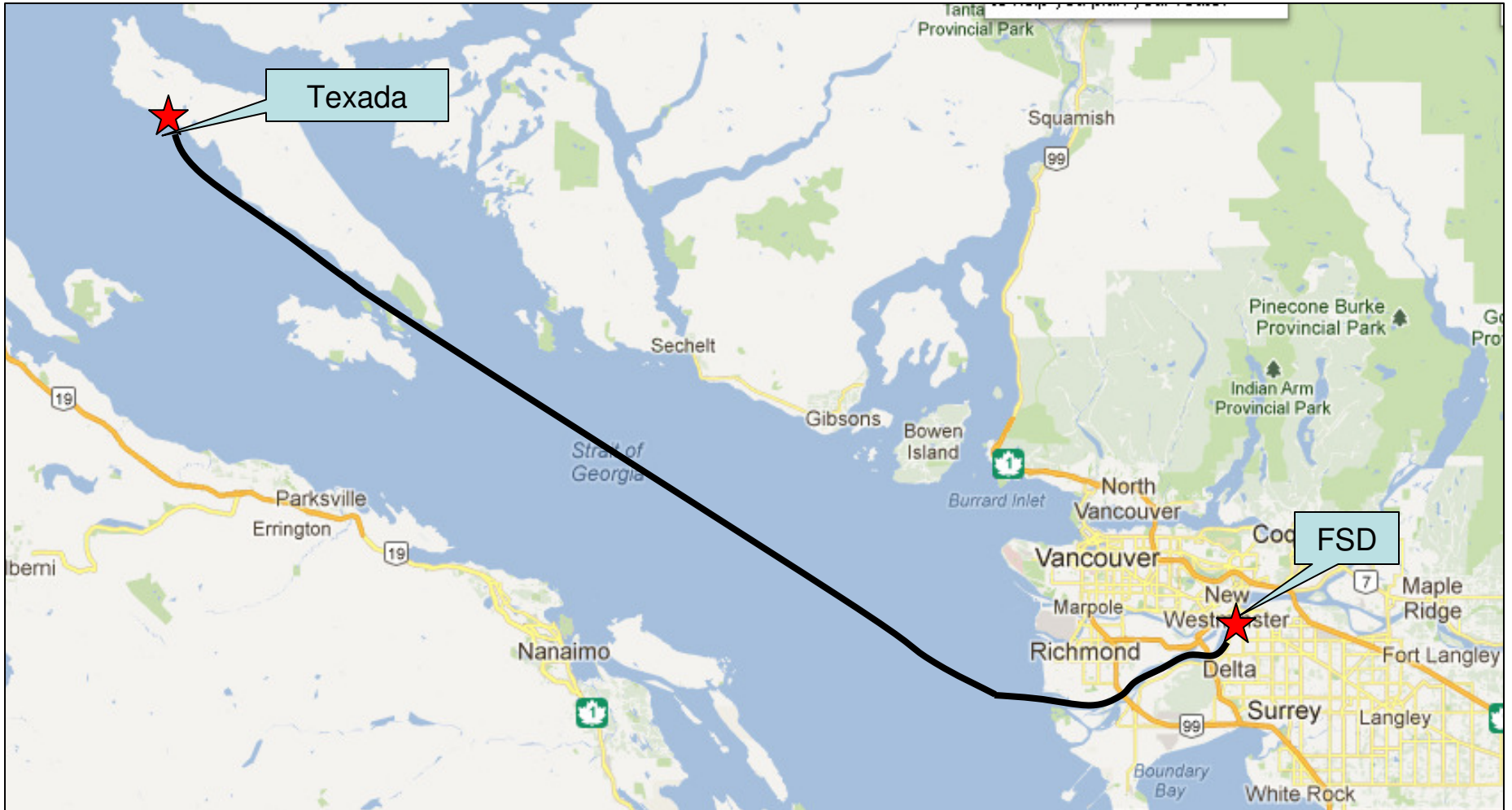


General Activity

- Route details
 - Maps intended as an overview of routes taken
 - They may not be completely to scale nor considered navigational aids
 - Route taken upstream versus downstream will vary with respect to nautical law & activity
- River
 - Barges will be towed in the river in a 1 barge configuration
 - Tug used to pull and also moor barge upon arrival and departure at FSD.
 - Tug will take away loaded vessel from downstream as ready
- Barge Moorage
 - With normal operation of this fleet we will typically not moor barges
 - As moorage is needed we will use various locations available to us on the river
 - Richmond Cement dock (4 spots)
 - Annacis Island (4 spots)
 - Various others if these are not available (+2 above FSD, 2 below Lehigh Cement.....)
