EPCOR Water
Pecan to New Magma
Reclaim Water Line
Phoenix AMA
Cover Page
February 14, 2020

Melissa Sikes, Water Management Assistance Program
Arizona Department of Water Resources
1110 West Washington Street, Suite 310
Phoenix, AZ 85007

Dear Ms. Sikes:
Thank you for the opportunity to submit this application on behalf of Johnson Utilities for the Water Management Assistance Program’s Groundwater Conservation Grant. Information requested in the program’s grant application follows.

I would be pleased to answer any questions you might have, and can be reached at (623) 587-5203.

Sincerely,

[Signature]

Water Resources Manager
EPCOR Water
2355 W. Pinnacle Peak Road, Suite 300
Phoenix, AZ 85027
1. Program/Project Title/Brief Description:

APPENDIX 3:

<table>
<thead>
<tr>
<th>WMAP Groundwater Conservation Grant Application Cover Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program/Project Title AND Brief Description:</td>
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<tr>
<td>New Reclaimed Water Pipeline to Mitigate the Loss of CAP Water for Metro Phoenix Agribusiness Economy</td>
</tr>
<tr>
<td>• New pipeline to create a permanent, renewable water supply for the New Magma Irrigation and Drainage District (NMIDD)</td>
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<table>
<thead>
<tr>
<th>Type of Program or Project:</th>
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<tbody>
<tr>
<td>Water Innovation &amp; Technology</td>
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<tr>
<td>Infrastructure Water Efficiency</td>
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<tr>
<td>Ecological Enhancement</td>
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<tr>
<td>Public Outreach &amp; Engagement</td>
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<table>
<thead>
<tr>
<th>Your level of commitment to maintenance of project benefits and capital improvements:</th>
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<tbody>
<tr>
<td>☒ 16-20 years</td>
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<table>
<thead>
<tr>
<th>Applicant Information:</th>
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</thead>
<tbody>
<tr>
<td>Name/Organization: EPCOR / Johnson Utilities</td>
</tr>
<tr>
<td>Address: 2355 W. Pinnacle Peak Rd ; #300</td>
</tr>
<tr>
<td>City: Phoenix</td>
</tr>
<tr>
<td>State: AZ</td>
</tr>
<tr>
<td>ZIP Code: 85027</td>
</tr>
<tr>
<td>Phone: 623-587-5203</td>
</tr>
<tr>
<td>Tax ID No.:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact Person:</th>
</tr>
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<tbody>
<tr>
<td>Name: Doug Dunham</td>
</tr>
<tr>
<td>Title: Water Resources Manager</td>
</tr>
<tr>
<td>Phone: 623-587-5203</td>
</tr>
<tr>
<td>e-mail: <a href="mailto:ddunham@epcor.com">ddunham@epcor.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Management Assistance Program Grant Amount Requested:</th>
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<tr>
<td>$ 500,000.00</td>
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<th>Additional Contribution Obtained and Secured:</th>
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<tbody>
<tr>
<td>Applicant/Agency/Organization:</td>
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<td>Amount ($)</td>
</tr>
<tr>
<td>1. Applicant</td>
</tr>
<tr>
<td>$2,110,960.00</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>Project Total: $2,110,960.00</td>
</tr>
</tbody>
</table>

Signature of the undersigned certifies understanding and compliance with all terms, conditions and specifications in the application. Additionally, signature certifies that all information provided by the applicant is true and accurate. The undersigned acknowledges that intentional presentation of any false or fraudulent information, or knowingly concealing a material fact regarding this application is subject to criminal penalties as provided in A.R.S. Title 13. The ADWR Director may approve Grant Awards with modifications to scope items, methodology, schedule, final products and/or budget.

Douglas W. Dunham
Water Resources Manager

Name of Applicant / Authorized Representative
623-587-5203

Telephone Number
Signature
Date Signed

WMAP Groundwater Conservation Grant Application — Johnson Utilities
Project Map
Agriculture in the Greater Phoenix area is at risk: Facing unprecedented population growth and CAP water reductions, farmers/producers are worried about future water supplies. From 2010 through 2018, the population of Maricopa County grew by 15% (3.8 to 4.4 million), increasing pressure on both economic and natural resources, particularly water. Access to ample water supplies now imperils the market value of agricultural sales worth $1.2 billion in 2017.

