface OII No	Subsurface OII Yes No
COMMENT BELOW	COMMENT BELOW
COMMENT DIAGON	COMMANDELOW
Reassessment	Reassessment
Yes - necessary	Yes - necessary
No - not necessary unless re-oiled	No - not necessary unless re-oiled
ADEC rep	
Commons Most of the segment unailed. On	NE cobble/boller shore is a 300 yd ba
of thick median oiling. Though the oil low not	appear mobile, it would respond well to to
Signature Wale W. Dardner	Date: 9/7/67Time: 13:35
Printed Name ALE GARDUER	EC INSPECTOR
FOSC rep	n approved/disapproved & Kog Lecourand Bio Rogredia AND ONLY
, , ,	Date: 9/1 /87Time: 1325
Printed Name Au Turkey Conor	
	in a session -
SIMPLE EXXON ADEC FOSC ISCO	the majore