



Padre Dam MWD CIP

Michael Hindle | January 23, 2020

PADRE DAM MUNICIPAL WATER DISTRICT



INFRASTRUCTURE

Water

392 miles of mains

29 reservoir tanks

16 pumping stations

108.25 MG storage

100% imported drinking water

2000+ foot elevation gain

Wastewater

169 miles of mains

4 lift stations

1 pumping station

40% recycled by Padre Dam

60% treated by METRO

Recycled Water

27 miles of mains

1 reservoir tank

1.5 MG storage

2 MGD recycling plant

Tertiary treatment process

300
site campground

7
lakes



190
acres

10
cabins

Day-use recreation • Fishing & boating special events



CAPITAL IMPROVEMENT PROGRAM



Padre Dam Municipal Water District

Our Team

Fiscal Years 2018-2022
Five Year Business Plan
Ensuring a strong future.



strategic plan 2012-2022
2016 Update



SERVICE RELIABILITY FINANCIAL HEALTH CUSTOMER COMMUNICATIONS LOCAL SUPPLY WORKFORCE EXCELLENCE PARK AND RECREATION




Padre Dam Municipal Water District



FINAL



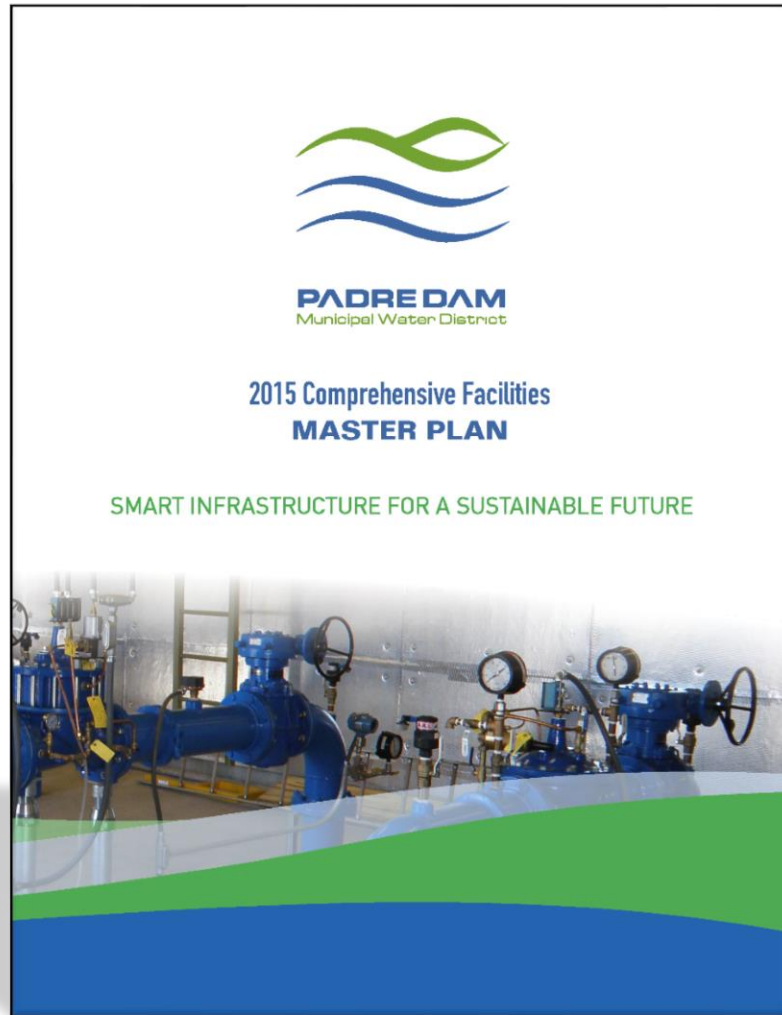
2015
Comprehensive Facilities Master Plan



