

Supplemental Environmental Impact Statement for the Springfield Supplemental Water Supply Project

August 24, 2016



What is a Supplemental Environmental Impact Statement?



What is a Supplemental Environmental Impact Statement?



Required to support USACE Section 404 permitting

Part of the Federal decision-making process

**Expands on previously prepared Environmental Impact Statement—
Completed in 2000**

Includes updated assessment of project alternatives

Encompasses expanded and updated environmental studies

New opportunity for public/stakeholder input

Project Purpose and Need

Project Purpose:

- ▶ Develop a supplemental water supply for municipal, commercial, and industrial customers

Project Need:

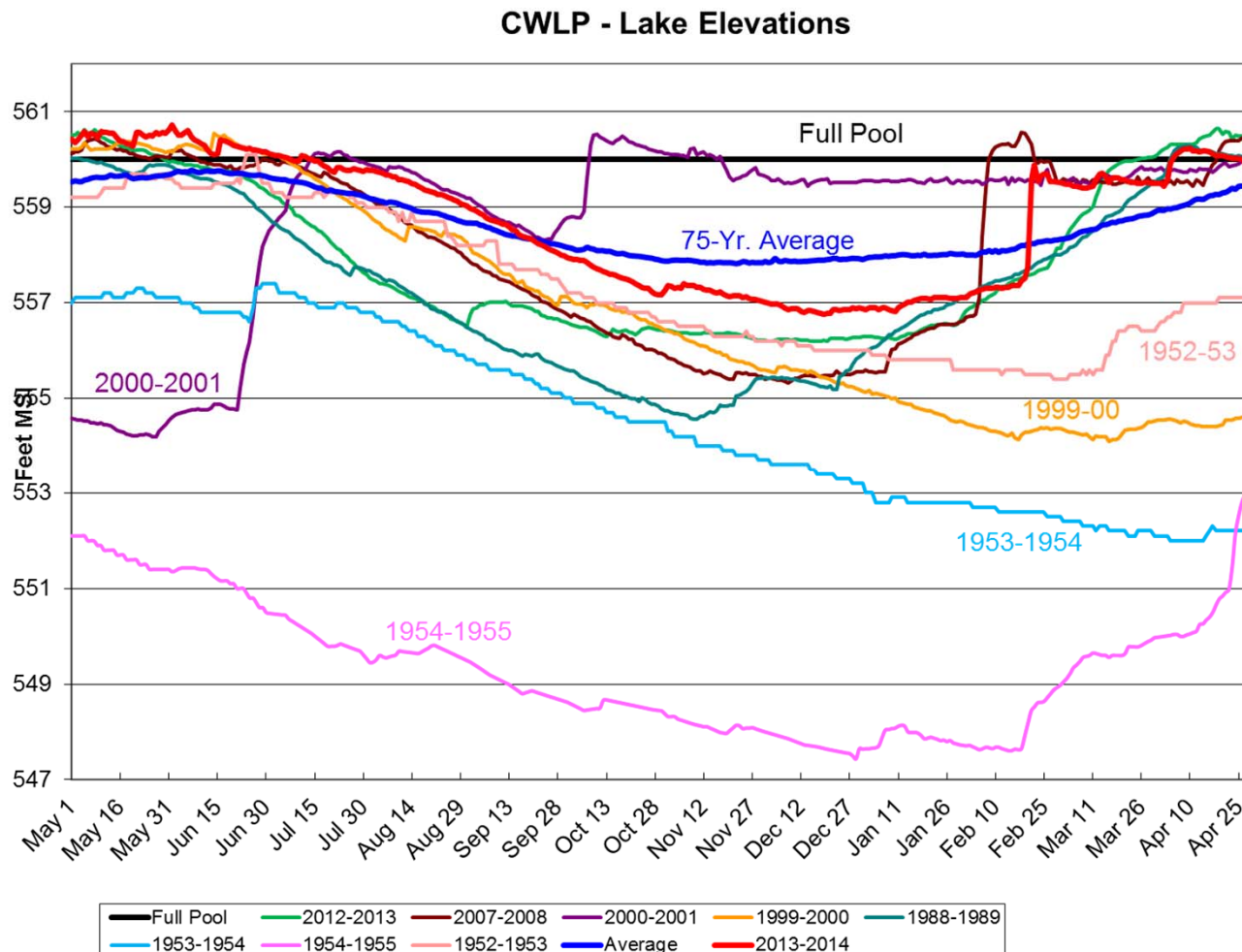
- ▶ Address existing and projected shortages in water supply
- ▶ Meet other regional needs including:
 - ▶ Meet contractual obligations for water supply to other communities
 - ▶ Increased water supply to provide for continuous operation of power plants
 - ▶ Increased water supply to support projected regional economic development
 - ▶ Increased demand for regional outdoor recreational areas that provide additional fishing and hunting opportunities



