



Pure Water North City Phase 1 Construction Projects  
Community Working Group Meeting 1 – Scripps Ranch/Miramar

**Date:** June 26, 2018

**Location:** North City Water Reclamation Plant

**Meeting Agenda**

4:30	Welcome	B. Eidson
4:35	Agenda Introductions	P. Tennyson
4:50	Working Group Overview Mission and Principles of Participation	P. Tennyson
5:20	Pure Water Program North City Phase 1 Projects	B. Eidson
5:50	<b>DINNER</b>	
6:20	North City Projects/Alignment in Scripps Ranch/Miramar	J. Soriano
6:45	Construction Topics/Contract Documents	J. Soriano
7:00	Informational Construction Topic #1 Overview: <i>Coordination Between Projects</i>	J. Soriano
7:20	Informational Construction Topic #2 Overview: <i>Street Restoration</i>	J. Soriano
7:40	Public Comment	P. Tennyson
7:55	Closing and Next Steps	P. Tennyson

# Pure Water San Diego Phase 1 Scripps Ranch/Miramar Working Group: Meeting 1

June 26, 2018

# Meeting Objectives

- Provide the necessary information to allow you to gain a clear understanding of the following:
  - *Purpose and role of the Working Group in the bid specification identification process*
  - *Context of the Pure Water Program and the Phase 1 projects*
  - *Pipeline alignment specific to your community*
  - *Construction topics that will be reviewed and/or discussed during the meetings*
- Presentation on two construction topics

- Welcome
- Agenda/Introductions
- Working Group Overview/Mission and Principles of Participation
- Pure Water Program/North City Phase 1 Projects

## DINNER

- North City Projects/Alignment in Scripps Ranch/Miramar
- Construction Topics/Contract Documents
- Informational Construction Topic #1 Overview:  
*Coordination Between Projects*
- Informational Construction Topic #2 Overview:  
*Street Restoration*
- Public Comment
- Closing and Next Steps

- **Introductions: Who is in the room?**
  - **Project team introductions**
  - **Working Group introductions**

# **Mission & Principles of Participation**

- **Mission**
- **Principles of Participation**
- **Ground Rules**

# **Working Group Overview**

## ■ Meeting Series Schedule

Meeting	Date and Time	Meeting Location
1	Tuesday, June 26, 2018 4:30 – 8 p.m.	North City Water Reclamation Plant
2	Tuesday, July 17, 2018 4:30 – 8 p.m.	Scripps Miramar Ranch Library Community Room
3	Tuesday, July 31, 2018 4:30 – 8 p.m.	Scripps Miramar Ranch Library Community Room
4	Wednesday, Aug. 22, 2018 4:30 – 8 p.m.	North City Water Reclamation Plant

