



ALASKA INLAND AREA COMMITTEE

September 21, 2021

WELCOME & INTRODUCTIONS

OSCs & Planners

FOSC, EPA: Ms. Torri Huelskoetter

FOSC, EPA: Mr. Bob Whittier

SOSC, ADEC Central Region: Ms. Anna Carey

SOSC, ADEC Southeast Region: Mr. Curtis Keisel

SOSC, ADEC Northern Region: Dr. Kimberly Maher

Planner (Acting), ADEC: Ms. Allison Natcher

Planner, EPA: Ms. Mary Goolie

AGENDA

- In situ Burning Checklist Work Group
- Geographic Response Strategies presentation from Cook Inlet Regional Citizens' Advisory Committee
- Discussion on Next Meeting of the Logistics Working Group

IN SITU BURNING CHECKLIST WORK GROUP

- Work initiated by EPA in 2020
- Initial work group meeting, July 7, 2021
- Comments received on early concept draft, August 2021
- EPA & Contractor working to revise checklist

IN SITU BURNING CHECKLIST Concept & Structure

INLAND-FOCUSED

- ISB Dealbreaker Checklist
- ISB Plan Review Checklist
- ISB References (especially Inland-specific references)

GEOGRAPHIC RESPONSE STRATEGIES

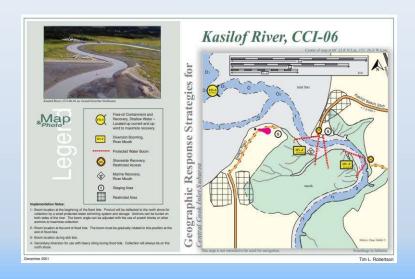
PRESENTATION FROM COOK INLET REGIONAL CITIZENS' ADVISORY COMMITTEE

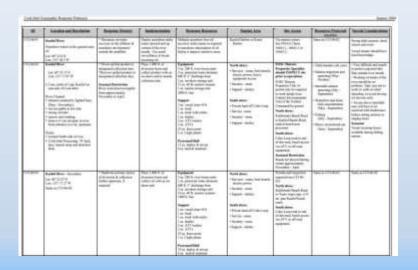
Inland Geographic Response Strategies



Geographic Response Strategies:

 Geographic Response Strategies (GRS) are site specific response plans tailored to protect sensitive areas threatened by an oil spill. GRS are map-based strategies that can save time during the critical first few hours of an oil spill response. They show responders where sensitive areas are located and where to place oil spill protection resources.











Project Objectives and Goals

- Identify anadromous stream crossings along primary and secondary crude oil transfer routes.
- Develop basic site information.
- Identify potential response tactics.
- Identify potential staging areas.
- Identify potential landowners/stakeholders in areas of concern.
- Develop recommendations for small and large response trailer inventory.
- Create "E" friendly format for information storage, transfer and use.
- Clearly establish a definition of Sensitive Area and Areas of Concern.
- Identify areas of concern with current GRS development and management.
- Develop a process for updating site information.
- Develop items of discussion for potential future direction of the statewide GRS program.





Strict Liability

• AS 46.03.822

(a)(1) The owner of, and the person having control over, the hazardous substance at the time of release or threatened release; this paragraph does not apply to a consumer product in consumer use;

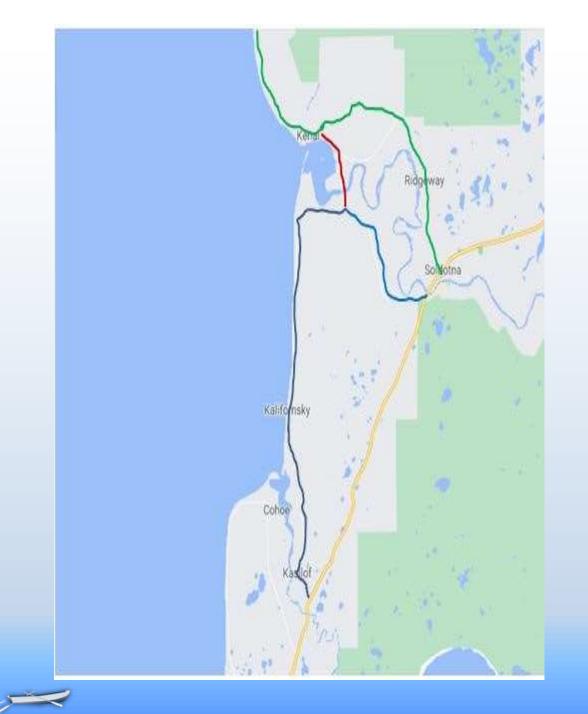
(a)(5) Any person who accepts or accepted any hazardous substance, other than refined oil for transport to disposal or treatment facilities, vessels or sites selected by the person, from which there is a release, or a threatened release that causes the incurrence of response costs of a hazardous substance.



