

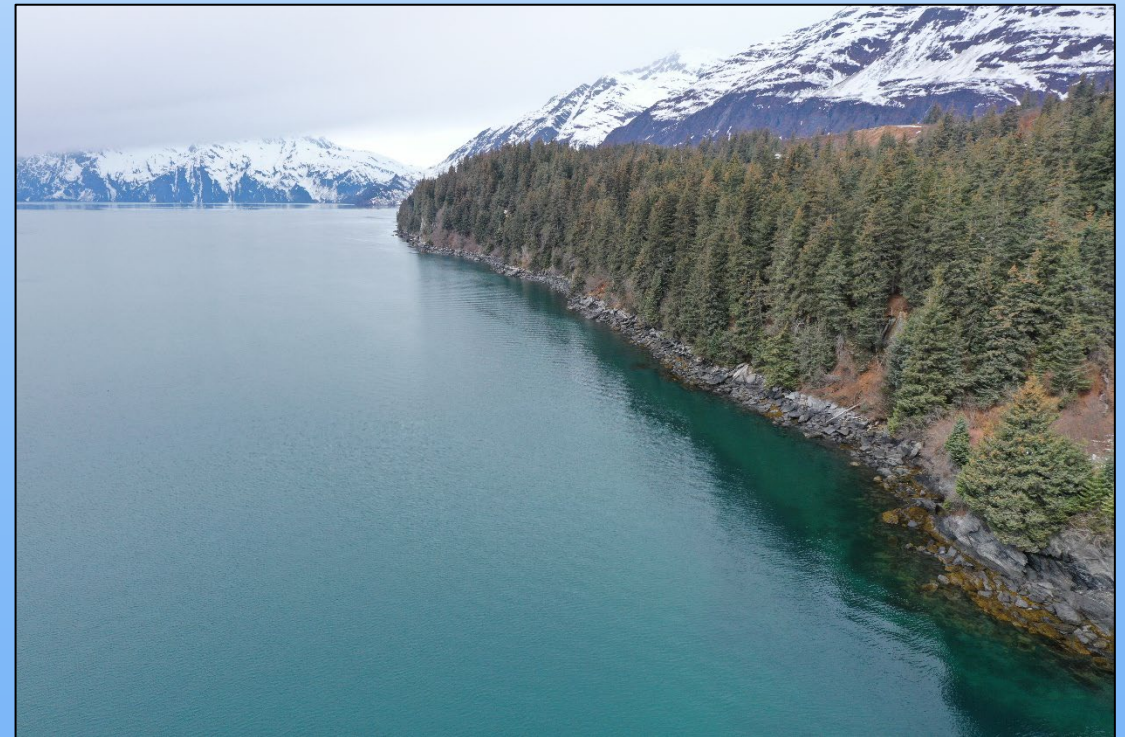
# Drone Use in Spill Response



Alaska Department of Environmental Conservation (ADEC)  
Division of Spill Prevention and Response  
Prevention Preparedness and Response Program  
Central Region  
Valdez, AK

# sUAS (drone) - ADEC

- sUAS – small unmanned aircraft system <55 pounds
- DJI Mavic 2 Pro in Valdez ADEC office
- 1 pilot in Valdez; 10 pilots in ADEC PPR program
- Multiple drone types available
- Drones and trained pilots in every ADEC office to support work