# Pure Water San Diego Program & Phase 1 Projects Overview

Brent Eidson

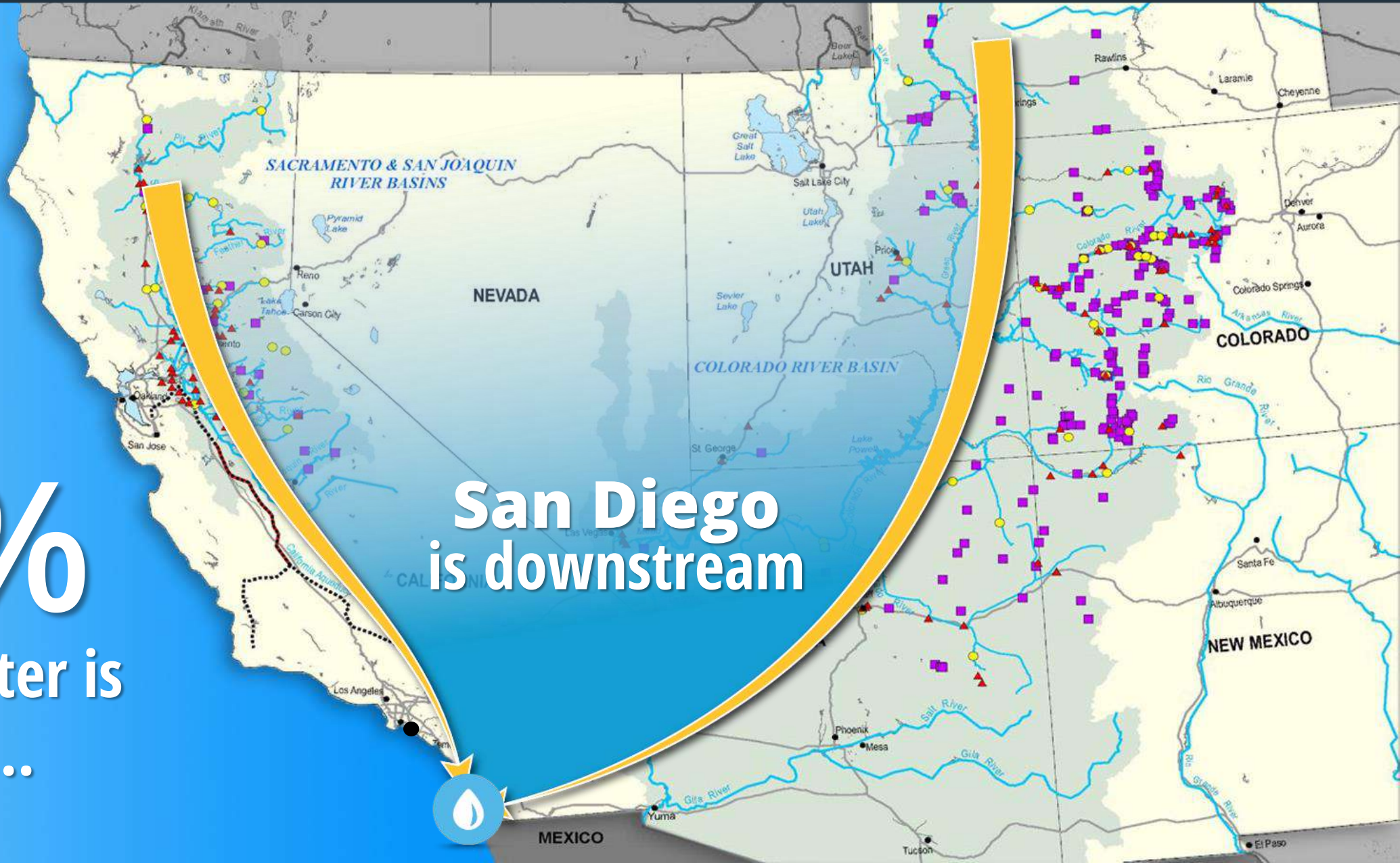




# San Diego's Water Supply

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



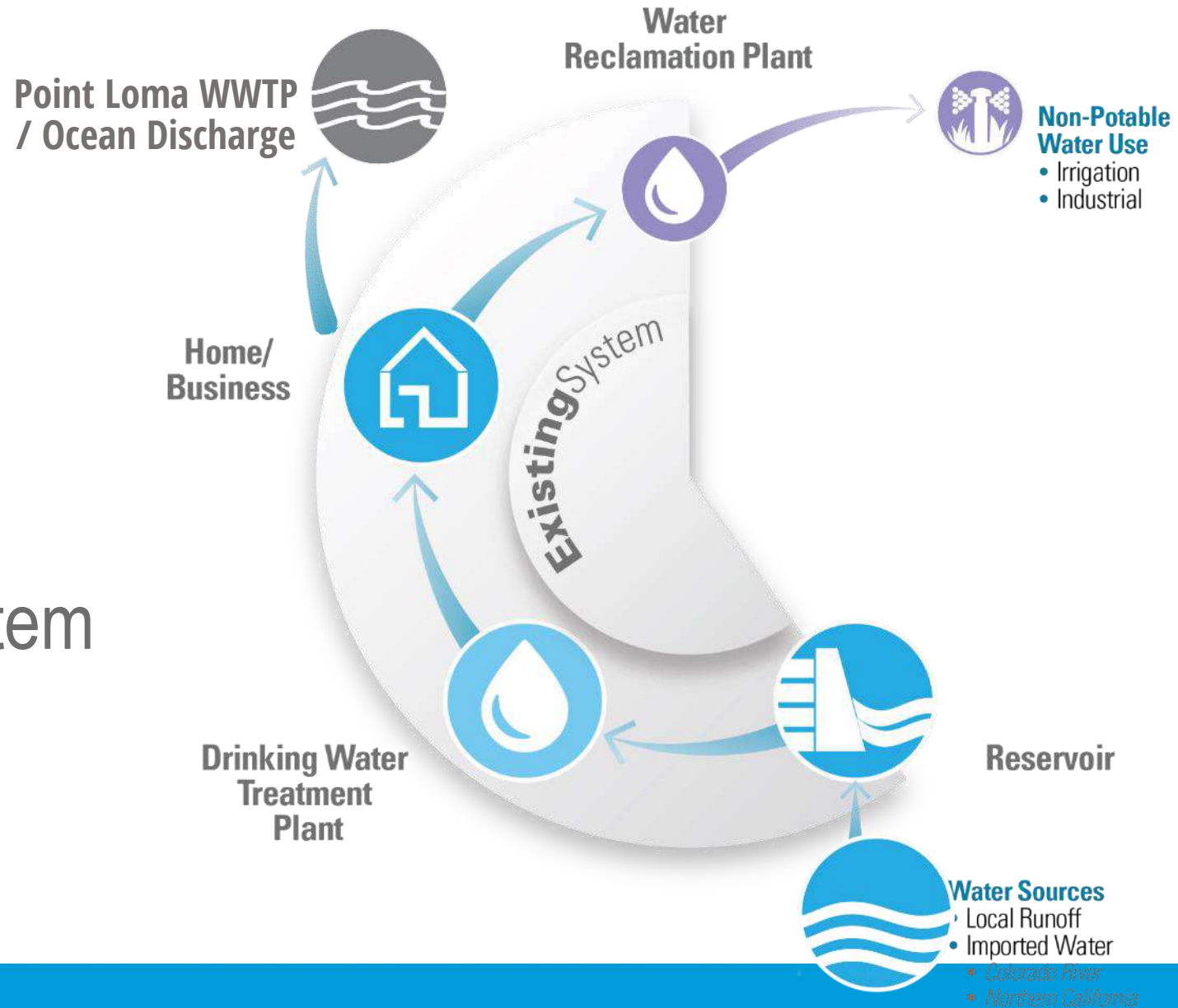
# Multi-faceted Approach



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

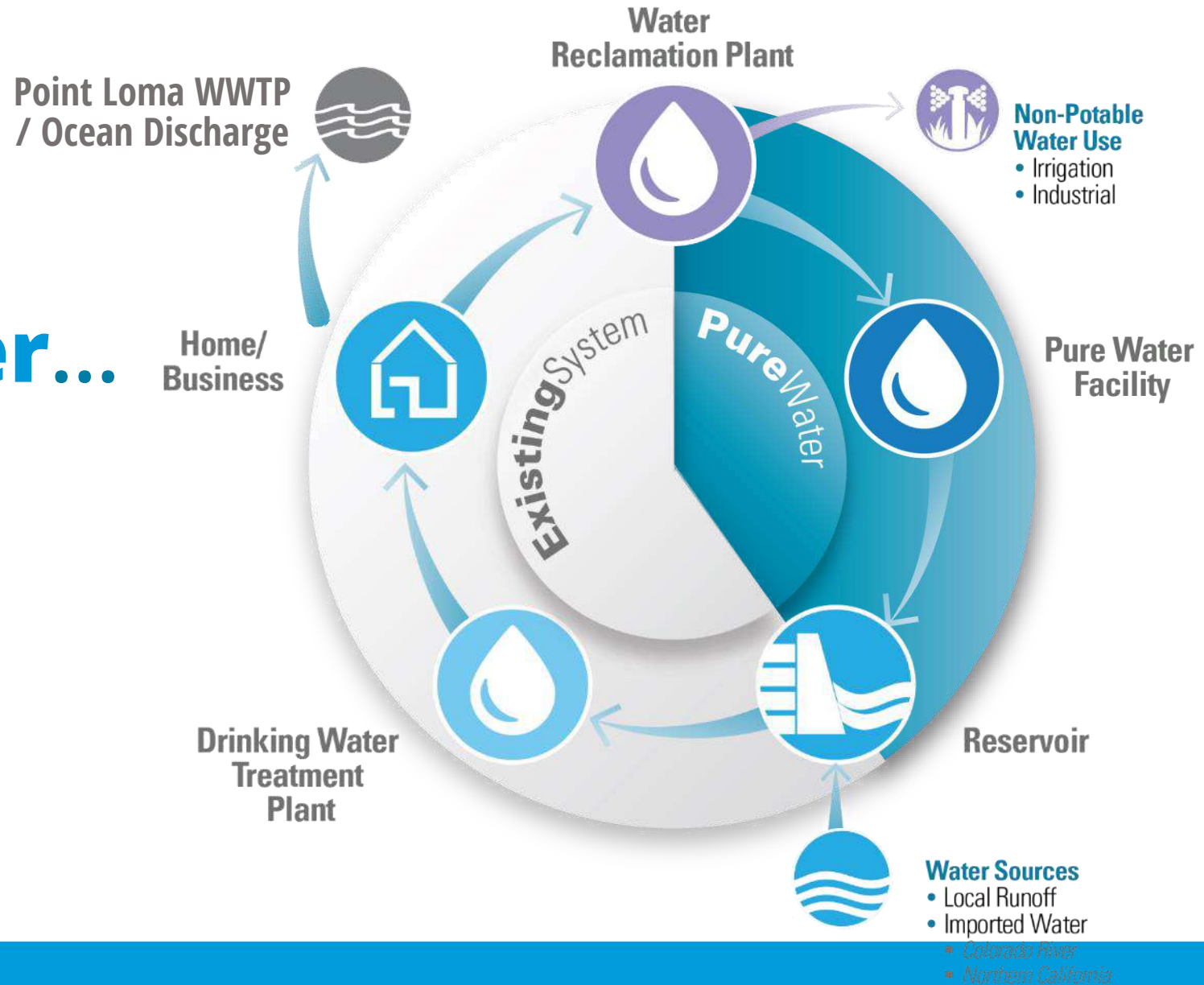
# Existing System...

Primarily a  
Single-Use System



# Pure Water...

Completes Our Water Cycle





# Pure Water Runs a Successful Demonstration Facility



- 30,000 lab tests: **Met all standards**
