

Evaluate building siphons or pipelines under the Intracoastal Waterway to ensure that local inflows actually reach East Matagorda Bay.



**A PRESENTATION TO THE
COLORADO AND LAVACA RIVERS
AND MATAGORDA AND LAVACA
BAY AND BASIN AREA
STAKEHOLDER COMMITTEE**

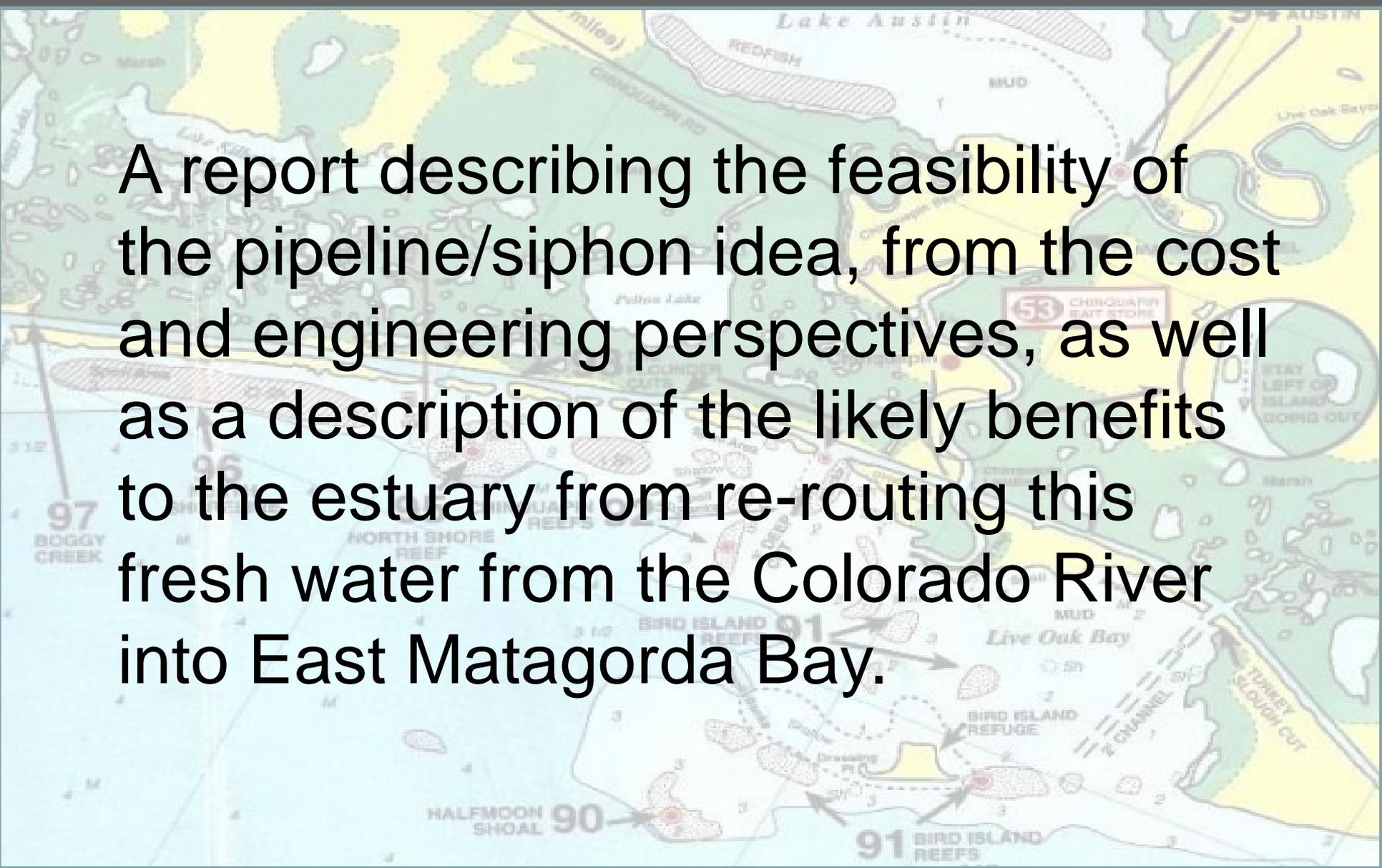
Problem Statement

East Matagorda Bay

