

AN ORDINANCE **2017-03-02-0129**

AUTHORIZING TWO (2) FUNDING AGREEMENTS: ONE WITH THE UNIVERSITY OF TEXAS SAN ANTONIO (UTSA) IN AN AMOUNT NOT TO EXCEED \$1,069,113.00, AND ONE WITH THE UNITED STATES GEOLOGICAL SURVEY (USGS) IN AN AMOUNT NOT TO EXCEED \$432,500.00, FOR WATER QUALITY DEMONSTRATION PROJECTS UNDER THE PROPOSITION 1 EDWARDS AQUIFER PROTECTION PROGRAM FOR A PERIOD OF THREE (3) YEARS.

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WHEREAS, in May 2015, voters renewed for the third time the Proposition 1 Edwards Aquifer Protection Program, funded through a portion of a 1/8-cent sales tax in the amount of \$100 million; and

WHEREAS, previous elections set the initiative at \$90 million and included Edwards Aquifer protection efforts beyond Bexar County; and

WHEREAS, the current voter-approved Proposition 1 tax includes \$10 million dedicated for aquifer protection projects within urbanized areas of Bexar County's recharge and contributing zones to help improve aquifer water quality; and

WHEREAS, this was designed to serve as a targeted new water quality initiative and no similar water protection effort exists across the state; and

WHEREAS, these projects have come to be known as "demonstration projects" for which the City is establishing the market; and

WHEREAS, in April 2016, the City entered into an interlocal agreement (ILA) with the San Antonio River Authority (SARA) to serve as project manager for the \$10 million "demonstration project" component of the Edwards Aquifer Protection Program; and

WHEREAS, as project manager SARA convened stakeholder meetings to assess demonstration project needs and define its scope; and

WHEREAS, through this process SARA created a Technical Advisory Committee (TAC), comprised of key industry experts, City staff, and representatives from both the development and conservation communities; and

WHEREAS, once convened, the TAC created the scoring tool used to assess project submissions. Eligible projects include previously developed areas not meeting current Texas Commission on Environmental Quality (TCEQ) standards; and

WHEREAS, funding for new development or redevelopment projects will cover only the cost of the Best Management Practices (BMPs) that exceed minimum TCEQ permit requirements; and

WHEREAS, construction projects must accommodate collection of pre- and post-construction storm water monitoring (SWM) data; and

WHEREAS, projects may also be research based and should assess major threats to groundwater quality; develop specific BMP long-term performance and life cycle costs; forecast regional impacts of urban development on groundwater quality; and/or evaluate the effectiveness of BMP innovations in preventing pollution of groundwater; and

WHEREAS, SARA's initial solicitation ran from May through June 2016 and yielded 12 demonstration project submissions; and

WHEREAS, from those 12 submissions, two project proposals scored the highest in the two identified project categories: New Construction/Retrofit for the University of Texas at San Antonio (UTSA) and Research / Data for the United States Geological Survey (USGS); and

WHEREAS, these two projects were endorsed for recommendation to City Council by the Conservation Advisory Board on October 26, 2016; and

WHEREAS, UTSA's demonstration project consists of a low-impact development (LID) test bed implementation plan to monitor the pre- and post-LID BMP's for storm water runoff on the UTSA main campus; and

WHEREAS, this project will report out on the effectiveness of existing BMPs as well as develop a water sustainability and LID module to be used as an education resource; and

WHEREAS, UTSA faculty and students will also provide tours of the LID projects to low-income K-12 students to help increase awareness of LID; and

WHEREAS, the USGS' demonstration project will assess and characterize the connection between storm water runoff to groundwater quality through the use of two surfaces and groundwater monitoring systems; and

WHEREAS, USGS will report out on its scientific investigations and produce a public fact sheet; and

WHEREAS, this ordinance authorizes the execution of two funding agreements; **NOW THEREFORE:**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

SECTION 1. The City Manager or her designee or the Director of the Parks and Recreation Department or his designee is authorized to execute two funding agreements: one with the University of Texas San Antonio in an amount not to exceed \$1,069,113.00, and one with the United States Geological Survey in an amount not to exceed \$432,500.00, for water quality demonstration projects under the Proposition 1 Edwards Aquifer Protection Program for a period of three (3) years. A copy of each funding agreement in substantially final form are attached hereto and incorporated herein for all purposes as **Attachment I** and **II**.