- Water quality: **Exceptional**
- Energy use: **Renewable**

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

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### **Phase 1**

- 2021 Completion
- 30 mgd
- North City PWF to Miramar

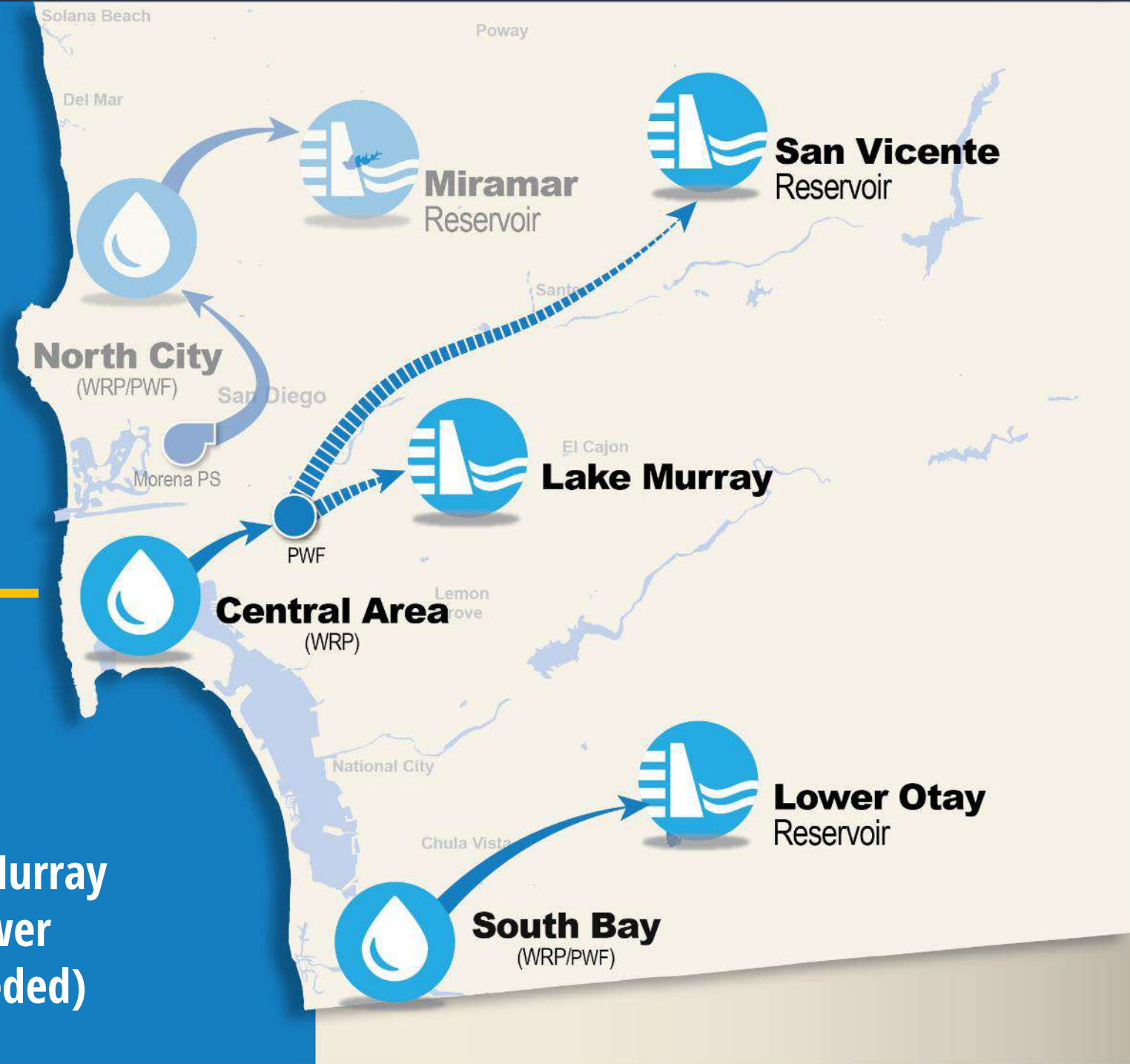


**Pure Water**  
will produce  
**1/3**  
of your water  
**locally**

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### 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 & Wastewater Pipelines