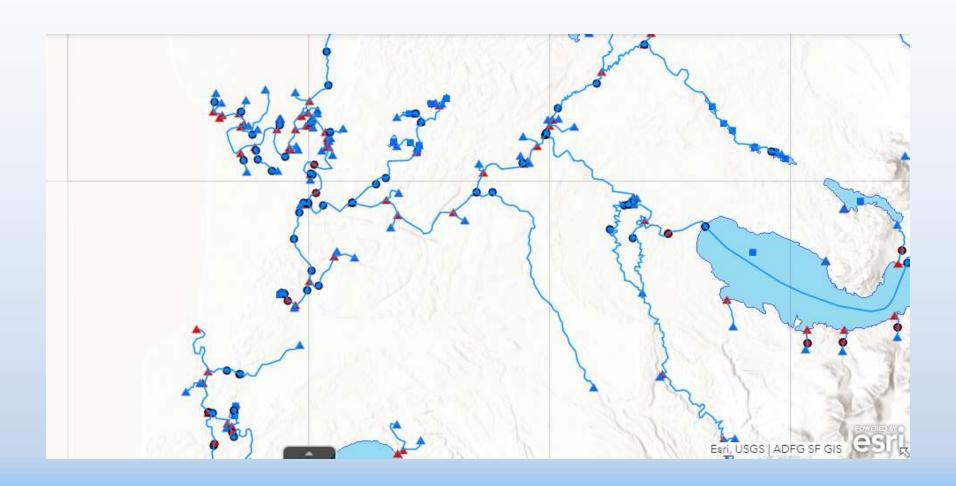
Accidents Happen

Mechanical Failure
Wandering Winnebago's
Moose
Weather
Human Factors



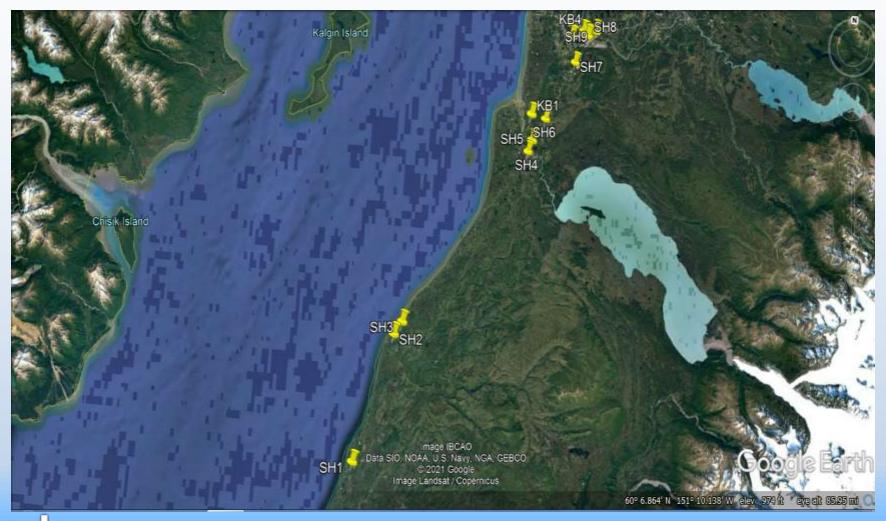


The Catalog of Waters Important for the Spawning, Rearing or Migration of Anadromous Fishes AK-DF&G Sport Fish





