

# Pure Water San Diego Program

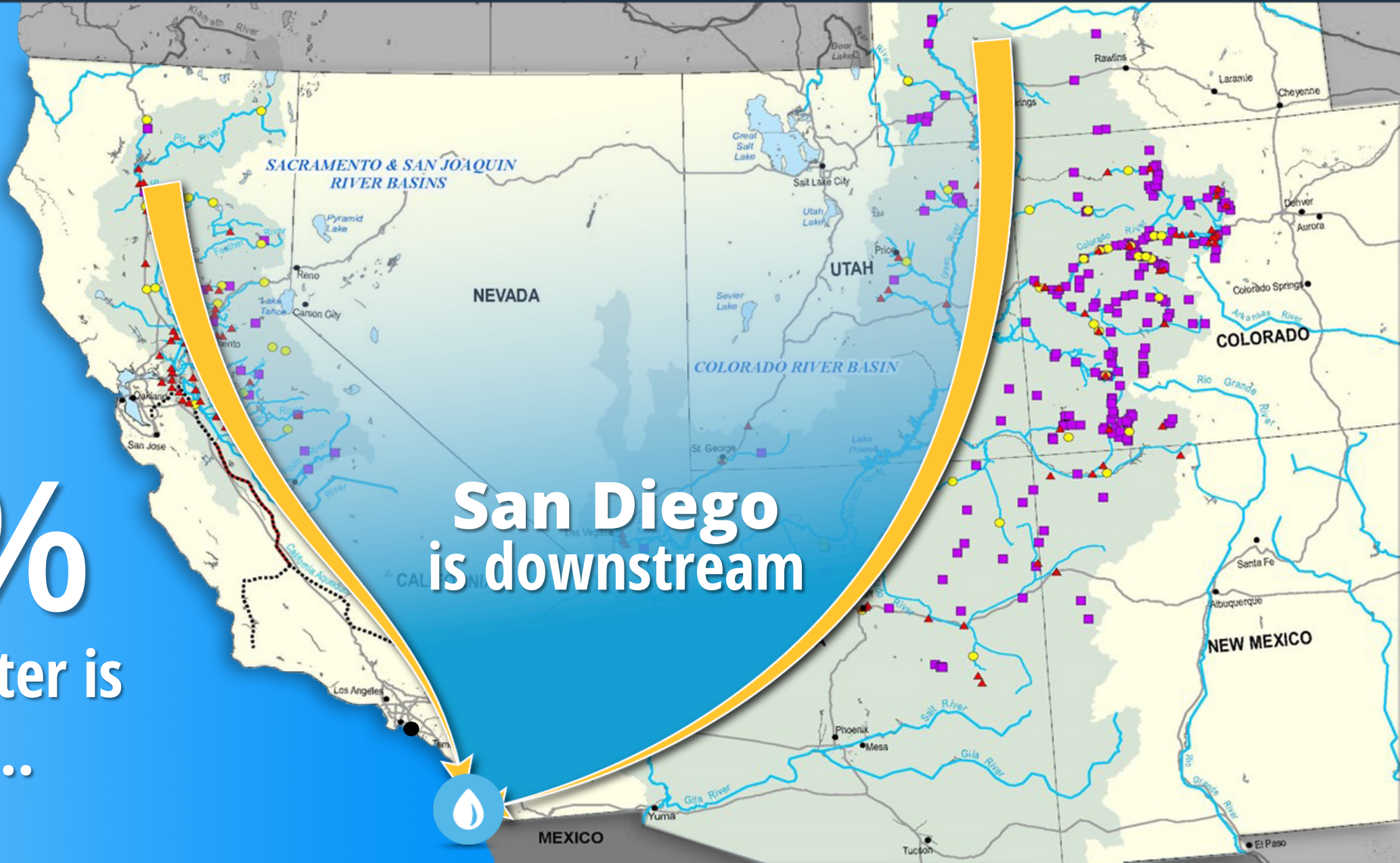
Public Utilities Department



# San Diego's Water Supply

**85%**  
of our water is  
imported...

**San Diego  
is downstream**



# We Face Numerous Water Challenges

*Imported water cost per acre-foot*



- Limited local & imported supplies
- Population growth
- Bay Delta constraints

- Natural disaster risk
- Rising imported water costs
- Recurring drought

# SD Multi-faceted Approach



- Conservation
- Desalination
- Groundwater Development
- Recycled Water
- Pure Water Program