- Ocean - Texada
 - All barge traffic on the coast will follow our normal haul route to Texada
 - Vessels will either arrive direct to barge ramp and or be moored at Texada's buoy
- Tandem hauls
 - Tandem activity will happen when it is possible.
 - Tandem towing will not typically happen in the river
 - All pairing of barges will happen once past Sand Heads in open water
 - The 2 tugs will then pair the barges, secure vessel and continue in a tandem tow with on tug
 - Reverse process will happen at Texada to separate and store barges if needed

General Route from FSD – Texada Island



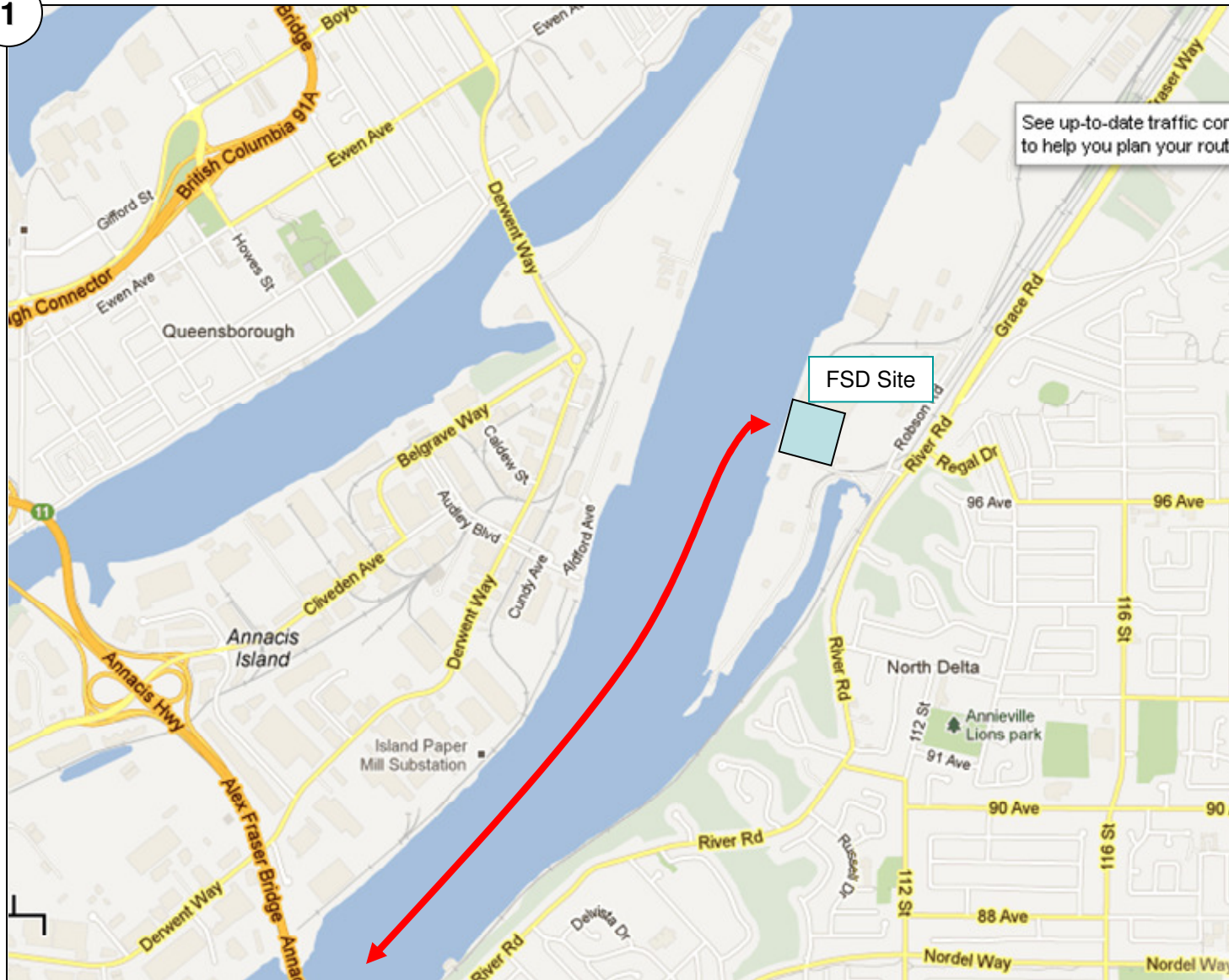
Maps intended to overview of routes taken. They may not be completely to scale nor considered navigational aids