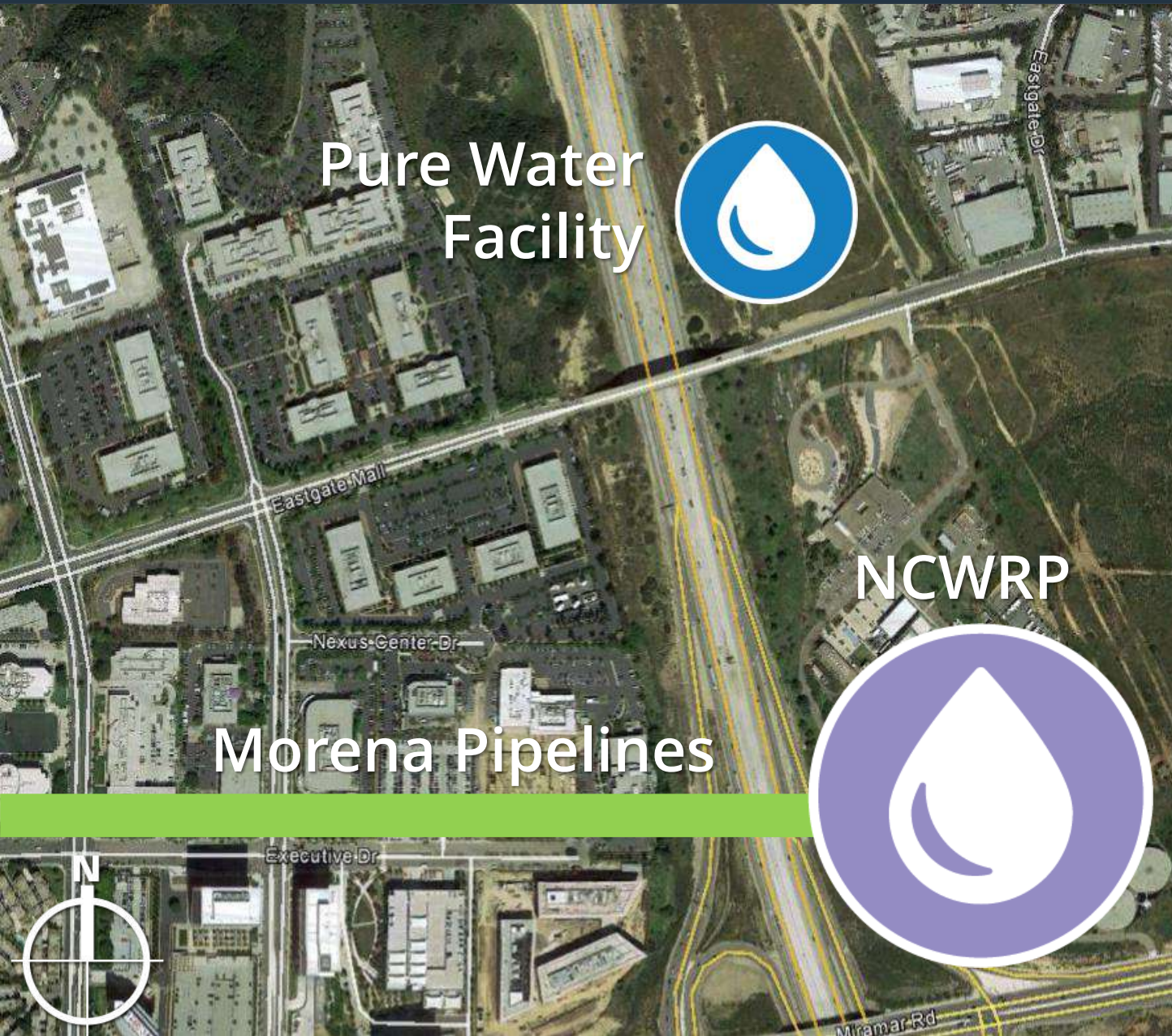


- Two 10.7 mile wastewater pipelines
  - *Convey wastewater to North City Water Reclamation Plant (WRP) and salts and contaminants to the Point Loma Wastewater Plant*
- Support Phase I Pure Water and recycled water production
- Design completion: Mid 2018
- Construction: 2019 – 2021





# North City WRP Expansion



Pure Water  
Facility



NCWRP



Morena Pipelines

- 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*
- Design Completion: Mid 2018
- Construction: 2019 - 2021





# North City Pure Water Facility

Pure Water  
Facility



NCWRP



- Treats recycled water to produce 30 million gallons of purified water per day
- Includes a proven 5-step advanced water purification treatment process
- Design Completion: Mid 2018
- Construction: 2019 – 2021