SECTION 2. Funding in the amount of \$1,501,613.00 is available in SAP Fund 40099000, Other Capital Projects and SAP Project 26-00638, Edwards Aquifer Protection Program.

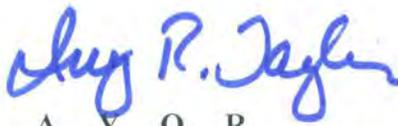
SECTION 3. Payment in the amount of \$1,069,113.00 is authorized and should be encumbered with a purchase order and made payable to the University of Texas at San Antonio.

SECTION 4. Payment in the amount of \$432,500.00 is authorized and should be encumbered with a purchase order and made payable to the United States Geological Survey.

SECTION 5. The financial allocations in this Ordinance are subject to approval by the Director of Finance, City of San Antonio. The Director of Finance may, subject to concurrence by the City Manager or the City Manager's designee, correct allocations to specific SAP Fund Numbers, SAP Project Definitions, SAP WBS Elements, SAP Internal Orders, SAP Fund Centers, SAP Cost Centers, SAP Functional Areas, SAP Funds Reservation Document Numbers, and SAP GL Accounts as necessary to carry out the purpose of this Ordinance.

SECTION 6. This Ordinance is effective immediately upon the receipt of eight affirmative votes; otherwise, it is effective ten days after passage.

PASSED AND APPROVED this 2nd day of March, 2017.


M A Y O R
Ivy R. Taylor

ATTEST:


Leticia M. Vacek, City Clerk

APPROVED AS TO FORM:


Andrew Segovia, City Attorney

Agenda Item:	12 (in consent vote: 4, 5, 7, 8, 9, 12, 13, 15)						
Date:	03/02/2017						
Time:	09:27:03 AM						
Vote Type:	Motion to Approve						
Description:	An Ordinance authorizing two funding agreements: one with the University of Texas San Antonio in an amount not to exceed \$1,069,113.00, and one with the United States Geological Survey in an amount not to exceed \$432,500.00, for water quality demonstration projects under the Proposition 1 Edwards Aquifer Protection Program for a period of three years; and the execution of necessary documents by the Director of Parks and Recreation. [María Villagómez, Assistant City Manager; Xavier Urrutia, Director, Parks and Recreation]						
Result:	Passed						
Voter	Group	Not Present	Yea	Nay	Abstain	Motion	Second
Ivy R. Taylor	Mayor		x				
Roberto C. Treviño	District 1		x			x	
Alan Warrick	District 2		x				
Rebecca Viagran	District 3		x				x
Rey Saldaña	District 4		x				
Shirley Gonzales	District 5		x				
Ray Lopez	District 6		x				
Cris Medina	District 7		x				
Ron Nirenberg	District 8		x				
Joe Krier	District 9	x					
Michael Gallagher	District 10		x				

Funding Agreement for Implementation of a Low Impact Development Test Bed at The University of Texas at San Antonio Main Campus Project under the Proposition 1 Edwards Aquifer Protection Projects within Urbanized Areas of Bexar County's Recharge and Contributing Zones Program

This Proposition 1 Edwards Aquifer Protection Projects within Urbanized Areas of Bexar County's Recharge and Contributing Zones Funding Agreement (Funding Agreement) is between the City of San Antonio (City), the San Antonio River Authority (River Authority), and The University of Texas at San Antonio (Funding Recipient), collectively the "Parties." The Parties understand and agree that this Funding Agreement documents the roles and responsibilities of each of the Parties in the City's Proposition 1 Edwards Aquifer Protection Projects within Urbanized Areas of Bexar County's Recharge and Contributing Zones Program (Program). The Parties agree to comply with the terms of this Funding Agreement (Agreement).

Background

Proposition 1, the Edwards Aquifer Protection Venue Project, authorizes the City to continue the voter-approved watershed and preservation project initiated in 2000 and continued in 2005, 2010, and 2015. A 1/8 cent sales tax is projected to collect \$100 million for this project. Of the \$100 million projected to be collected pursuant to the 2015 authorization, \$90 million will continue to be used toward the purchase of conservation easements and acquisition of real estate interests over the sensitive recharge and contributing zones of the aquifer. The remaining \$10 million is dedicated for Program-funded projects that will protect and improve Edwards Aquifer water quality. The Funding Recipient's Implementation of a Low Impact Development Test Bed at The University of Texas at San Antonio Main Campus Project (Project) has received both Conservation Advisory Committee (CAB) and City of San Antonio City Council (Council) funding approval and is the subject of this Agreement. The primary project goal is to implement and monitor performance of a hybrid low impact development (LID) best management practice (BMP) basin that contains four bioretention cells (two lined and two unlined) and two sand filter cells, each with soil media and plants that the Project's research has determined are top performers for constituent infiltration and treatment.