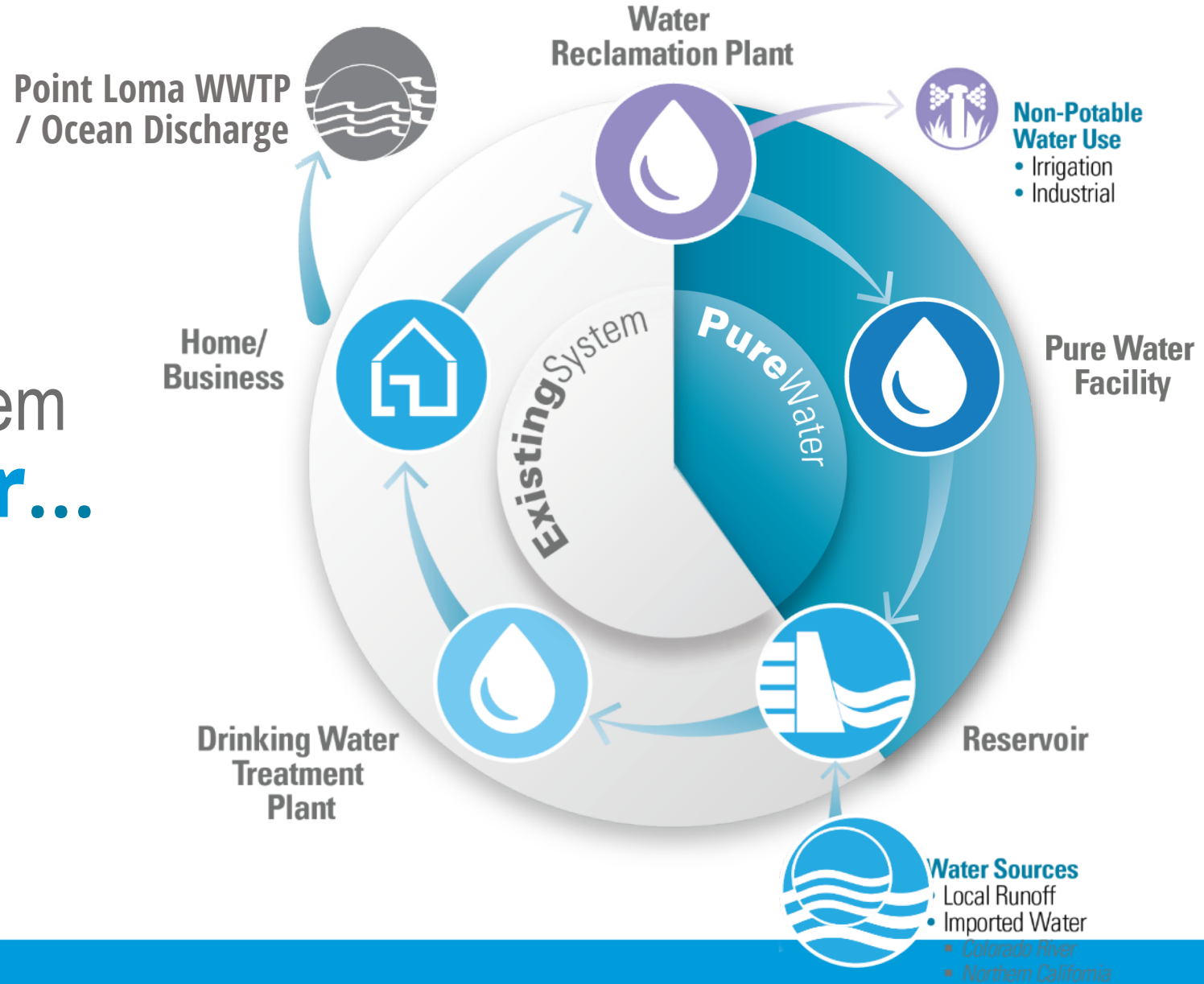
# SD San Diego's Water Supply System

## Existing System...

Primarily a Single-Use System

## Pure Water...

Completes Our Water Cycle



# SD Pure Water Runs a Successful Demonstration