

# GLMRIS

GREAT LAKES AND MISSISSIPPI RIVER INTERBASIN STUDY



AQUATIC NUISANCE SPECIES



ECOSYSTEMS



NAVIGATION



RECREATION



FLOOD RISK MANAGEMENT



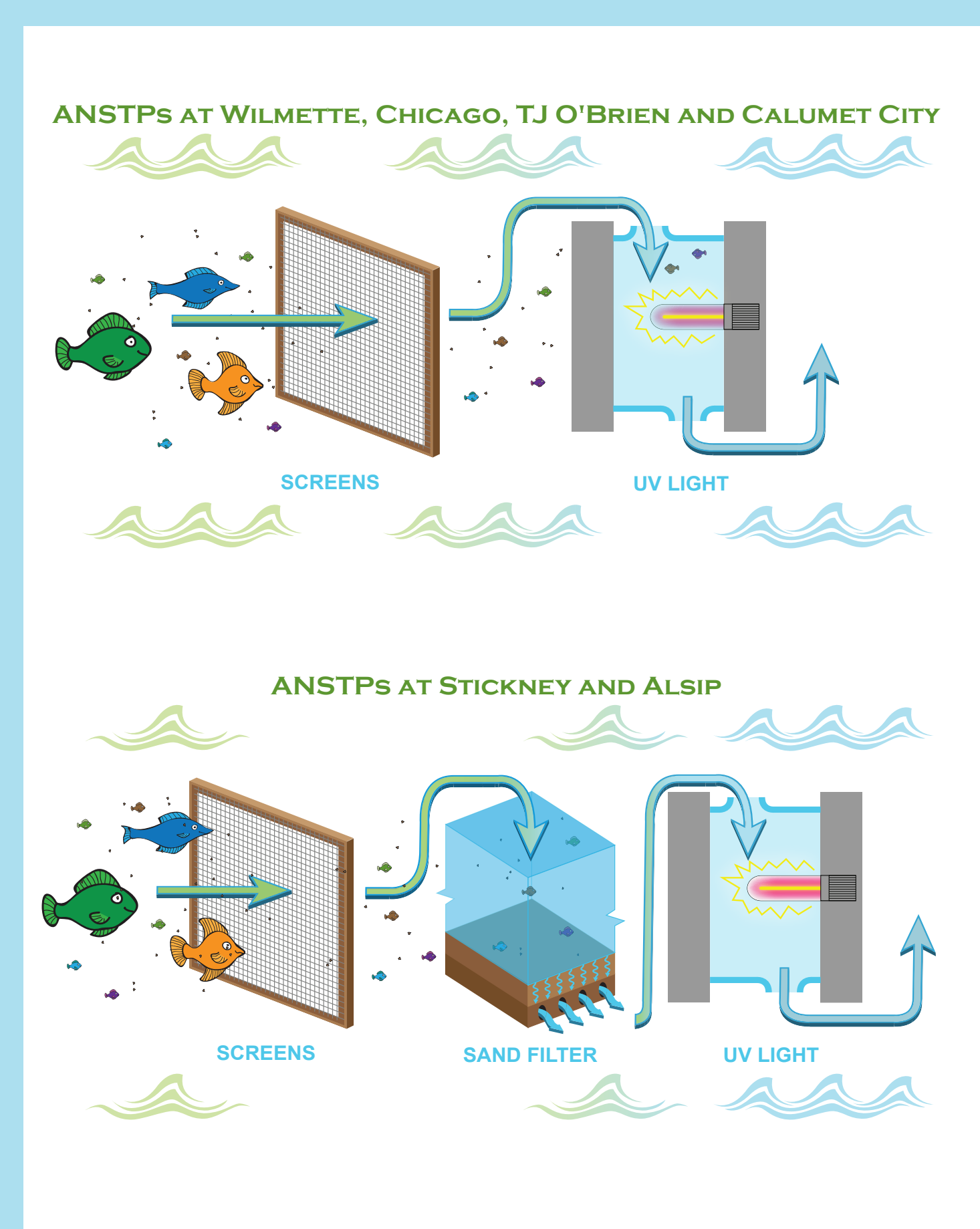
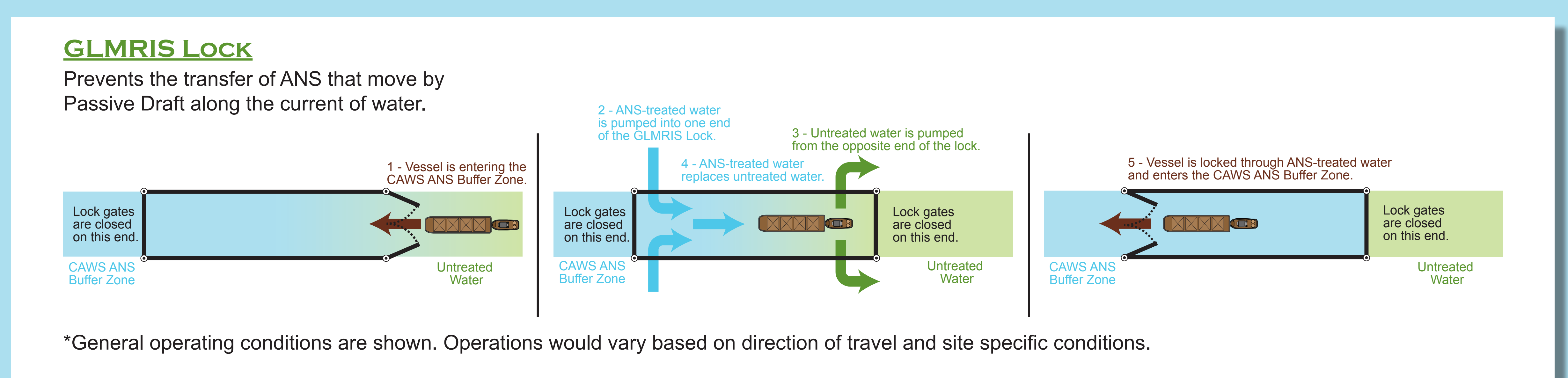
WATER USE

