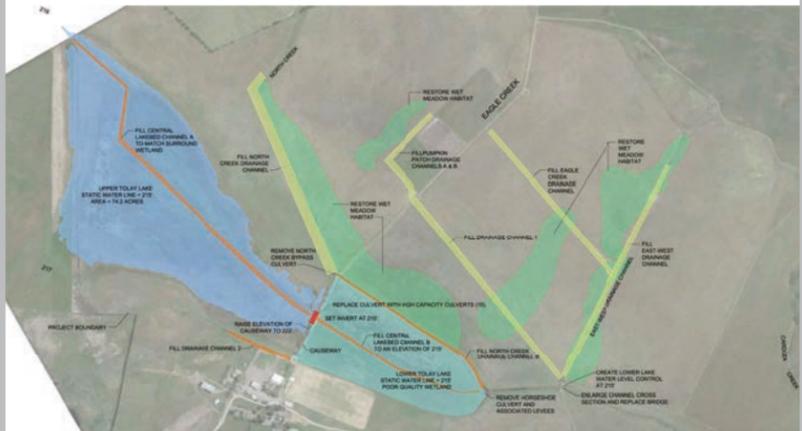


TOLAY LAKE ALTERNATIVES - PROS AND CONS

Alternative #1: 215' Lake Outlet Elevation



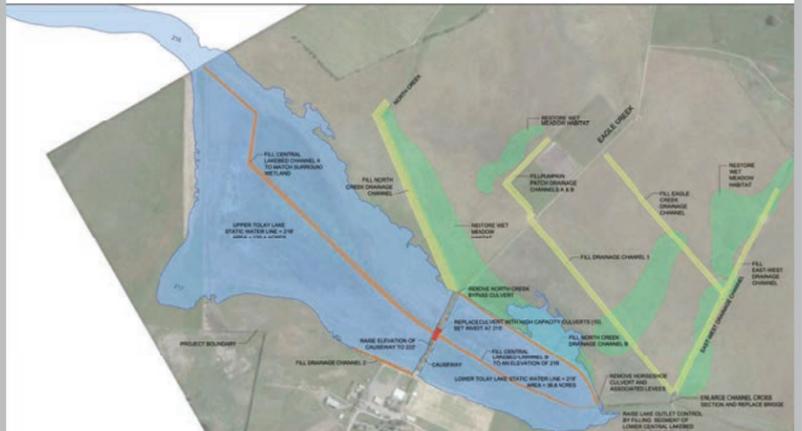
Key Features and Strategies:

- Maintain elevation of lake outlet at 215' for both the northwestern and southeastern segments of the lake
- Remove/replace the causeway culvert, horseshoe culvert, and cross-sectional area of farm bridge to improve flow capacity
- Maximum lake size: 71.1 acres
- Maximum lake storage volume: 97.7 acre-feet

Pros and Cons:

- Pro:** Reduces frequency and duration of flooding by increasing the flow capacity of the causeway culvert, eliminating the horseshoe culvert, and increasing the cross-sectional area at the farm bridge
- Pro:** Preserves the size and quality of existing seasonal wetland habitat

Alternative #2: 218' Lake Outlet Elevation Without Back Berm



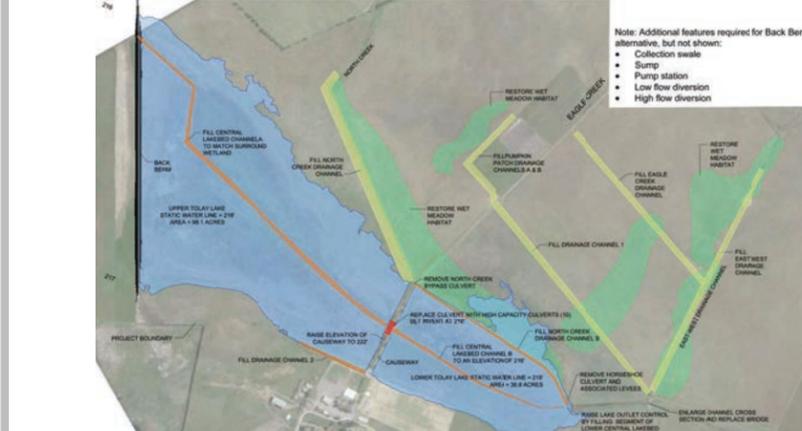
Key Features and Strategies:

- Raise elevation of lake outlet from 215' to 218' to increase potential depth and size of lake
- Maximum lake size: 171.53 acres
- Maximum lake storage volume: 439 acre-feet

Pros and Cons:

- Con:** Promotes upstream flooding of adjacent properties when the lake is full
- Con:** Adverse impact on size and quality of existing seasonal wetlands and habitat

Alternative #3: 218' Lake Outlet Elevation With Back Berm



Key Features and Strategies:

- Raise elevation of lake outlet from 215' to 218' to increase potential depth and size of lake
- Construct a back berm along the upstream boundary of the property to prevent flooding
- Maximum lake size: 134.9 acres
- Maximum lake storage volume: XXX acre-feet

Pros and Cons:

- Con:** Unlikely that dam would be permissible
- Con:** Adverse impact on size and quality of existing seasonal wetlands and habitat
- Con:** Would require complex and expensive infrastructure and engineering
- Con:** Engineering complexity of diversion pond
- Con:** Lacks adequate slope for gravity discharge
- Con:** Requires dependence on pumping and long-term water management
- Con:** Energy intensive
- Con:** Requires dam safety jurisdiction
- Con:** Emergency overflow required for more than 100-yr. flow
- Con:** Moves away from historic hydrology
- Con:** Requires significant earth moving