Site Locations Lower Peninsula

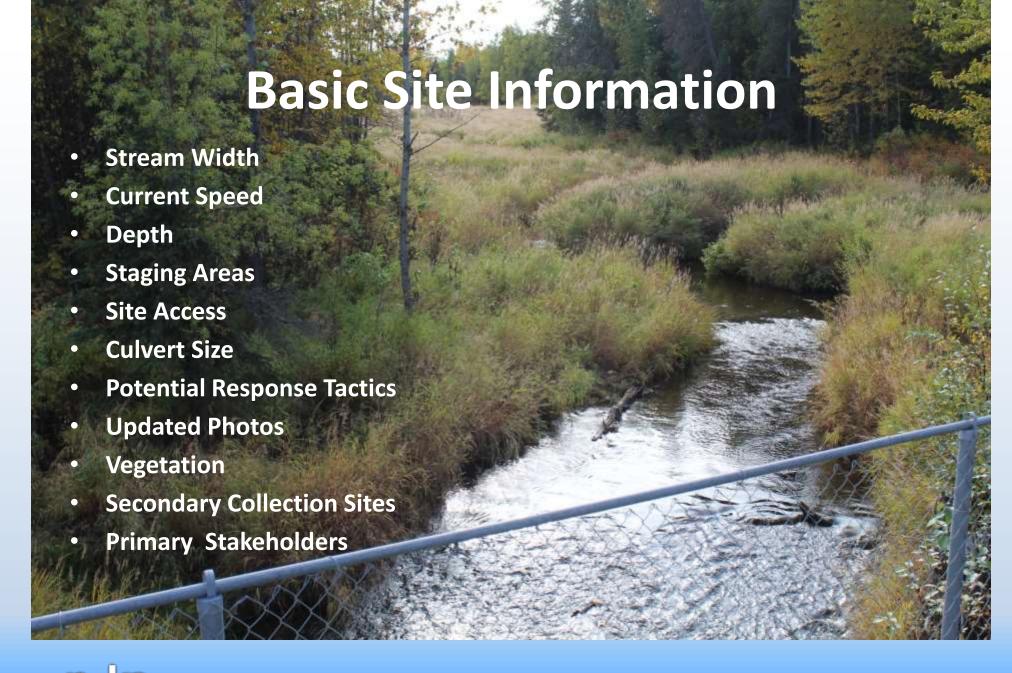




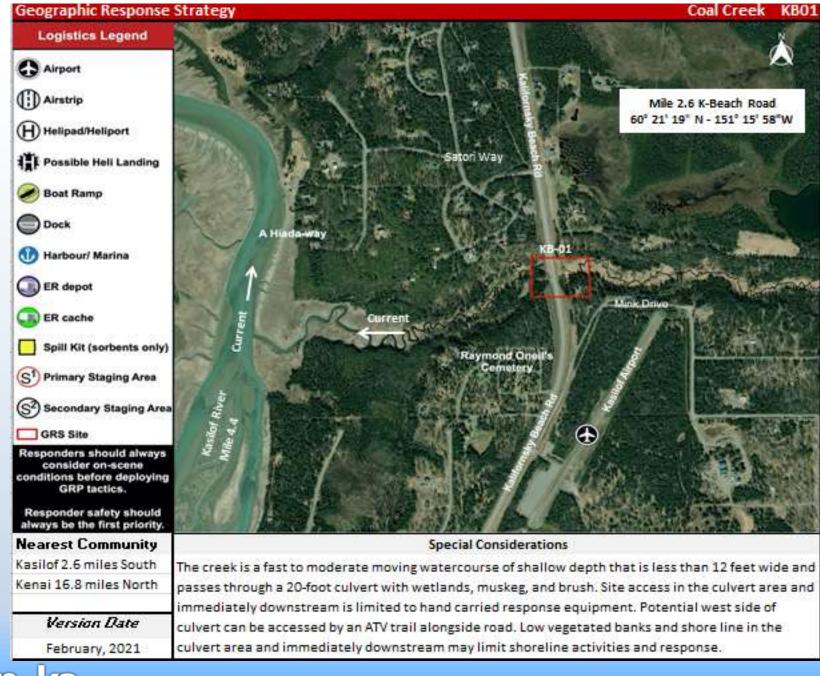
Site Locations Central Peninsula

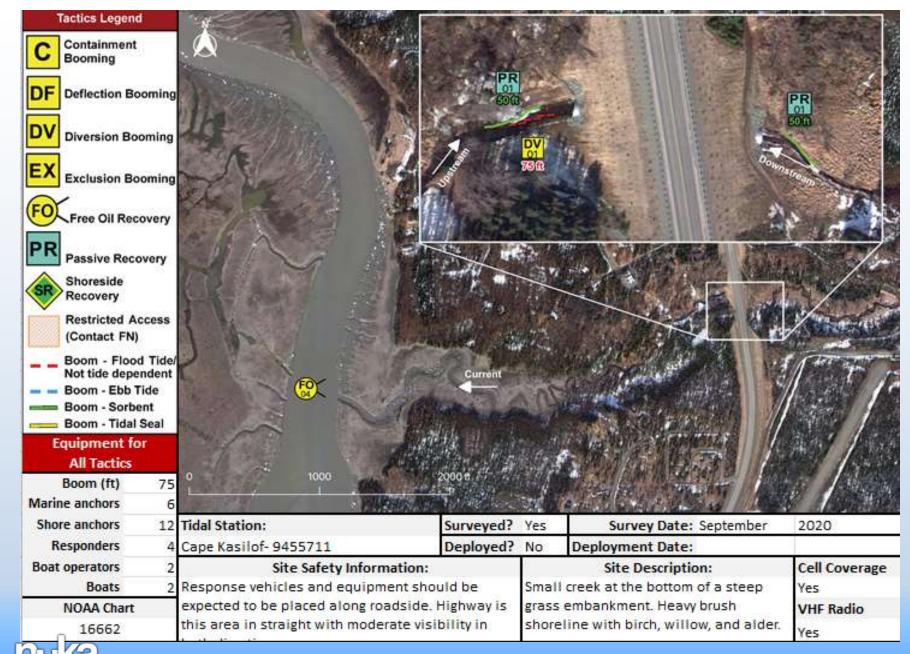














Geographic Response Strategy Coal Creek KBO							
Tactic#	Purpose	Response Equipment	Deployment Resources	Deployment Notes		Other Notes	
DV-01	Redirect spilled oil from	3 25-foot sections	2 shore-based responders	Due to the large diameter of this culvert and water flow		Culvert size is 20 ft	
	one location or direction	1 collection system		volume, culvert blocking will be impractable. Div	• '	Max Water Depth (ft): < 3	
DV	of travel to a specific site	6 marine anchor system		collection is suggested.			
Т	for recovery.	12 shoreline anchor system					
PR	To remove spilled	100 ft sorbent boom	2 shore-based responders				
PR	pollutant by collecting it	100 ft sorbent pom-poms	ATVs				
ΓK	in a sorbent material.	10 anchor stakes	truck or vehicle				
		waste storage bags					
FO-04	FO-04 To conduct on-water On-water recovery task force consisting free oil recovery. Configuration,		ing of Class 4, 5, or 6 vessels Must be deployed by skilled responders trained in the use of on-water skimming system				
			, with skimming system and	Location depicted on map is not fixed; Kasilof River is tidally influenced in this area. Potential			
FO		temporary storage for recovered oi	l and water.	boat luanch at mouth of Kasilof downstream (60° 23.194'N - 151° 17.869'W) Potential boat launch on Kasilof upstream (60° 19.011'N - 151° 15.484'W) (class 6 only)			