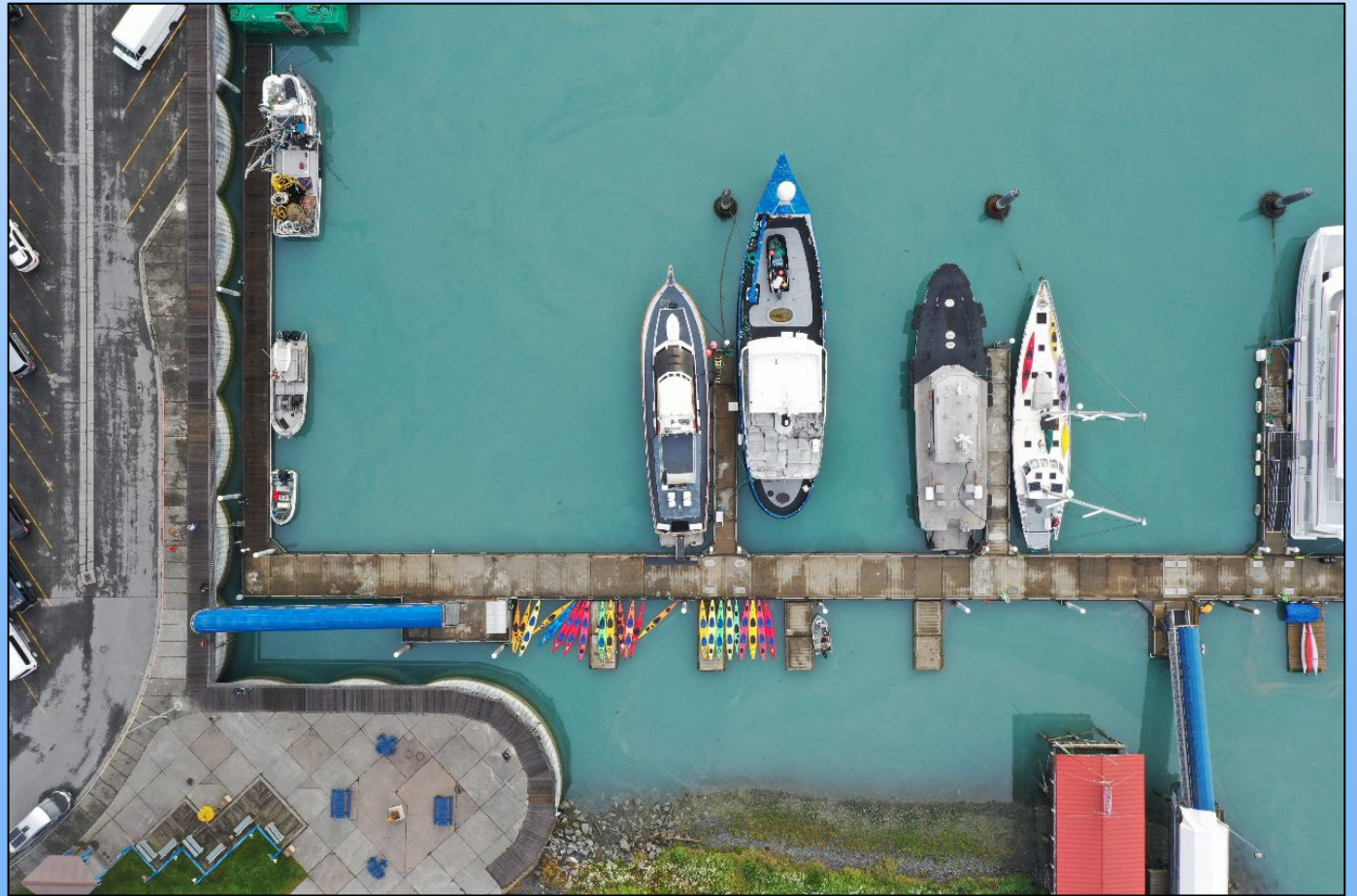
## sUAS (drone) – ADEC (cont.)

- ADEC drone support group
- State of Drones for statewide support on sUAS use
- Training and flying requirements – must be FAA part 107 certified and proficient in flying to operate sUAS



# Purpose

- Spill response
- Equipment deployments
- Facility Inspections
- Evaluations after floods
- Site remediation efforts