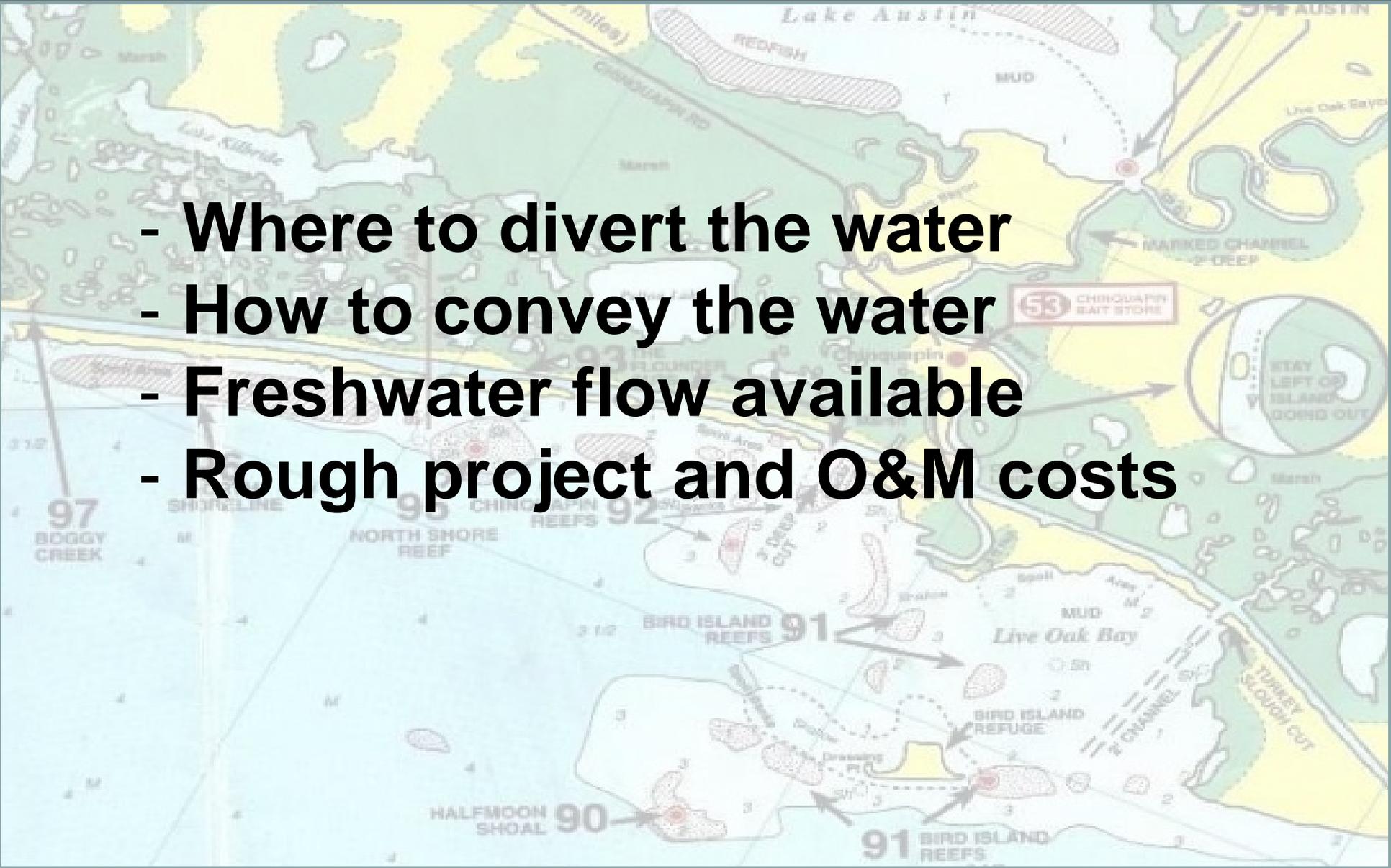


**Elevated salinity and
Reduced Circulation**

A report describing the feasibility of the pipeline/siphon idea, from the cost and engineering perspectives, as well as a description of the likely benefits to the estuary from re-routing this fresh water from the Colorado River into East Matagorda Bay.