			Deployment Consi	iderations			
Max curr	ent velocity:	Stream Width	River Miles to Outlet	Tidally Influenced?	Secondary Collection Site		
2-3 FPS 10 ft		1 to Kasilof River at RM 4.4	Yes, at the mouth	Kasilof River RM 4.40			
Max water volume flow estimate during site visit:					Possibly on private property PARCEL ID	13329019. Located via	
500 gallons per second					driveway 300 ft south of creek (@ 60° 2	21.290'N - 151° 16.037'W)	
Navigational & Safety Hazards: Access Restrictions:			Roadside staging should be expected at creek crossing, private driveway 300 ft. south of creek crossing may be possibly used				
		Private property	temporarily (60° 21.291'N - 151° 15.930'W)				





Geographic Res	sponse Strategy			Coal Creek KE
Alaska Dept. of Transportation Kenai Peninsula B PARCEL ID PARCEL ID PARCEI ID	Local co orough Private Proj 13329019 13329014 13308147		View of Culvert	
	Resources F	Protected	Upstream	* * * * * * * * * * * * * * * * * * *
Marine Mammals	s at creek mouth	Limites human use		H Fast
Anadromous stre	am	Commerical fishing]	TRO W
Naterfowl in mo	uth area	State and private land		The state of the s
otenial Bald Eag	le nesting in area	Significant watercourse		
Cultural site		vegetation, tidally influenced	1	
Limited subsister	nce	muskeg in mouth area		
			East View Downstream	
· ·	liew of the embankn	nent looking south		



Possible Winter Information





Response Tactics



http://dec.alaska.gov/spar/PPR/star/docs.htm.