Facility

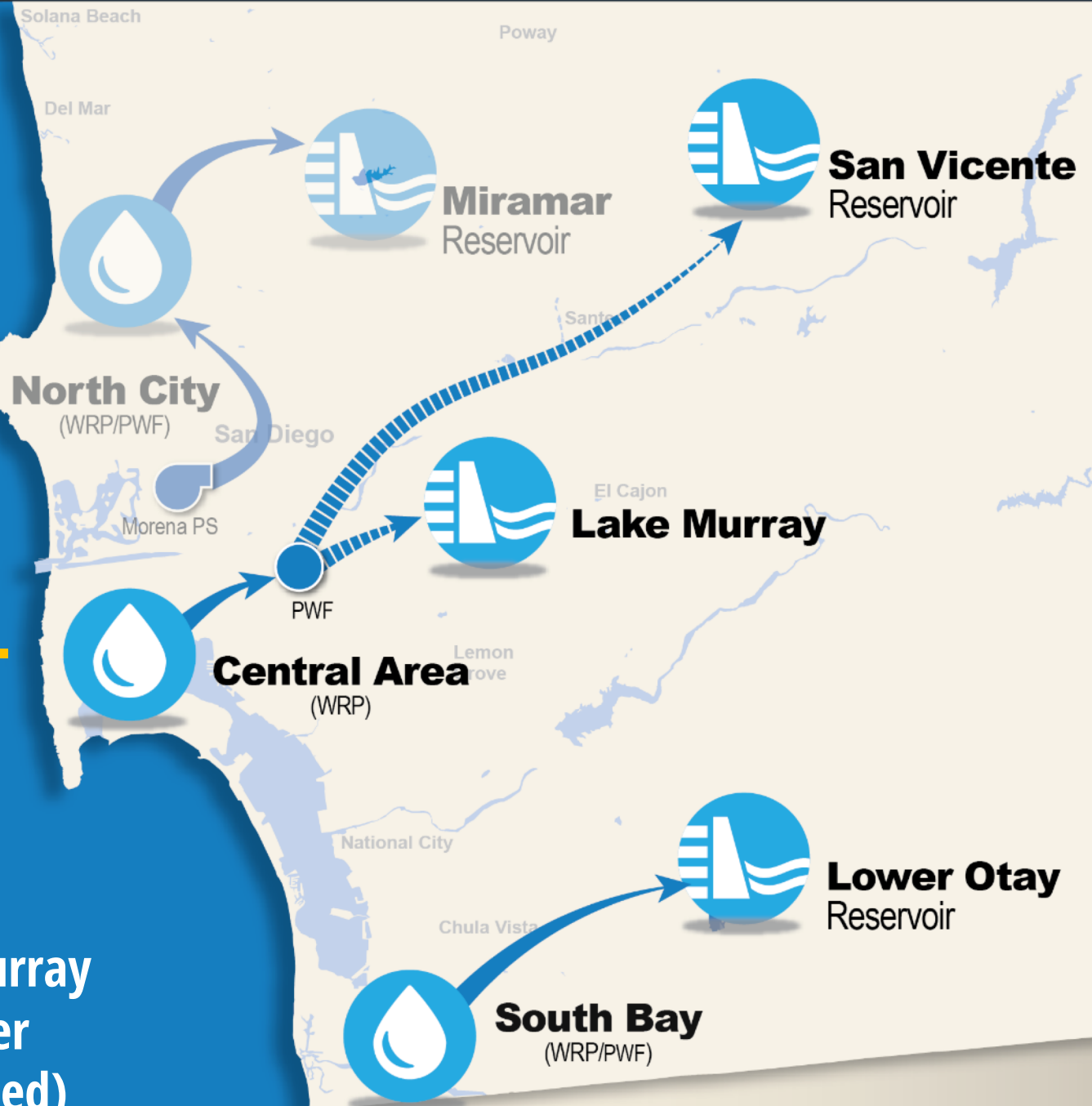


- 50,000 lab tests: **Met all standards**
- Water quality: **Exceptional**

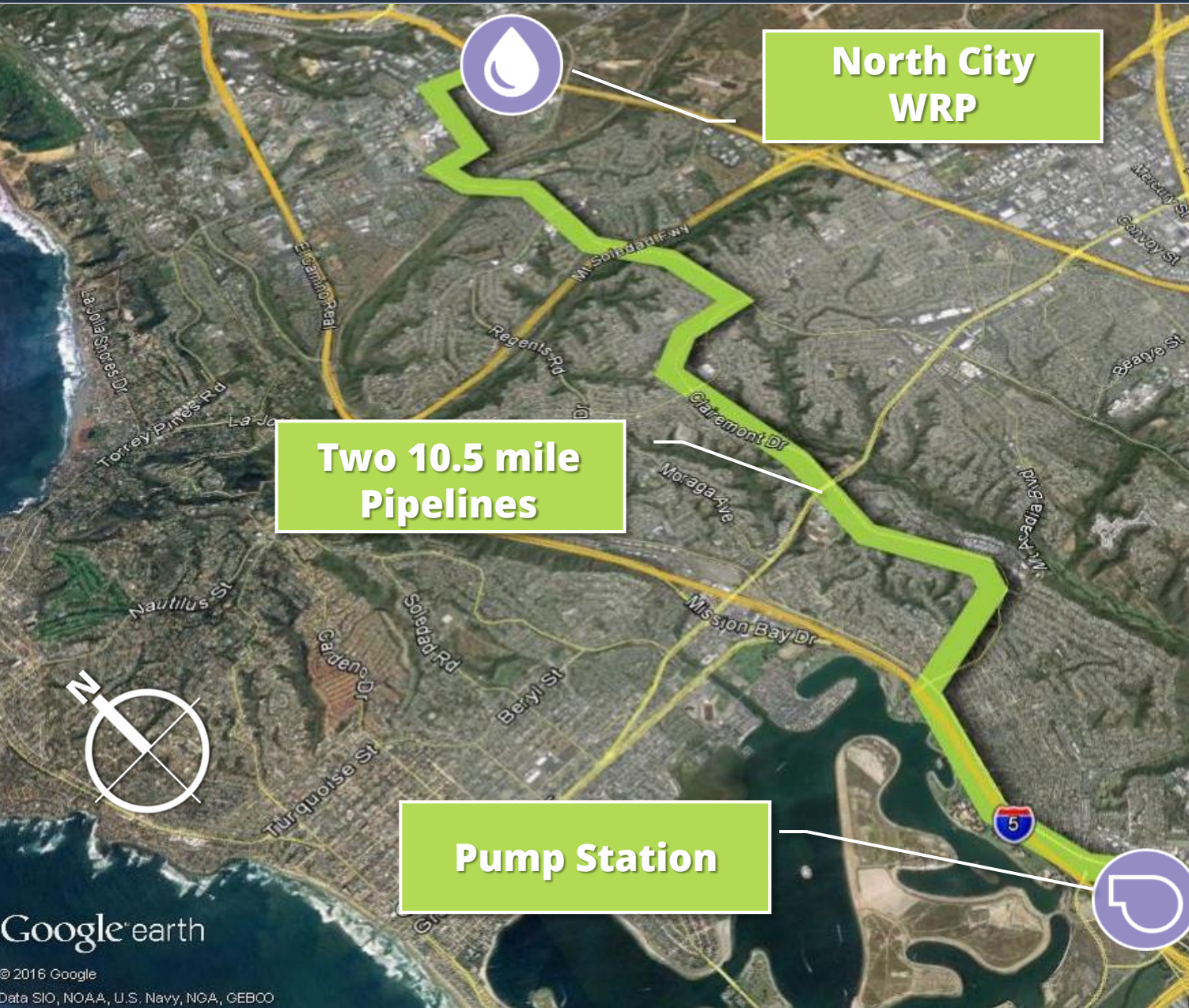
Pure Water  
will produce  
**1/3**  
of your water  
locally