In 2019 stakeholders in Arizona came together with stakeholders from other Lower Colorado River Basin states to address increasing drought impacts on the Colorado River. The result of this landmark effort was Arizona’s participation in the Lower Basin Drought Contingency Plan (DCP). This plan increased conservation across the lower basin with the primary goal to save water in Lake Mead to bolster the lake’s elevation and lower the risk of shortages. Arizona stakeholders agreed to off-set reductions to agricultural users under DCP by making alternate water available. EPCOR on behalf of Johnson Utilities participated in this mitigation effort by pledging reclaimed water to New Magma Irrigation and Drainage District (NMIDD) to offset renewable CAP water supplies lost under the DCP agreement. The alternative for NMIDD is to return to groundwater pumping.

This proposal requests partial funding to construct a reclaimed water distribution pipeline from the Pecan Wastewater Treatment Plant (WWTP) to the New Magma Irrigation and Drainage District (NMIDD) in the Phoenix AMA. Our grant application requests $500,000 to cover 19% of project equipment and construction costs.

EPCOR/Johnson Utilities is the only private water company participating in the DCP’s Mitigation Agreement, and we have committed up to 2,200 acre-feet annually of reclaimed water to be delivered to NMIDD as a mitigation offset to reduce the impacts of loss of renewable supplies under the DCP. Without this reclaimed water, NMIDD’s likely remedy is to increase groundwater pumping. The district estimated the projected supply represents 2 1/2 additional irrigation supply wells that would be required without this supply. This supply will represent 15% of demands within the district’s A-System (5% of the total district demand). This renewable supply represents about 35% of the additional groundwater supply the district is seeking to make up for the losses under the DCP agreement. Most notably, our project will make available a permanent renewable water supply to NMIDD, both directly and via recharged aquifer, beyond the term of the DCP mitigation. This offset of groundwater pumping supports the Management Goals of the Phoenix AMA.

The new pipeline will be co-located adjacent to existing NMIDD lines and easements, wherever possible. The remainder of the pipeline route will be within existing public utility easement ROW’s and terminate at the top of NMIDD’s irrigation distribution system. Reclaimed water will then be distributed via the existing irrigation distribution system and associated Groundwater Savings Facility (GSF) of NMIDD.

Currently, we are updating and expanding the Pecan Wastewater Treatment Plant to increase capacity, which will nearly double the supply of reclaimed water to NMIDD through this new pipeline.
Executive Summary
The Pecan to New Magma Reclaim Water Line project is in support of the DCP off-set agreement. Grant request is for partial support of equipment and construction cost to complete a reclaim water line from Johnson Utilities Pecan WWTP to the upper head gates of the New Magma Irrigation and Drainage District. The project will enable the delivery of up to 2,200 acre-feet per year of reclaim water to the district to off-set reductions under DCP. Grant application request represents about 19% of the construction and equipment cost of the project. The request does not include other ancillary, project management, engineering or permitting costs. The reclaim supply will reduce the need of an estimated additional 2 & 1/2 wells by the District that otherwise would need to be drilled or obtained under the DCP agreement. This supply represents about 35% of the additional groundwater that the District would need to pump to off-set the impacts of DCP. The reclaim water will be delivered and used by the District under their existing GSF and all deliveries will be metered according to ADWR requirements. The intent is to complete the project by 2021 and the water line and supply will remain in place permanently past the 2026 DCP time frame.
Project Overview
3. Project Overview

(a) Clearly identify the problem and the project area (project area overview/location, need for the work, demonstration of groundwater conservation, etc.).

Under the Drought Contingency Plan (DCP), Arizona will reduce its use of the state’s Colorado River allocation in conjunction with other conservation and water management activities agreed to by the Bureau of Reclamation, the Lower Basin states and the Republic of Mexico. As part of this agreement, Colorado River supplies available today will be reduced based on river conditions or shortage tiers whose reduction volume depends on which tier the river operates.

These reductions will result in the loss of lower priority CAP water, and will impact significantly the Agricultural Pool. Parties within Arizona agreed that certain higher priority CAP water and other water sources will be available to minimize the impact of the loss of the lower priority CAP supply to farmers and irrigation districts, but this is the only proposal under DCP to make water available past the DCP timeline of 2026. Our proposed reclamation pipeline from the Pecan WWTP to the New Magma Irrigation and Drainage District (NMID) supports a long-term solution.

Without DCP’s renewable water supplies, farmers and irrigation districts likely will pump more groundwater to make up for the entire loss of Agricultural Pool water. NMID serves as a primary example. Located in the San Tan Valley area (the southeast portion of the Phoenix AMA), NMID likely will increase groundwater pumping to offset reductions in the CAP supply under DCP. EPCOR, as interim manager for Johnson Utilities, is proposing to reduce NMID’s need for additional groundwater pumping by making reclaimed water available.

(b) Describe how this project directly or indirectly conserves groundwater and shows significant groundwater saving within the AMA.