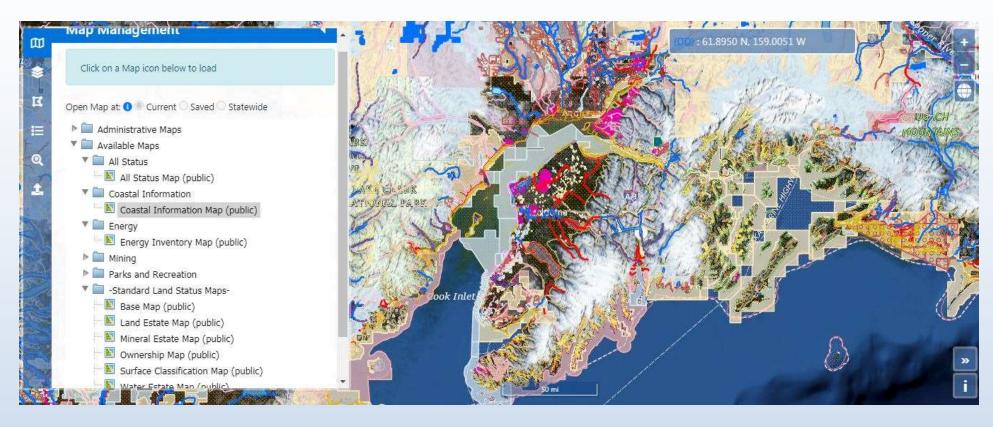
Update Response Trailer Inventories







Format Goals



Convert to E- Format

Smooth transition to GIS

Standardized Format and Content

Response Based

Planning Based





https://statewide-geoportal-1-soa-dnr.hub.arcgis.com/

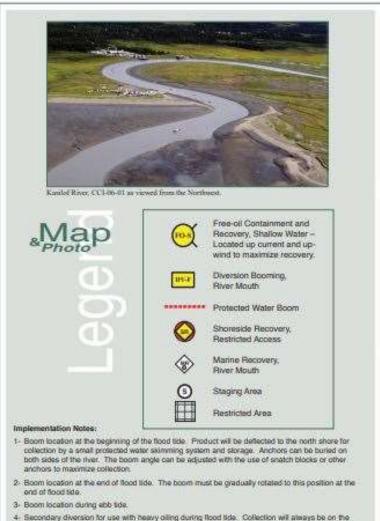
Current CI GRS Sites



https://dec.alaska.gov/spar/ppr/response-resources/grs/







Kasilof River, CCI-06 trategies tidal flors esponse Seographic entral Cook Inlet NOAA Chur 16662-3 This map is not intended to be used for pavigation Soundings in fathorns