### Phases 2 & 3

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
- South Bay PWF to Lower Otay Reservoir (if needed)



# SD Morena Pump Station and Pipelines

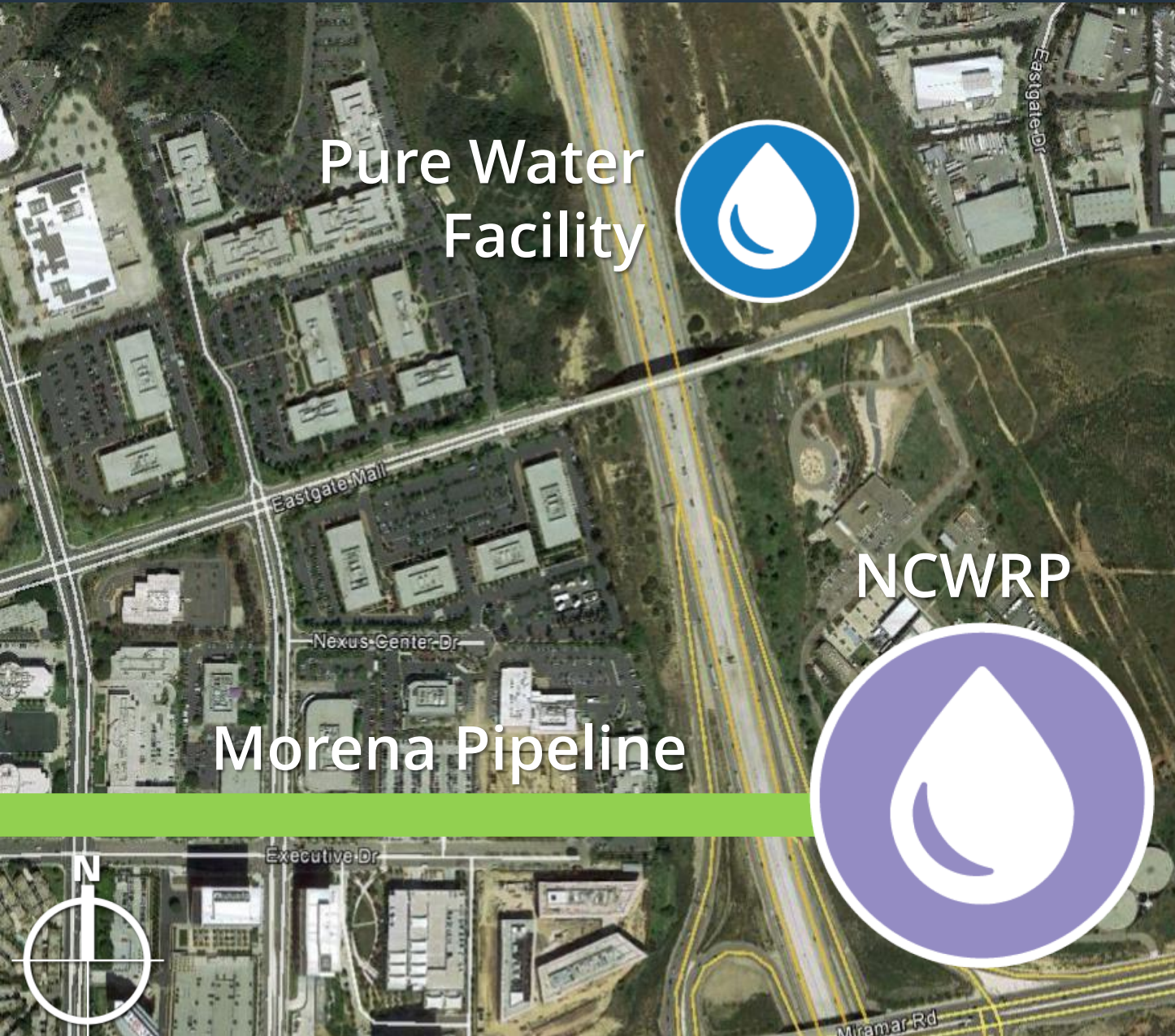


- Conveys wastewater to North City Water Reclamation Plant (WRP)
- Supports Phase 1 purified water and recycled water production
- Trenchless construction will be used to avoid:
  - *environmentally sensitive areas*
  - *freeway crossings*



