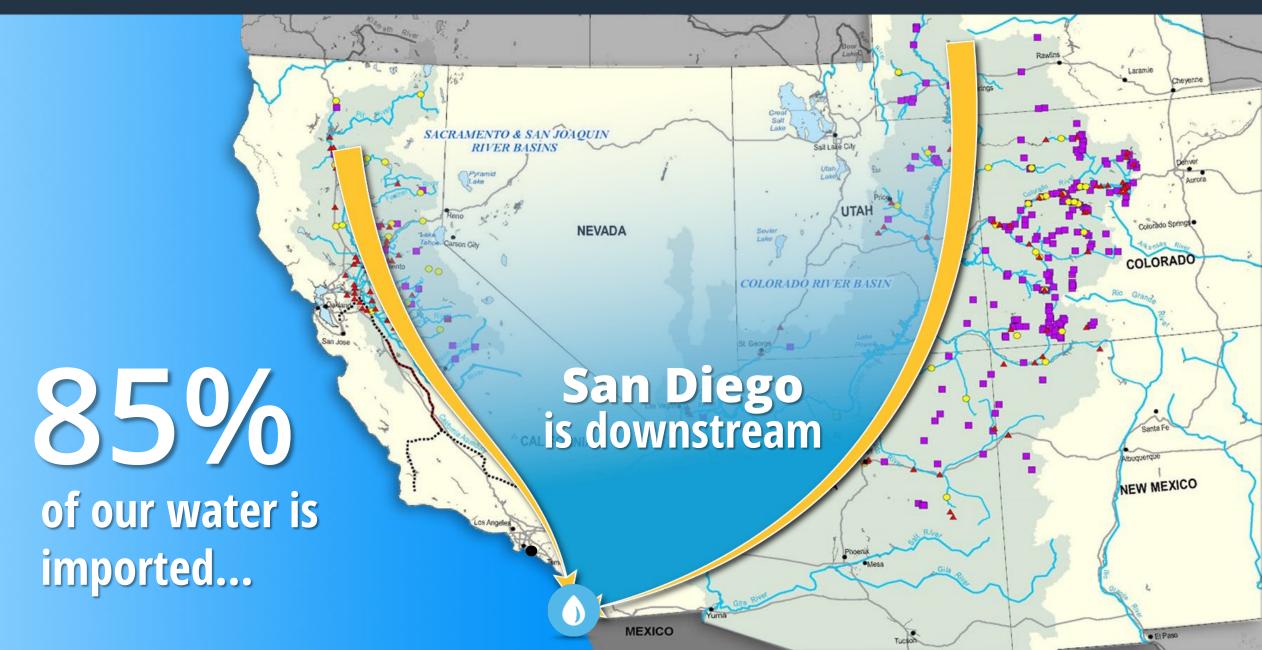






# **San Diego's Water Supply**





# We Face Numerous Water Challenges



Limited local & imported supplies



**Population growth** 



**Bay Delta constraints** 



Natural disaster risk



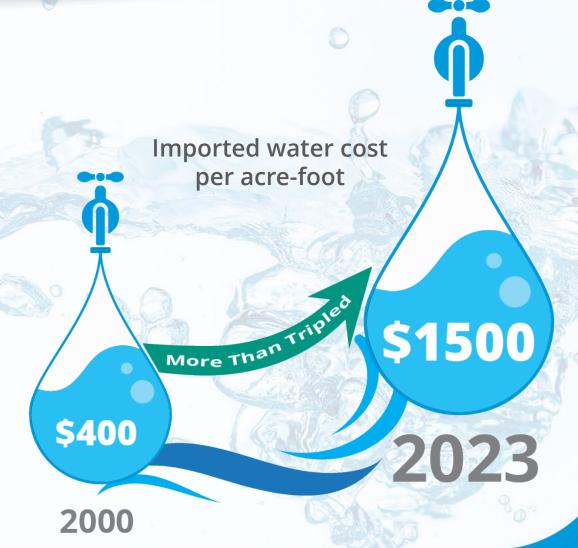
Rising imported water costs



**Recurring drought** 



**Climate Change** 





# Multi-faceted Approach



- ConservationDesalination
- Groundwater **Development**
- Recycled Water
- Pure Water **Program**