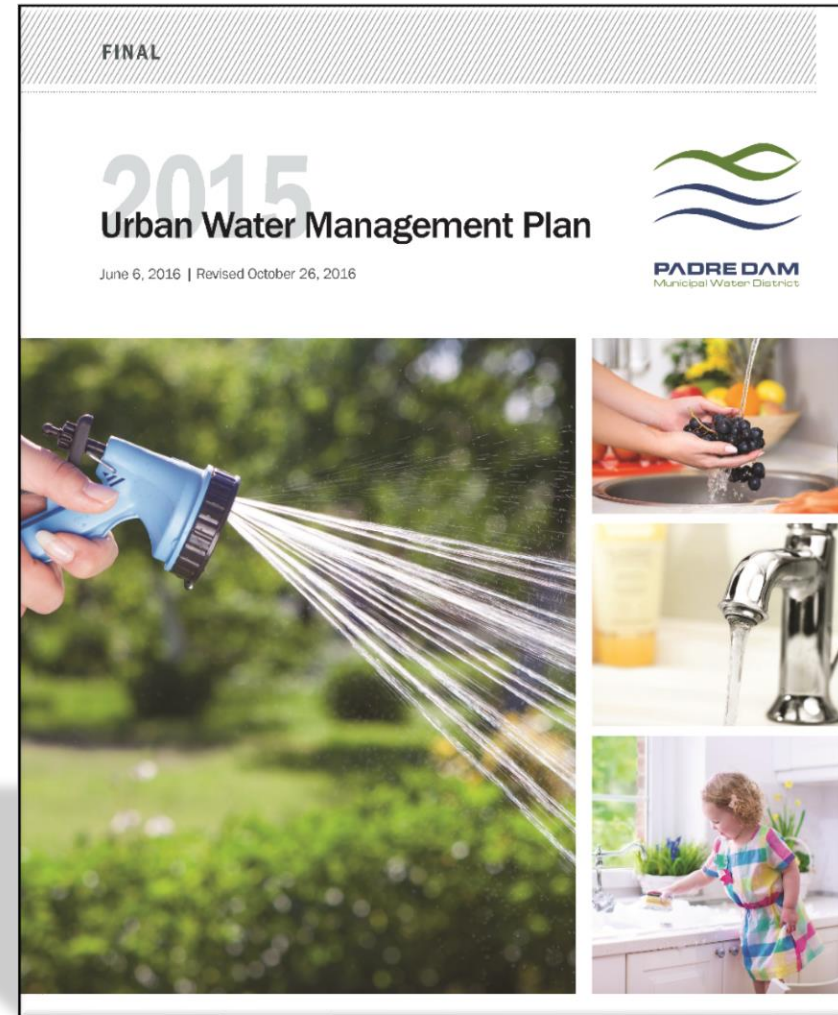
Fiscal Years 2018-2022
Capital Improvement Program Budget



PLANNING PROJECTS



Master Plan Update



Urban Water Management Plan Update

RISK AND RESILIENCE ASSESSMENTS AND EMERGENCY RESPONSE PLANS:

NEW REQUIREMENTS FOR DRINKING WATER UTILITIES

RISK AND RESILIENCE ASSESSMENT

Your utility must conduct a risk and resilience assessment and submit certification of its completion to the U.S. EPA by the following dates:

Important Dates

- March 31, 2020 if serving ≥100,000 people.
- December 31, 2020 if serving 50,000 to 99,999 people.
- June 30, 2021 if serving 3,301 to 49,999 people.

Every five years, your utility must review the risk and resilience assessment and submit a recertification to the U.S. EPA that the assessment has been reviewed and, if necessary, revised.

Visit the U.S. EPA website to find more information on guidance for developing a risk and resilience assessment at <https://www.epa.gov/waterriskassessment/conduct-drinking-water-or-wastewater-utility-risk-assessment>.

EMERGENCY RESPONSE PLAN

Your utility must develop or update an emergency response plan and certify completion to the U.S. EPA **no later than six months** after risk and resilience assessment certification. Each utility deadline is unique; however, the dates below are the due dates for utilities who submit a risk and resilience assessment certification by the final due date according to the population served.

Important Dates

- September 30, 2020 if serving ≥100,000 people.
- June 30, 2021 if serving 50,000 to 99,999 people.
- December 30, 2021 if serving 3,301 to 49,999 people.

Within six months of submitting the recertification for the risk and resilience assessment, your utility must certify it has reviewed and, if necessary, revised, its emergency response plan.

Visit the U.S. EPA website for guidance on developing an Emergency Response Plan at <https://www.epa.gov/waterutilityresponse/develop-or-update-drinking-water-or-wastewater-utility-emergency-response-plan>.