# Valdez Harbor



May 4, 2021

# Valdez Harbor Scum



June 18, 2021

# Sunken Vessel Port Valdez

Salvage vessels with sunken vessel's seine net



Sheen reconnaissance

July 12-13, 2021



# Fuel Truck Overfill



August 16, 2021

# Weed Harvester

August 19, 2021

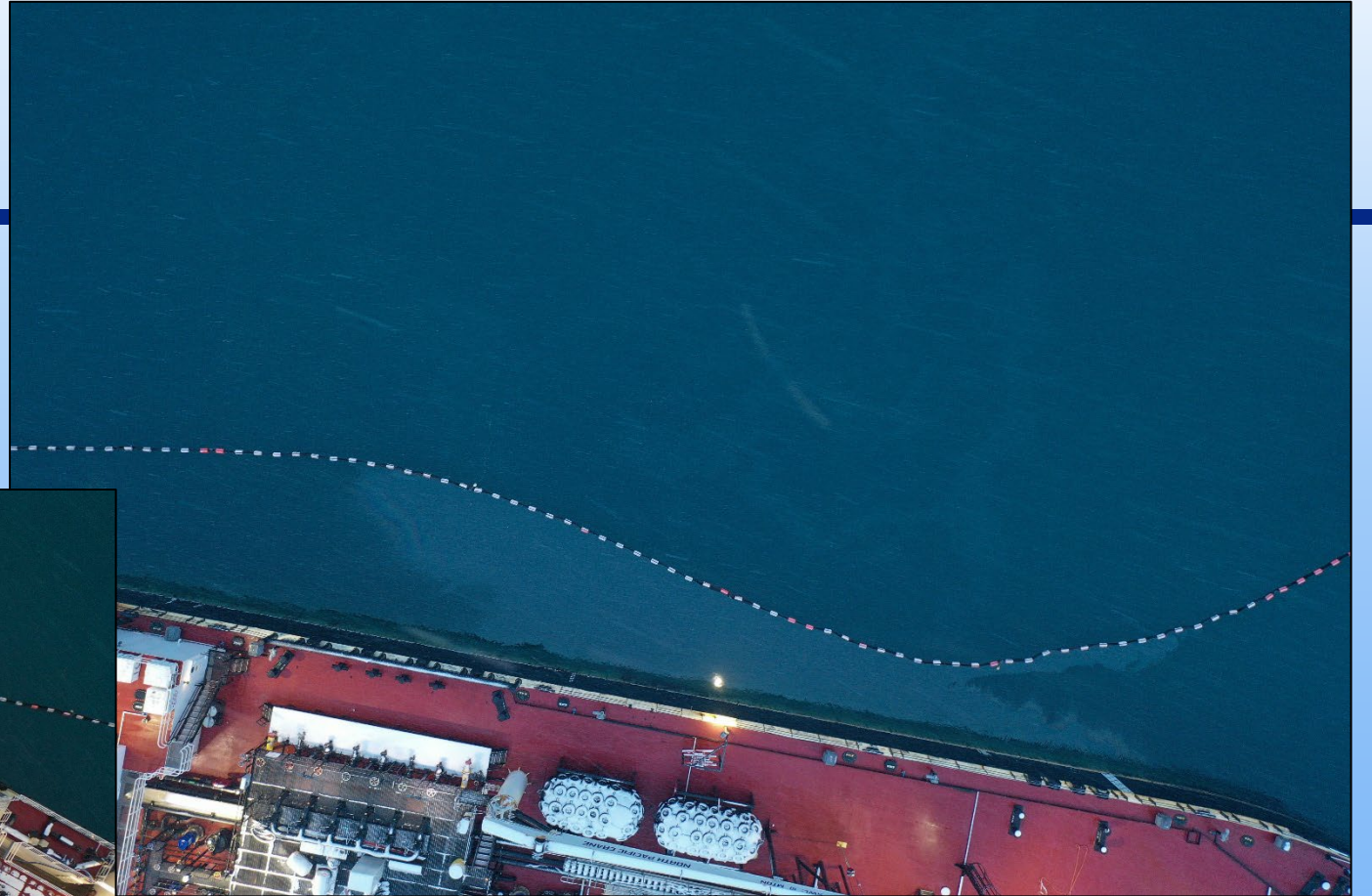


# Valdez harbor

January 13, 2022



# Fueling Dock



February 6, 2022

# Field deployments, Anderson Bay



May 18, 2022

# Live stream, Anderson Bay - VEOC

Windowed Projector (Preview)