# North City Pure Water Facility



Ozonation



Biological  
Activated  
Carbon  
Filters



Membrane  
Filtration



Reverse  
Osmosis



Ultraviolet  
Disinfection  
/Advanced  
Oxidation



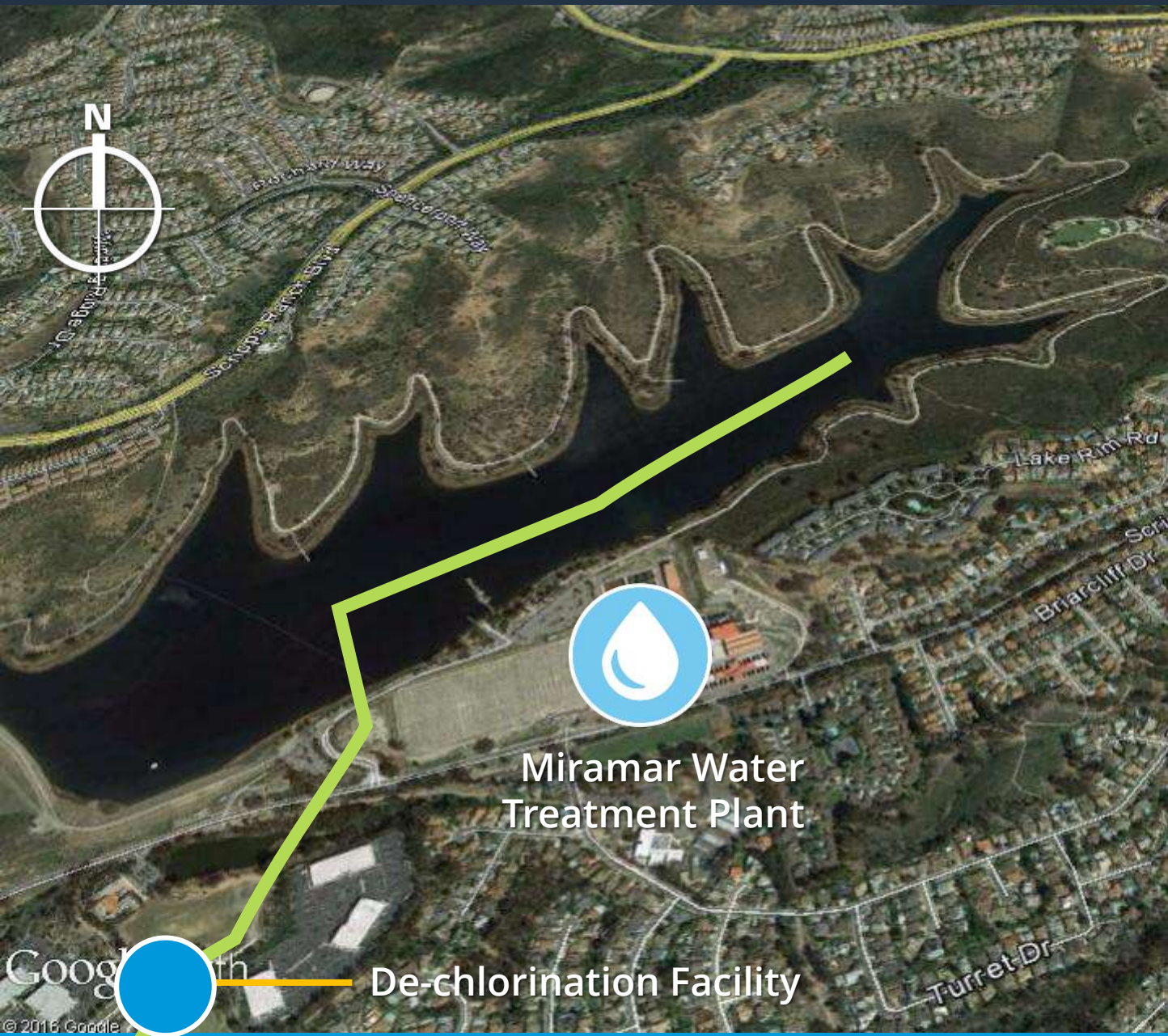


# North City Pure Water Pump Station and Pipeline





# SD Miramar Reservoir



The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies
- Design Completion: Late 2018
- Construction: 2019 - 2021