# What is Pure Water San Diego?

### **Pure Water will:**

Provide nearly 1/2 of San Diego's water supply by



Provide a reliable, sustainable water supply



Produce safe, high-quality drinking water



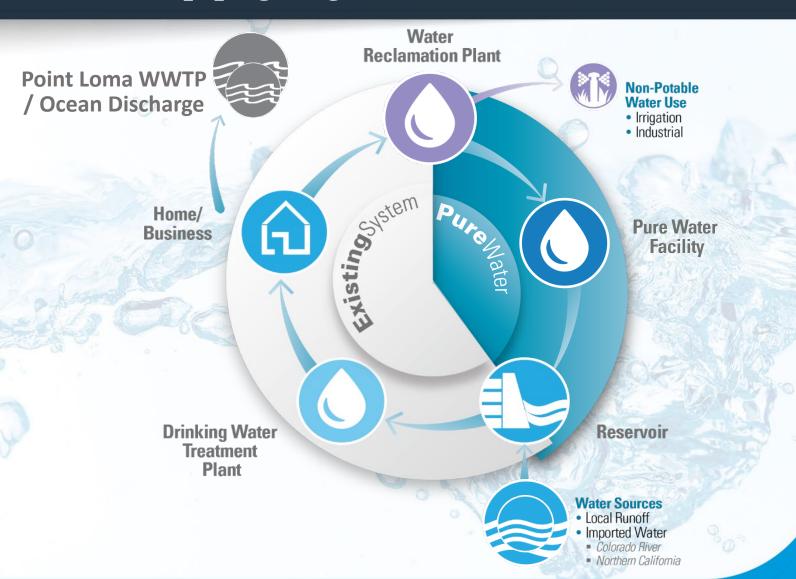
Offer a cost-effective investment for San Diego's water needs



# San Diego's Water Supply System

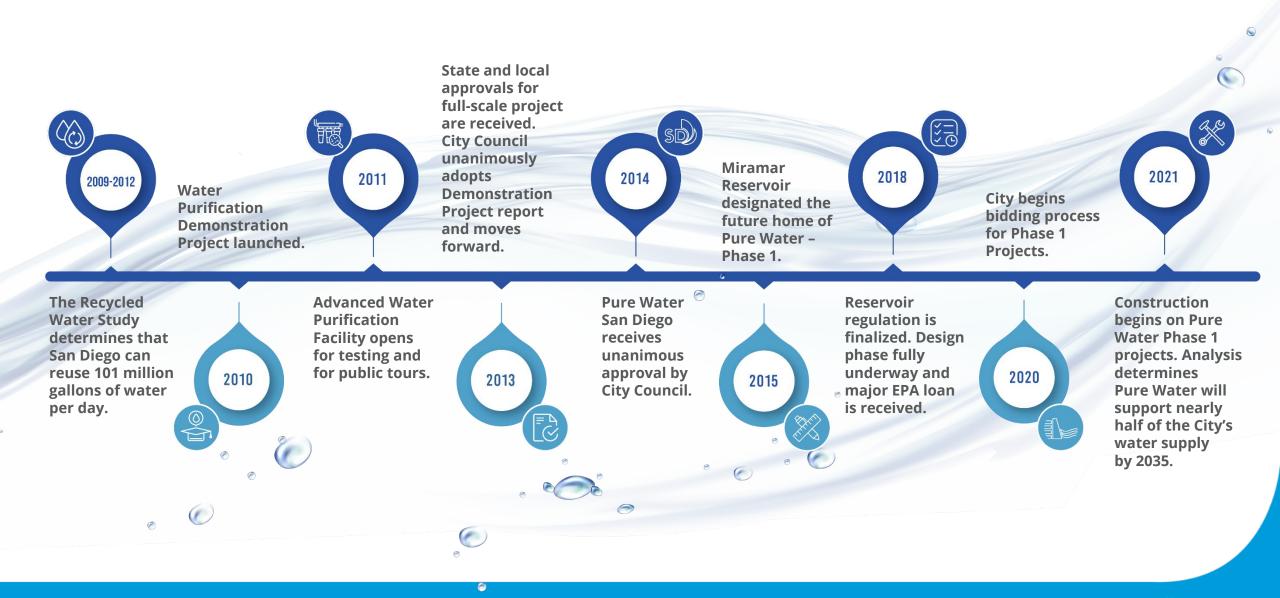
**Existing System...**Primarily a
Single-Use System