Funding

The City has authorized and will contribute \$1,069,113 for the Project. The funding amount is documented by the detailed information in Exhibit A. All Parties acknowledge and agree that \$1,069,113 is the full amount authorized by this Funding Agreement, and no additional funds will be claimed by the Funding Recipient, unless this amount is modified through an amendment executed by all of the Parties.

Limitation

A potential limiting factor for the Project would be the identification of karst features at the location where the Project's test beds are to be installed. The Texas Commission on Environmental Quality (TCEQ) requires that construction activity cease pending TCEQ evaluation. In the event that TCEQ ceases this Project as proposed, the Parties will work together in good faith to revise the scope of the Project in such a way so as to achieve the Project objectives and will revise the budget accordingly. The revised scope and budget will require approval of all the Parties. If the revised scope and budget are not approved by all of the Parties, any of the Parties may elect to terminate this Agreement, and the Parties shall have no further obligations to each other.

City of San Antonio Acknowledges and Agrees

1. River Authority will serve as project manager and administrator of the Program.
2. Funding shall be paid to the Funding Recipient after River Authority verification of satisfactory performance of work in accordance with the payment schedule attached as Exhibit B and the completion of Funding Recipient's project milestones and deliverable dates, attached as Exhibit C.

River Authority Acknowledges and Agrees

1. River Authority will serve as project manager and administrator of the Program.
2. River Authority is responsible to the City to ensure quality and timely implementation of Project components and future monitoring of aquifer protection and improvement projects funded through the Program.
3. River Authority will coordinate payment to the Funding Recipient in a timely manner per Exhibits A and B.

Funding Recipient Acknowledges and Agrees

1. Funding for construction/retrofit projects will cover only the cost of BMPs that go above minimum TCEQ permit requirements and the cost of any research/study components associated with the BMPs. Funding will not cover any base project costs or the cost of installing minimum BMPs. Exceptions may be made for projects that were grandfathered from meeting TCEQ Edwards Protection Standards (Standards) or were developed before the Standards were implemented and that will utilize funding to bring the development to current TCEQ permitting standards.
2. Construction/retrofit projects must accommodate collection of pre- and post-construction stormwater monitoring (SWM) data. Depending on site characteristics and construction footprint, SWM data may be conducted in undisturbed areas of the site concurrent with construction within the development footprint.

3. Post-construction SWM data must be collected on the Project for a period of three years after Project construction.
4. A BMP performance report incorporating pre- and post-construction BMP data must be provided to River Authority within six months following _____. Said report must assess BMP performance toward protecting and/or improving Edwards Aquifer water quality.
5. Research/study components of construction/retrofit projects are intended to identify and assess major threats to groundwater quality; develop specific BMP long-term performance and life cycle costs; forecast regional impacts of urban development on groundwater quality; and evaluate the effectiveness of BMP innovations in preventing pollution of groundwater. Said assessments must also be included in the performance report.
6. Funding Recipient shall coordinate construction/retrofit of Project BMPs using licensed landscape professionals. It is preferred that said professionals have acquired the Bexar County/San Antonio River Authority LID Design and Construction Inspection Registration.
7. All constructed BMP elements shall conform to guidelines defined in the San Antonio River Basin: Low Impact Development Technical Guidance Manual. Any exceptions are noted in Exhibit D.
8. BMP construction details must be approved by the River Authority in writing prior to start of construction.
9. All funded as-built alterations to BMP design and material substitutions must be approved by the River Authority in writing.
10. Any alterations to BMP design or material substitutions not approved by the River Authority in writing may result in funding being delayed until corrected and approved in writing by the River Authority or being rescinded completely.
11. BMPs must comply with TCEQ guidelines or secure pilot project authorization from TCEQ prior to receiving funding from City.
12. The Project shall produce the following deliverables:
 - a. Optimal bioretention design for San Antonio using bioretention columns experiments.
 - b. Full-scale BMP test bed, composed of a series of parallel bioretention and sand filter cells.
 - c. Monitoring before and after the implementation of the BMP LID test bed.
 - d. Education of the public and students about stormwater sustainability.
13. The Project shall answer the following questions:
 - a. What are the water quality differences between treating stormwater with sand filter and bioretention basins?
 - b. What are the water quality differences between treating stormwater with and without liners?

