



Colorado River Aqueduct Replacement of Wastewater Systems

Engineering & Operations Committee
Item 7-1
January 9, 2012

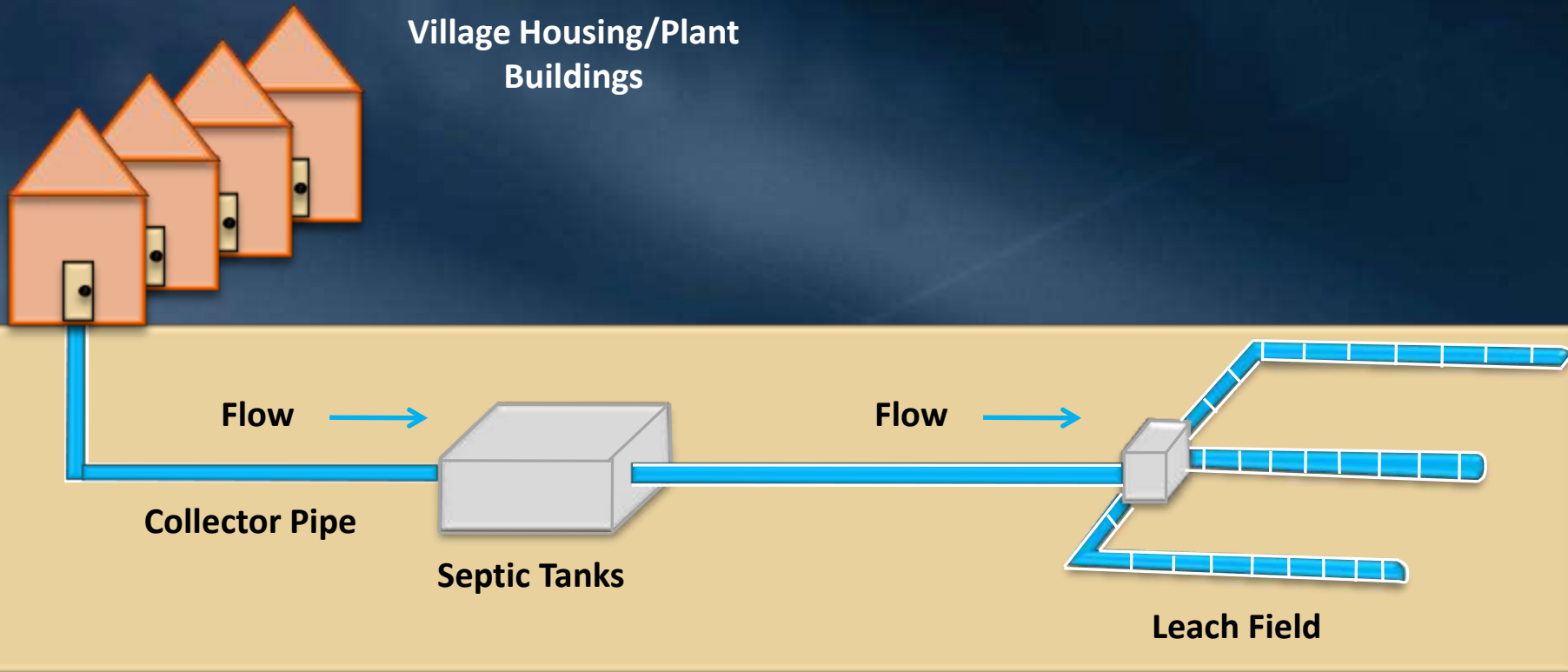
Current Action

- Appropriate \$570,000 in budgeted funds
- Authorize preliminary design to replace wastewater systems at all 5 CRA Pumping Plants