- Where to divert the water
- How to convey the water
- Freshwater flow available
- Rough project and O&M costs



Small Dam below Bay City

Nice Diversion
Location



Longest Conveyance Option

Diversion



20 miles

East Matagorda Bay

Simplest/Original Conveyance Option?

Short Pipeline



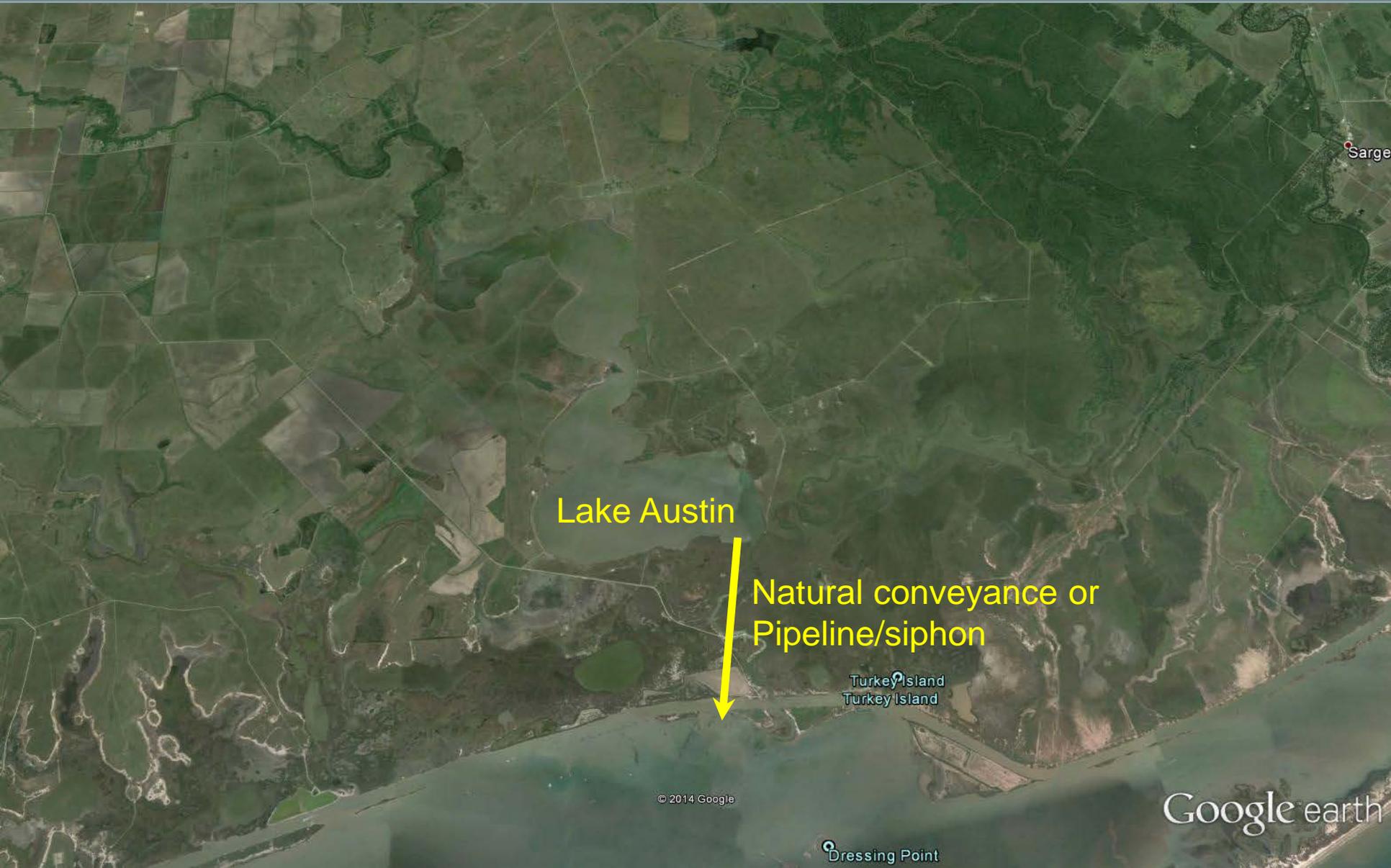
Easiest solution of all?

Very Short Pipeline



Conveyance Alternative?

Looking East



Lake Austin

Natural conveyance or Pipeline/siphon

Turkey Island
Turkey Island

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Google earth

Dressing Point

Conveyance Alternative?