TOOLS OR METHODS

AWIA does not require the use of any standards, methods or tools for the risk and resilience assessment or emergency response plan. Your utility is responsible for ensuring that the risk and resilience assessment and emergency response plan address all the criteria in AWIA Section 2013(a) and (b), respectively. The U.S. EPA recommends the use of standards, including AWWA J100-10 Risk and Resilience Management of Water and Wastewater Systems, along with tools from the U.S. EPA and other organizations, to facilitate sound risk and resilience assessments and emergency response plans.

¹ Section 2013 of AWIA applies to community water systems. Community water systems are drinking water utilities that consistently serve at least 25 people or 15 service connections year-round.

Still have questions about the new AWIA requirements? Contact the U.S. Environmental Protection Agency (U.S. EPA) at dwrresilience@epa.gov.

Office of Water (4608T)
EPA-817-F-19-034
May 2019

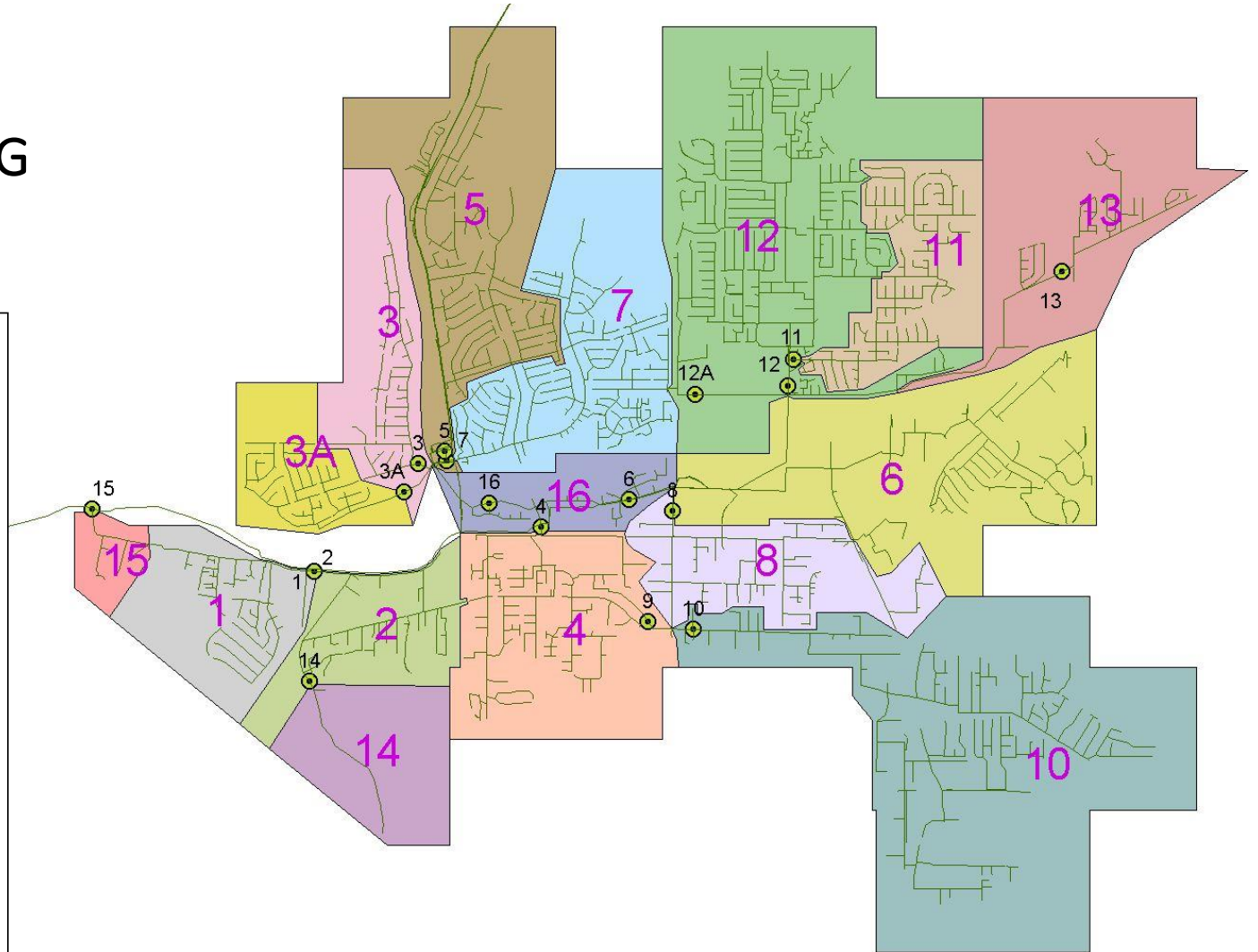
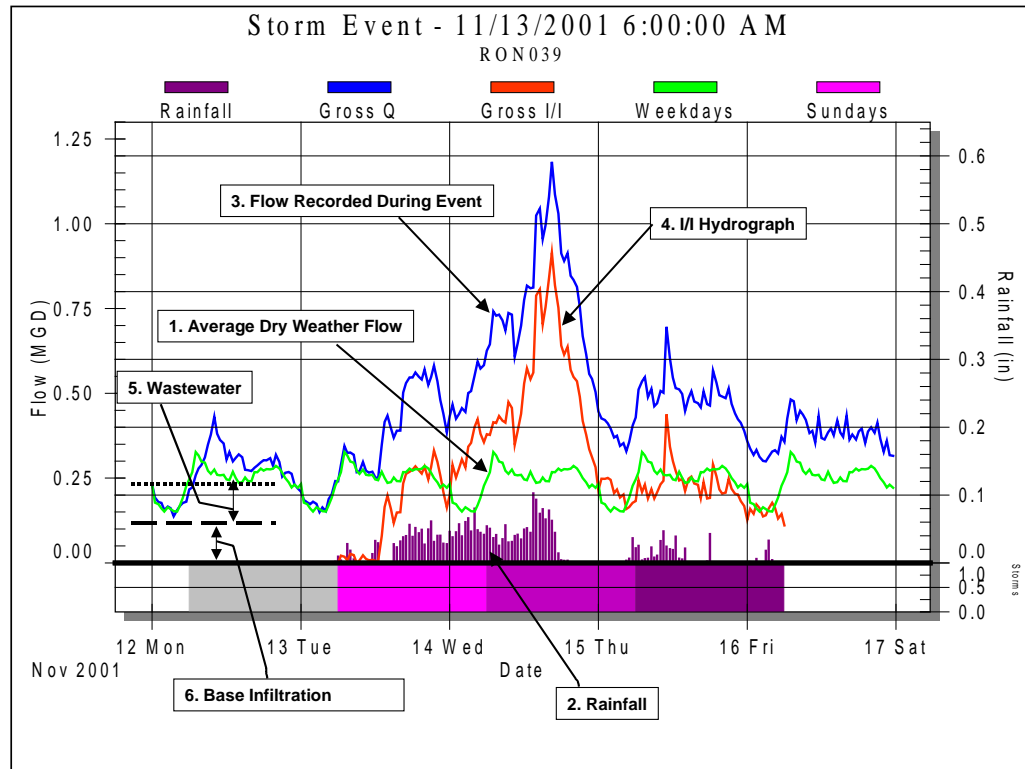
Population Served	Risk and Resilience Assessment	Next 5-Year Cycle Submission Date
≥100,000	March 31, 2020	March 31, 2025
50,000-99,999	December 31, 2020	December 31, 2025
3,301-49,999	June 30, 2021	June 30, 2026

