

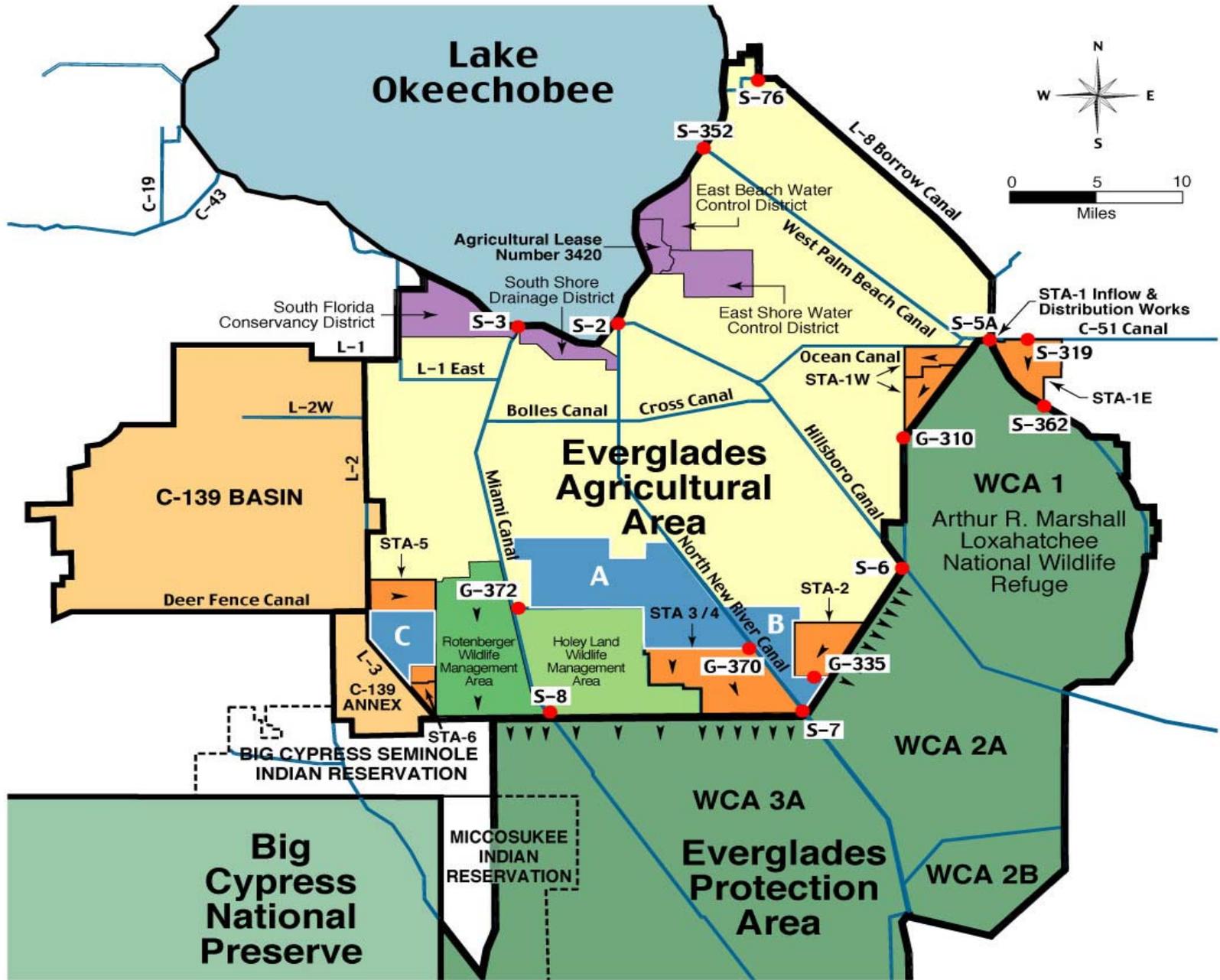
# Integration of L-8 CERP Project and the Long-Term Plan



**Tracey Piccone, P.E.**  
**Chief Consulting Engineer**  
**STA Management Division**

**WRAC Meeting**  
**November 2, 2006**

**[sfwmd.gov](http://sfwmd.gov)**



# L-8 Basin Runoff

- 1994 Everglades Construction Project (ECP) Conceptual Design assumed L-8 Basin runoff would be addressed by planning initiatives other than the ECP
  - *the proper operation of the ECP, and in particular STA-1E depends on diversion of L-8 Basin runoff away from the STAs*