Pure Water... **Completes Our Water Cycle** 





# Pure Water San Diego Potable Reuse Timeline



# Pure Water will produce nearly

of your water locally

### Phase 2

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray





### **Pure Water Runs a Successful Demonstration Facility**





More than 50,000 lab tests: **Met all standards** 





# Demonstration Facility Virtual Tour

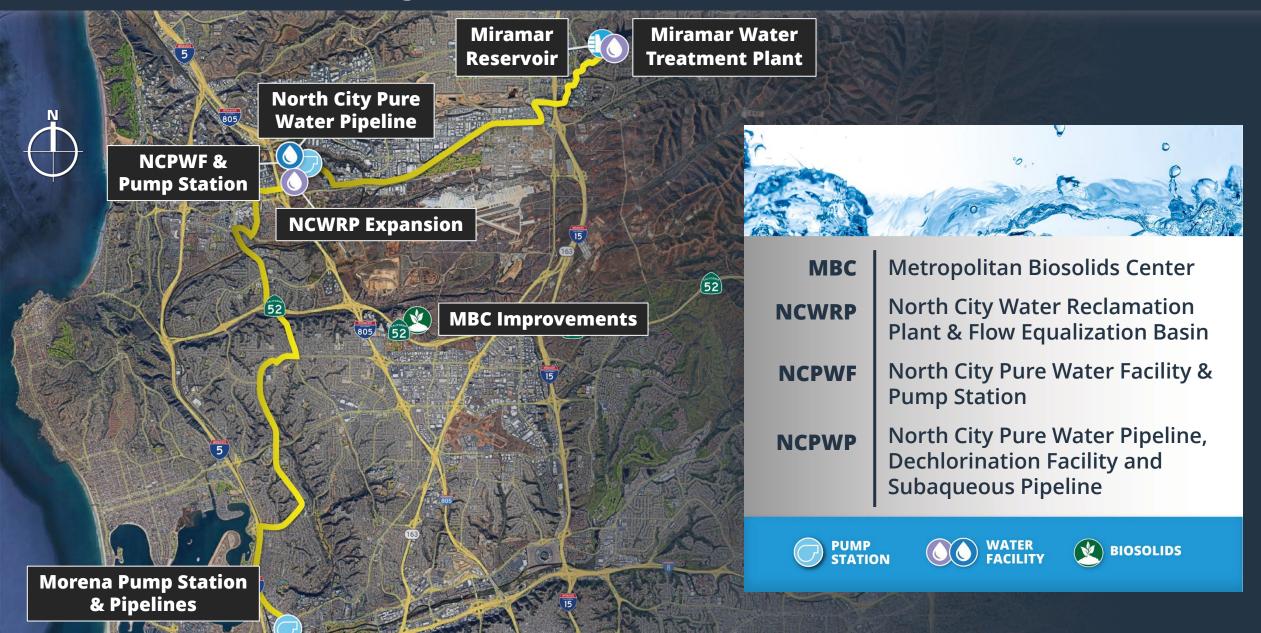
Learn all about the five-step process from members of the Pure Water team by viewing the Pure Water Virtual Tour at one of the links below.