← PADRE DAM

Population Served	Emergency Response Plan*	Next 5-Year Cycle Submission Date*
≥100,000	September 30, 2020	September 30, 2025
50,000-99,999	June 30, 2021	June 30, 2026
3,301-49,999	December 31, 2021	December 31, 2026

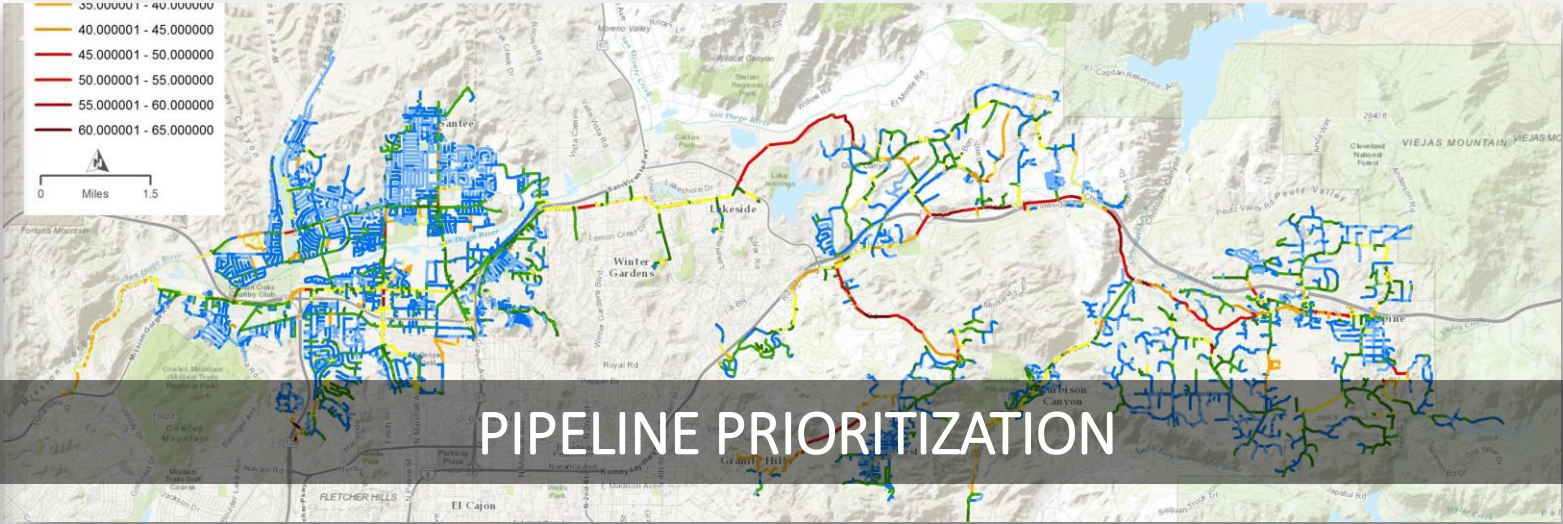
← PADRE DAM

TEMPORARY SEWER FLOW MONITORING





POTABLE WATER PIPELINES



PIPELINE PRIORITIZATION



INVERTED SEWER SIPHONS

DESIGN PROJECTS

Valve and Pipeline Replacement



LARGE DIAMETER VALVE REPLACEMENT



PIPELINE REPLACEMENT AT BRIDGE CROSSINGS



FANITA TERRACE RESERVOIR



BLOSSOM VALLEY RESERVOIR



PUMP STATION IMPROVEMENTS



RIOS CANYON PUMP STATION SURGE TANK