Looking
East



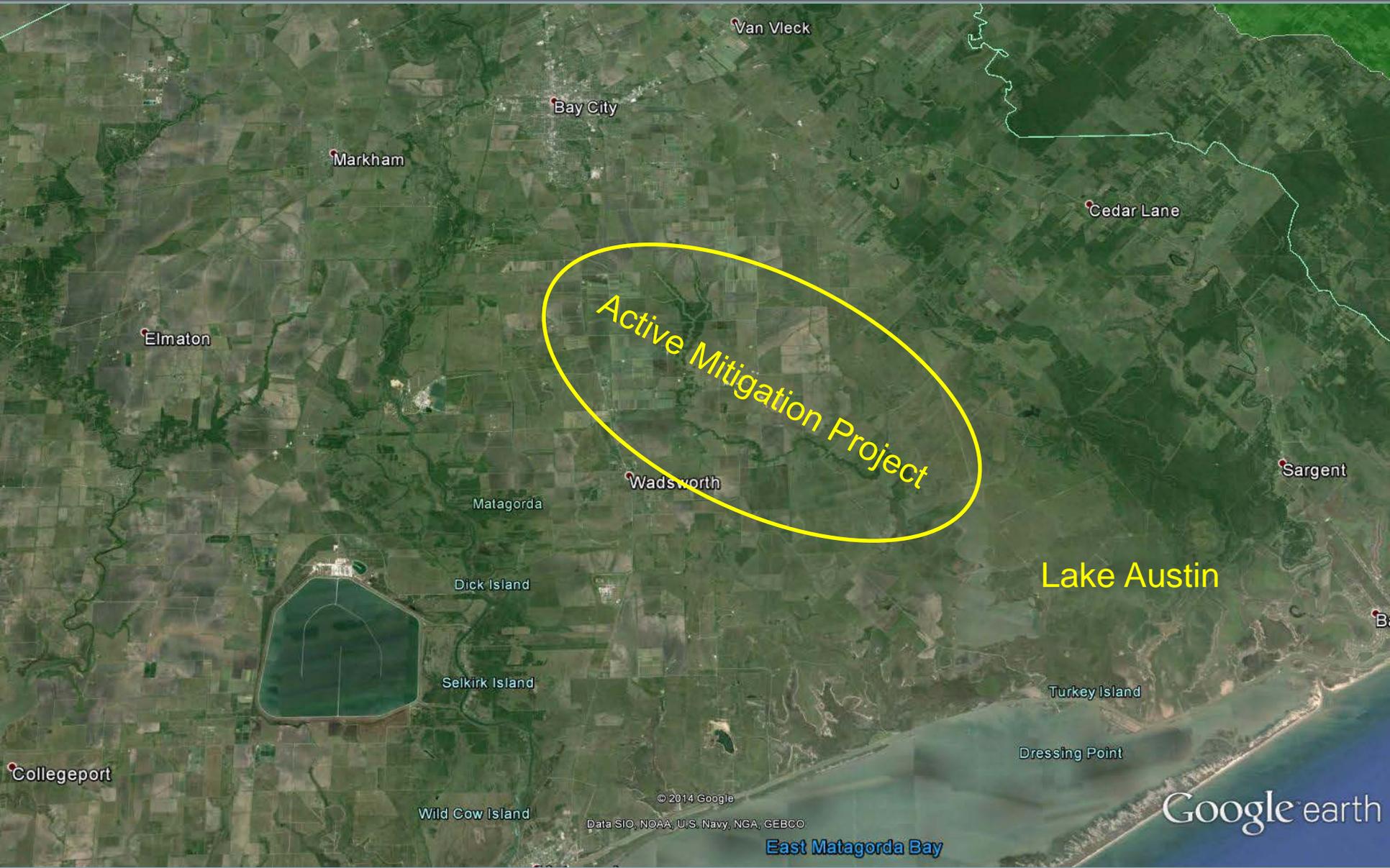
Colorado River

≈ 1/2 mile

Lake Austin tributary

Conveyance Alternative?