- virtualtour.purewatersd.org
- YouTube.com/PureWaterSD

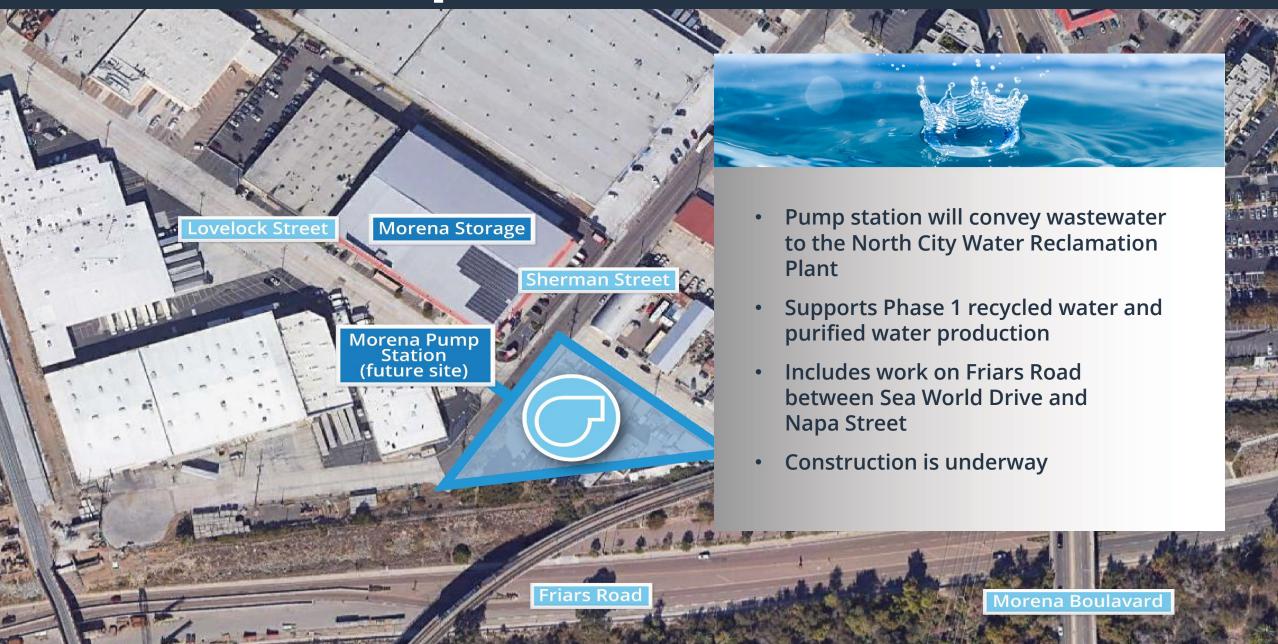


City of San Diego Pure Water Demonstration Facility Virtual Tour

# **Phase 1 Projects**



# Morena Pump Station



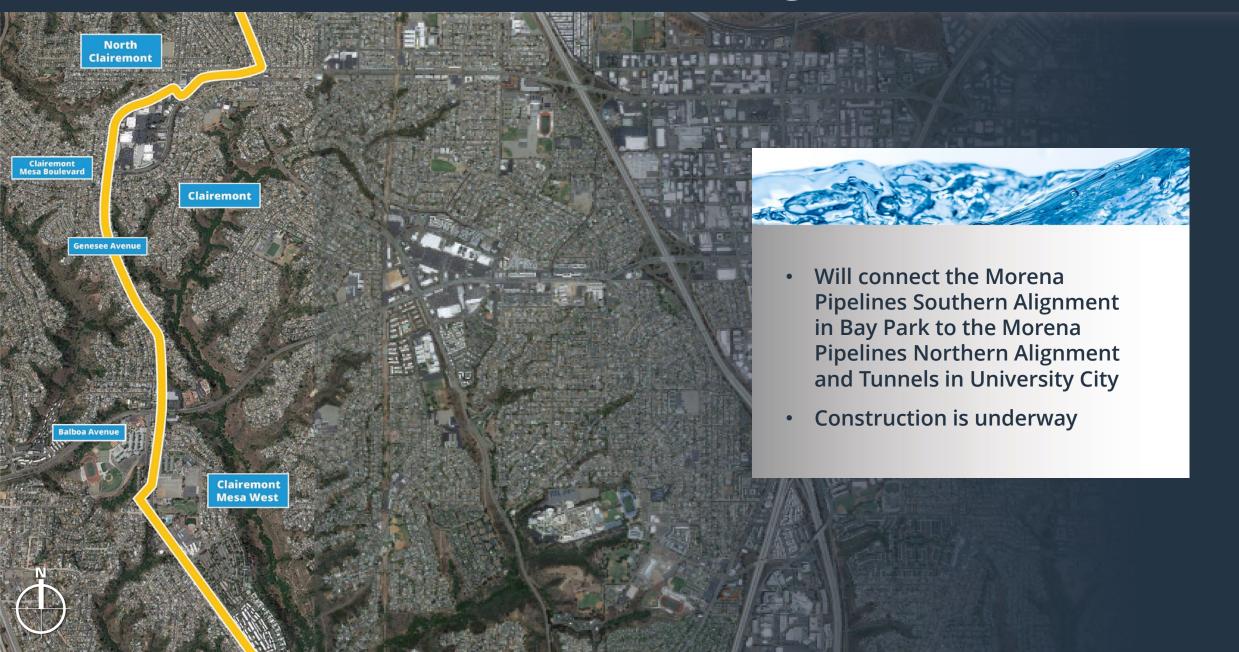


# Morena Southern/Middle Alignment



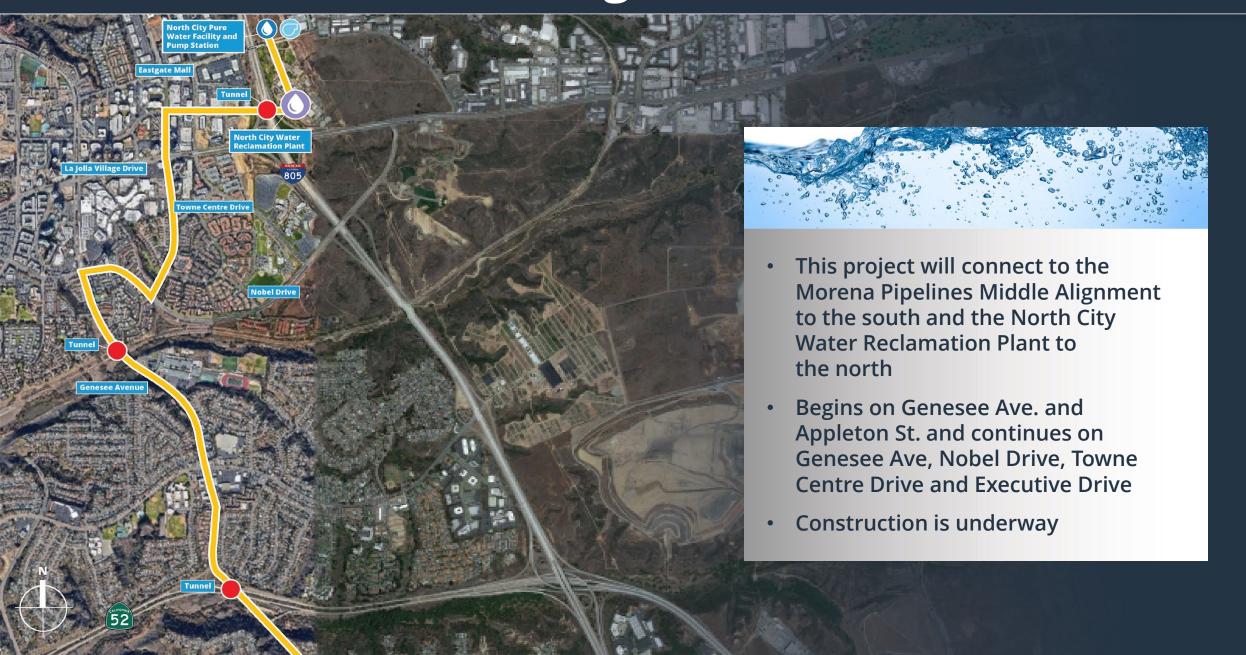


# Morena Southern/Middle Alignment



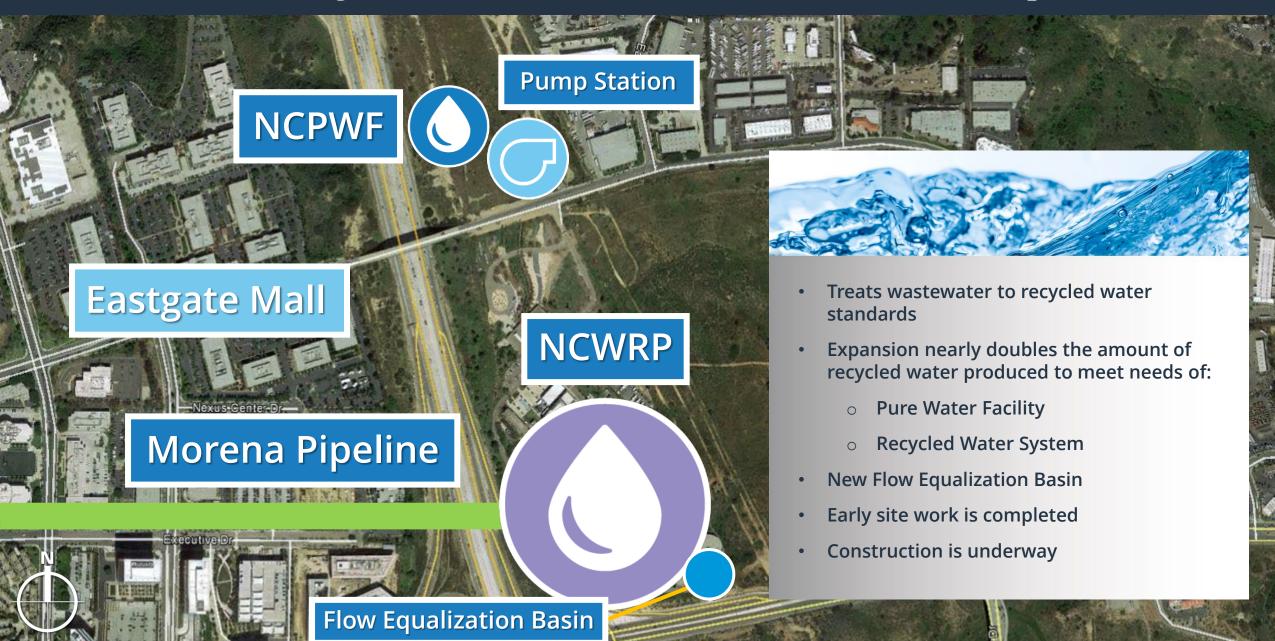


### Morena Northern Alignment & Tunnels



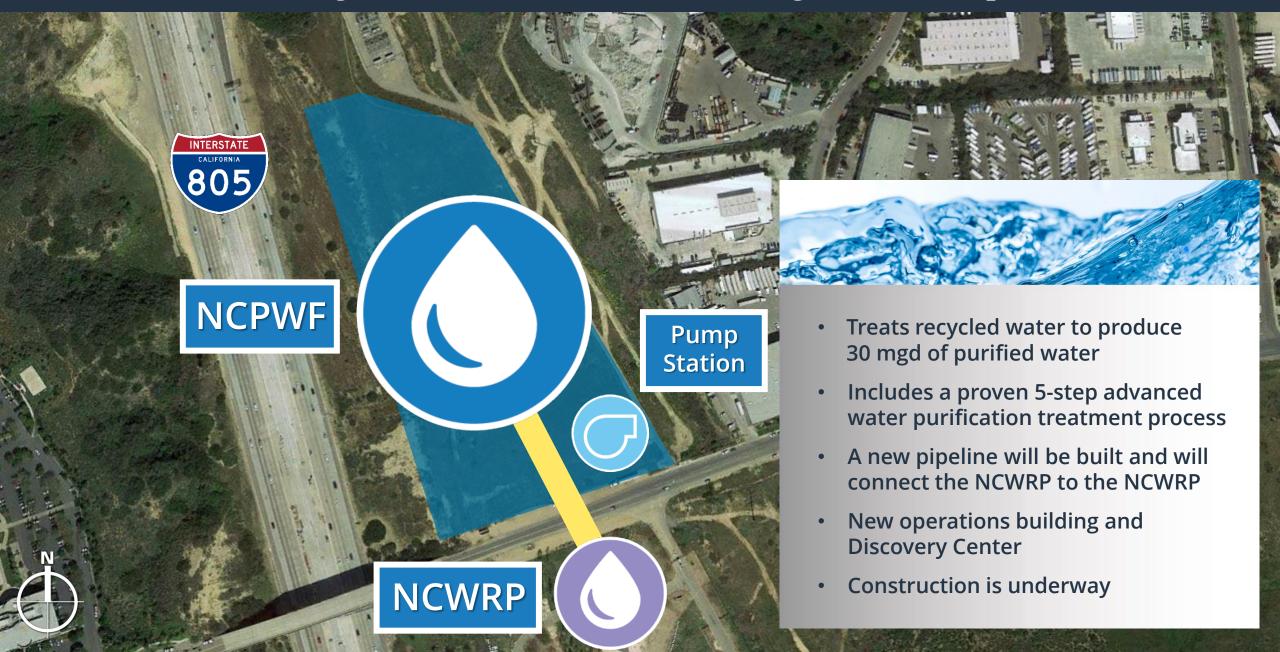