Currently the Pecan WWTP is producing 2.17 million gallons per day (mgd) and is expected to increase production up to 4 mgd. The entire 2,200AFY is expected to be made available to NMID to offset groundwater pumping. The reclaimed supply will be directed to NMID’s existing Groundwater Savings Facility (GSF) to offset groundwater pumping on a gallon-for-gallon basis.
(c) Describe the measurement and monitoring methods that will be used to determine the effectiveness of the project. Examples of metrics might include comparing pre- and post-project water use; water savings; scientific data collections and reporting methods; or pre- and post-program surveys to verify project results.

Reclaimed effluent flows will be metered leaving the Pecan WWTP and at the terminus of the proposed reclamation pipeline as it enters the NMIDD irrigation system. This metering will be reported to ADWR as required under the existing GSF permit.

(d) Demonstrate how the project is consistent with the management plan and the management goal of the AMA.

The use of reclaimed water, replacing groundwater, is consistent with the conservation requirements of the Phoenix AMA Management Plan. Reduction of groundwater use by replacing it with reclaimed water use is consistent with the Management Goal of Safe Yield in the Phoenix AMA.

(e) Describe how the proposed project benefits multiple water users and/or stakeholders and, if applicable, provide support letters from individuals and entities that will benefit from the project.

**Direct Beneficiaries of Pipeline:**

- Enabling beneficial use of reclaimed water benefits Johnson Utilities’ abilities to serve our customers efficiently, while contributing to needed water supply. Among the JU system’s irregular challenges, the Pecan WWTP has overflowed in the past, and excess water was wasted in nearby washes. We have worked diligently to mitigate these occurrences and now will be able to direct more reclaimed water to end users.
- Providing a drought-proof, renewable water supply that preserves groundwater provides benefits for NMIDD, its members, as well as for the broader region. This project represents a forward-looking commitment to conservation.

**Indirect Beneficiary of Pipeline:**

- All CAP and Colorado River water users in Arizona benefit indirectly because the project helps to facilitate the DCP agreement.
February 13, 2020

Melissa Sikes  
Arizona Department of Water Resources  
1110 W. Washington St., Suite 310  
Phoenix, AZ 85007

RE: EPCOR Groundwater Conservation Grant

Dear Ms. Sikes:

I am writing in support of EPCOR Water’s (“EPCOR”) application for a Groundwater Conservation Grant through the Water Management Assistance Program.

New Magma Irrigation & Drainage District (“NMIDD”) and EPCOR are developing a project (“Project”) to use treated effluent from the Pecan Wastewater Treatment Plant for irrigation. The Project involves new infrastructure to convey effluent to NMIDD’s system, and in-canal storage that will improve NMIDD’s ability to effectively deliver that water to district farms. NMIDD currently is working with EPCOR and the Bureau of Reclamation to obtain the approvals necessary to co-locate EPCOR’s infrastructure within the NMIDD canal right-of-way, and connect to the canal system, which is a crucial first-step towards completing the Project.

Once completed, the Project will provide a significant, renewable supply of irrigation water for NMIDD farms. This water supply is an important component of NMIDD’s plan to mitigate Central Arizona Project shortfalls under the Drought Contingency Plan, and will continue to supply renewable irrigation water to NMIDD into the future. The effluent made available by the Project is expected to meet approximately 15% of the annual irrigation demand in the portions of the district that will receive it. That water will directly replace groundwater that NMIDD and its farmers otherwise would need to pump each year, and could reduce NMIDD’s pumping in the area by as much as 35%. The grant monies that EPCOR has applied for will help advance the Project and expedite our access to effluent to partially offset our reliance on groundwater.

Thank you for your consideration, and if you have any questions, please do not hesitate to contact me.

Sincerely,

Bill Van Allen  
General Manager  
New Magma Irrigation & Drainage District
(f) If applicable, describe if there is a potential to leverage the project with other proposed or ongoing projects and describe if there are cost-sharing opportunities with the applicant or other parties.

The grant application is for a portion of equipment and construction costs associated with the project. It represents about 19% of the projected equipment and construction costs. This does not include engineering, management and oversight or permitting costs these costs will be borne by the project participants.

(g) If the project is a continuation of ongoing projects, describe how the project has been shown to be effective.

N/A

(h) Describe any duplication or overlap with work that has previously been performed

N/A

(i) Describe how the project will remain effective and sustainable over time.

The proposed pipeline will remain in place permanently (50+ years minimum based on reasonable expectations of population growth and economic development). As long as the irrigation district needs water, this project will serve as an effective solution. It will work in tandem with the Pecan WWTP’s operational lifecycle, which will remain effective and sustainable through planned, ongoing upgrades and enhancements. The reclaimed supply is projected to remain available to NMIDD throughout the lifecycle of the plant.