**dji** In-Flight (GPS)

Position 95% 3.86 V

AUT ISO Shutter F EV WB Auto Capacity  
100 1/640 6.3 0.7 5700K JPEG 15,375

AF/MF AE

D 87 ft H 131 ft  
H.S 8.4 mph V.S 0.0 mph 84.9 ft

**JB**  
Benda, Jennifer J (DEC)

Curtis, Mark

**HL**  
Holly Largent

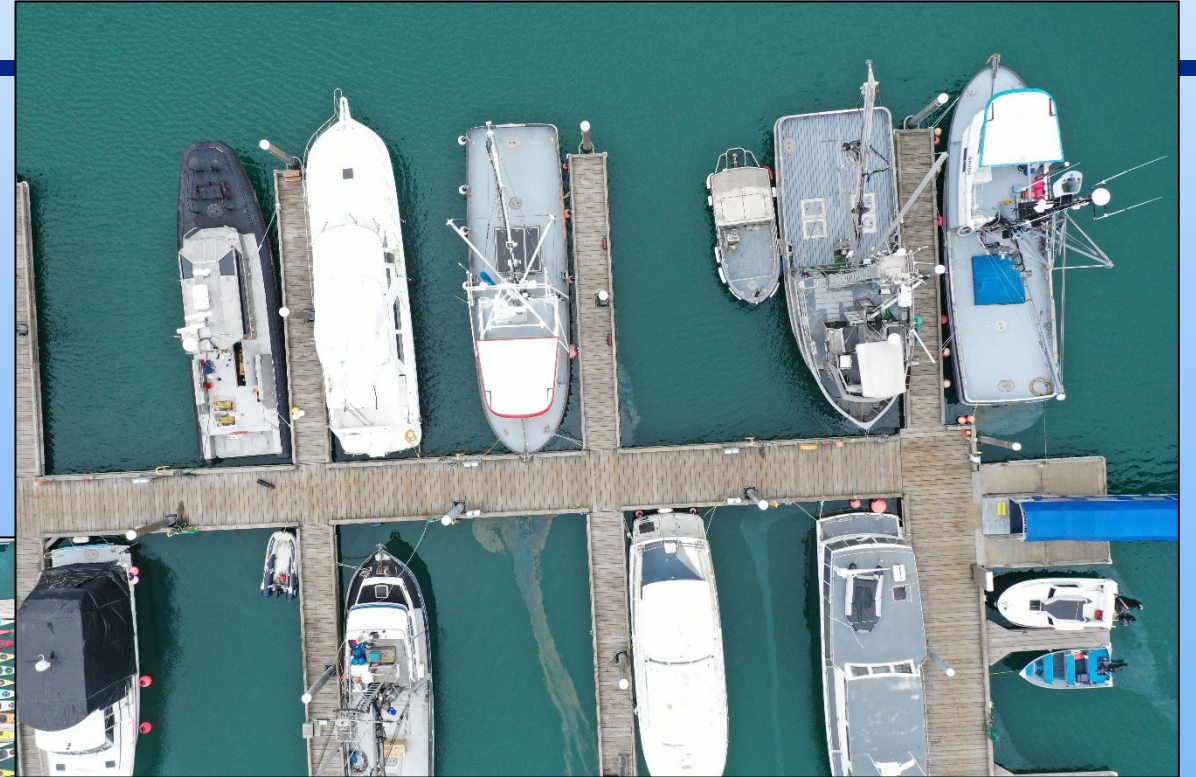
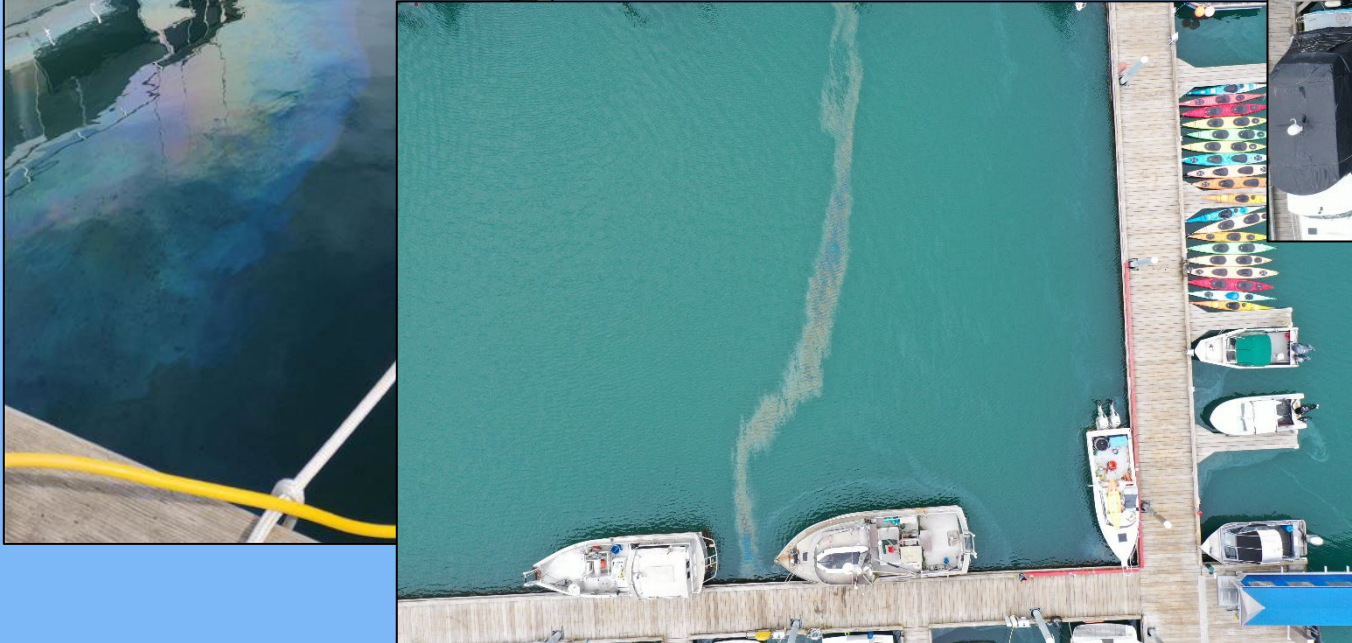
**MR**  
Radotich, Mo C (DEC)