# L-8 Basin Runoff

- EAA Regional Feasibility Study assumed L-8 basin runoff would bypass STA-1W and STA-1E through S-5AE and S-155A
  - Recommended expanding S-5AE and possibly S-155A
  - Capital cost estimate for both of about \$1 million
- Follow-on study confirmed need to double S-5AE, while S-155A was sufficient size

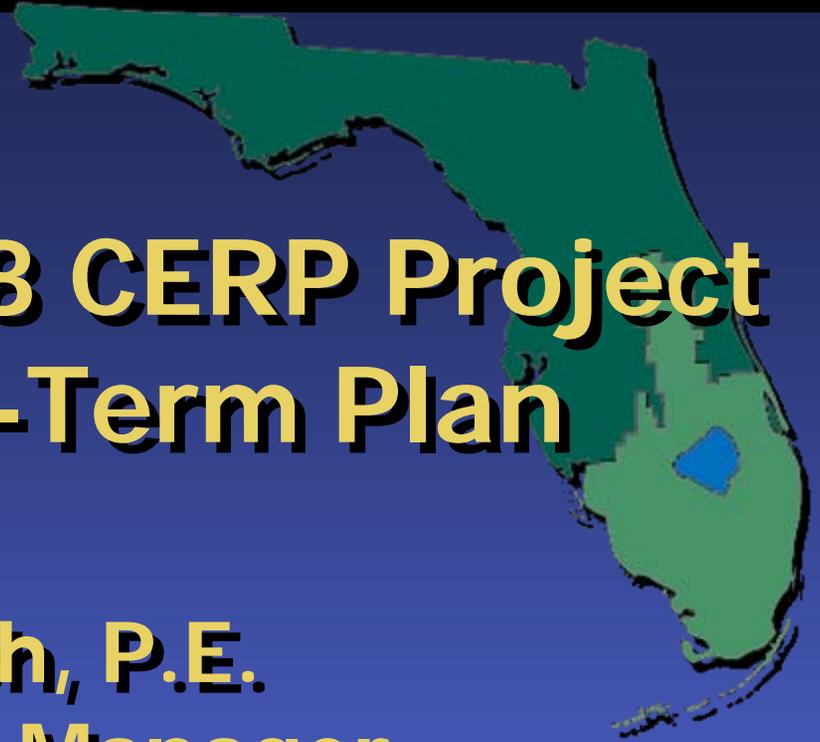


# Integrating with CERP and Adaptive Implementation

- In lieu of expanding S-5AE, funding can be provided to expedite L-8 Project
  - Alleviates concerns that enlarging S-5AE would result in increased deliveries to tide
  - Benefits the STAs by sending peak L-8 discharges to pits and discharging at lower rate to tide after the peak runoff event
  - Diverts average annual phosphorus load of about 8,276 kg away from STAs