(j) Describe how this project can be duplicated in other areas within the AMA and throughout the state.

The use of reclaimed water at a GSF is a proven concept that benefits the irrigation district and the local aquifers through reductions in groundwater pumping. Multiple projects across the state have participated already in similar arrangements and are functioning effectively under existing permits.
Scope of Work
4. Scope of work

For each task, please describe in detail the work to be completed, and how it will allow you to accomplish your objectives and achieve your desired results. Tasks should be listed numerically and include the following information:

a) Task number
b) Task title
c) Task purpose/objective
d) Task description
e) Responsible personnel
f) Deliverable description
g) Deliverable due date

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<th>Description</th>
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<th>Estimated Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
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<td>21,120</td>
<td>$ 90.00</td>
<td>$ 1,900,800</td>
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<td>200</td>
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<td>$ 8,000.00</td>
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<td>400</td>
<td>Complete Fire Hydrant Assembly (blow offs)</td>
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<td>4</td>
<td>$ 6,500.00</td>
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<tr>
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<td>$    ###</td>
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<td>$    ###</td>
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<td>$ 100.00</td>
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Subtotal: $ 2,175,800

20% Contingency: $ 435,160

GRAND TOTAL: $ 2,610,960

Responsible personnel: EPCOR USA
Deliverable description: Completed pipeline from Pecan Wastewater to NMID
Deliverable due date: 2021
Budget Breakdown
APPENDIX 4

**Budget Breakdown**

Task 1

Equipment and construction of 16 inch waterline Pecan plant to NMIDD

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<td>b. Fringe Benefits</td>
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<td>c. Travel</td>
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<td>d. Equipment:</td>
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<td>16” DIP waterline</td>
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<td>Fire Hydrant blow off assembly</td>
<td>4 units</td>
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<td>e. Supplies</td>
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<td>f. Contractual</td>
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<td>$0</td>
<td>$0</td>
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<td>g. Construction</td>
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<td>$25,000</td>
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<td>Testing</td>
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<td>400 sq yd</td>
<td>$40,000</td>
<td>$16,000</td>
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<td>60 days</td>
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<tr>
<td>h. Other</td>
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<td>J. Indirect Charges</td>
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<td>$0</td>
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<tr>
<td>k. Total (i &amp; j)</td>
<td>$2,175,800</td>
<td>$500,000</td>
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Budget Narrative
5. **Budget Narrative**

Grant Request is for funding assistance with the construction and equipment associated with completion of a 16 inch water line from the existing Pecan Waste Water Treatment Plant (WWPT) to the upper head gates of the New Magma Irrigation and Drainage District (NMIDD) located in the Phoenix AMA. The Grant request is for a portion of the equipment costs and construction costs. Grant Request is for approximately 19% of the total projected construction and equipment cost of the project. This does not include engineering, and design costs and does not include permitting costs associated with the project. Specific equipment includes: HDPE Pipeline (21,120 linear feet), control valves (6), air release valves (4), fire hydrant & blow off assembly valves (4). Construction activities includes: connection to Pecan WWTP EPS station, valve testing & leak detection/pressure testing, removal of pavement public ROW, replacement of pavement overlay public ROW, and traffic control during ROW construction (60 days).
Additional Contribution Breakdown
6. Additional Contribution Breakdown (if applicable)

Applicants that demonstrate contribution of additional funds towards the project will receive priority. Eligible contributions may be in the form of cash, services, volunteer time, equipment usage, and in-kind contributions and should be clearly described in the project proposal.

The grant application is for a portion equipment and construction costs associated with the project. It represents about 19% of the projected equipment and construction costs. This does not include engineering, management and oversight or permitting costs these costs will be borne by the project participants.
Supplemental Information:

Evidence of Physical and Legal Availability of Water
8. Supplemental Information

The proposed source of supply, reclaimed water, is produced by Johnson Utilities’ Pecan WWTP. Under the John F. Long decision, utility-produced wastewater is owned by that utility until it relinquishes control. As proposed, Johnson Utilities will deliver water directly via this new pipeline to NMIDD. The pipeline will be located in a public utility easement or on an NMIDD-controlled easement, including a mutual access agreement.