# SD North City Renewable Energy



Pure Water



Renewable Energy



Miramar Landfill



Metro Biosolids Center

Produces Renewable Energy

- Supports Greenhouse Gas reduction
- ~16 MW





# North City Pure Water Pipeline Alignment Overview

Nabil Batta

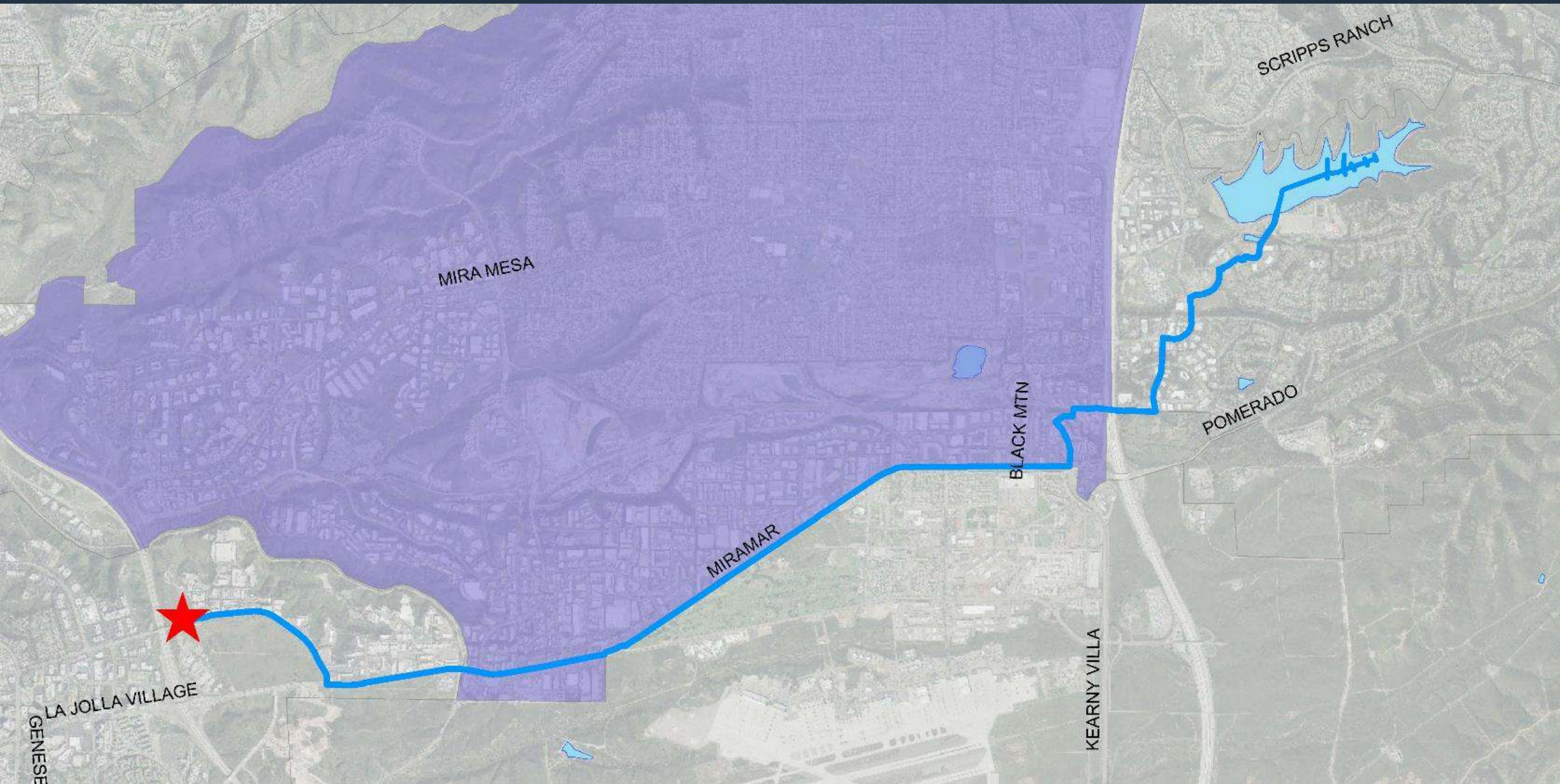




# Working Group Topics

- 1. Multiple disruptions and project coordination**
- 2. Street restoration**
- 3. Air quality/odor/noise**
- 4. Staging areas/parking**
- 5. Environmental monitoring**
- 6. Traffic control/signage**
- 7. Special stakeholder access needs**
- 8. Outreach, communication and notifications**
- 9. Work restrictions and construction phasing**
- 10. Working days and hours**
- 11. Construction monitoring**

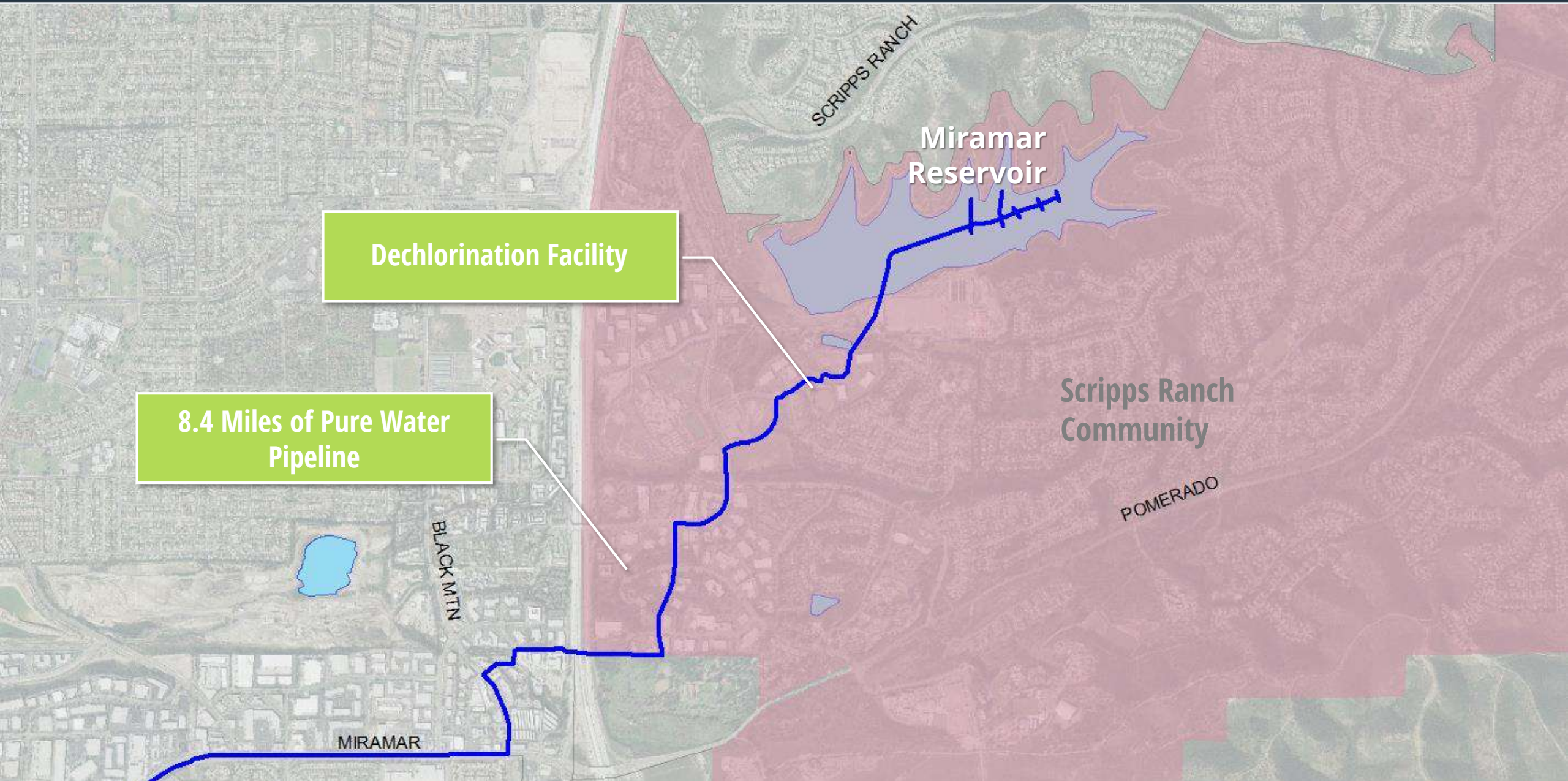
# North City Pure Water Pipeline in Mira Mesa