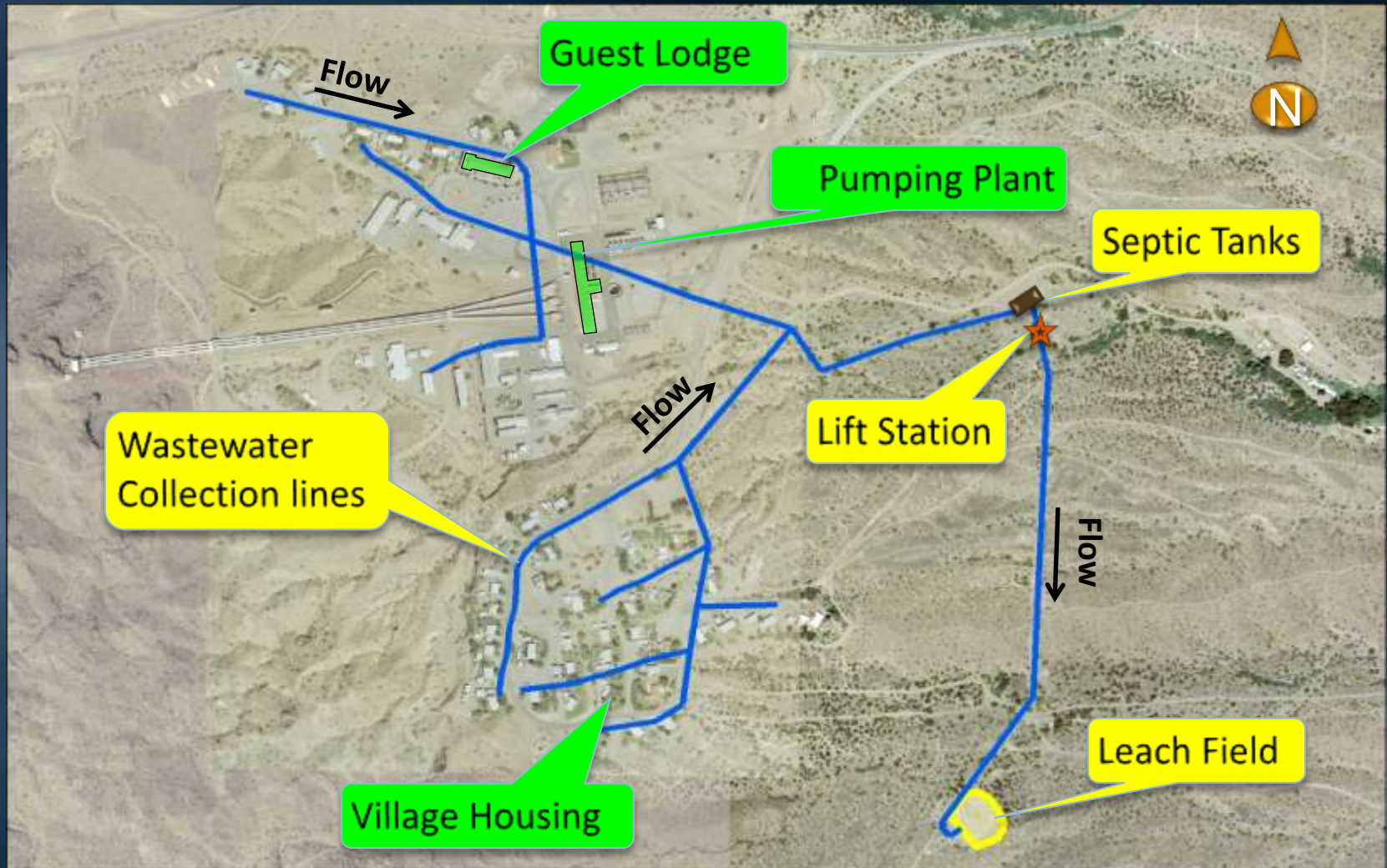
CRA Location Map



On-site Wastewater System



Gene Pumping Plant Wastewater System



Background

- 70-year old systems
- 8.5 miles of collection lines
- 10 septic tanks at all 5 P.P.'s
- Signs of failure
 - Slow-draining
 - Septic tank back-ups
 - Sewage pump failures
- Field Investigations
 - Deteriorated septic tanks
 - Broken & cracked pipes
 - Saturated leach fields
- Staff recommends proceeding with preliminary design



Existing septic tanks at Hinds P.P.

Scope of Work

- Optimization of wastewater systems
- Present & future flowrates based on Metropolitan's master plan for the desert region
- Opportunity for greywater systems
- Geotechnical Investigations
- Permitting and environmental documentation
- Siting studies
- Construction cost estimates



Distribution Box at Hinds P.P.

Scope of Work (cont.)