Tim L. Robertson



Cook Inlet Geographic Response Strategies

110	Location and Description	Response Strategy	Implementation	Response Resources	Stavino Area	Site Access	Resources Protected (months)	Special Considerations
CCI-06-01	Kastlof River Nearshore waters in the general area of: Lat. 60° 23.8 N Lon. 151° 20.3 W	* Maximize on-water recovery in the offshore & near shore environment / outside the mudflats.	Deploy nearshore strike teams upwind and up current of the river mouth. Use aerial surveillance to locate incoming oil.	Multiple nearshore free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Kasalof Harbor or Kenas Harbor	Via marine waters. See NOAA Charts 16661-1, 16662-1 or 16662-2.	Same as CC1-06-02.	Strong tidal currents, shoal waters and rocks. Vessel master should have local knowledge.
CCI-06-02	Kastlef River Lat. 60° 23.13 N Lon. 151° 17.87 W 2.5 nm. north of Cape Kasilof on cast side of Cook Inlet River Channel • entrance marked by lighted buoy (May - November). not navigable at low tide. • strong currents. • narrow and winding. • boats = 6° can navigate in river from entrance to 6 mi. upstream. Docks • located North side of river. • Cook Inlet Processing, 78° dock face, launch ramp and detached float.	* Divert spilled product to designated collection sites *Recover spilled product at designated collection sites. Seasonal Restriction River iced-in/not navigable from approximately November to April.	Place 1,000 ft. of diversion boom and collect product with an on-abore and/or marine collection unit.	Equipment 5 ea. 200 ff. river boom units 2 ea. protected water skimmer 600 ff. 2" discharge hose 2 ea. on-shore storage unit 12 ea. 40 fb. anchor systems 1 ea. marine storage unit 2000 ff. line Support 3 ea. vessel class #5/6 1 ea. truck 1 ea. truck 1 ea. truck 2 ea. ATV trailers 2 ea. ATVs 25 ea. fence posts 1 or 2 light plants Persoanet/Shift 12 ea. deploy & set-up. 8 ea. tend & maintain	North shore: Services - crane, boat launch, electric power, heavy equipment access Security - none. Support - shelter. South shore: Private land off Coho Loop Service - none. Security - none. Support - shelter	FOSC Historie Properties Specialist should INSPECT site prior to operations. FOSC Historic Properties Title 16 permit may be required to work inside river. Contact Environmental Unit of the Unified Command for pennit. North shore: Kalifornski Beach Road to Kanisof Beach Road, ends at beach near processor. South shore: Cobo Loop road to end of dirt road, beach access via ATV or off road equipment. Seasonal Restriction Roads not plowed during winter approximately November - April.	Tidal marshes (all year) Salmon migration and spawning (May - October) Intertidal salmon spawning (July - September) Waterfowl and shore bird concentrations (May - September) Fishing (July - September) Heavy recreational use (June - September)	Very difficult and ursafe to protect exposed tidal flats outside river mouth. Working on banks of the river should be no problem. Take care not to work or walk on oiled storeline, to avoid driving oil into the soils. Access above intertidal area will have to be resolved with landowners before setting anchors or staging areas. Seasonal Vessel mooring buoys available during fishing season.
CCI-06-05	KasBof River - Secondary Lat, 60° 22.97 N Lon. 151° 17.27 W Same as CCI-96-92.	* Duplicate primary tactics of diversion & collection further upstream, if required.	Place 1,000 ft. of diversion boom and collect oil with an on- shore unit.	Equipment 5 ea. 2000 ft. niver boom units 1 ea. protected water skimmer 600 ft. 2" discharge bose 2 ea. on-shore storage unit 10 ea. 40 fb. anchor systems 1000 ft. line Support 1 ea. vessel class #5/6 1 ea. truck 1 ea. truck 1 ea. truck 2 ea. ATV trailer 2 ea. ATV trailer 2 ea. ATV s 25 ea. fence posts 1 or 2 light plants Personnel/Shift 10 ea. deploy & set-up 6 ea. tend & maintain	North shore: Services - crane, boat hunch, electric power Security - none. Support - shelter. South shore: Private land off Cobe Loop Service - none. Security - none. Security - none.	Permits and inspection required (see CCI 06-02). North shore: Kahifornski Hench Road to Trans-Aqua sign, (1/4 mi. past Kasilof beach road). South shore: Coho Loop road to end of dirt road, beach access via ATV or off road equipment.	Same as CCI-06-02	Same as CCI-06-02



Kodiak GRS K-7





Current, Tatlet & Whate: Winds wrisite with northwest wints preveiling.

By share wind specialized ion at time of response. Average Stationings is 124.

Caracti local charts for tide.

Wildlife Considerable at: This may supports excited and dust concentrations. Self-in and king either, other was duct, the peror games, and baid engine. Low-decading of any others.

Rink Factors: Splittels include week! Tell citiesoft Gulf of Alaska.

Homes like: Subsidence salmon fating, dans harvesting and crafting.

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EQUIPME	ONT RECOMMENDED	NEAREST EQUIPMENT (AMHok)			
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CHANTITY	DESCRIPTION .	QUANTITY	IL SCRPTION .		
400	8" x 10" Boots	2000	If x 10' Contributed thoru		
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1200 Maria			- Your britishs		
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tracits.	onal regional equipment faire.	3.5	K.		