- c. How much recharge can be generated in an unlined BMP?
- d. What is the best design of bioretention basins in terms of soil and plants for the San Antonio region?

14. The Project's major milestones include:

- a. Final definition of site location,
- b. Design of test beds, including selection of top-performing soil media and plants.
- c. BMP implementation,
- d. Monitoring implementation, and
- e. Educational modules.

15. The Project's major phases are as follows:

- a. In the first year, during design and construction, the Funding Recipient will perform a series of pilot scale studies to identify the optimal combination of soil media and plants using a minimum of thirteen bioretention columns. Based on the bioretention column results, the best two designs will be implemented in the bioretention cells and assessed during the last two years of the project.
- b. Concurrent with the bioretention column experiments, pre-LID BMP implementation monitoring will be conducted at the site where the LID BMP bioretention cells will be installed. It is estimated that ten storm events will be monitored. Water samples will be analyzed in the University of Texas at San Antonio (UTSA) Environmental Engineering Laboratory.
- c. The Funding Recipient will plan, design, and construct two parallel 2,000 ft. bioretention systems (one with liner and another without liner). The BMPs will be sited on the UTSA Main Campus behind the Margaret Batts Tobin Laboratories (Latitude: 98°37'48.4001"W; Longitude: 29°35'1.3943"N). The site drains approximately 8.17 acres of parking lots, rooftops and landscapes. Currently this drainage area is not being treated by any stormwater treatment method.
- d. Once the LID BMP is constructed, two years of post-development monitoring will be performed. It is estimated that ten storm events will be sampled per year. For each storm, flow measurements and water sampling will be performed in seven monitoring locations (one inlet and six outlets). In each location, it is estimated that six samples will be collected in average per storm event, totaling 420 samples per year. All the samples (420 samples per year) will be analyzed at the Environmental Engineering Laboratory at the UTSA Main Campus and fifty samples will be sent to certified lab for water quality verification of results.
- e. Also after the BMPs have been constructed, UTSA will
 - i. Develop water sustainability and LID modules for the sophomore-level Environmental Engineering course and the senior-level Water Resources Engineering course; and
 - ii. Provide tours for K-12 underserved students/schools at the project site.

16. The City may rescind the funding in whole or in part if milestones are missed or the project falls behind schedule, subject to force majeure.
17. Funding Recipient has a sixty calendar-day grace period from agreed Project end date to complete BMPs, subject to force majeure.
18. Funding Recipient may request an extension in writing up to fifteen business days before the original project end date.
19. Any decisions regarding the extension to the project end date shall be made by the River Authority in coordination with the City.
20. During BMP construction, the Funding Recipient's contractor must protect soil from compaction and repair any damage done thereto to ensure proper BMP function.
21. Construction shall be inspected and approved in writing by the River Authority and Funding Recipient prior to final payment.
22. Construction shall be completed by _____ subject to force majeure.
23. Funding Recipient shall develop an operations and maintenance manual for all BMPs covered by the Funding Agreement satisfactory to the River Authority.
24. Funding Recipient shall perform all actions outlined in the operations and maintenance manual at Funding Recipient's expense for a period of three years from project end date.
25. It is preferred but not required that persons performing the operations and maintenance have obtained the Bexar County/River Authority LID Annual Inspection and Maintenance Certification.
26. Funding Recipient is aware that presentations may be requested by the River Authority, the City, the CAB, San Antonio City Council, or other governing or advisory bodies associated with the Program.
27. Funding Recipient agrees to be available for presentations to the best of its ability.
28. Funding Recipient shall acknowledge the City in any signage placed at project site, or in any news releases or other publications relating to the work performed under this Funding Agreement. News releases or other publications must be sent to the River Authority for review before they are sent to any outside party. Failure to send any news or publication release to the River Authority for review shall not result in a breach of this Funding Agreement.
29. Funding Recipient is aware that media interviews may be requested and/or coordinated by the City or the River Authority as a result of this project.
30. Funding Recipient agrees to be available for interviews to the best of its ability.
31. Funding Recipient grants the City and the River Authority, their representatives and employees the right to take photographs, videos, and other forms of media of the awarded Project.
32. Funding Recipient authorizes the City and the River Authority, their assigns and transferees to copyright, use and publish photographs, videos, and other forms of media in print and/or electronically.