# Integration of L-8 CERP Project and the Long-Term Plan

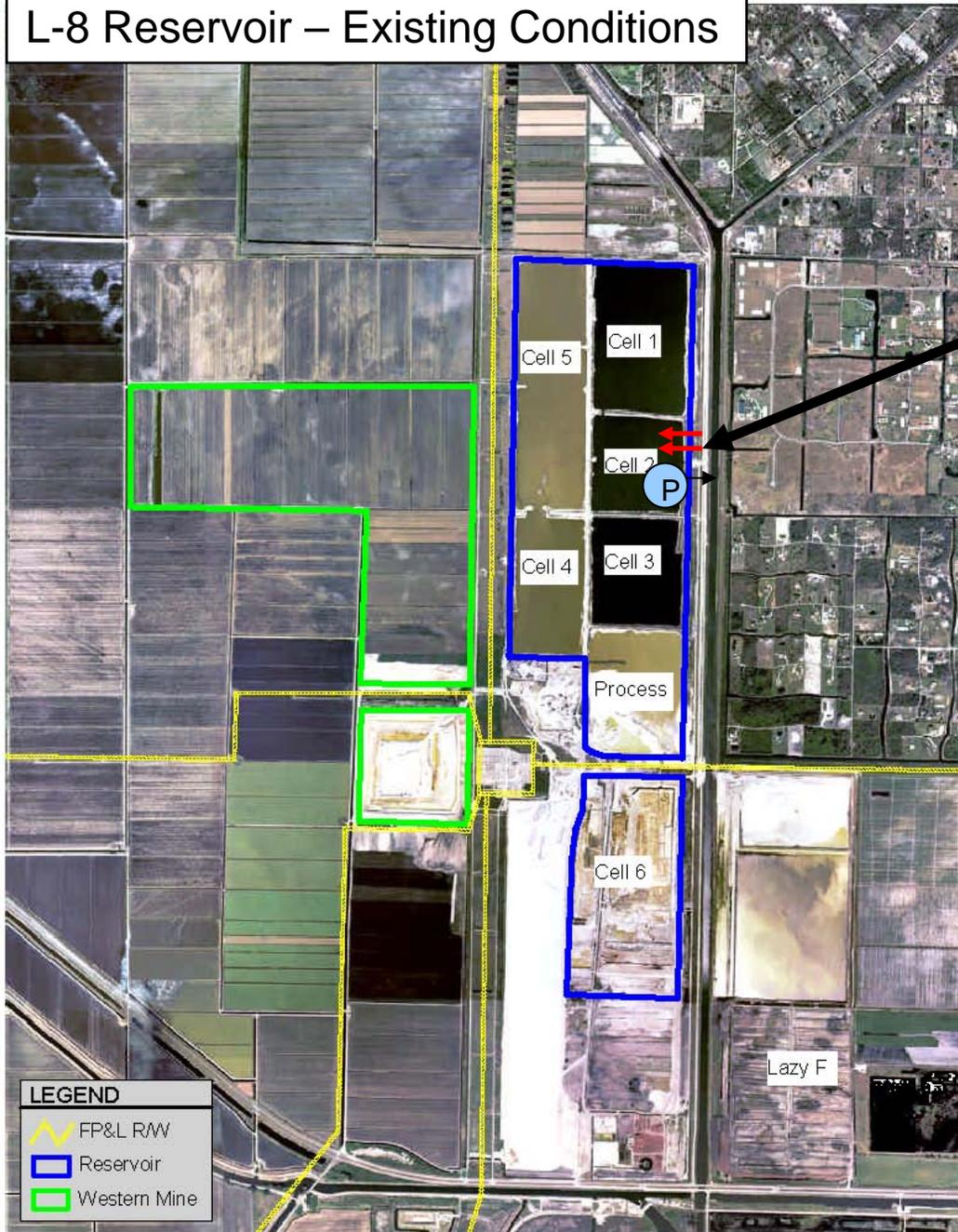


**Mike Voich, P.E.**  
**Lead Project Manager**  
**CERP Project Management Division**

**WRAC Meeting**  
**November 2, 2006**

**[sfwmd.gov](http://sfwmd.gov)**

# L-8 Reservoir – Existing Conditions



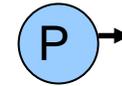
## LEGEND

- FP&L RW
- Reservoir
- Western Mine

## Existing Infrastructure and Operations



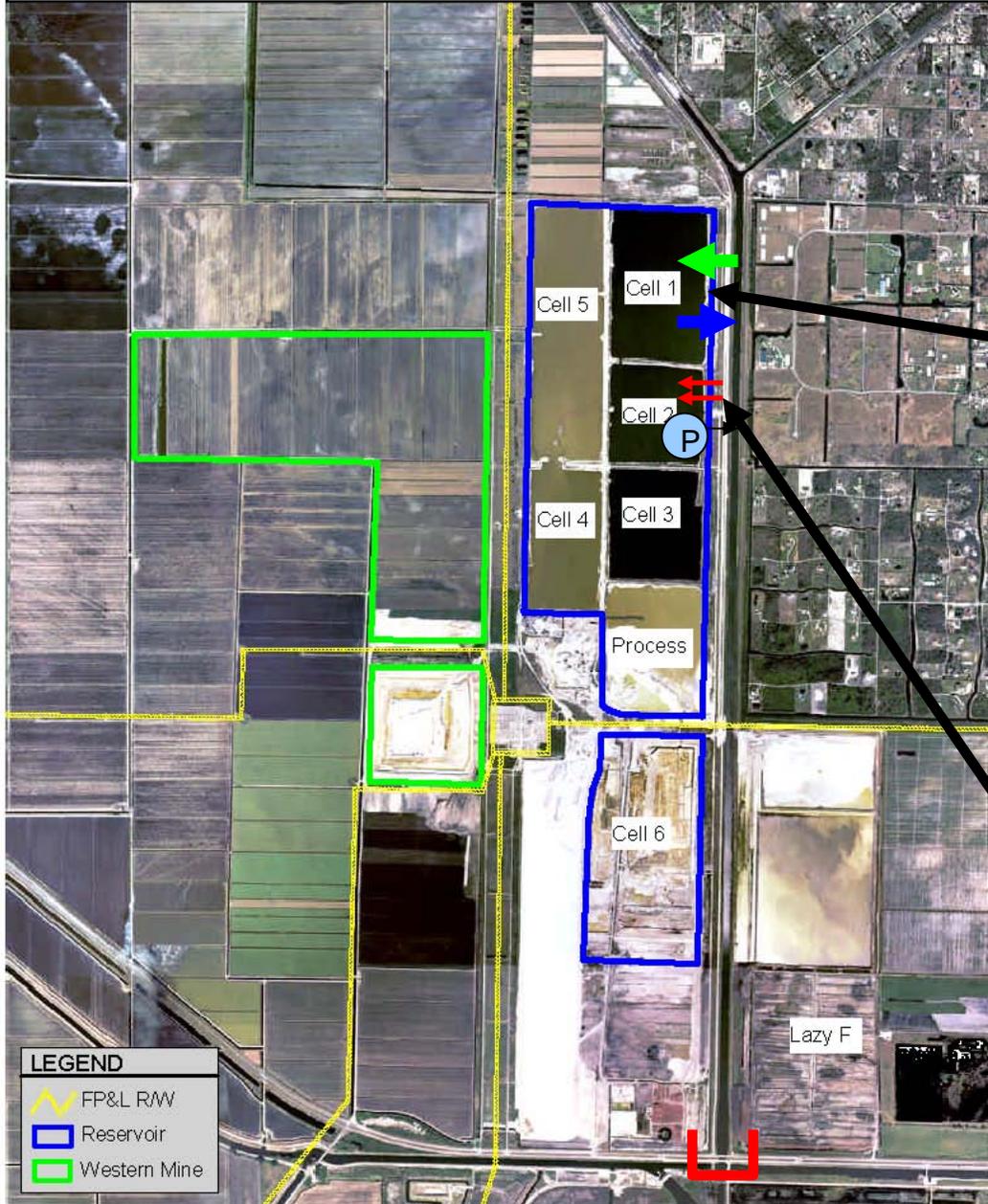
**Inflow: 2 x 72" RCP w/  
control gates: ~600  
cfs**



**Discharge: ~75 cfs  
pump to L-8**

**(Temporary Pumps  
may be used to  
provide an additional  
75 cfs capacity to  
provide a total  
permitted discharge  
pump capacity of 150  
cfs)**

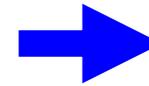
# L-8 Reservoir – Proposed Short Term Conditions (LTP and CERP funding)



## Proposed Short Term Infrastructure:

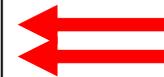


Permanent Inflow Structure (1,500 cfs - 3,000 cfs)

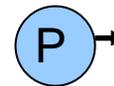


Temporary Portable Pumps (~200-400 cfs)

