

Blue Lake Wastewater Treatment Plant Improvements Project

ABOUT THE PROJECT

MCES is preparing a Facility Plan for improvements to its Blue Lake Wastewater Treatment Plant in Shakopee. The plan will outline plant improvements needed to serve anticipated growth in the southwest metropolitan area through 2050 and meet new water quality standards for phosphorus.

PROJECT BENEFITS



Service Reliability



Asset Preservation



Efficiency and Safety



Protect the environment

PROJECT NEED



Additional Blue Lake liquids treatment facilities are needed to meet future environmental regulations.

The MPCA established River Eutrophication Standard TMDL for the Minnesota River which will require the Blue Lake Plant to meet a 0.3 mg/l total effluent (phosphorous).



The Blue Lake WWTP needs to expand liquids treatment facilities to serve growth in the service area.

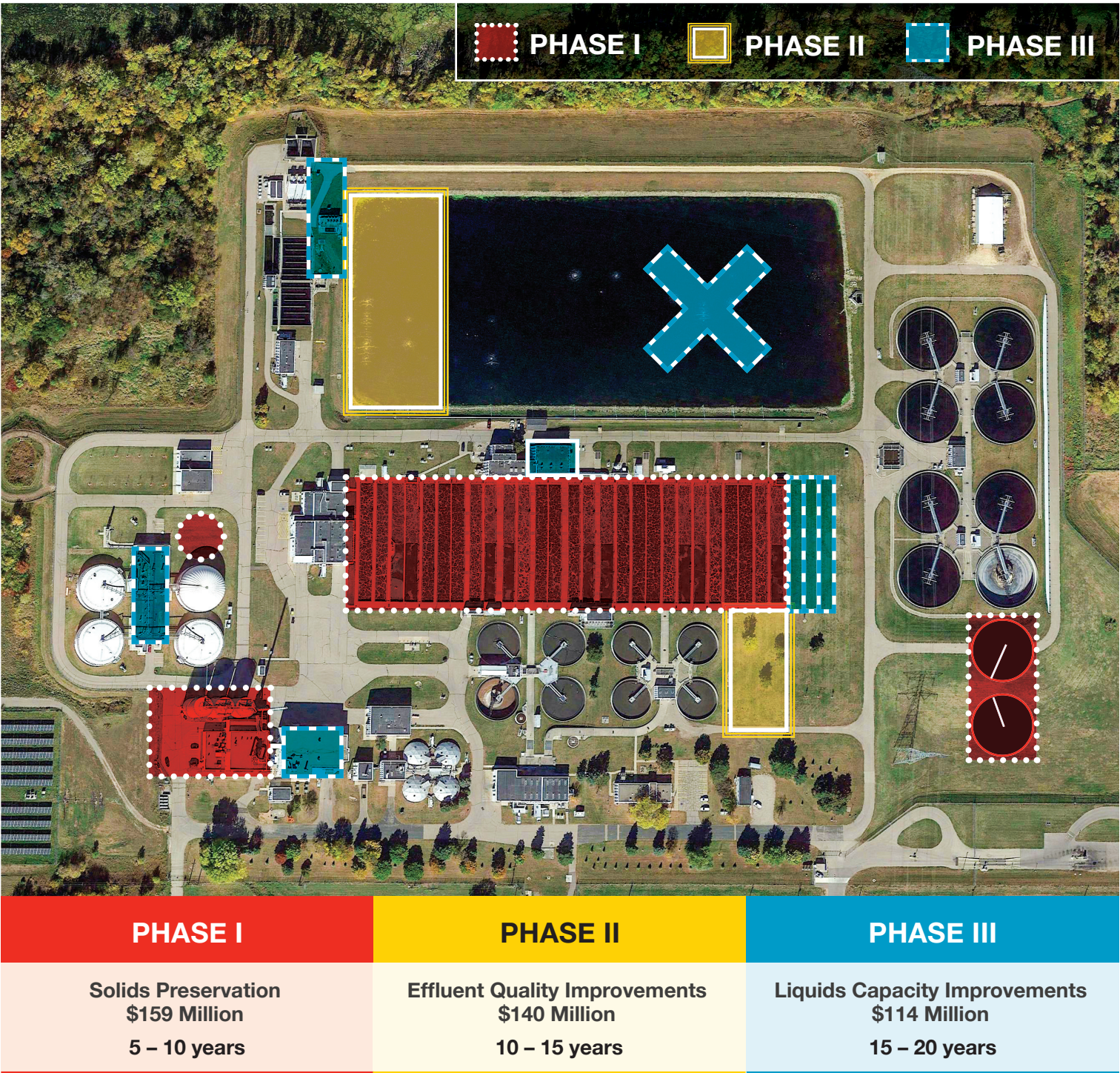
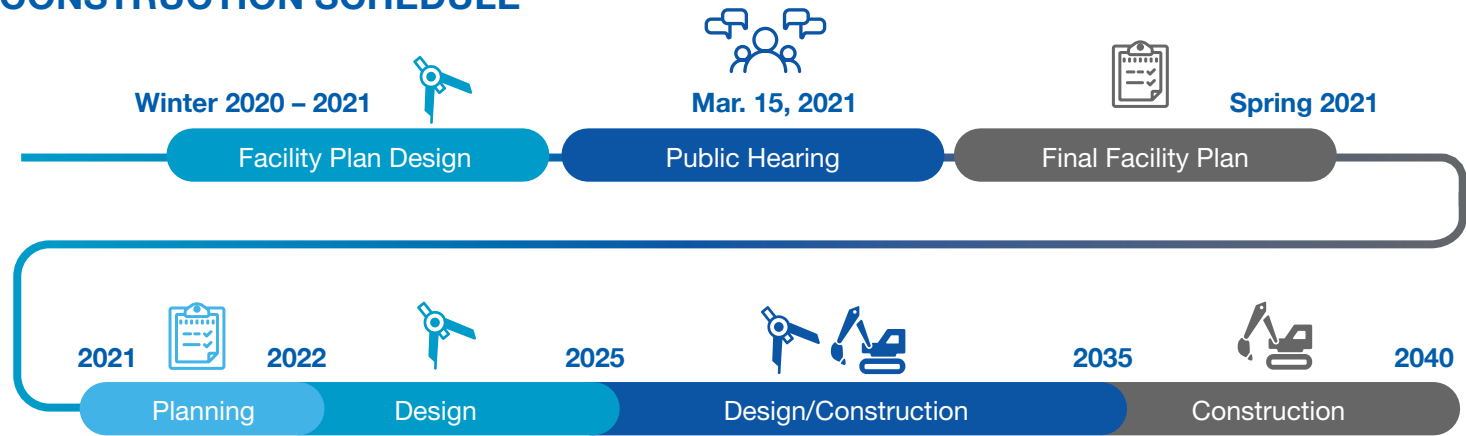
The population in the Blue Lake Service area is expected to increase by approximately 50,000 by 2050.