33. Funding Recipient agrees to transfer the operations and maintenance agreement if the property is sold or transferred.
34. If any BMP covered by the Funding Agreement fails to perform as designed during the three year operations and maintenance period, the Funding Recipient shall either repair the BMP to functional status to the satisfaction of the River Authority or refund the City the amount funded for that BMP.
35. Funding shall be paid by the City to the Funding Recipient by the City after the River Authority verification of satisfactory performance of work in accordance with the payment schedule attached as Exhibit B and the completion of the Funding Recipient's project milestones and deliverable dates, attached as Exhibit C.
36. Funding Recipient warrants and represents that it will comply with all Federal, State and Local laws and regulations applicable to Funding Recipient's use of City Funds for this project. To the extent applicable, Grantee agrees to abide by the following laws in its expenditures of City Funds:
 - a. Chapter 252 of the Texas Local Government Code, or other competitive contracting processes allowed for as express exceptions to Chapter 252.
 - b. Government Code chapter 2258 and Ordinance No. 71312 regarding Prevailing Wage Rate regulations required for certain contracts, including ensuring that its construction contractor shall collect and monitor weekly certified payrolls and perform site visits to ensure the prevailing wage is being paid to all workmen. City has the right to audit certified payroll records as necessary in accordance with this Agreement. Upon audit of the records and certified payrolls under this section, should the City or its auditors find any violations, Funding Recipient shall cause its contractor to forfeit as a penalty to the City \$60.00 for each laborer, workman, or mechanic employed, for each calendar day, or portion thereof, that such laborer, workman or mechanic is paid less than the said stipulated rates for any work done under said contract, by the contractor or any subcontractor. The establishment of prevailing wage rates in accordance with Chapter 2258, Texas Government Code shall not be construed to relieve Funding Recipient from its obligation under any federal or state law regarding the wages to be paid to or hours worked by laborers, workmen or mechanics insofar as applicable to the work to be performed under this Agreement.
37. At any time during normal business hours and as often as City may deem necessary, upon three (3) days written notice, Funding Recipient shall make all of its records pertaining to this Agreement available to City or any of its authorized representatives, and shall permit City or any of its authorized representatives to audit, examine, and make excerpts and/or copies of same.
38. Funding Recipient agrees and represents that it will cooperate with City, at no charge to the City, to satisfy, to the extent required by law, any and all requests for information received by City under the Texas Public Information Act or related laws pertaining to this Agreement.

39. Funding Recipient shall not transfer, pledge or otherwise assign this Agreement, any interest in and to same, or any claim arising thereunder, without first procuring the written approval of City. Any attempt at transfer, pledge or other assignment shall be void ab initio and shall confer no rights upon any third person.

No Third Party Rights

- A. This Agreement is not intended, nor shall it be construed, to create any third party beneficiary rights in any person who is not a party hereto, unless otherwise expressly herein provided.
- B. Nothing in this Agreement shall be deemed or construed by the parties hereto, or any third party, to create the relationship of principal and agent, partners, joint venturers or any other similar such relationship between the parties hereto. It is understood and agreed that no provision contained herein, nor any acts of the parties hereto, creates a relationship other than the relationship of Lessor and Lessee.

Liability

As government entities, Funding Recipient and City both hereby expressly acknowledge that they are governed by the Texas Tort Claims Act, which is located in Chapter 101 of the Texas Civil Practice and Remedies Code, and nothing in this Agreement shall be construed as a waiver by either of the parties of any of the immunities and protections from liability included therein.

Insurance

Funding Recipient, at its own expense, shall provide and maintain, during the term of this Agreement, either insurance, with or without retention, or a self-insurance program. This insurance or self-insurance shall cover liability for property damage and personal injury associated with Funding Recipient's performance of work under this Agreement.

SBEDA Ordinance Compliance Provisions

A. SBEDA Program

The CITY has adopted a Small Business Economic Development Advocacy Ordinance (Ordinance No. 2010-06-17-0531 and as amended, also referred to as "SBEDA" or "the SBEDA Program"), which is posted on the City's Economic Development (EDD) website page and is also available in hard copy form upon request to the CITY. The SBEDA Ordinance Compliance Provisions contained in this section of the Agreement are governed by the terms of this Ordinance, as well as by the terms of the SBEDA Ordinance Policy & Procedure Manual established by the CITY pursuant to this Ordinance, and any subsequent amendments to this referenced SBEDA Ordinance and SBEDA Policy & Procedure Manual that are effective as of the date of the execution of this Agreement. Unless defined in a contrary manner herein, terms used in this section of the Agreement shall be subject to the same expanded definitions and

meanings as given those terms in the SBEDA Ordinance and as further interpreted in the SBEDA Policy & Procedure Manual.