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Lefts ded.org/tude: N 50" 58 20" / W 154" 10" 44"

Exception: Athlob, Rodale letend NIOAA Chart Rt. 18591, LEGS:Trinity letend D-1 Quard.

Response Dájective To cortain a wost over discharge in Althols

Shore/he Characteristics: Similand rocky stores, scape.

We Access: Altrick is accessible by floot place. Need sing strong wasel and helicopies. The split location is accessible from Altrick road system.

Staging Area: Acticle

AS THE CIRCUMSTANCES OF THE EMPROPHICY ALLOW

A Response Strategy:

- Made tips on-water recovery in the of shore-near shore environment.
- 2.Utilize represent vehicles to transport sections of boom, softent parts, softent average and heavy duty bags from the cornex box to the spill location.
- Regiming at the high tide line on the share ancitor such end of the boom, so shown than use sessel of opportunity to be out the mid-point of the boom to born hattnoon. Anchor midpoint and repeat process to form secondary containment.
- 4. L'étite available manponent la begin recovery. Use sorbert pada and sorbert eveny to excess productes it comes to shore. Seet boots to shore using sorberts. Ensure appropriate personnel protective equipment is used (inter to also safety plant).
- 5. Pumps and hoses can be used to low pressure flush standed participation where and to discribe perduct in the veneric a recovery location.
- 6. If three allows, construct an interception trench between the source and the above to collect product.

B Response Considerations:

Option familiarum is a combination origination, desait and healthy test and therefore very flammable. Similate all light for sources into amoling, flams, aparies or fames in immediate areas). Curing response, do not buch or self-through spilled material. We can may collect in lose tying sease creating sepon explosion hereafts. Hereafted is, use dies mon-sparting tode to collect accessed materials.

Microric Properties Considerations:
PEPCRT any guitant encurose found during operators to the POSC Historic Properties Specialist.

Kodiok GR5 K-7

Ottober 2001



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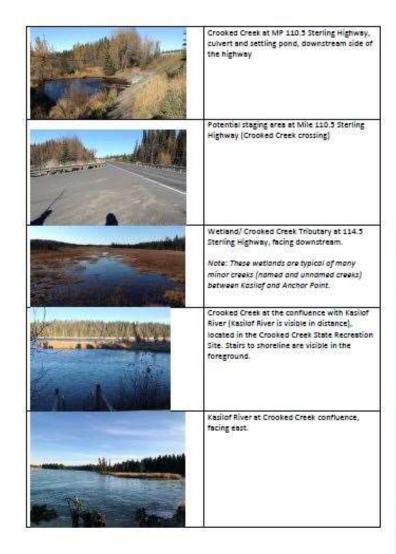


Crooked Creek (Kasilof, AK)

Location	Mile 110.5 Sterling Highway 60.263 North, 151.332 West
Vuinerability Assessment Atlas Page	5
Waterehed Description	Crooked Creek is a tributary of the Kasilof River. Tidal mudflats extend to approximately Mile 3 of the Kasilof River, two miles downstream of the Crooked Creek confluence.
Velocity	2.5 fps; 1.6 mph
Distance to Main River or Outlet	2.5 miles from the Sterling Highway to the Kasilof River 7 miles from the Kasilof River confluence to Cook Inlet
Time to Main River or Outlet	1.5 hours to the Kasilof River; additional 1 hour to Cook Inlet
Senative Areas	Anadromous Waters Catalog # 244-30-10050-2024, Anadromous Fish Species: coho salmon, Chinook salmon, pink salmon, sockeye salmon, Dolly Varden, Pacific lamprey, steelhead. (Kasilof River Anadromous Waters Catalog # 244-30-10050) *Note: A Title 16 ADFS.G permit is required for boom deployment in all anadromous streams and lakes. Saltwater mudflats, located at mouth of Kasilof River, are identified as Important Bird Areas and provide critical habitat for the Rock Sandpiper.
	Crooked Creek State Recreation Area, managed by Alaska State Parks is located near the Kasilof River confluence. The Clam Guich Critical Habitat Area extends south from Point Kasilof at the mouth of the Kasilof River to Happy Valley.
Description of Stream and Streambank	Meandering stream with grassy banks. Banks are shallow and slopes nearly vertical. Shoreline may be marshy in locations. Fast current in the Sterling Highway culvert has resulted in the formation of a natural settling pond downstream of the culvert. Compared to designed and constructed settling ponds, this pond does not appear to have shorelines hardened with rock or other material which may affect oil collection and recovery tactics as well as shoreline sensitivity.