1. JERRY JOHNSON RESERVOIR
2. GROSSMONT RESERVOIR



CONSTRUCTION PROJECTS



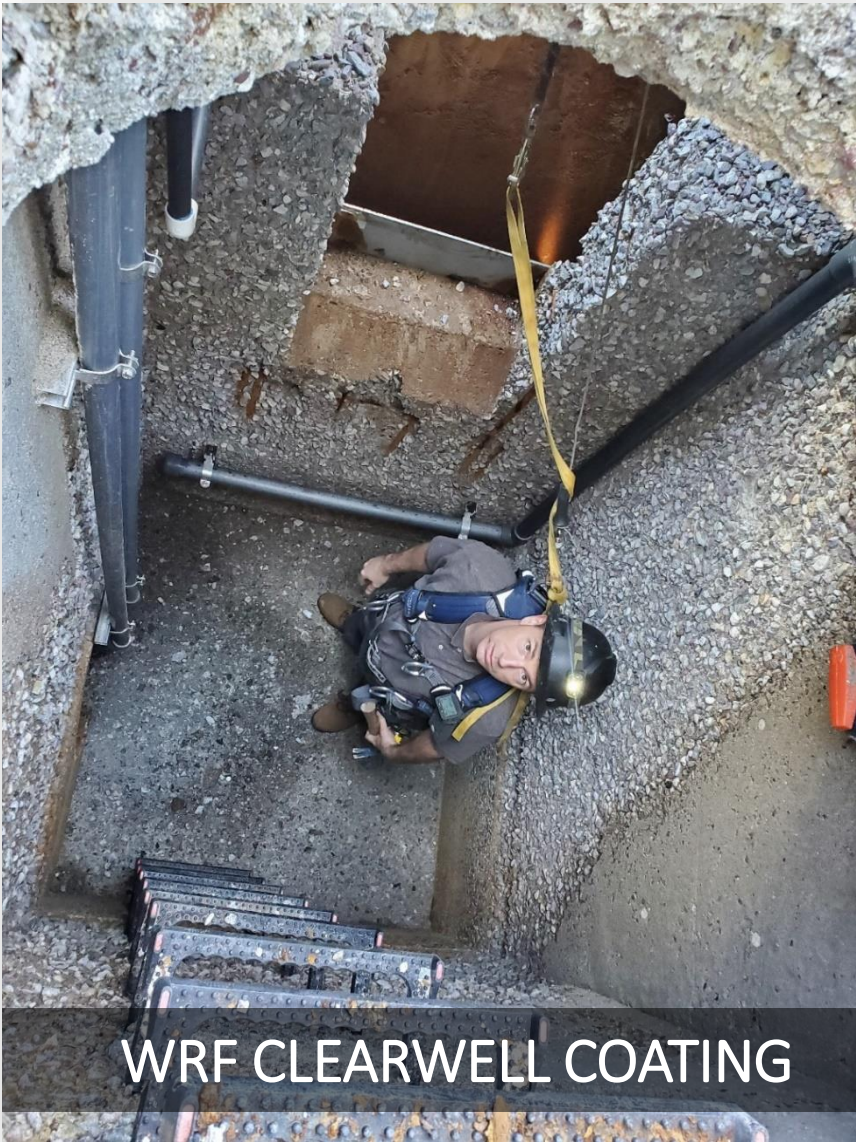
CURED-IN-PLACE PIPE LINING



SEWER MANHOLE COATING



EASTERN SERVICE AREA SECONDARY CONNECTION



WRF CLEARWELL COATING



WRF SLUDGE COLLECTION EQUIPMENT REPLACEMENT



MOUNTAIN VIEW CONNECTOR PIPELINE



ADVANCED WATER PURIFICATION

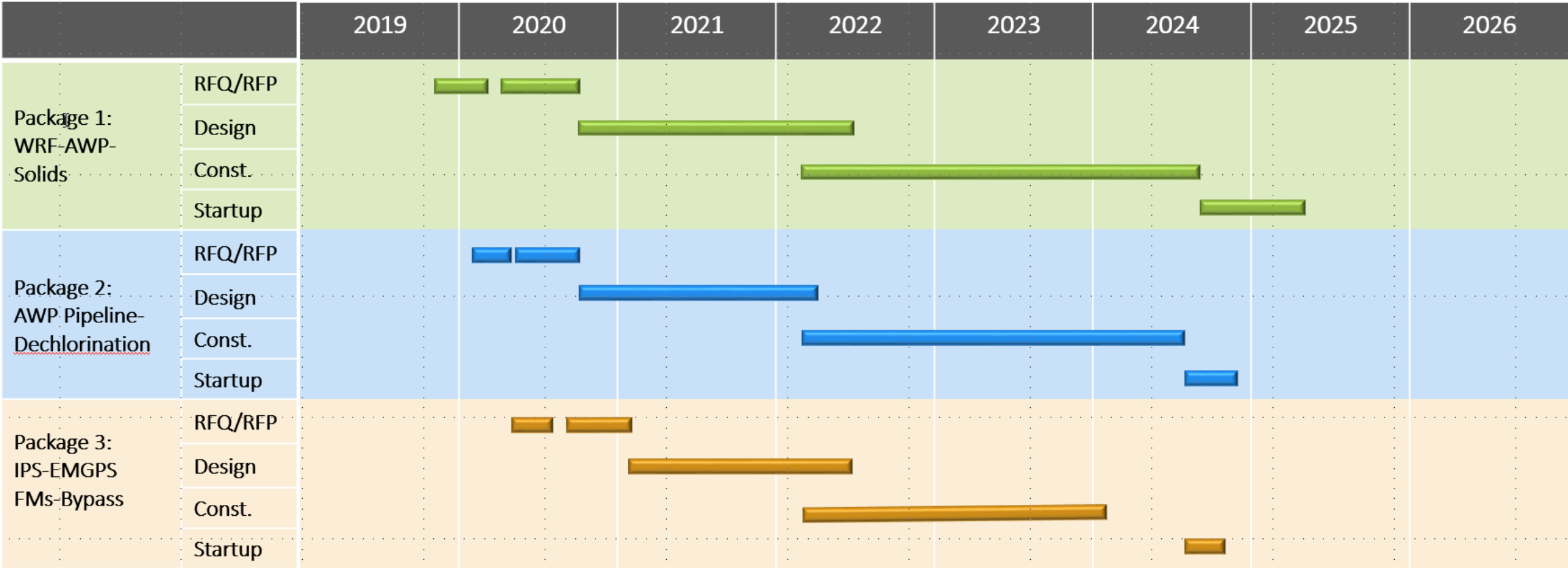


Advanced Water Purification
East County

The **CLEAR** Solution



Advanced Water Purification East County



CONSTRUCTION CONTRACTS



- Design-Bid-Build
- Advertised in the UT
- Additional Information Posted at: www.padredam.org