Lake Springfield: 1950s Drought

Need for Supplemental Water Supply

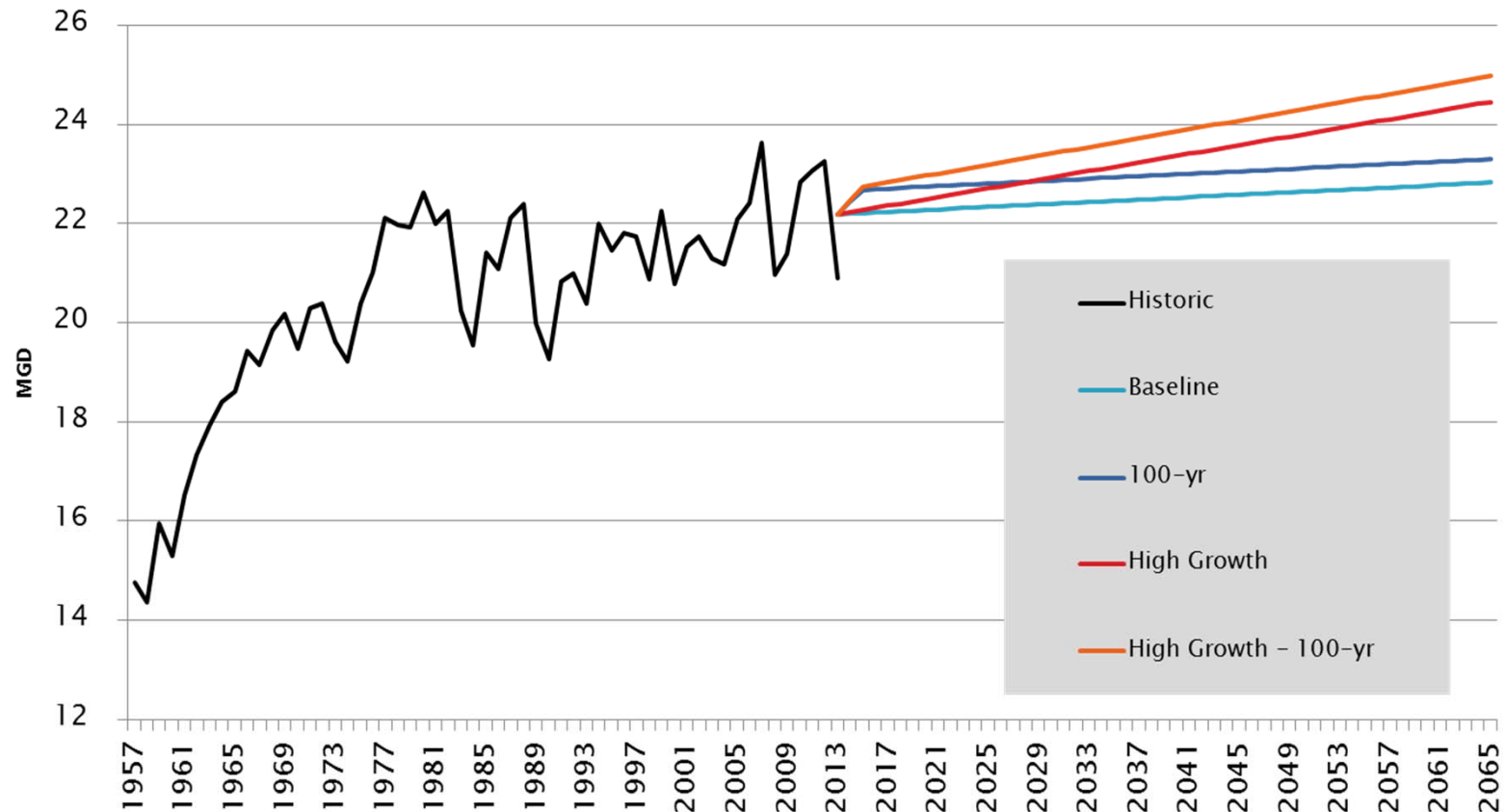
Recorded drought years: 1953-1955, 1988, 1999, 2000, 2012