B. Contract Requirements and Commitment

FUNDING RECIPIENT understands and agrees that the following provisions shall be requirements of this contract, and by its execution, Funding Recipient commits to comply with these requirements. In the absence of a waiver granted by the SBO, failure of Funding Recipient to commit, through fully-documented and signed SBO-promulgated Subcontractor/Supplier Utilization Plan form, to satisfying the SBE and M/WBE subcontracting goals shall constitute default.

Waiver Request - Funding Recipient may request, for good cause, a full or partial Waiver of a **specified subcontracting goal** included in this contract by submitting the *Vendor Subcontracting Waiver Request* form (*which is available at <http://www.sanantonio.gov/SBO/Forms.aspx>*). The Funding Recipient's Waiver request must fully document subcontractor unavailability despite the Funding Recipient's good faith efforts to comply with the goals. Such documentation shall include all good faith efforts made by Funding Recipient including, but not limited to, which subcontractors were contacted (with phone numbers, e-mail addresses and mailing addresses, as applicable) and the method of contact.

C. Definitions

Affirmative Procurement Initiatives (API) – Refers to various Small Business Enterprise, Minority Business Enterprise, and/or Women Business Enterprise (“S/M/WBE”) Program tools and Solicitation Incentives that are used to encourage greater Prime and subcontract participation by S/M/WBE firms, including bonding assistance, evaluation preferences, subcontracting goals and joint venture incentives. (For full descriptions of these and other S/M/WBE program tools, see Section III. D. of Attachment A to the SBEDA Ordinance.)

Centralized Vendor Registration System (CVR) – a mandatory electronic system wherein the City requires all prospective Respondents and Subcontractors that are ready, willing and able to sell goods or services to the City to register. The CVR system assigns a unique identifier to each registrant that is then required for the purpose of submitting solicitation responses and invoices, and for receiving payments from the City. The CVR-assigned identifiers are also used by the Goal Setting Committee for measuring relative availability and tracking utilization of SBE and M/WBE firms by Industry or commodity codes, and for establishing Annual Aspirational Goals and Contract-by-Contract Subcontracting Goals.

Certification or “Certified”– the process by which the Small Business Office (SBO) staff determines a firm to be a bona-fide small, minority-, women-owned, or emerging small business enterprise. Emerging Small Business Enterprises (ESBEs) are automatically eligible for Certification as SBEs. Any firm may apply for multiple Certifications that cover each and every status category (e.g., SBE, ESBE, MBE, or WBE) for which it is able to satisfy eligibility

standards. The SBO staff may contract these services to a regional Certification agency or other entity. For purposes of Certification, the City accepts any firm that is certified by local government entities and other organizations identified herein that have adopted Certification standards and procedures similar to those followed by the SBO, provided the prospective firm satisfies eligibility requirements set forth in this Ordinance in Section III.E.6 of Attachment A.

Commercially Useful Function – an S/M/WBE firm performs a Commercially Useful Function when it is responsible for execution of a distinct element of the work of the contract and is carrying out its responsibilities by actually performing, staffing, managing and supervising the work involved. To perform a Commercially Useful Function, the S/M/WBE firm must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quantity and quality, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether an S/M/WBE firm is performing a Commercially Useful Function, an evaluation must be performed of the amount of work subcontracted, normal industry practices, whether the amount the S/M/WBE firm is to be paid under the contract is commensurate with the work it is actually performing and the S/M/WBE credit claimed for its performance of the work, and other relevant factors. Specifically, an S/M/WBE firm does not perform a Commercially Useful Function if its role is limited to that of an extra participant in a transaction, contract or project through which funds are passed in order to obtain the appearance of meaningful and useful S/M/WBE participation, when in similar transactions in which S/M/WBE firms do not participate, there is no such role performed. The use of S/M/WBE firms by Funding Recipient to perform such “pass-through” or “conduit” functions that are not commercially useful shall be viewed by the CITY as fraudulent if Funding Recipient attempts to obtain credit for such S/M/WBE participation towards the satisfaction of S/M/WBE participation goals or other API participation requirements. As such, under such circumstances where a commercially useful function is not actually performed by the S/M/WBE firm, the Funding Recipient shall not be given credit for the participation of its S/M/WBE subcontractor or joint venture partner towards attainment of S/M/WBE utilization goals, and the Funding Recipient and S/M/WBE firm may be subject to sanctions and penalties in accordance with the SBEDA Ordinance.