General Route from FSD – Texada Island



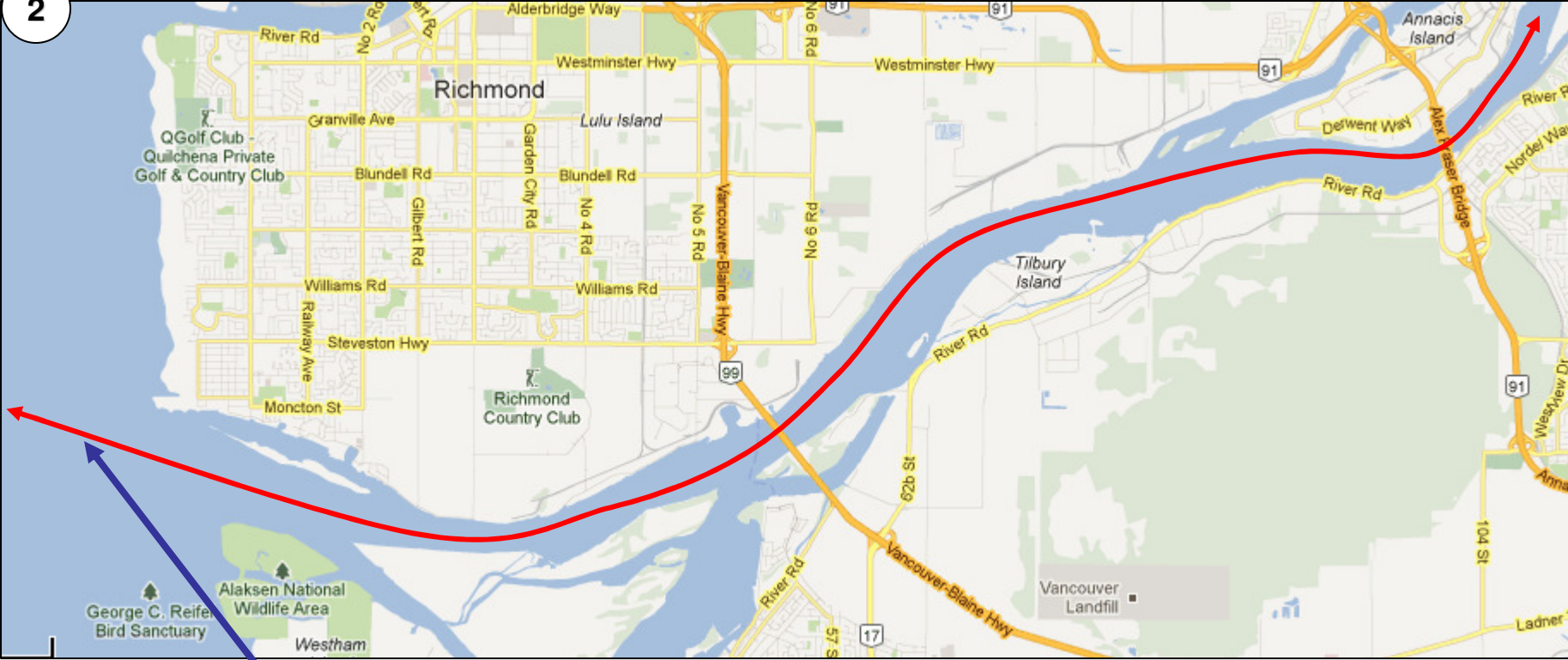
Maps intended to overview of routes taken. They may not be completely to scale nor considered navigational aids

