

SD Phase 1 Projects & Construction Packages

Scripps Ranch and Miramar

University City and Eastgate Mall

Bay Park, Clairemont, and Morena

Bay Park, Clairemont, and Morena

- Morena Pump Station
- Morena Pipelines Southern Alignment
- Morena Pipelines Middle Alignment

University City and Eastgate Mall

- Morena Pipelines Northern Alignment & Tunnels
- North City Pure Water Facility & Pump Station
- North City Water Reclamation Plant Expansion
- North City Water Reclamation Plant Flow Equalization Basin
- Metro Biosolids Center Improvements

Scripps Ranch and Miramar

- North City Pure Water Pipeline,
- Dechlorination Facility & Subaqueous Pipeline
- Miramar Reservoir Pump Station Improvements

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Local **residents**, community **groups**, environmental **organizations** and local **businesses** support the **Pure Water** Program.

Want to Know More?

Visit virtualtour.purewatersd.org to tour the Pure Water Demonstration Facility.



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Pure Water San Diego | Phase 1 Projects



What is Pure Water San Diego?

Pure Water San Diego is the City of San Diego's (City) program that will provide nearly one-half of San Diego's water supply locally by 2035. The Pure Water Program will include a system of treatment facilities, pump stations and pipelines that will be constructed in multiple phases and will:

- Use proven technology to clean recycled water to produce safe, high-quality drinking water
- Provide a reliable, sustainable, water supply
- Offer a cost-effective investment for San Diego's water needs



**mgd = million gallons per day*

What does Phase 1 Include?

The Pure Water Program is the largest integrated infrastructure program the City of San Diego has ever undertaken. Phase 1 - North City is comprised of several projects that will deliver 30 million gallons per day (mgd) of purified water for San Diego. The purified water will be piped to the Miramar Reservoir for storage and then will be treated again at the Miramar Drinking Water Treatment Plant before it is distributed to the public. The projects under construction as part of Phase 1 include the Morena Pump Station, Morena Pipelines Southern Alignment, Morena Pipelines Middle Alignment, Morena Pipelines Northern Alignment, North City Water Reclamation Plant Expansion, and Flow Equalization Basin, the North City Pure Water Facility and Pump Station, the North City Pure Water Pipeline and Metropolitan Biosolids Center Improvements. A detailed map of the project locations can be viewed at phase1.purewatersd.org.



Phase 1 - North City Projects

Morena Pump Station

The Morena Pump Station will be constructed at the southwest corner of Sherman Street and Custer Street off Morena Boulevard, just north of Interstate 8 and east of Interstate 5. When completed, the pump station will divert 32 million gallons of per day (mgd) of wastewater to the North City facilities for purification.

Morena Pipelines Southern Alignment

The Morena Pipelines Southern Alignment will begin at the Morena Pump Station at Sherman Street and Custer Street and continue north on Morena Boulevard, Milton Street, Chicago Street and Denver Street to Clairemont Drive. This project will include portions of two 10.5-mile pipelines: one 48-inch wastewater pipeline, which will carry wastewater north to the North City facilities for purification, and one 30-inch brine line that will carry the biproduct from water purification south to the Point Loma Wastewater Treatment Plant.

Morena Pipelines Middle Alignment

The Morena Pipelines Middle Alignment will connect the Southern Alignment in Bay Park and the Northern Alignment and Tunnels in University City. The Middle Alignment begins on Clairemont Drive at Iroquois Avenue and continues north to Genesee Avenue between Appleton Street and State Route 52. As it is connected to the Southern Alignment, the Middle Alignment will continue to carry wastewater north to the North City facilities for purification and the biproduct from water purification south to the Point Loma Wastewater Treatment Plant.

Morena Pipelines Northern Alignment and Tunnels

The Morena Northern Pipelines and Tunnels will connect to the Morena Pipelines Middle Alignment to the south and the North City Water Reclamation Plant to the north. This project begins on Genesee Avenue between Appleton Street and state Route 52 and continues on Genesee Avenue, Nobel Drive, Towne Centre Drive and Executive Drive. Tunneling will be completed at Genesee Avenue and SR-52, at Genesee Avenue and Rose Canyon, and under Interstate 805. It will also carry wastewater north to the North City facilities for purification and the biproduct from water purification south to the Point Loma Wastewater Treatment Plant.

North City Water Reclamation Plant (NCWRP) Expansion & Flow Equalization Basin

This project will increase the amount of recycled water the NCWRP produces. The NCWRP is located on Eastgate Mall and treats wastewater to recycled water standards for irrigation and industrial uses. The plant capacity will increase from 30 mgd to 52 mgd to continue to meet non-potable water demands, as well as supply to the NCPWF. A new pump station located at the NCWRP will convey up to 42 mgd of recycled water to the new NCPWF across the street for further purification.

NCWRP Flow Equalization Basin

As part of the North City Water Reclamation Plant (NCWRP) expansion, a new Flow Equalization Basin will be constructed to expand the capacity of the primary effluent storage. The Flow Equalization Basin will expand the capacity of the primary effluent storage and it will regulate the peak wastewater flow rates in order to balance flow rates to the plant treatment processes.

North City Pure Water Facility (NCPWF) and Pump Station

A new Pure Water Facility will be built on Eastgate Mall across the street from the existing NCWRP to clean the recycled water further to produce 30 mgd of safe, high-quality water that meets all state and federal drinking water standards. The NCPWF will use the proven five-step water purification process of ozonation, biological activated carbon filters, membrane filtration, reverse osmosis, and ultraviolet disinfection with advanced oxidation. Upon completion, the pump station will convey purified water to the Miramar Reservoir for storage.

North City Pure Water Pipeline

This project will transport purified water produced at the NCPWF to Miramar Reservoir. An 8.4 mile long pipeline will convey 30 mgd of purified water and will start on Eastgate Mall, follow Miramar Road, and continue through Scripps Ranch and end in the Miramar Reservoir for storage.

Miramar Reservoir Pump Station Improvements

Operational improvements associated with the treatment of purified water will be made to the Miramar Pump Station. The Miramar Pump Station will convey 30 mgd of purified water to Miramar Reservoir.

Metropolitan Biosolids Center (MBC) Improvements

MBC is the City's regional biosolids facility that receives and processes solids from both the NCWRP and the Point Loma Wastewater Treatment Plant. To accommodate the increase in flows and loadings that will result from the NCWRP expansion, this project involves upgrades at MBC including equipment replacements and improvements.

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