Looking East



Conveyance Options

**Still on
the Table**

A: Upstream diversion and long pipeline

B1: Upstream diversion gravity flow to Lake Austin

B2: Upstream diversion using irrigation channels south

C1

**Downstream diversion and
short pipeline**

C2

D: Colorado River Bypass Channel

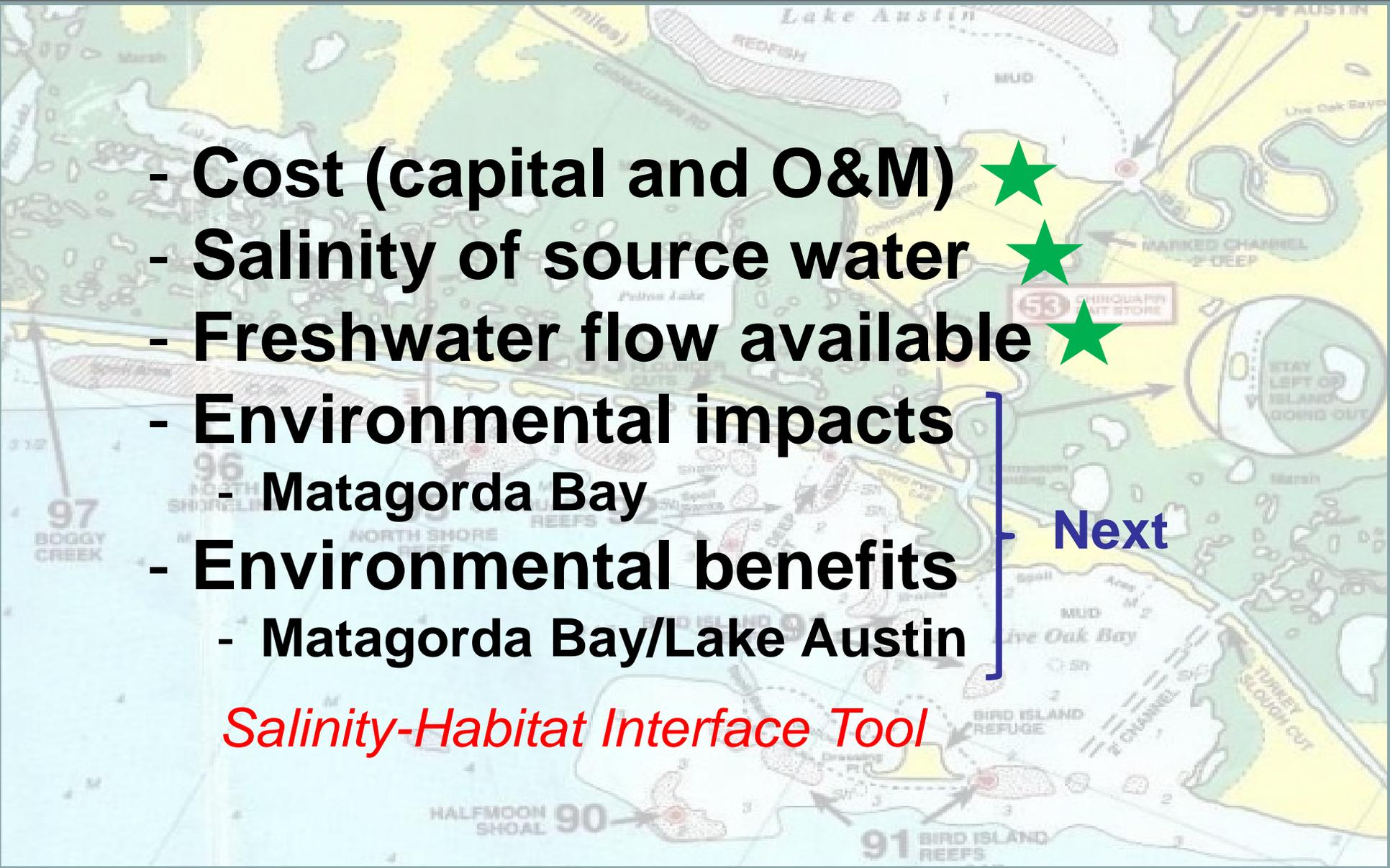
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google earth

- **Cost (capital and O&M)** ★
- **Salinity of source water** ★
- **Freshwater flow available** ★
- **Environmental impacts**
 - Matagorda Bay
- **Environmental benefits**
 - Matagorda Bay/Lake Austin



Salinity-Habitat Interface Tool



Questions?

Or Comments!

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