Need for Supplemental Water Supply

Projected Water Demand

CWLP Forecast Scenarios of Annual Average Demand in MGD



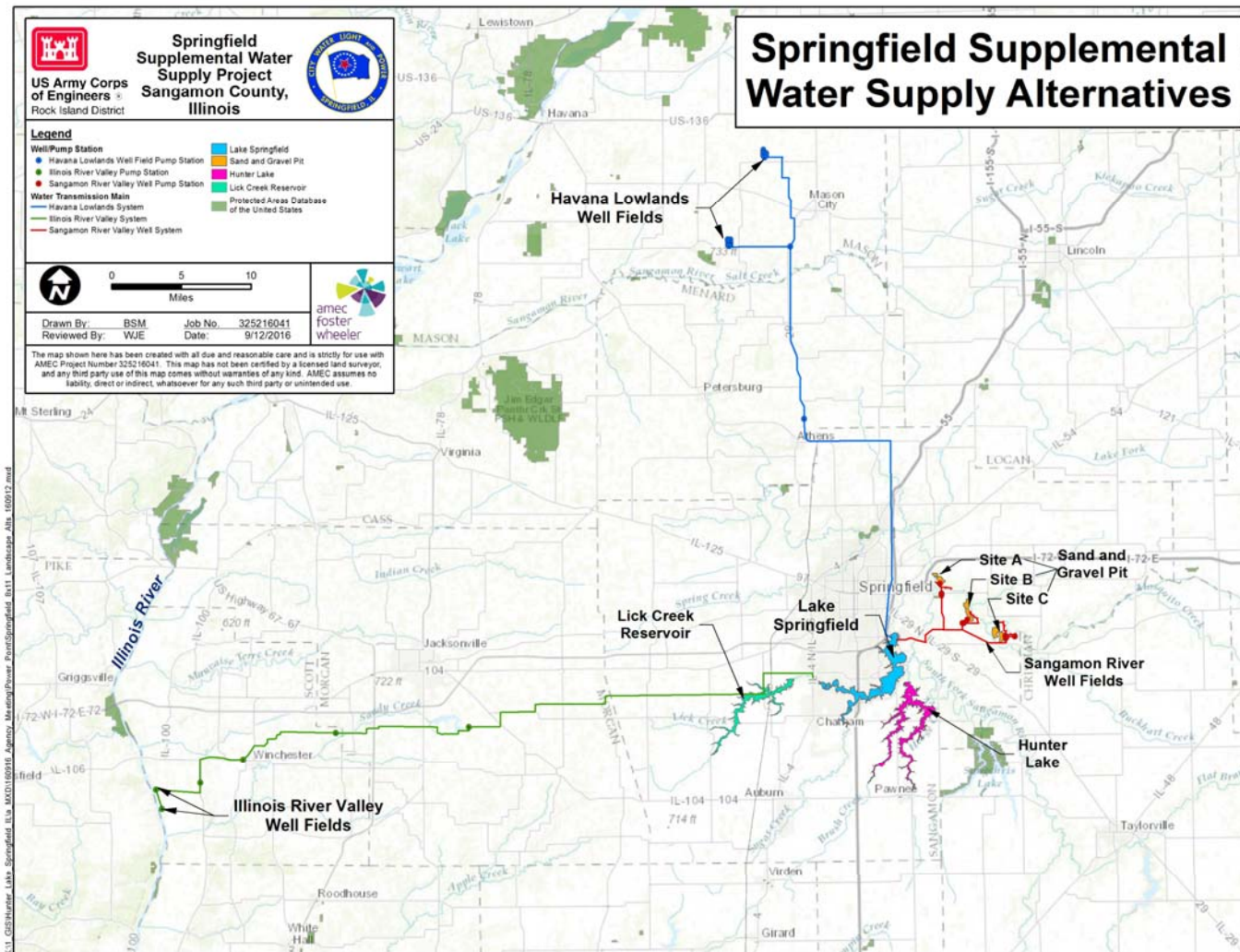
Project Alternatives

The SEIS will review all alternatives previously assessed in the FEIS and will include an analysis of reasonable alternatives consisting of the following:

- ▶ No Action Alternative
- ▶ Development of a new water supply reservoir
- ▶ Development of groundwater well systems with associated pump stations and pipelines
- ▶ Use of other existing surface water reservoirs
- ▶ Dredging of Lake Springfield

(Conservation measures apply to all alternatives, including the No Action)

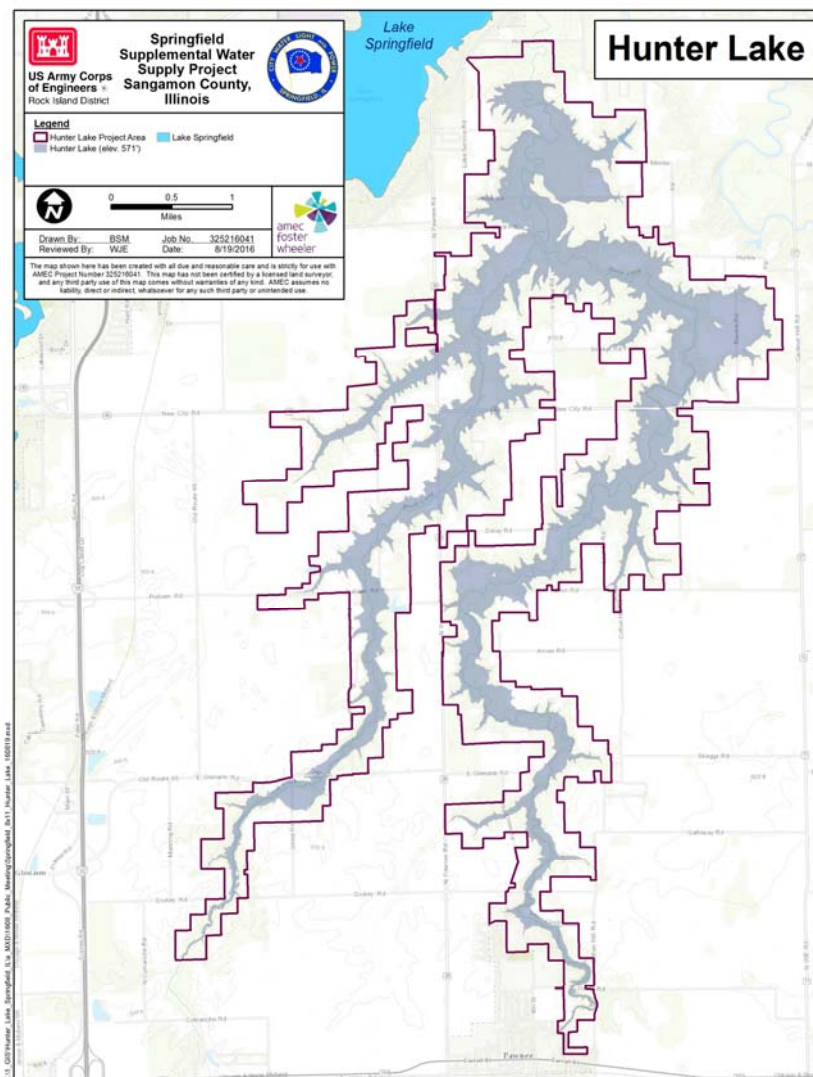
Project Alternatives: Overview



Project Alternatives

Hunter Lake

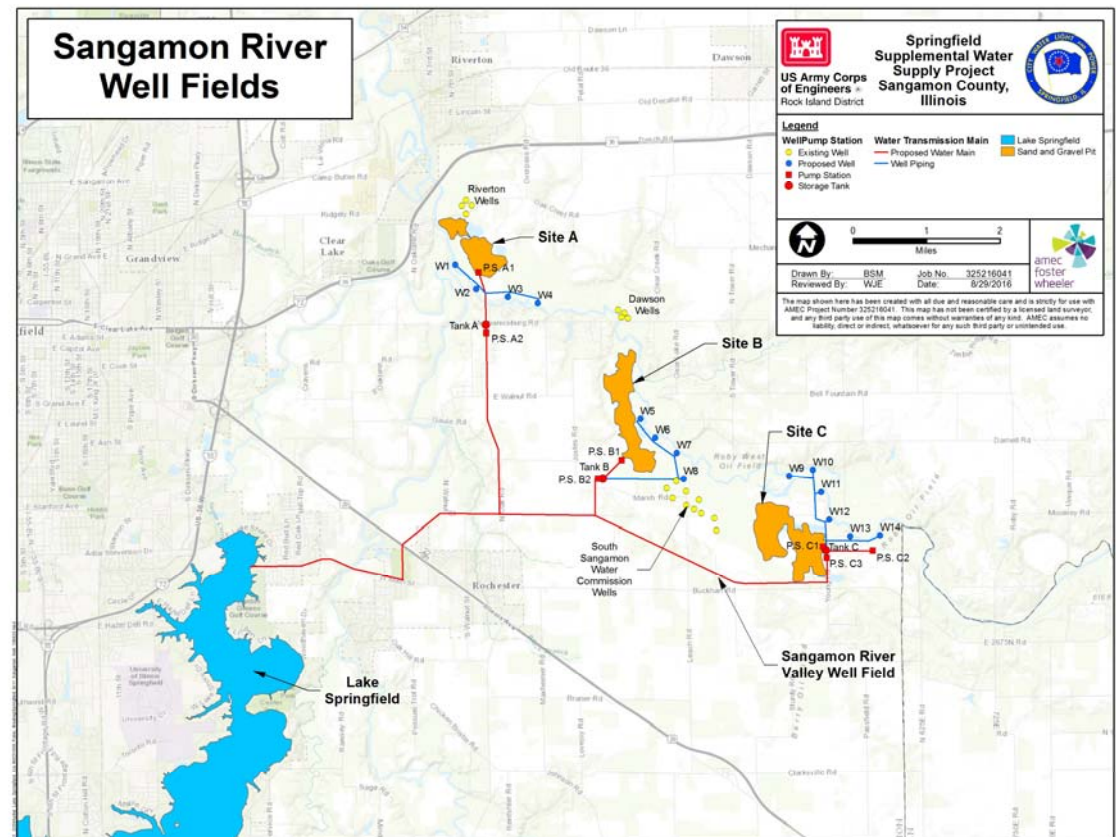
Parameter	Value
Storage Capacity (billion gallons)	15.3
Watershed (Sq. miles)	130
Drought Yield (million gallons/day-MGD)	21.3
Surface Area (Acres)	3,010



Project Alternatives

Sangamon River Well Fields

Parameter	Value
Capacity (MGD)	12
No. Wells	14
Pipeline Miles	75



Project Alternatives

Havana Lowland Well Fields

Option 1:

Parameter	Value
Capacity (MGD)	12
No. Wells	6
Pump Stations and Tanks	2
Pipeline (miles)	38

Option 2:

Parameter	Value
Capacity (MGD)	17.75
No. Wells	10
No Wellfields	2
Pump Stations and Tanks	2
Pipeline (miles)	47



Project Alternatives

Illinois River Well Fields

Option 1	Parameter	Value
	Capacity (MGD)	12
	No. of Collector Wells	1
	Pump Stations and Tanks	4
Option 2	Parameter	Value
	Capacity (MGD)	17.75
	No. Collector Wells	2
	Pump Stations and Tanks	4
	Pipeline (miles)	56
	Parameter	Value
	Capacity (MGD)	17.75
	No. Collector Wells	2
	Pump Stations and Tanks	4
	Pipeline (miles)	58



Parameter	Value
Storage Capacity (billion gallons)	6.5
Watershed (Sq. miles)	110
Drought Yield (MGD)	8.3
Surface Area (Acres)	1,948



What About Water Conservation?

To help balance water supply and demands, the City has been undertaking water conservation measures to reduce water use and/or water loss.

However, even with water conservation measures, the City anticipates a need for a supplemental water supply due to the potential of dry weather conditions and anticipated growth in water demand.



Who is the Project Team?



SEIS Project Team

Lead Federal Agency:

**U.S. Army Corps of Engineers
Rock Island District**

- ▶ NEPA policy and procedure
- ▶ Federal Section 404 permit



**US Army Corps
of Engineers®**
Rock Island District

Project Sponsor:

**City of Springfield
City Water Light and Power**

- ▶ Project Owner and Sponsor



Third Party NEPA Consultant:

**Amec Foster Wheeler
Third Party SEIS Consultant**

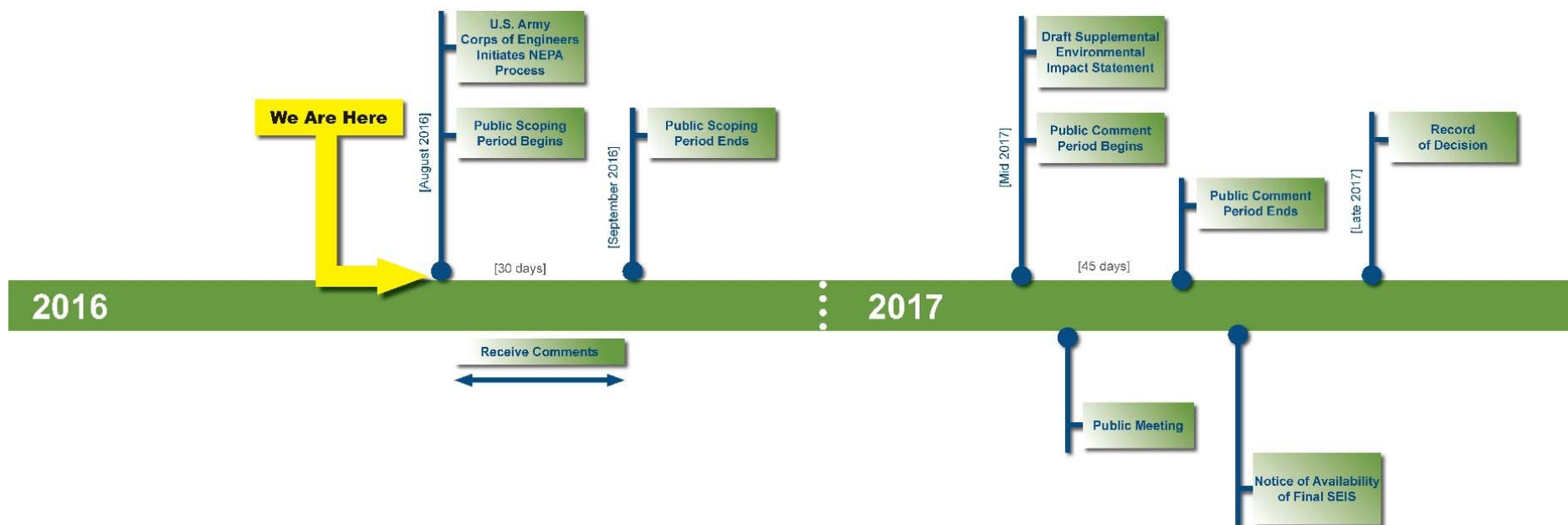
- ▶ Prepare independent environmental impact analysis of project alternatives



Project Schedule



SEIS Project Timeline



Phases of the SEIS Project

Phase I – NEPA Scoping and Preliminary Coordination

Phase II – Alternative Analysis

Phase III – Draft Supplemental EIS

Phase IV – Preparation of Final SEIS



Key Objectives of Phase I

- ▶ Establish Project Purpose and Need
- ▶ Perform Alternative Screening Analysis
- ▶ Obtain input from the public and other stakeholders
- ▶ Initiate coordination with resource and permitting agencies

SEIS Schedule Milestones

- ▶ **Notice of Intent.** The publication of the Notice of Intent (NOI) in the Federal Register initiates the SEIS NEPA process (August 2016)
- ▶ **Public Scoping Period.** Opportunity for interested parties to provide comments on SEIS scope and issues (August to September 2016)
- ▶ **Prepare Draft SEIS.** Review alternatives, conduct studies and develop Draft SEIS (August 2016 to Mid 2017)
- ▶ **Notice of Availability of Draft SEIS.** Notify interested parties about availability of Draft SEIS and provides opportunity for submission of comments (Mid 2017)
- ▶ **Public Comment Period.** Opportunity for interested parties to provide comments on Draft SEIS (Mid 2017)
- ▶ **Public Meeting.** Open house public meeting provides an opportunity for public to discuss Draft SEIS with Project Team and provide comments (Mid 2017)
- ▶ **Revise Draft SEIS.** Revise Draft SEIS based on comments from the public and agencies (Mid to Late 2017)
- ▶ **Notice of Availability of Final SEIS.** Notice of availability of Final SEIS will be published and copy will be added to City website (Late 2017)
- ▶ **Record of Decision (ROD).** Corps will make final determination concerning Supplemental Springfield Water Supply Project (Late 2017)

How can you help?



How can you help?

Provide comments on the proposed project

Visit CWLP project website: <http://supplementalwater.cwlp.com>

Review project documents (Draft SEIS)

Attend public meeting on Draft SEIS

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