1

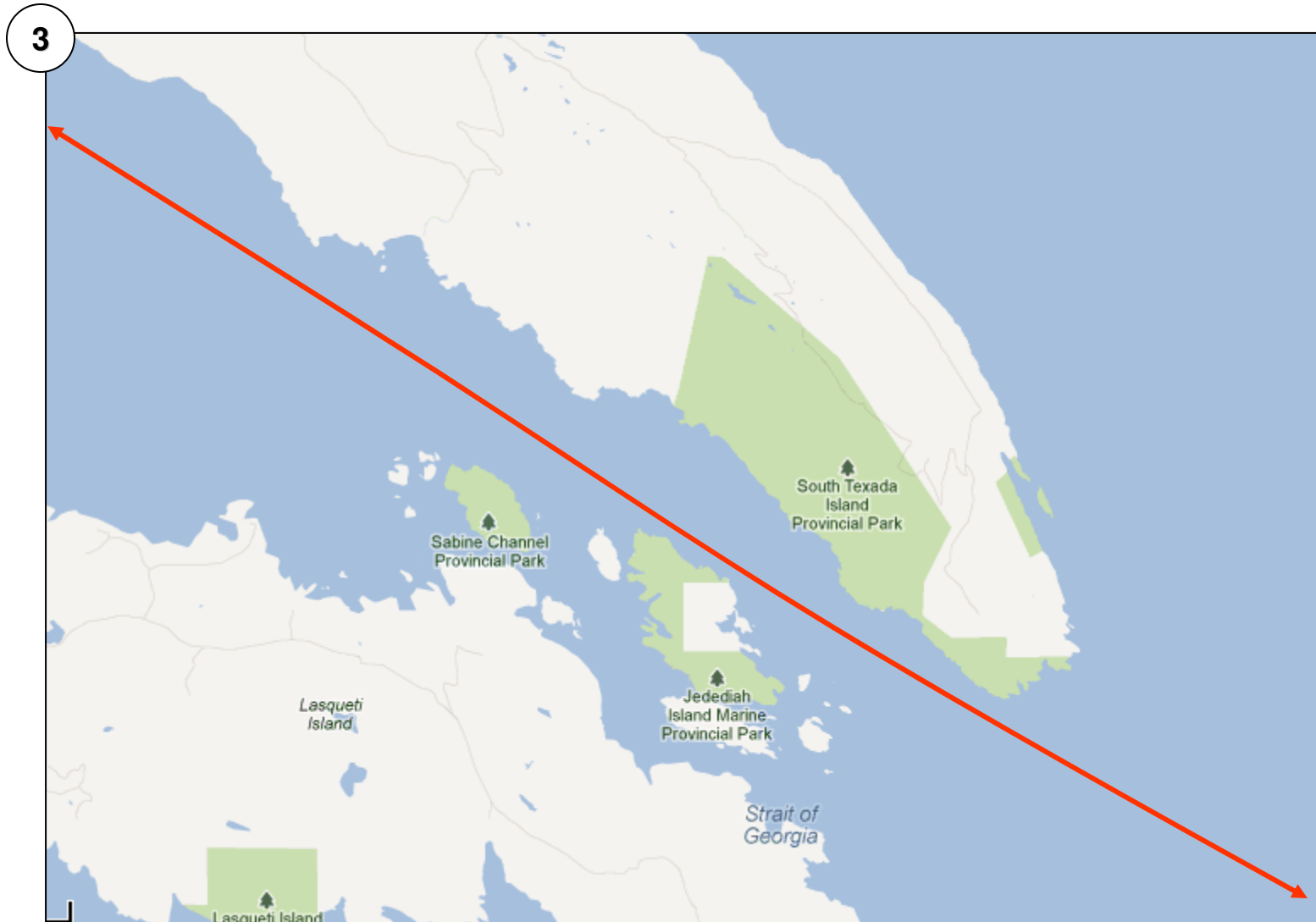


Maps intended to overview of routes taken. They may not be completely to scale nor considered navigational aids