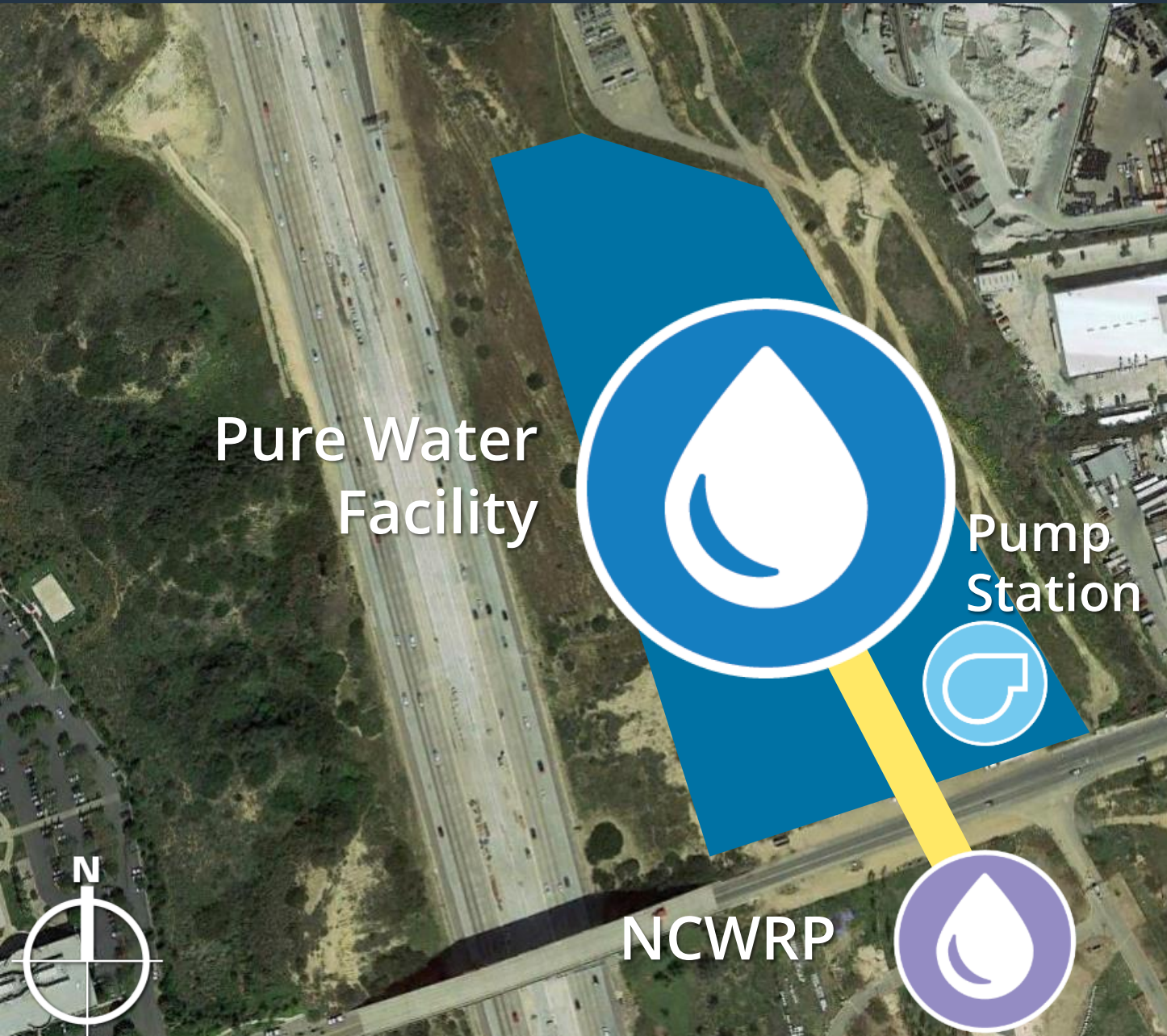


# North City WRP Expansion



- Treats wastewater to recycled water standards
- Expansion nearly doubles the amount of recycled water produced to meet needs of:
  - *Pure Water Facility*
  - *Recycled Water System*

# SD North City Pure Water Facility & Pump Station



- Treats recycled water to produce 30 mgd of purified water
- Includes a proven 5-step advanced water purification treatment process
- Construction Start: 2019