# North City Pure Water Pipeline in Scripps Ranch



Dechlorination Facility

8.4 Miles of Pure Water Pipeline

Miramar Reservoir

Scripps Ranch Community

POMERADO

BLACK MTN

MIRAMAR

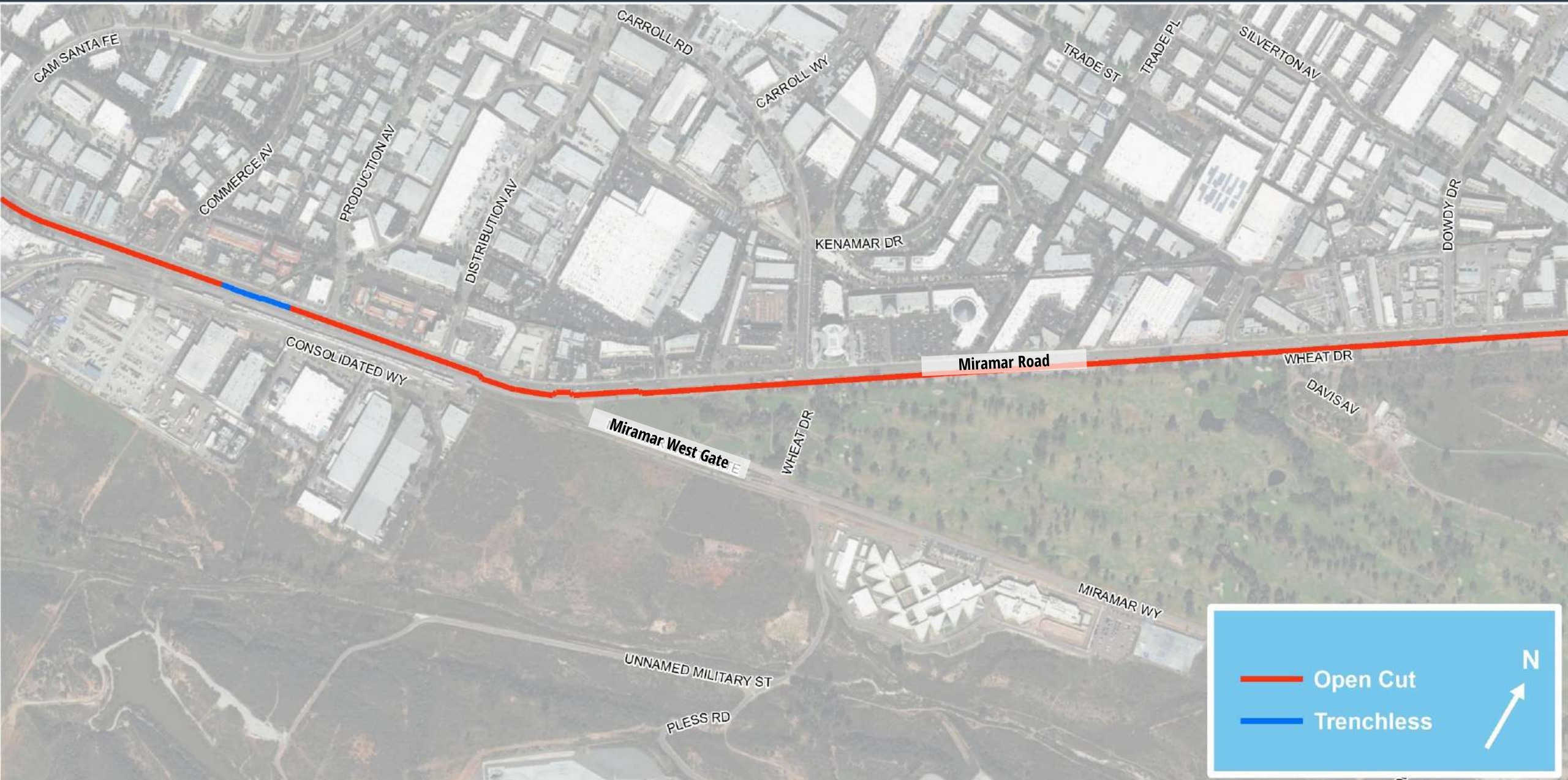


# North City Pure Water Pipeline Alignment





# North City Pure Water Pipeline Alignment





# North City Pure Water Pipeline Alignment





# North City Pure Water Pipeline Alignment



# Construction Topics & Contract Documents

Nabil Batta



# **Working Group Meeting Topics**

- 1. Multiple disruptions and project coordination**
- 2. Street restoration**
- 3. Air quality/odor/noise**
- 4. Staging areas/parking**
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- **Site Development Permit No. 2092309**

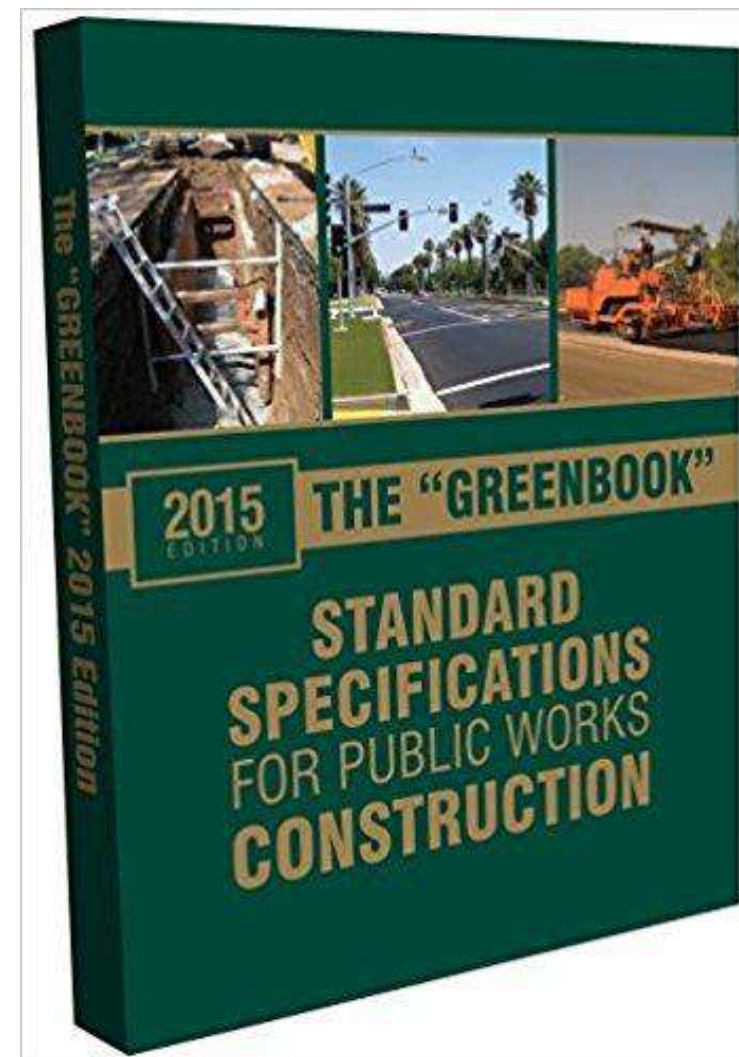
*Pure Water North City Project specific permit granted by the City Council*