## ANS Control Measures

These measures were used to develop the GLMRIS Alternatives. If more effective ANS Controls are developed in the future, further analysis would need to be conducted.

### GLMRIS Lock

The GLMRIS Lock is flushed with ANS-treated water during lockages to control the transfer of certain ANS.



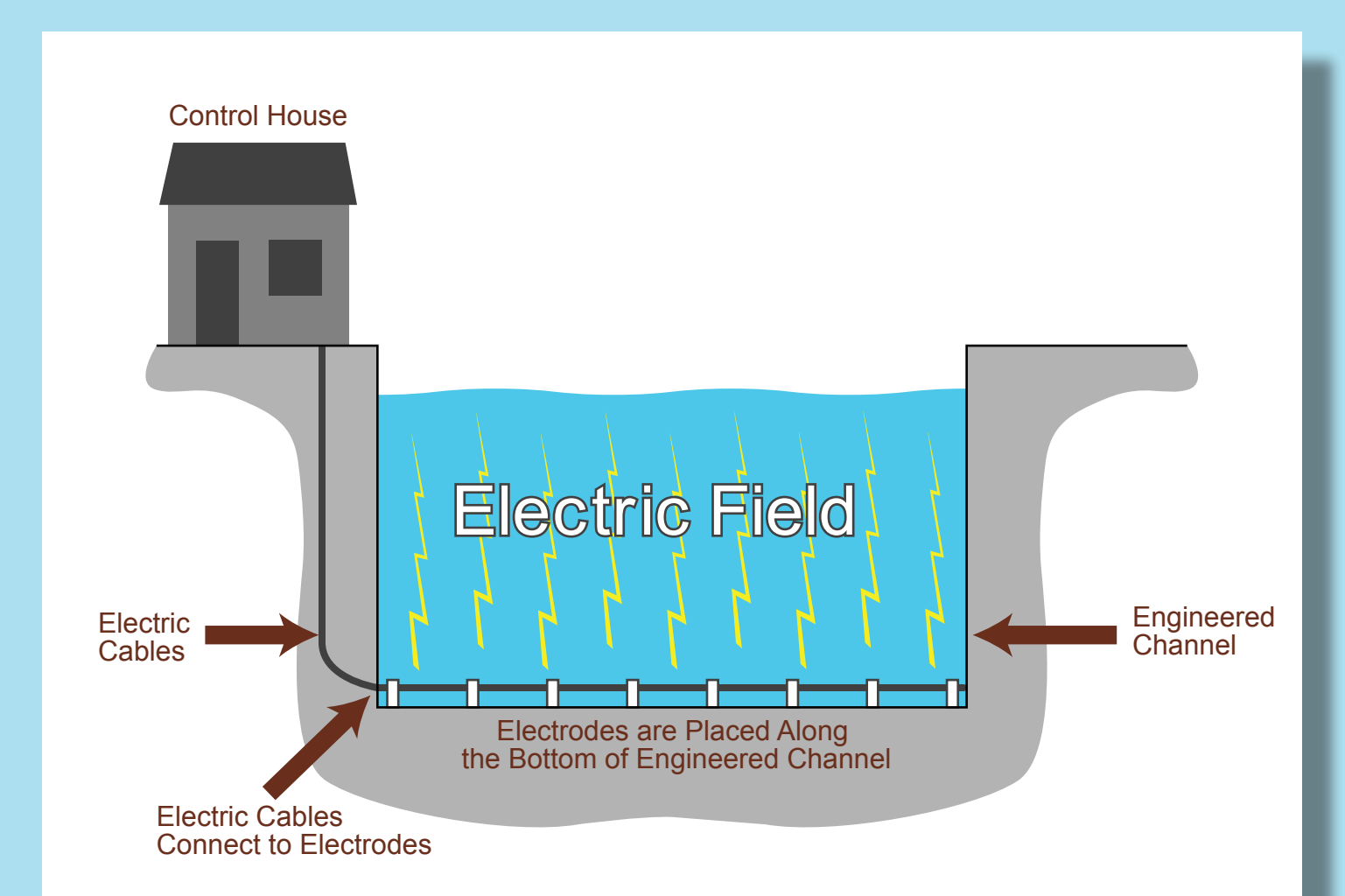
ANSTP schematic

### ANS Treatment Plant

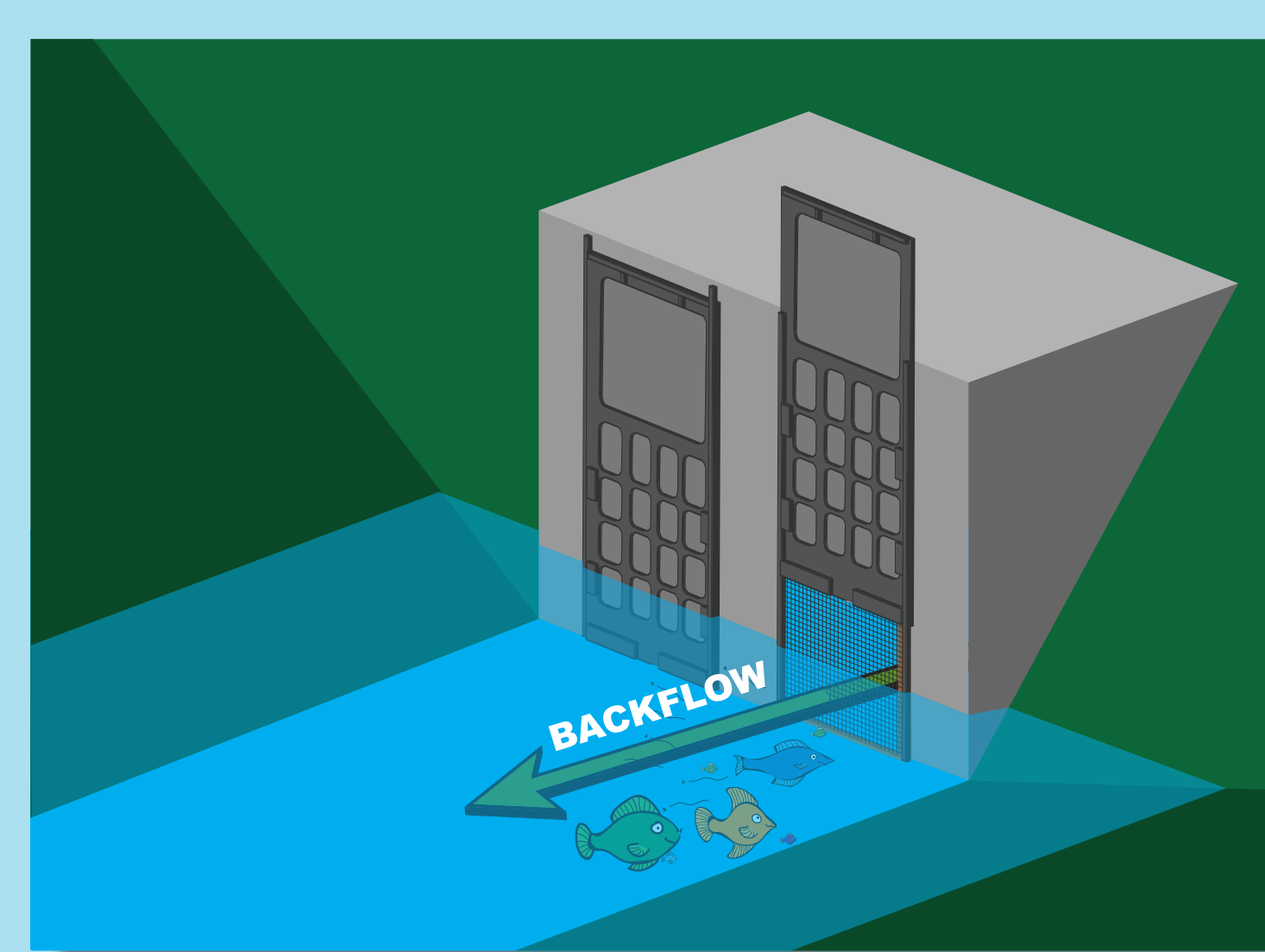
The ANSTP removes ANS from water. ANSTP effluent will be used to flush the GLMRIS Locks, mitigate water quality impacts, and maintain current hydrologic conditions in the CAWS.