## Existing Infrastructure:



Inflow: 2 x 72" RCP w/ control gates to cells

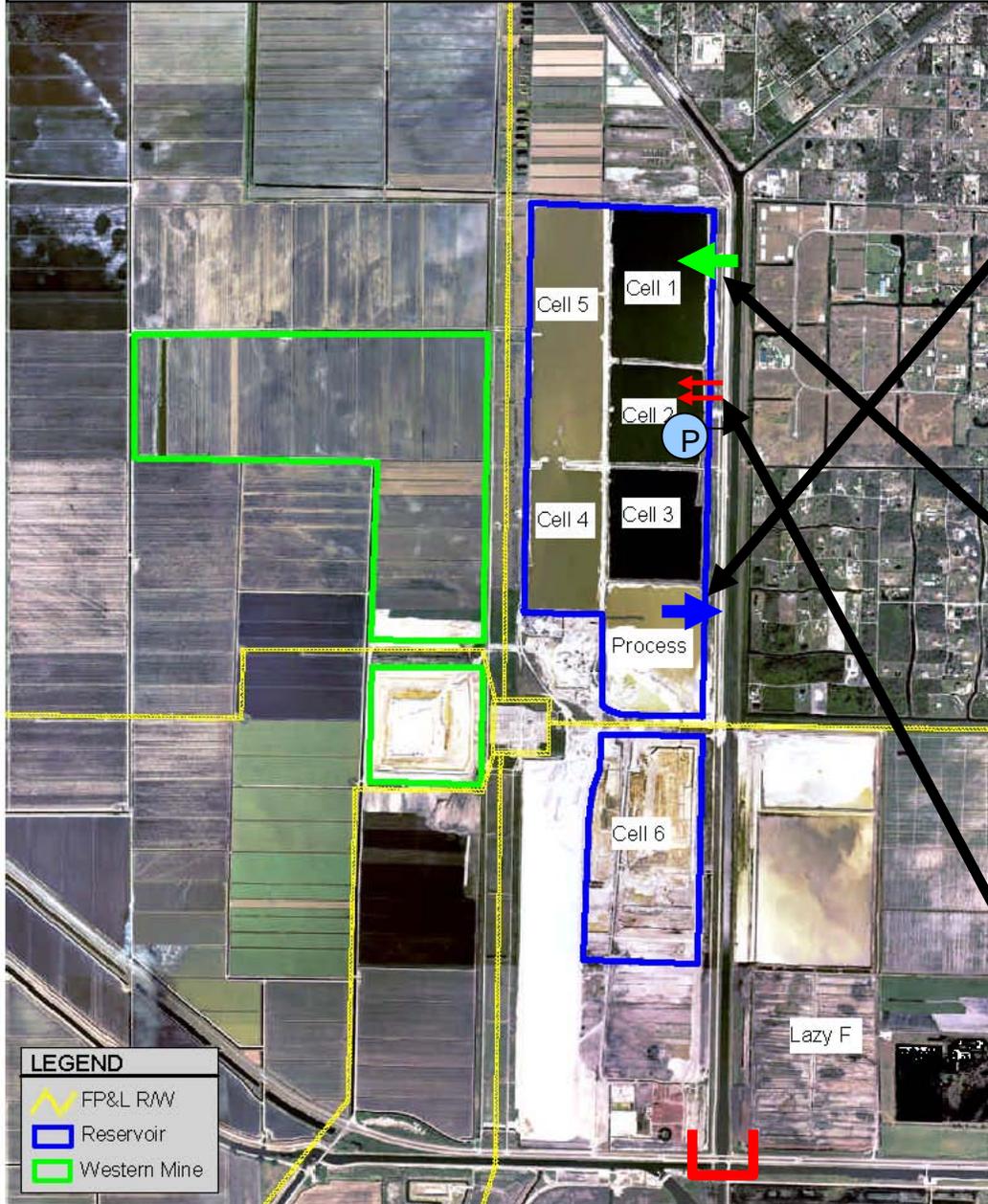


Discharge: ~75 cfs pump to L-8

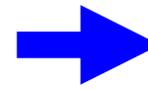
### LEGEND

- FP&L RW
- Reservoir
- Western Mine

# L-8 Reservoir – Proposed Long Term Conditions (CERP funding only)



## Proposed Long Term Infrastructure:



Master Pump Station  
(~450-600 cfs)

## Short Term Infrastructure:



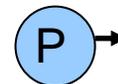
Permanent Inflow  
Structure (1,500 cfs -  
3,000 cfs)

**Note: Portable Pumps to  
be removed upon  
completion of Master  
Pump Station**

## Existing Infrastructure:



Inflow: 2 x 72" RCP w/  
control gates to cells



Discharge: ~75 cfs  
pump to L-8

### LEGEND

- FP&L RW
- Reservoir
- Western Mine

# L-8 Reservoir – LTP Integration

## Schedule:

- Goal: Portable Pumps & Inflow Structure to be ready for operation by December 2007

## Budget (Portable Pump and Design costs only)

- Portable Pumps (installed) - ~ \$1 Million
- Inflow Structure and Master Pump Station Design - ~ \$1.5 Million



# L-8 Reservoir – LTP Integration

## Schedule & Budget (Construction):

- Goal: Inflow Structure to be constructed by December 2007; Master Pump Station to be constructed by December 2009

## Budget (Construction):

- Inflow Structure - ~ \$5 Million
- Master Pump Station - ~ \$20 Million

**NOTE:** Construction funding has not been identified for FY07 and FY08 budgets at this time.



# L-8 Reservoir – Operations