PROFESSIONAL SERVICES

CIVIL ENGINEERING

Michael Baker
INTERNATIONAL



DUDEK

SURVEYING



AGUIRRE & ASSOCIATES

STRUCTURAL
ENGINEERING

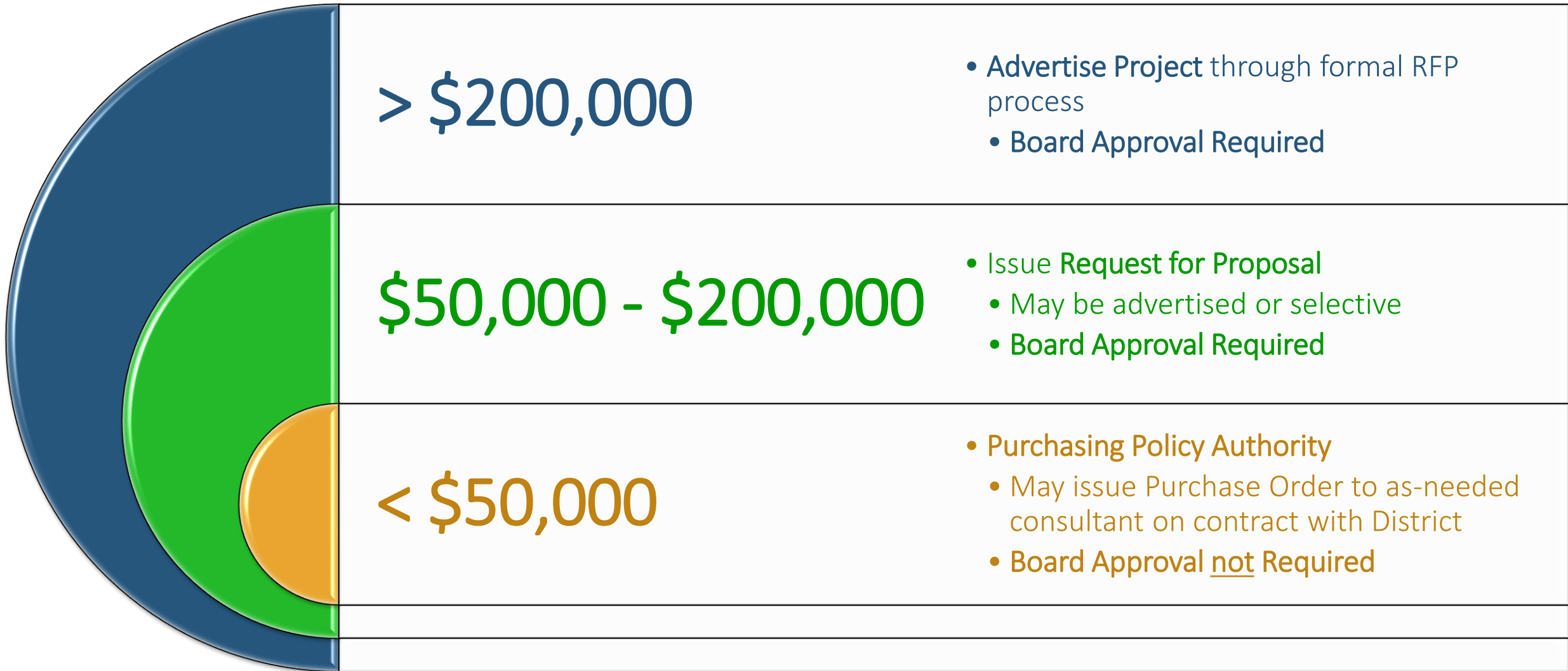


