

State of Alaska Department of Environmental Conservation Division of Spill Prevention and Response

## Trip Summary of 20 April 2017 Aerial Overflight of Hilcorp Natural Gas Leak, Cook Inlet

## In Attendance:

Josh Brekken (Habitat Biologist, ADF&G) Jacob Cunha (Habitat Biologist, ADF&G) Jody Barthlow (Spill Prevention and Response, ADEC) Katrina Chambon (Division of Water, ADEC) Craig Ziolkowski (Spill Prevention and Response, ADEC) Todd (Pilot, Ross Aviation) Brandon (Pilot, Ross Aviation)

**Weather Conditions:** During the survey period, 1:45 pm to 3:10 pm, surface air temperature at the Ted Stevens International Airport remained at 50 F. Visibility was 10 miles and winds were variable and ranged between 7 and 9 miles per hour throughout the survey period.

**Tide:** The tide was outgoing, with high tide occurring at 12:45 pm with a height of 15.17 feet for Nikiski, Alaska. Similarly, the high tide for East Foreland was predicted to occur at 12:24 pm at a height of 15.9 feet.

**Ice Concentrations:** Overall ice concentrations have reduced in Upper Cook Inlet. Ice remained stranded across the mudflats of Chickaloon Bay and residual shorefast ice was beached at or near the wrack line.

**Trip Summary:** Prior to the flight, in discussion with Ross Aviation pilots, Todd and Brandon, it was determined this survey would need to return at or near 3:00 pm, allowing for approximately 1.25 hours of survey effort. Due to the abbreviated flight time, the Kalgin Island portion of the survey was eliminated. Additionally, this survey would be conducted at an altitude of 1000 feet and airspeed of 130 knots. If objects of interest or aggregations of birds were observed: circling, reduction in speed, or decrease in altitude could be requested and implemented based on concurrence with pilots. Marine mammal sightings would require an altitude increase to 1500 feet prior to circling to avoid disturbance. Overall reduction in ice concentration was widespread. Several bird sightings occurred throughout the survey however none were located near the gas release area. Overall, bird abundance and distribution in Cook Inlet has continued to increase. In addition to several bird sightings, Beluga whales (approximately 6) were observed near the Beluga River. Figure 1 is a graphical depiction of the survey trackline and Figure 2 contains select photos.

**1:48 pm:** Departed Ross Aviation and transited toward Chickaloon Bay. From Chickaloon Bay the survey continued south following the eastern shoreline of Cook Inlet to Kenai. Shoreline survey was undertaken at a distance of approximately <sup>1</sup>/<sub>2</sub> mile from shore.

**1:52 to 2:00 pm**: Surveyed the Chickaloon Bay area at 1000 feet altitude and airspeed of 130 knots. Beach ice was concentrated throughout the mudflats with numerous open leads occurring in the channelized areas. Several gulls were observed flying in the greater Chickaloon Bay area.

**2:18 pm**: Continued past East Foreland area toward Kenai, frequent sightings of gulls flying and on water occurred in this area. The number of individuals in each sighting ranged from single birds to aggregations of approximately 75. From Kenai the aircraft transited to the west side of the inlet.

2:31 pm: Arrived at west side of Cook Inlet, north of Big River.

**2:33 pm**: Two swans were observed south of Kustatan River.

2:35 pm: Observed 1 duck (black and white) flying just over surface of water at West Foreland.

**2:37 pm:** Survey entered Trading Bay area.

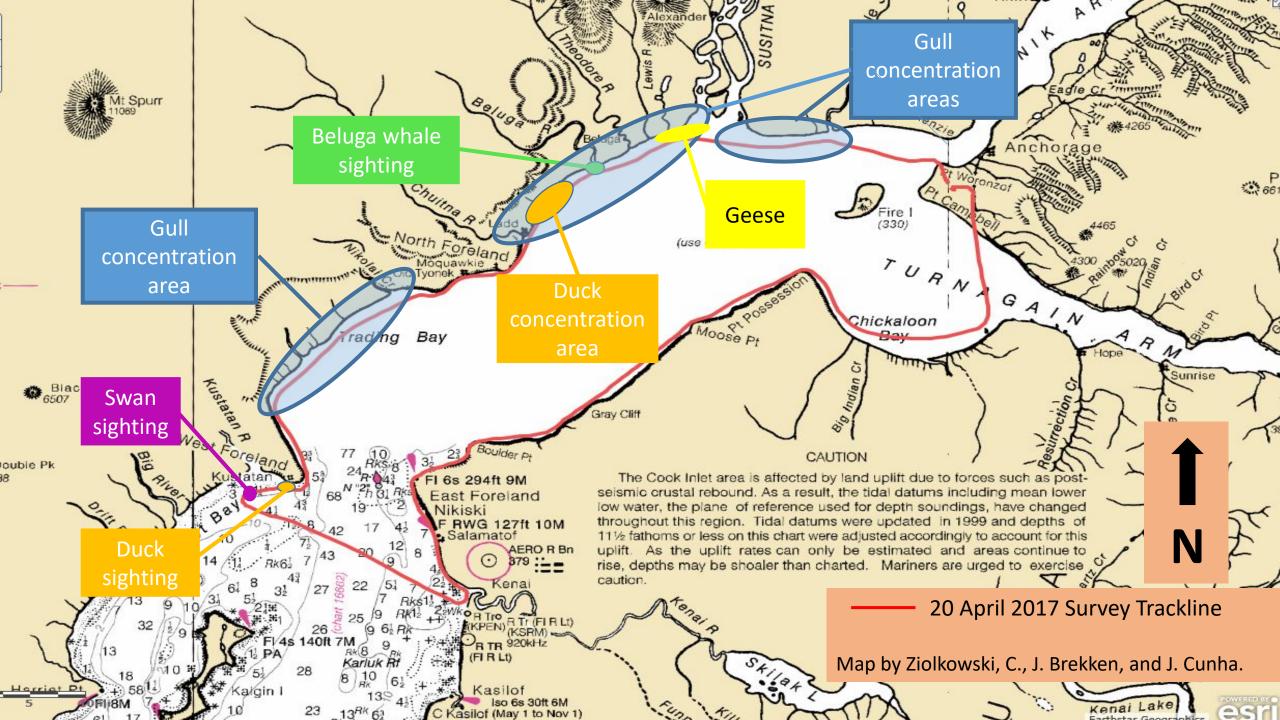
**2:39 to 2:57 pm**: Numerous gulls, individual and aggregations, flying along shore, resting on water or mudflats encountered. Total number of gulls observed ranges between 700-900 individuals. Additionally, approximately 200 brown to drab colored ducks were observed resting on mudflats aggregated in groups of 20 to 60 individuals.

**2:54 pm**: Observed 6 Beluga whales in mouth of Beluga River.

**2:58 pm:** Arrived at west side of the Susitna River, encountered approximately 20 geese flying low over water. Observations of gull aggregations continued between the Susitna and Little Susitna Rivers.

3:03 pm: Arrived at the Little Susitna River, conclude survey effort.

**3:07 pm:** Arrived at Ted Stevens International Airport, taxi to terminal.



## Figure 2, select photos from aerial overflight

Location: Upper Cook Inlet Date Photos Taken: 20 April 2017

## Photographers: Ziolkowski, C and J. Cunha