Blue Lake WWTP needs to expand solids treatment to renew existing facilities.

The Final Stabilization Facility (FSF) is near the end of service life at over 20 years old and needs to be renewed.

CONSTRUCTION SCHEDULE



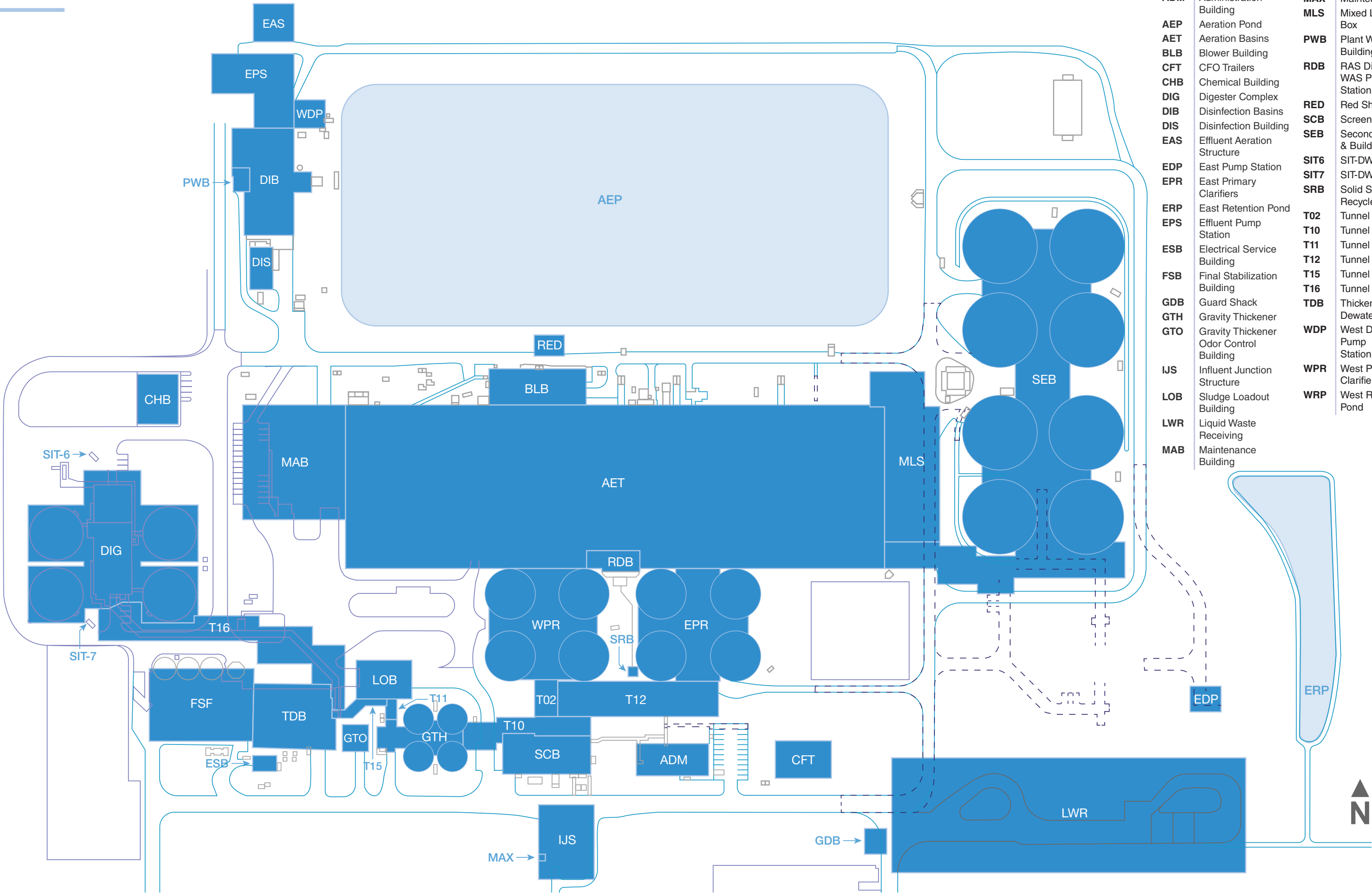
CONTACT US:

Public Comment Line:
651.602.1500
comment@bluelakewwtp.com

MetroCouncil.org/SewerConstruction/
BlueLakeWWTP

SITE PLAN

WRP



Code	Description		
ADM	Administration Building	MAX	Maintenance Box
AEP	Aeration Pond	MLS	Mixed Liquor Splitter Box
AET	Aeration Basins	PWB	Plant Water Pump Building
BLB	Blower Building	RDB	RAS Distribution/WAS Pumping Station
CFT	CFO Trailers	RED	Red Shed
CHB	Chemical Building	SCB	Screenings Building
DIG	Digester Complex	SEB	Secondary Clarifiers & Building
DIB	Disinfection Basins	SIT6	SIT-DW-DW6
DIS	Disinfection Building	SIT7	SIT-DW-DW7
EAS	Effluent Aeration Structure	SRB	Solid Stream Recycle Box
EDP	East Pump Station	T02	Tunnel 2
EPR	East Primary Clarifiers	T10	Tunnel 10
ERP	East Retention Pond	T11	Tunnel 11
EPS	Effluent Pump Station	T12	Tunnel 12
ESB	Electrical Service Building	T15	Tunnel 15
FSB	Final Stabilization Building	T16	Tunnel 16
GDB	Guard Shack	TDB	Thickening & Dewatering Building
GTH	Gravity Thickener	WDP	West Drainage Pump Station
GTO	Gravity Thickener Odor Control Building	WPR	West Primary Clarifiers
IJS	Influent Junction Structure	WRP	West Retention Pond
LOB	Sludge Loadout Building		
LWR	Liquid Waste Receiving		
MAB	Maintenance Building		