Yacavone, Matthew

Day, Robert

May 18, 2022

# Valdez harbor



May 8, 2023

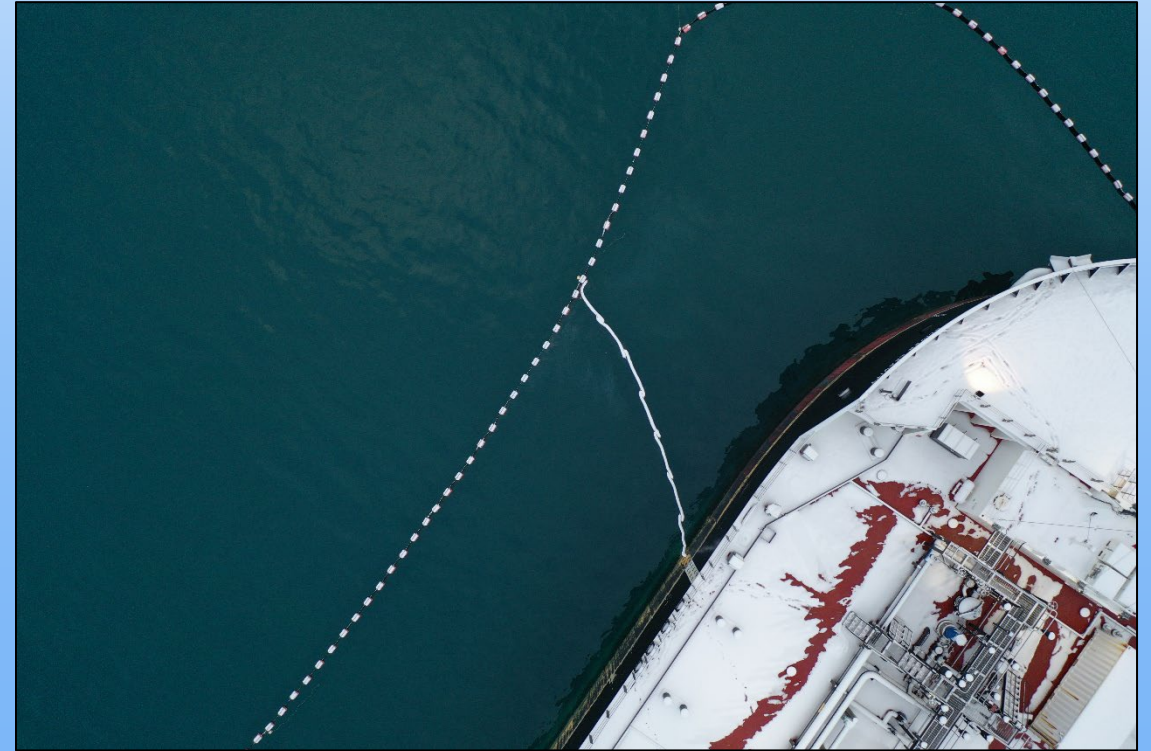
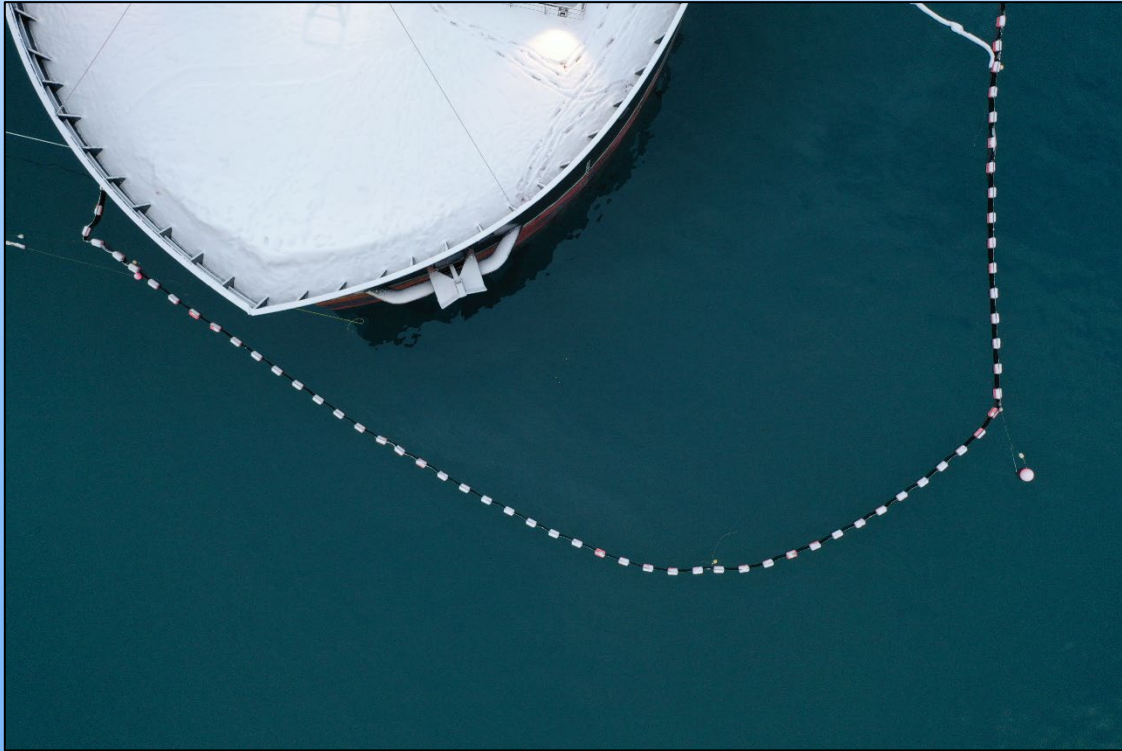
# Valdez harbor