2

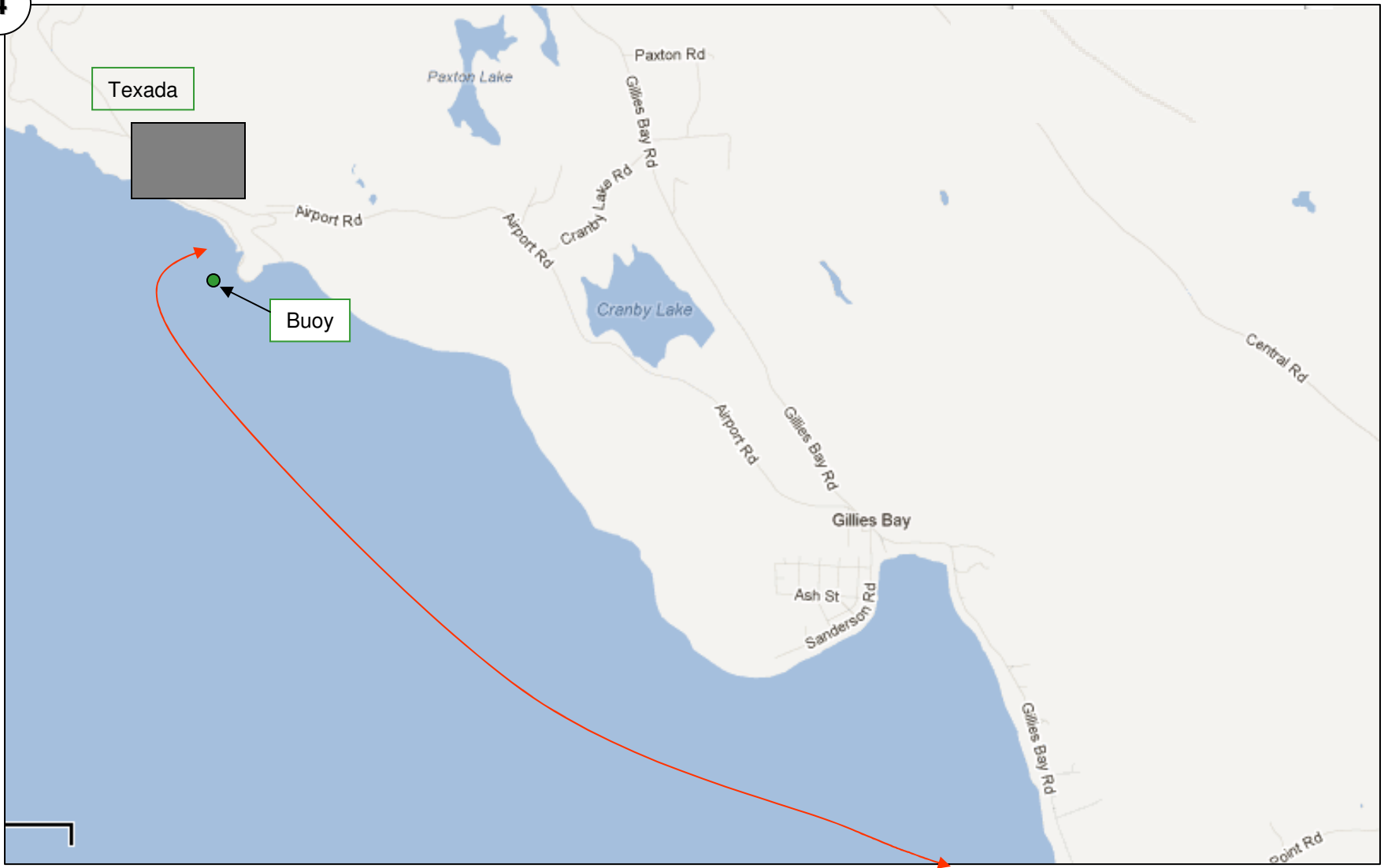


Goal when exiting the river is to clear Sand Heads.
Any Tandem towing activity would take place beyond this point



Maps intended to overview of routes taken. They may not be completely to scale nor considered navigational aids

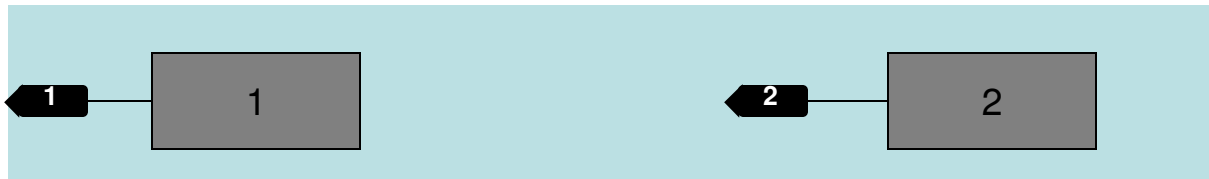
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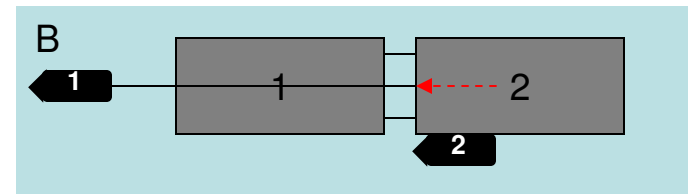
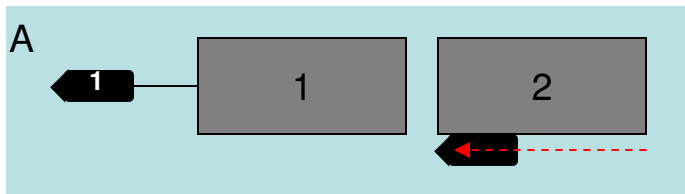
Maps intended to overview of routes taken. They may not be completely to scale nor considered navigational aids

Tandem Towing