The legal availability of the water is proven by the Arizona State Supreme Court decision cited; control of land: the line will be located on existing public right of way easements or co-located with New Magma Irrigation and Drainage District easements — please see NMIDD letter of support, included in the submittal.
Evidence of Control and Tenure of Land
Control and Tenure of Land

Project pipeline will be located within either existing public utility easement or easement held by New Magma Irrigation and Drainage District which is the cooperating entity that will be receiving the reclaim water.
State Historic Preservation Office (SHPO) Review Form
APPENDIX 5:
STATE HISTORIC PRESERVATION OFFICE
Review Form

In accordance with the State Historic Preservation Act (SHPO), A.R.S. 41-861 et seq, effective July 24, 1982, each State agency must consider the potential of activities or projects to impact significant cultural resources. Also, each State agency is required to consult with the State Historic Preservation Officer with regard to those activities or projects that may impact cultural resources. Therefore, it is understood that recipients of state funds are required to comply with this law throughout the project period. All projects that affect the ground-surface that are funded by AWPF require SHPO clearance, including those on private and federal lands.

The State Historic Preservation Office (SHPO) must review each grant application recommended for funding in order to determine the effect, if any, a proposed project may have on archaeological or cultural resources. To assist the SHPO in this review, the following information MUST be submitted with each application for funding assistance:

- A completed copy of this form, and
- A United States Geological Survey (USGS) 7.5-minute map
- A copy of the cultural resources survey report if a survey of the property has been conducted, and
- A copy of any comments of the land managing agency/landowner (i.e., state, federal, county, municipal) on potential impacts of the project on historic properties.  

NOTE: If a federal agency is involved, the agency must consult with SHPO pursuant to the National Historic Preservation Act (NHPA); a state agency must consult with SHPO pursuant to the State Historic Preservation Act (SHPA),

OR

- A copy of SHPO comments if the survey report has already been reviewed by SHPO.

Please answer the following questions:

1. Grant Program: Groundwater Conservation Grant

2. Project Title: Pecan WWTP New Magma Reclaim Line

3. Applicant Name and Address: 2355 W. Pinnacle Peak Rd; Suite 300; Phoenix, AZ 85027

4. Current Landowner/Manager(s): Public ROW and New Magma Irrigation District

5. Project Location, including Township, Range, Section: _____

6. Total Project Area in Acres (or total miles if trail): 4 Miles

7. Does the proposed project have the potential to disturb the surface and/or subsurface of the ground? ☒ YES ☐ NO
8. Please provide a brief description of the proposed project and specifically identify any surface or subsurface impacts that are expected: ______

Installation of 16" water line from existing wastewater treatment plant to new Magma Irrigation District. Construction to include trenching and burial of water line.

9. Describe the condition of the current ground surface within the entire project boundary area (for example, is the ground in a natural undisturbed condition, or has it been bladed, paved, graded, etc.). Estimate horizontal and vertical extent of existing disturbance. Also, attach photographs of project area to document condition: ______ Highly disturbed condition. Pipeline to be located along existing streets, district irrigation system and gravel pit.

10. Are there any known prehistoric and/or historic archaeological sites in or near the project area?  

☐ YES  ☒ NO

11. Has the project area been previously surveyed for cultural resources by a qualified archaeologist?  

☒ YES  ☐ NO  ☐ UNKNOWN

Note: Use Bureau of Reclamation / Will require a resurvey of project route.

If YES, submit a copy of the survey report. Please attach any comments on the survey report made by the managing agency and/or SHPO

12. Are there any buildings or structures (including mines, bridges, dams, canals, etc.), which are 50-years or older in or adjacent to the project area?  

☐ YES  ☒ NO

If YES, complete an Arizona Historic Property Inventory Form for each building or structure, attach it to this form and submit it with your application.

13. Is your project area within or near a historic district?  

☐ YES  ☒ NO

If YES, name of the district:

Please sign on the line below certifying all information provided for this application is accurate to the best of your knowledge.

Applicant Signature / 2/14/2020  

Douglas W. Dunham  

Applicant Printed Name

FOR SHPO USE ONLY

☐ Funding this project will not affect historic properties.

☐ Survey necessary – further GRANTS/SHPO consultation required (grant funds will not be released until consultation has been completed)

☐ Cultural resources present – further GRANTS/SHPO consultation required (grant funds will not be released until consultation has been completed)
Application Checklist
APPENDIX 2:

ARIZONA DEPARTMENT OF WATER RESOURCES
WMAP Groundwater Conservation Grant Application Checklist

☑ Project Proposal
  ☑ Cover Letter
  ☑ Executive Summary
  ☑ Project Overview
  ☑ Scope of Work
  ☑ Budget Breakdown & Narrative
  ☑ Additional Contribution Breakdown (if applicable)
  ☑ Project Map
  ☑ Supplemental Information
    ☑ Evidence of physical and legal availability of water
    ☑ Evidence of Control and Tenure of Land
    ☑ State Historic Preservation Office Review Form