# North City Pure Water Facility



Ozonation



Biological  
Activated  
Carbon  
Filters



Membrane  
Filtration



Reverse  
Osmosis

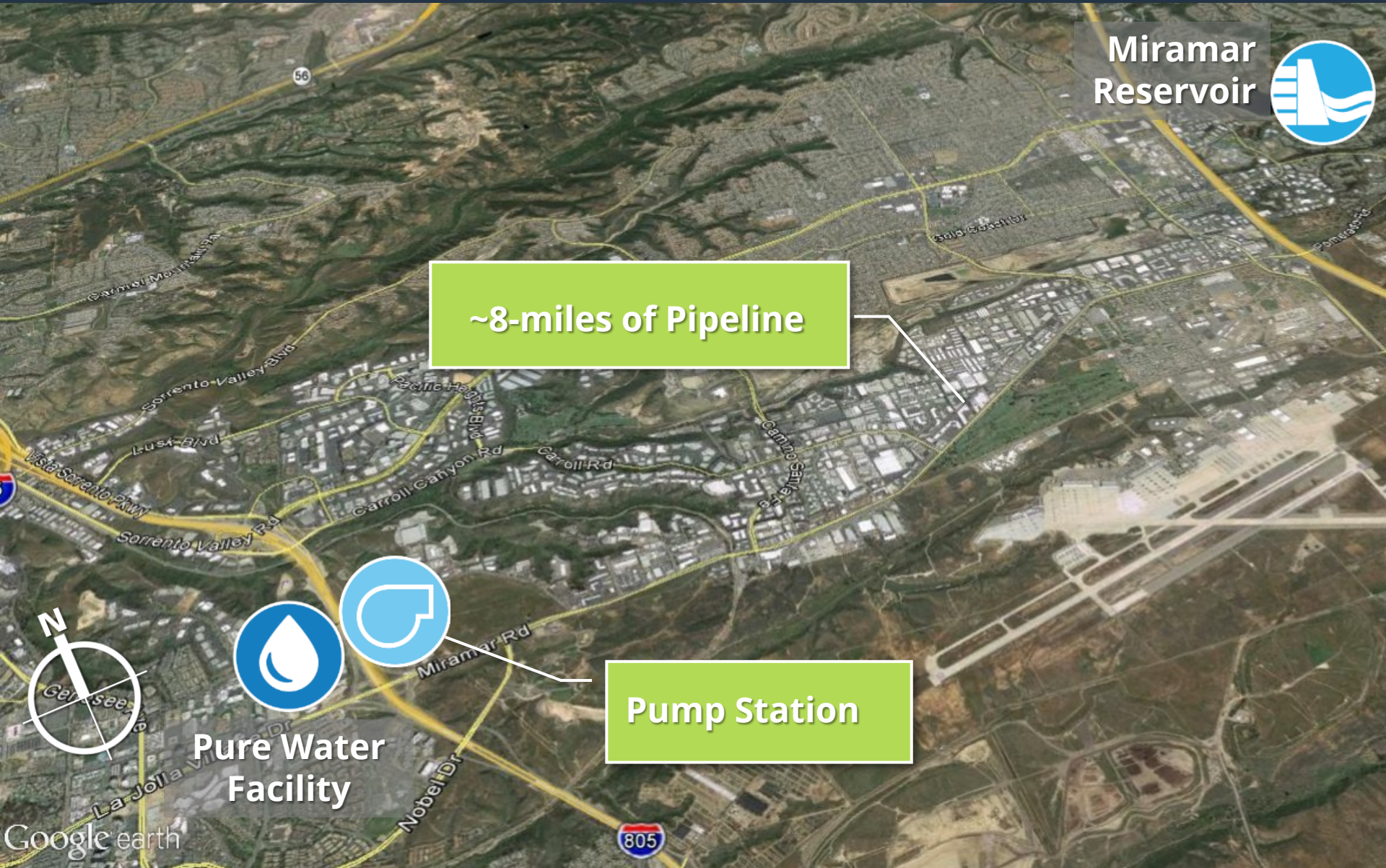


Ultraviolet  
Disinfection  
/Advanced  
Oxidation