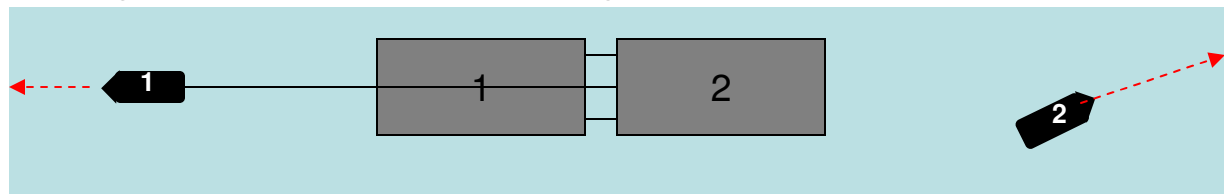
- Tandem towing will typically only happens on the open ocean in good weather
- Beyond Sandheads is a clear and safe area free of river traffic to pair up barges
- Two barges meeting and shorten lines (each with a tug in control)



- A) Barge 1 remains still while barge 2 is positioned to be linked up. B) Then the tug ties lines between both barges to secure for towing



- Once barge 1 & 2 are “tandem” then tug 2 is free to leave



- Reverse will happen at Beale Cove (tug will be working/waiting at Beale cove to assist with breaking of the set)