Crooked Creek at MP 110.5 Sterling Highway, facing upstream.



Kensi Peninsula GRS 11 January 2018
Part 2: Map Atlas



Geographic Response Strategies - Crooked Creek

ID.	Location and Description	Response Strategy	Implementation	Staging Area and Site Access	Fleid Notes	Additional Considerations	Site Safety
GRS-CC1	Crooked Creek State Recreation Area; Confluence of Crooked Creek with Kasilof River	Diversion Boom: Collect and Recover Oil Staging Area Shoreline Access	Fast-water boom anchored shorefine- to-shorefine or deployed via Boom Vane " and anchored to shorefine with shoreside recovery	Staging area within parking and camping areas of State Recreation Site. Foot paths provide access to river.	Kasilof River current is very high (7-15 mph).	Managed by Alaska State Parks During peak salmon runs, high vesses traffic by sport fishermen fishers and guides.	Fast river current Debris floating downstream in river Sweepers or strainers in river course
GRS-CC2	Crooked Creek/Sterling Highway crossing, culvert and settling pond/ settling pond at Mile 110.3 Sterling Highway, 60.265 North, 151.332 West	Diversion Boom: Collect and Recover Oil Staging Area Shoreline Access	Fast-water boom anchored shoreline-to-shoreline with shoreside recovery Shoreseal boom on either side of settling pond outlet connected to/anchoring fast-water boom across outlet with shoreside recovery	Gravel ATV trail down to culvert and zettling pond.	Boom selection will be highly variable based on water conditions, and may include shoreses! boom or underflow dam.	3 7 8	Steep access to settling pond from Sterling Highway High volume and high speed traffic (30-60 mph) on Sterling Highway
GRS-CC3	114.5 Sterling Highway at crossing of tributary stream and wetlands 60.263 North, 151.333 West	Diversion Boom or Dam: Collect and Recover Oil	Fast-water boom anchored shoreline-to-shoreline; Underflow dam; or Pris, Trenches and Slots for containment Cold Water Deluge Passive Recovery and/or Shoreside Recovery	Access to and travel within marshy areas is expected to be difficult.	Boom selection will be highly variable based on water conditions, and may include shoreseal boom or underflow dam.	This strategy is applicable for similar wetlands located along the Sterling Highway.	High volume and high speed traffic (50-60 mph) on Sterling Highway
GRS-CC4	Kasilof River State Recreation Site; at Mile 109.5 Sterling Highway. 60.316 North, 131.230 West	Boat Launch Staging Area	-	Staging area in State Recreation Area parking lots. Boat launch is paved.	¥	Managed by Alaska State Parks	Fast river current Debris floating downstream in river Sweepers or strainers in river course
GRS-CC5	Mile 111 Sterling Highway at North Cohoe Loop Road	Staging Area	-2.	Large gravel pad located on southwest corner of intersection	¥4	Property ownership is undetermined	31. 44 7
Not specified	Coho Cove Campground (private)	Boat Launch			(2)	Commercial facility name may change with ownership changes; access may be limited during seasonal or business closures.	3
Not specified	Kasilof River Lodge and Cabins (private)	Boat Launch	2		. 22	Commercial facility name may change with ownership changes; access may be limited during seasonal or business closures.	S-24

Kensi Peninsula GRS 12 January 2018
Part 2: Map Atlas



- Lack of Funding.
- Lack of Dedicated Management.
- Low Priority of Approval Process of Pending Sites.
- Lack of Process and Procedures for Stakeholder Updates.
- Site or Tactic Confirmation left to OSRO's or PRAC's.
- Consistent and Familiar Tactic Use.
- Little Control over Development of New Sites (currently estimated to be >900 statewide)

Current Status of GRS Program Statewide





Comments/Discussion









LOGISTICS WORKING GROUP

NEXT STEPS





REVIEW OF PARKING LOT ITEMS

ALASKA INLAND AREA COMMITTEE CONTACTS:





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