### North City Water Reclamation Plant Expansion



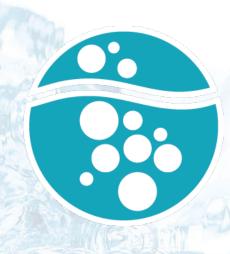


# North City Pure Water Facility & Pump Station

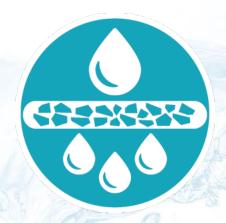




# North City Pure Water Facility



**Ozonation** 



**Biological Activated** Carbon **Filters** 



Membrane **Filtration** 



Reverse **Osmosis** 



**Ultraviolet** Disinfection /Advanced Oxidation



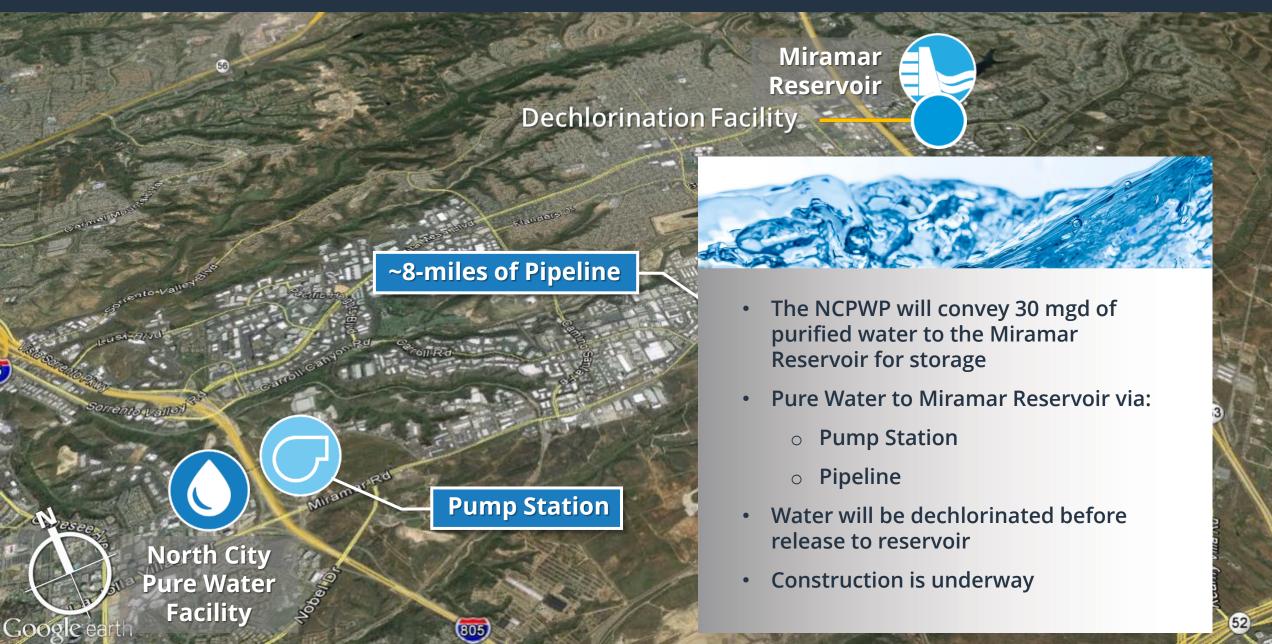
## **Metropolitan Biosolids Center**

- Regional biosolids facility that receives and processes solids from both the North **City Water Reclamation** Plant (NCWRP) the Point Loma Wastewater **Treatment Plant**
- The NCWRP will undergo an expansion, upgrades and improvements, increasing biosolids flows and loadings to the Metropolitan **Biosolids Center**
- Construction is underway





# **North City Pure Water Pipeline**



# Miramar Reservoir Pump Station Improvements



# **Subaqueous Pipeline**





# **Phase 2 Central Area Planning Update**





### **Sustainability is Key**





Pure Water provides the City with a safe, local, reliable and sustainable water supply.



# Who Supports Pure Water?



























































# What Can I Do?

The City of San Diego continues to provide safe, high quality drinking water for its customers each and every day.



Visit <u>purewatersd.org</u> to learn more about the Pure Water Program.