### Electric Barrier

The electric barrier is used to control fish transfer.



GLMRIS-Electric-Barrier Cross Section



Screened Sluice Gates

### Screened Sluice Gates

Screened sluice gates allow for the passage of floodwaters while restricting fish transfer.

### Physical Barriers

Physical barriers control the transfer of untreated surface water in the CAWS.

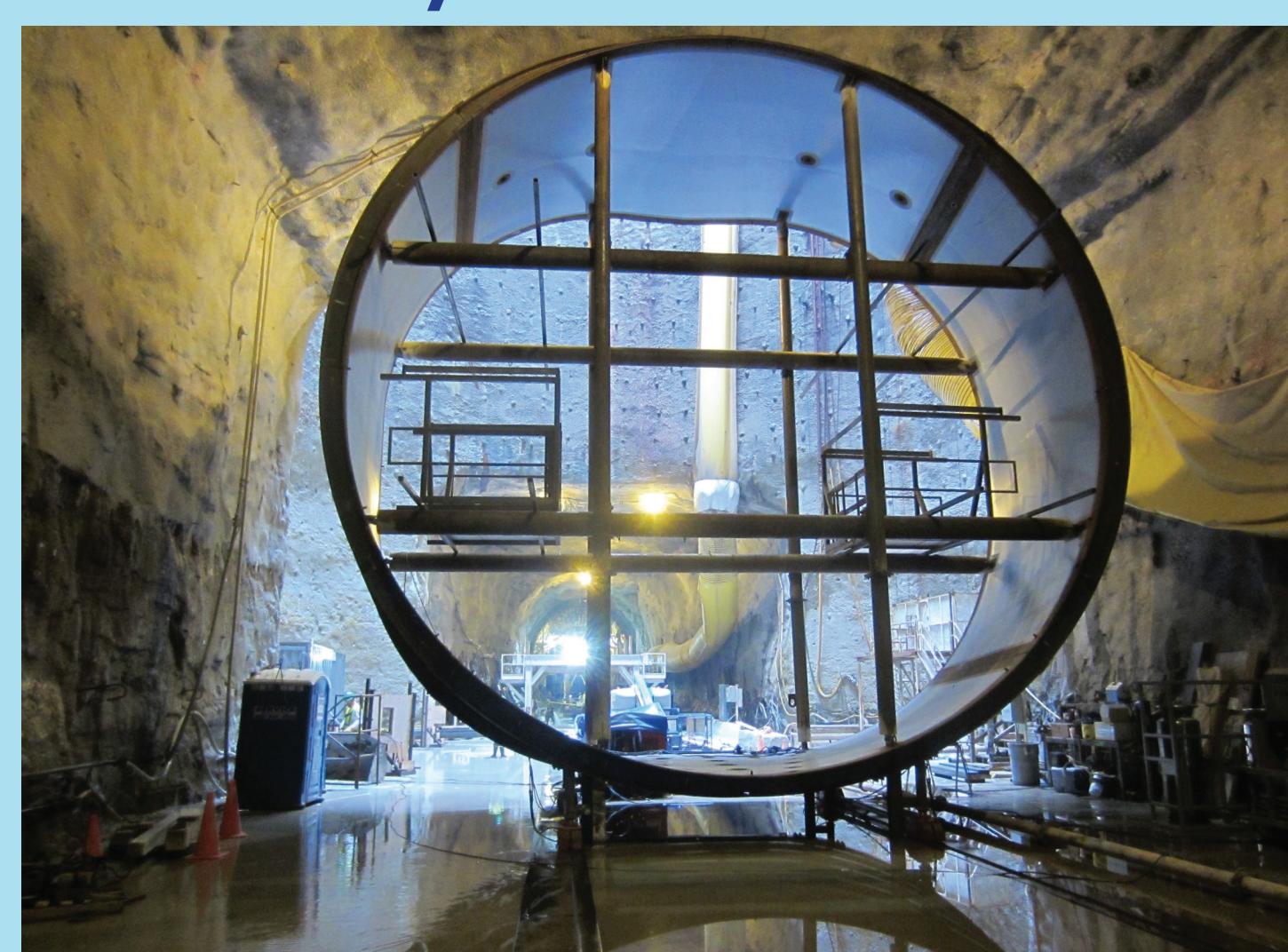
## Mitigation Measures

Some ANS Controls may cause impacts to the uses and users of the CAWS. The following measures are used to mitigate those impacts.

Reservoir



Conveyance Tunnels



Sediment Remediation



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