# North City Pure Water Pipeline



Miramar Reservoir

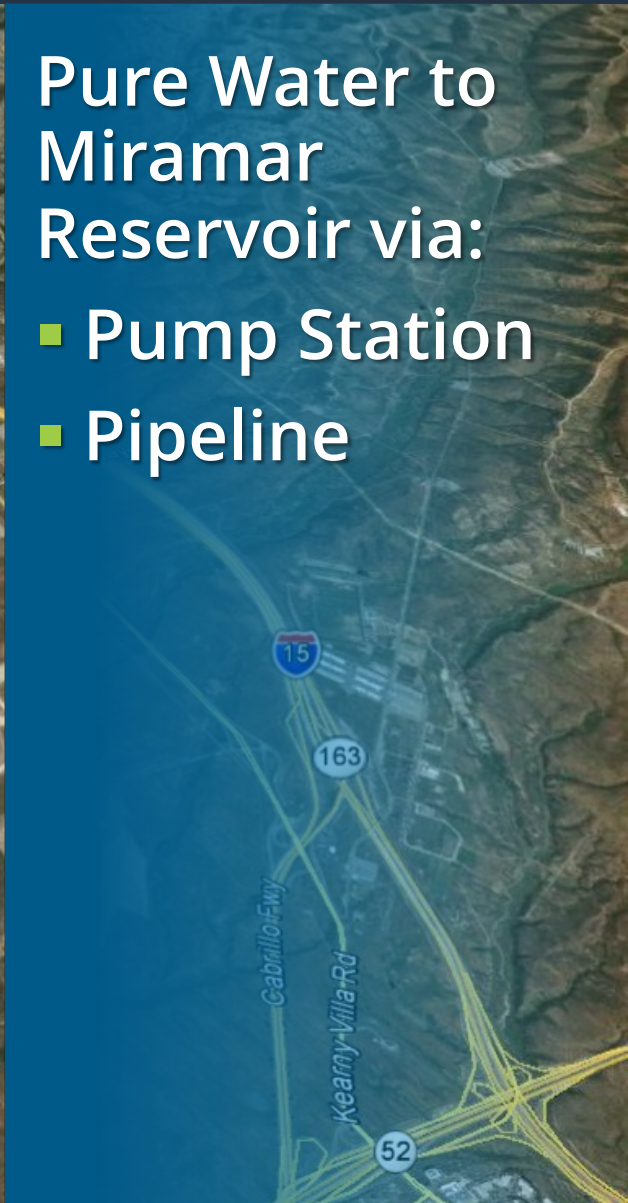


~8-miles of Pipeline

Pump Station



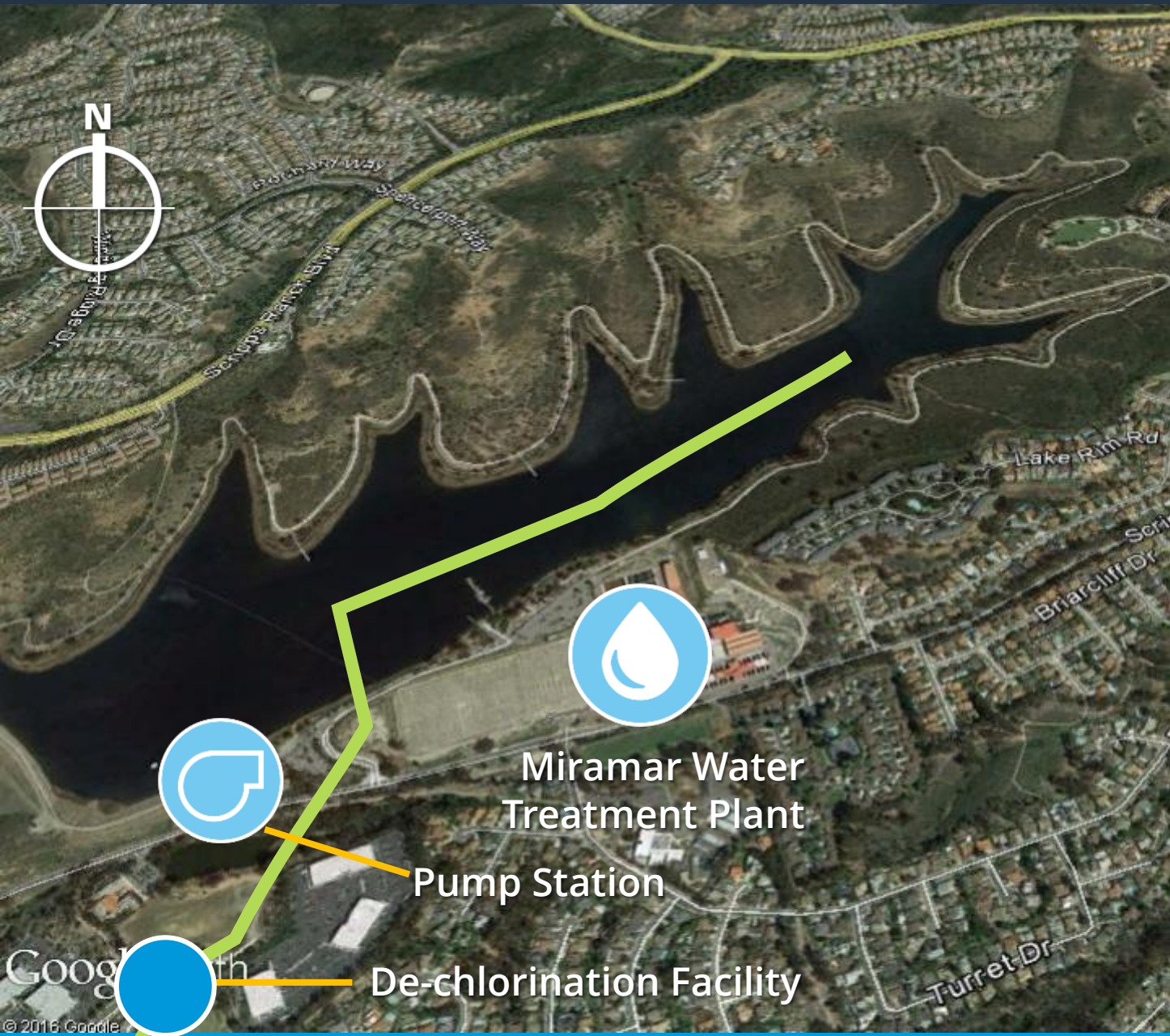
Pure Water Facility



Pure Water to Miramar Reservoir via:

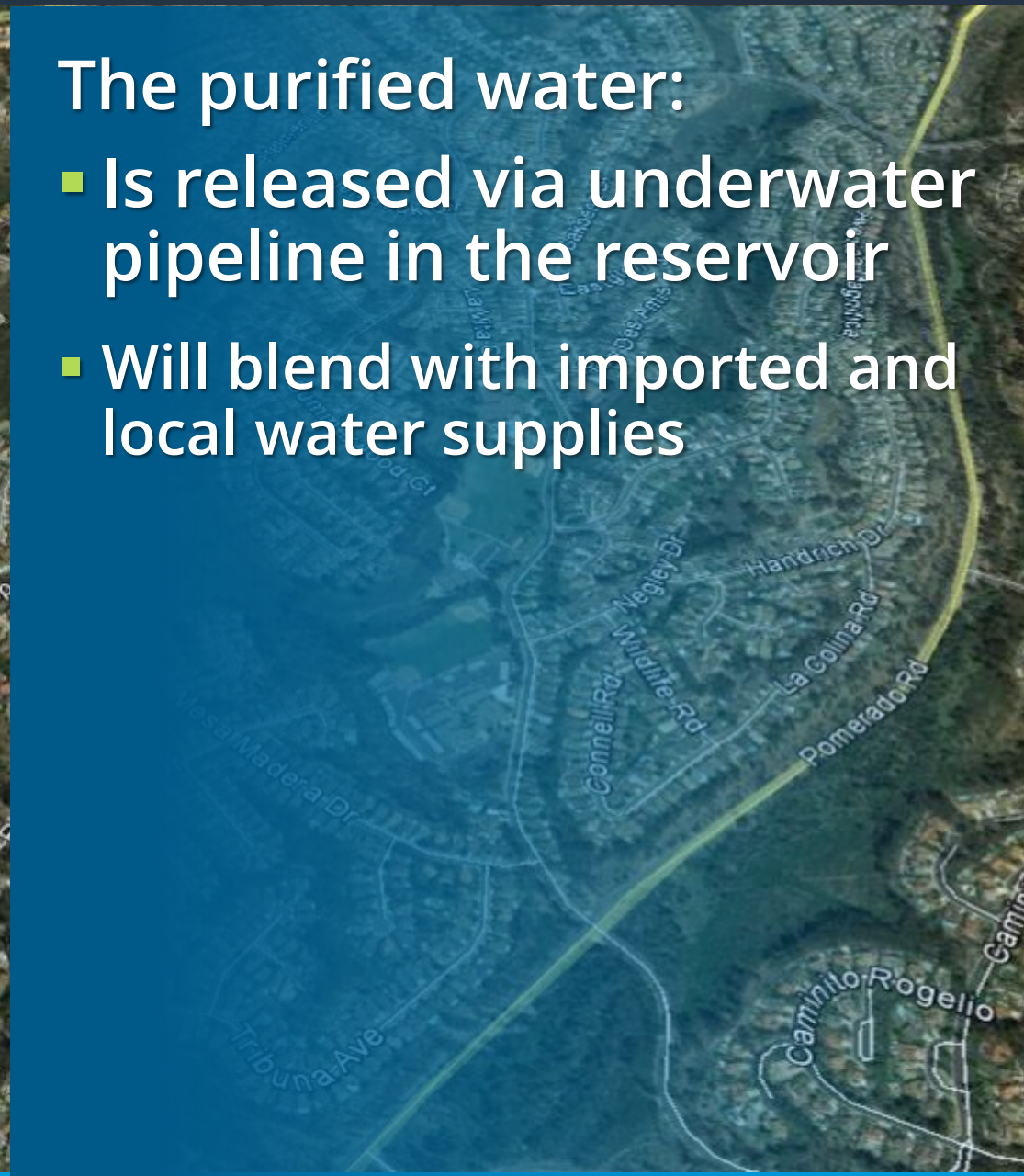
- Pump Station
- Pipeline

# SD Miramar Reservoir



The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies





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

# SD Who Supports Pure Water?



SAN DIEGO COUNTY CHAPTER



SAN DIEGO PORT TENANTS ASSOCIATION



[www.purewatersd.org](http://www.purewatersd.org)

Sign up for a tour of the  
Pure Water Demonstration Facility!



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