August 9, 2023



# Fueling dock



January 4, 2024

# Dayville Road Flooding



August 27, 2024

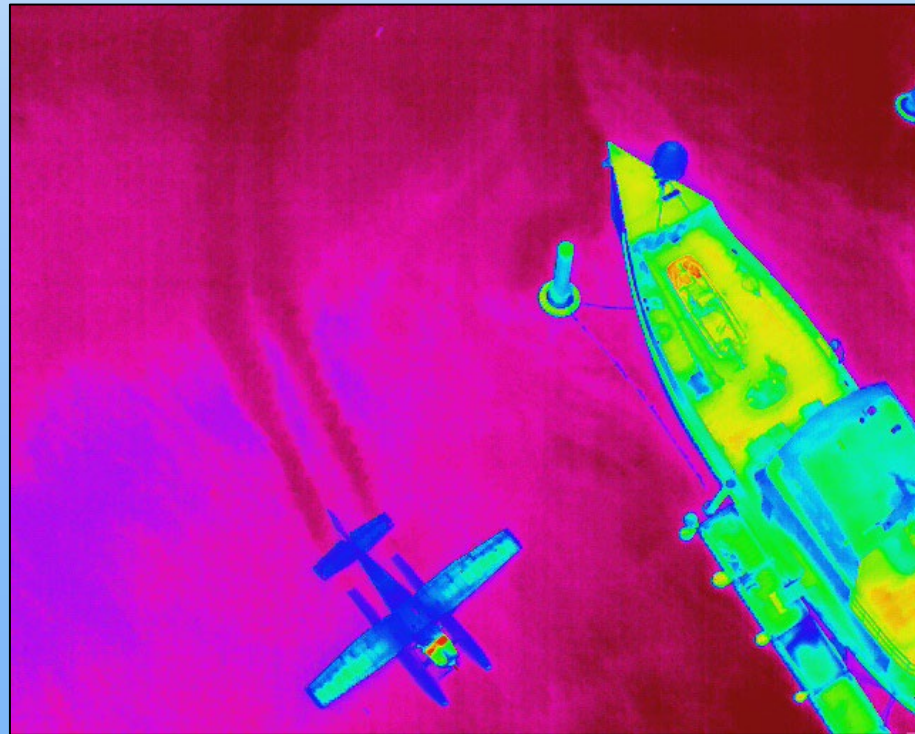


# Vegetation Remediation



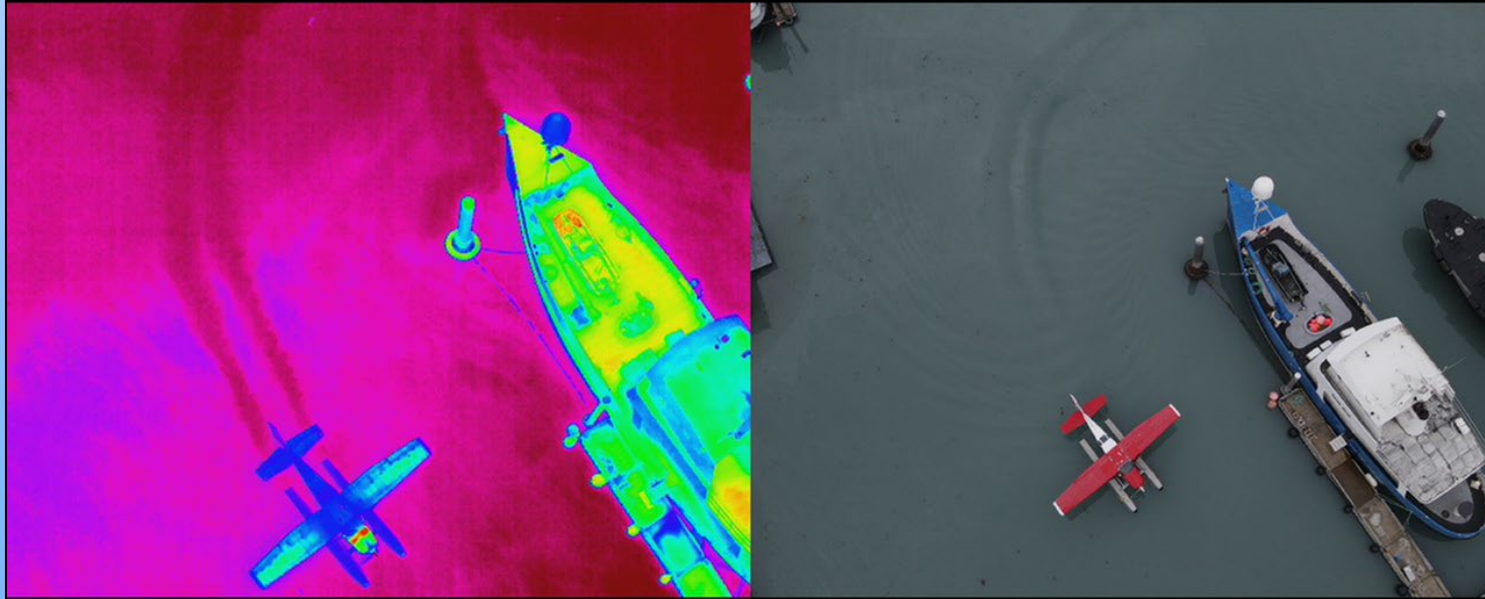
August 23, 2023

# Mavic Pro, FLIR



July 15, 2022

# Mavic Pro, FLIR



July 15, 2022

# Skydio X10 – FLIR & Live Stream Capability



February 21, 2024

# Special Considerations

- Weather
- Other hazards
- Batteries and authorizations
- Rules
- Process driven
- Troubleshooting challenges



# What's next

- Opportunities to train with other community agency pilots
- October PWS shipper exercise, drone live stream field deployments into command post



# Questions?



ADEC Valdez Office  
213 Meals Ave Suite 17  
Valdez, AK

<https://dec.alaska.gov/spar>

907-835-4698