Good Faith Efforts – documentation of the Funding Recipient’s or Respondent’s intent to comply with S/M/WBE Program Goals and procedures including, but not limited to, the following: (1) documentation within a solicitation response reflecting the Respondent’s commitment to comply with SBE or M/WBE Program Goals as established by the GSC for a particular contract; or (2) documentation of efforts made toward achieving the SBE or M/WBE Program Goals (e.g., timely advertisements in appropriate trade publications and publications of wide general circulation; timely posting of SBE or M/WBE subcontract opportunities on the City of San Antonio website; solicitations of bids/proposals/qualification statements from all qualified SBE or M/WBE firms listed in the Small Business Office’s directory of certified SBE or M/WBE firms; correspondence from qualified SBE or M/WBE firms documenting their unavailability to perform SBE or M/WBE contracts; documentation of efforts to subdivide work into smaller quantities for subcontracting purposes to enhance opportunities for SBE or M/WBE

firms; documentation of a Prime Contractor's posting of a bond covering the work of SBE or M/WBE Subcontractors; documentation of efforts to assist SBE or M/WBE firms with obtaining financing, bonding or insurance required by the Respondent; and documentation of consultations with trade associations and consultants that represent the interests of SBE and/or M/WBEs in order to identify qualified and available SBE or M/WBE Subcontractors.) The appropriate form and content of Funding Recipient's Good Faith Efforts documentation shall be in accordance with the SBEDA Ordinance as interpreted in the SBEDA Policy & Procedure Manual.

HUBZone Firm – a business that has been certified by U.S. Small Business Administration for participation in the federal HUBZone Program, as established under the 1997 Small Business Reauthorization Act. To qualify as a HUBZone firm, a small business must meet the following criteria: (1) it must be owned and Controlled by U.S. citizens; (2) at least 35 percent of its employees must reside in a HUBZone; and (3) its Principal Place of Business must be located in a HUBZone within the San Antonio Metropolitan Statistical Area. [See 13 C.F.R. 126.200 (1999).]

Independently Owned and Operated – ownership of an SBE firm must be direct, independent and by Individuals only. Ownership of an M/WBE firm may be by Individuals and/or by other businesses provided the ownership interests in the M/WBE firm can satisfy the M/WBE eligibility requirements for ownership and Control as specified herein in Section III.E.6. The M/WBE firm must also be Independently Owned and Operated in the sense that it cannot be the subsidiary of another firm that does not itself (and in combination with the certified M/WBE firm) satisfy the eligibility requirements for M/WBE Certification.

Individual – an adult person that is of legal majority age.

Industry Categories – procurement groupings for the City of San Antonio inclusive of Construction, Architectural & Engineering (A&E), Professional Services, Other Services, and Goods & Supplies (i.e., manufacturing, wholesale and retail distribution of commodities). This term may sometimes be referred to as “business categories.”

Minority/Women Business Enterprise (M/WBE) – firm that is certified as a Small Business Enterprise and also as either a Minority Business Enterprise or as a Women Business Enterprise, and which is at least fifty-one percent (51%) owned, managed and Controlled by one or more Minority Group Members and/or women, and that is ready, willing and able to sell goods or services that are purchased by the City of San Antonio.

M/WBE Directory – a listing of minority- and women-owned businesses that have been certified for participation in the City's M/WBE Program APIs.

Minority Business Enterprise (MBE) – any legal entity, except a joint venture, that is organized to engage in for-profit transactions, which is certified a Small Business Enterprise and also as being at least fifty-one percent (51%) owned, managed and controlled by one or more Minority Group Members, and that is ready, willing and able to sell goods or services that are

purchased by the CITY. To qualify as an MBE, the enterprise shall meet the Significant Business Presence requirement as defined herein. Unless otherwise stated, the term "MBE" as used in this Ordinance is not inclusive of women-owned business enterprises (WBEs).

Minority Group Members – African-Americans, Hispanic Americans, Asian Americans and Native Americans legally residing in, or that are citizens of, the United States or its territories, as defined below:

African-Americans: Persons having origins in any of the black racial groups of Africa as well as those identified as Jamaican, Trinidadian, or West Indian.

Hispanic-Americans: Persons of Mexican, Puerto Rican, Cuban, Spanish or Central and South American origin.