- Requirement Topics include, but are not limited to: Standard Items, Environmental/Mitigation, Climate Action Plan and Engineering

- **Standard Specifications for Public Works Construction “Greenbook”**

*Standard Public Works construction guidelines adopted for use by over 200 cities/counties and agencies*

- Chapters include, but are not limited to: General Provisions, Construction Materials, Construction Methods



- **Standard Specifications for Public Works Construction “Whitebook”**

*City of San Diego supplement to the “Greenbook”*

- Provides more detail and requirements to those topics specified in the Greenbook

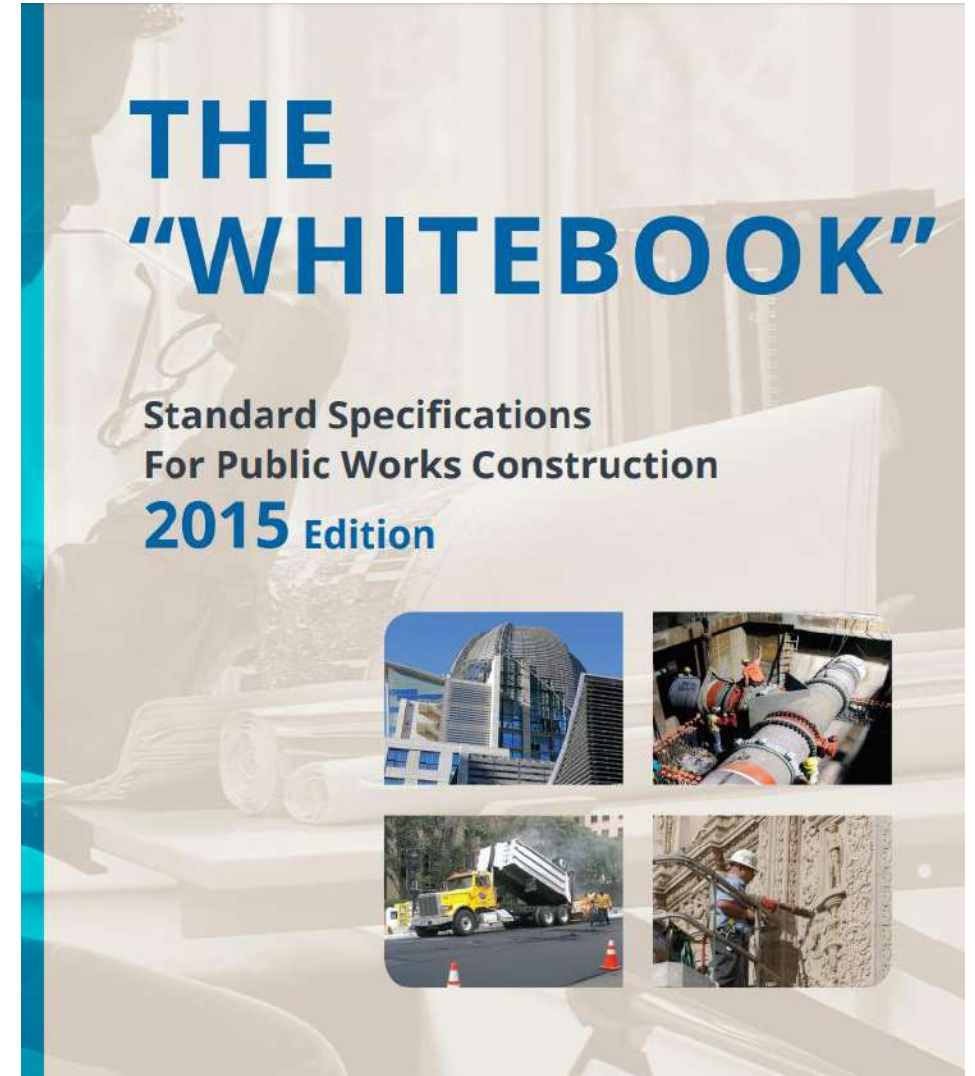
- **City of San Diego Supplementary Special Provisions “SSP”**

*Project-specific contract requirements to supplement the “Whitebook”*

- **Project Plan Drawings**

*Project-specific engineering and construction details*

- Details include pipeline plan and profiles, survey, traffic control, etc.





# Construction Contract Documents Requirements

- The City is required to follow a minimum set of construction standards that are outlined in the contract documents. These are detailed in the 11 x 17 handout provided in your binder.
- Some examples of standard construction requirements include:
  - *Noise: Construction hours beyond 7 p.m. requires obtaining a noise permit from the Development Services Department. Work hours with public right-of-way are established by Average Daily Traffic (ADT) counts.*
  - *Schedule Restrictions: Work hours established by ADTs and specified in SSP and traffic control plans. Other work restrictions that are project specific are included in the SSP.*
  - *Other Items: Traffic control and circulation, trench and roadway restoration, landscape restoration etc.*
- Construction and mitigation requirements that the City already has in place will be discussed in detail at future meetings.

# Meeting 1 Construction Topics: Coordination Between Projects and Street Restoration

Nabil Batta



# Coordination Between Projects

- **The City has combined the construction of a right turn lane on westbound Miramar Road approaching Eastgate Mall and the replacement of waterlines along the North City Pure Water Pipeline alignment to reduce community impacts**
- **The City monitors Capital Improvement Projects monthly to identify potential conflicts with upcoming projects to avoid impacting a community with a new project shortly after completion**
- **Coordination with agencies/companies outside of the City to notify them of the 3-year road moratorium (SANDAG, SDG&E, Cox Communications, etc.)**



- Goal: Provide a serviceable and lasting roadway surface after construction is completed.
- What we are doing to achieve this goal:
  - *Providing curb to curb pavement restoration along the alignment*
  - *Upgrading existing pedestrian curb ramps to meet current ADA standards along the alignment*
  - *3-year moratorium will be in place after construction is complete to ensure lasting roadway surface*