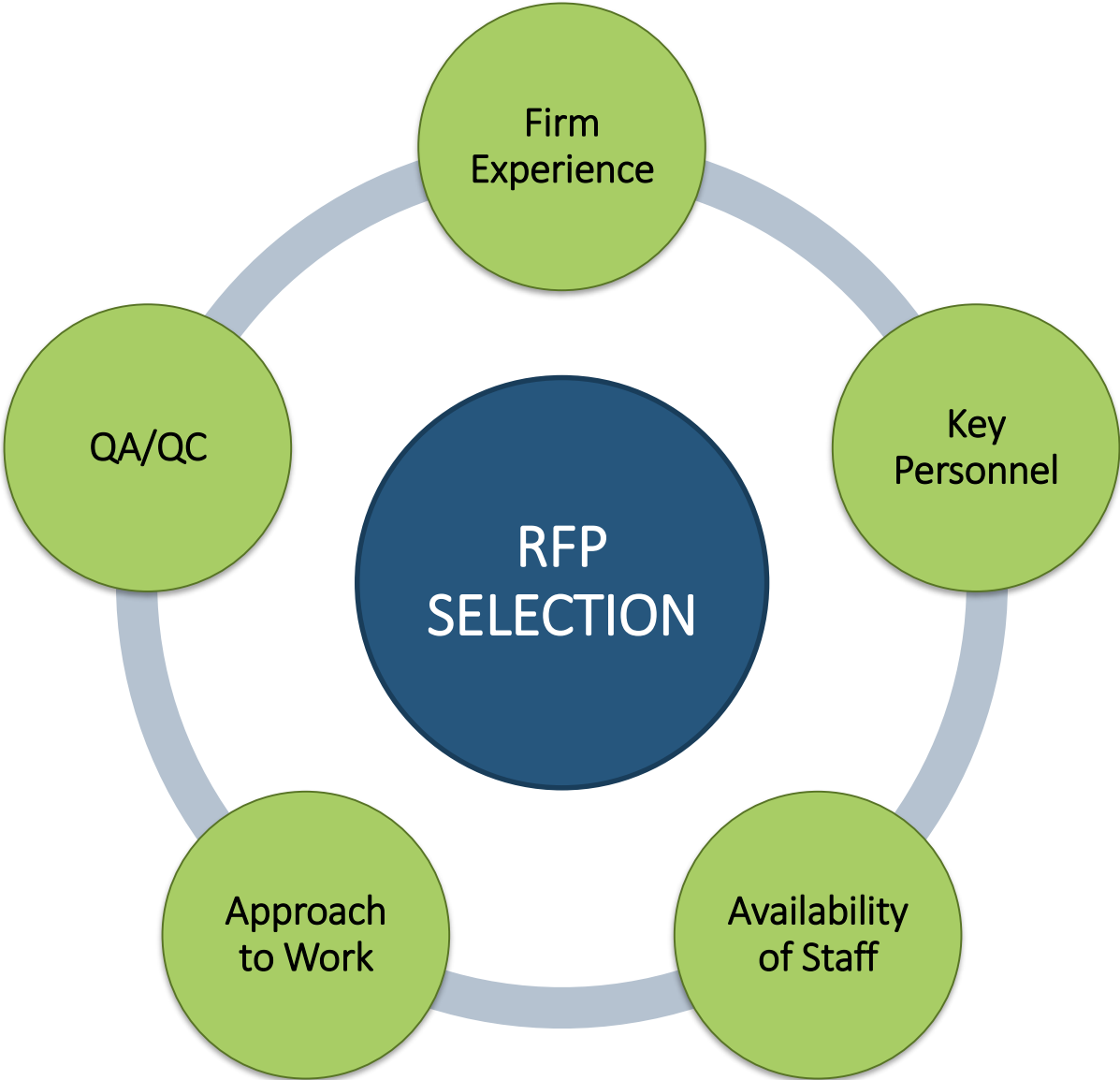
ENVIRONMENTAL
PLANNING

HELIX
Environmental Planning

SOILS INVESTIGATIONS AND SPECIAL INSPECTION









THANK YOU