- MWH Americas

- Preliminary Design of 2 plants
 - Eagle & Hinds Pumping Plant
- Competitively selected (RFQ 927)

- Metropolitan Staff

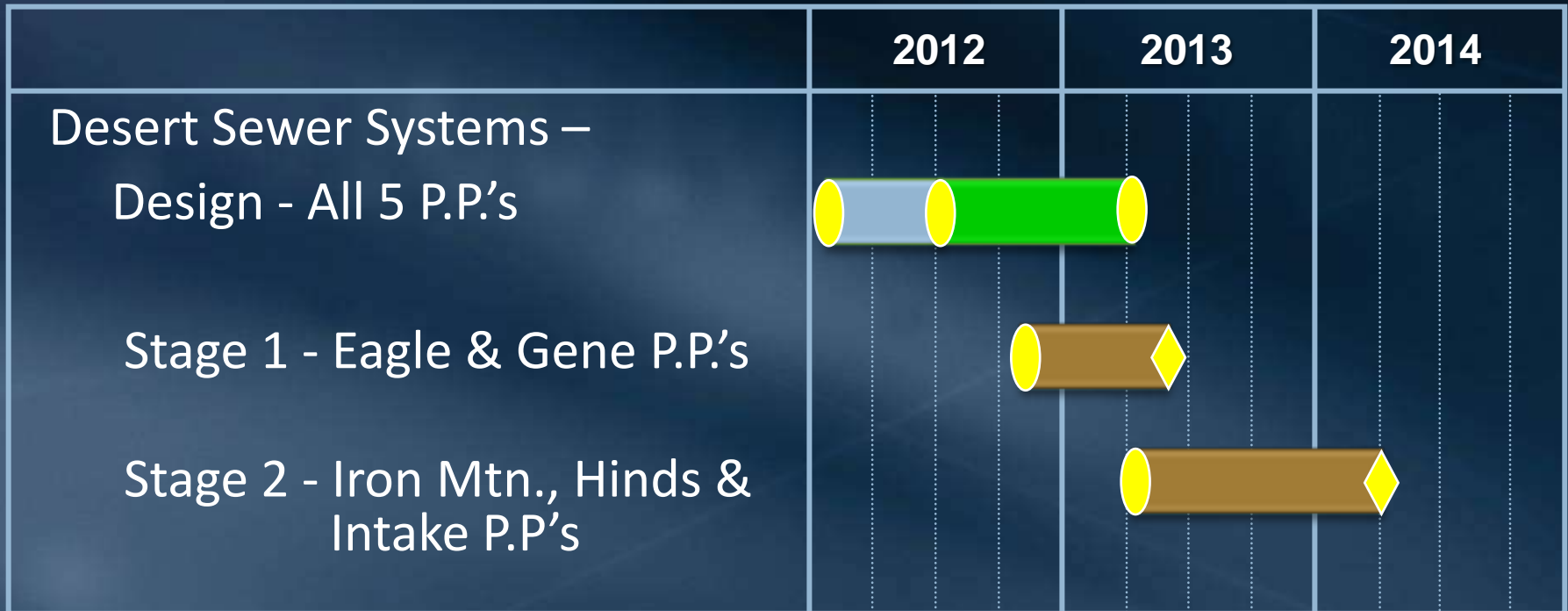
- Preliminary Design of 3 plants
 - Iron Mountain, Gene and Intake Pumping Plants
- Permitting
- Review consultant design

Requested Funds

Labor

Permitting, Project Mgmt.	\$ 88,700
Prelim. design (Met Staff)	
Intake, Gene & Iron Mtn.	276,000
Prelim. design (MWH Americas)	
Eagle & Hinds P.P.	180,000
<u>Remaining Budget</u>	<u>25,300</u>
Total	\$570,000

Schedule



 Prelim. Design

 Construction

 Board Action

 Final Design

 Completion

Board Options

- Option #1

- Adopt CEQA determination
- Appropriate \$570,000 in budgeted funds
- Authorize preliminary design to replace wastewater systems at all 5 CRA Pumping Plants

- Option #2

- Adopt CEQA determination
- Appropriate \$240,000 in budgeted funds
- Authorize preliminary design to replace wastewater systems at Eagle and Gene Pumping Plants

Board Options & Staff Recommendation

- Option #3

Do not authorize preliminary design to replace wastewater systems at all 5 CRA Pumping Plants

- Staff Recommendation

Option #1