Asian-Americans: Persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands.

Native Americans: Persons having no less than 1/16th percentage origin in any of the Native American Tribes, as recognized by the U.S. Department of the Interior, Bureau of Indian Affairs and as demonstrated by possession of personal tribal role documents.

Originating Department – the CITY department or authorized representative of the CITY which issues solicitations or for which a solicitation is issued.

Payment – dollars actually paid to Funding Recipient and/or Subcontractors and vendors for CITY contracted goods and/or services.

Prime Contractor – the vendor or contractor to whom a purchase order or contract is issued by the City of San Antonio for purposes of providing goods or services for the City. For purposes of this Agreement, this term refers to the Funding Recipient.

Relevant Marketplace – the geographic market area affecting the S/M/WBE Program as determined for purposes of collecting data for the MGT Studies, and for determining eligibility for participation under various programs established by the SBEDA Ordinance, is defined as the San Antonio Metropolitan Statistical Area (SAMSA), currently including the counties of Atascosa, Bandera, Bexar, Comal, Guadalupe, Kendall, Medina and Wilson.

Respondent – a vendor submitting a bid, statement of qualifications, or proposal in response to a solicitation issued by the City. For purposes of this Agreement, Funding Recipient is the Respondent.

Responsible – a firm which is capable in all respects to fully perform the contract requirements and has the integrity and reliability which will assure good faith performance of contract specifications.

Responsive – a firm’s submittal (bid, response or proposal) conforms in all material respects to the solicitation (Invitation for Bid, Request for Qualifications, or Request for Proposal) and shall include compliance with S/M/WBE Program requirements.

San Antonio Metropolitan Statistical Area (SAMSA) – also known as the Relevant Marketplace, the geographic market area from which the CITY’s MGT Studies analyzed contract utilization and availability data for disparity (currently including the counties of Atascosa, Bandera, Bexar, Comal, Guadalupe, Kendall, Medina and Wilson).

SBE Directory - a listing of small businesses that have been certified for participation in the City's SBE Program APIs.

SBE Subcontracting Program – an API in which Prime Contractors or vendors are required to make Good Faith Efforts to subcontract a specified percentage of the value of prime contract dollars to certified SBE firms. Such subcontracting goals may be set and applied by the GSC on a contract-by-contract basis to those types of contracts that provide subcontract opportunities for performing Commercially Useful Functions wherein there have been ongoing disparities in the utilization of available SBE Subcontractors.

When specified by the GSC, the SBE Subcontracting Plan or Good Faith Efforts plan submitted by Funding Recipient may also be required to reflect Good Faith Efforts that a Prime Contractor or vendor has taken (or commits to taking in the case of solicitations that do not include a detailed scope of work or those in which price cannot be considered a factor in evaluation), toward attainment of subcontracting goals for SBE firms.

Significant Business Presence – to qualify for this Program, a S/M/WBE must be headquartered or have a *significant business presence* for at least one year within the Relevant Marketplace, defined as: an established place of business in one or more of the eight counties that make up the San Antonio Metropolitan Statistical Area (SAMSA), from which 20% of its full-time, part-time and contract employees are regularly based, and from which a substantial role in the S/M/WBE's performance of a Commercially Useful Function is conducted. A location utilized solely as a post office box, mail drop or telephone message center or any combination thereof, with no other substantial work function, shall not be construed to constitute a significant business presence.

Small Business Enterprise (SBE) – a corporation, partnership, sole proprietorship or other legal entity for the purpose of making a profit, which is Independently Owned and Operated by Individuals legally residing in, or that are citizens of, the United States or its territories, and which meets the U.S. Small Business Administration (SBA) size standard for a small business in its particular industry(ies) and meets the Significant Business Presence requirements as defined herein.

Small Business Office (SBO) – the office within the Economic Development Department (EDD) of the CITY that is primarily responsible for general oversight and administration of the S/M/WBE Program.

Small Business Office Manager – the Assistant Director of the EDD of the CITY that is responsible for the management of the SBO and ultimately responsible for oversight, tracking, monitoring, administration, implementation and reporting of the S/M/WBE Program. The SBO Manager is also responsible for enforcement of contractor and vendor compliance with contract participation requirements, and ensuring that overall Program goals and objectives are met.

Small Minority Women Business Enterprise Program (S/M/WBE Program) – the combination of SBE Program and M/WBE Program features contained in the SBEDA Ordinance.

Subcontractor – any vendor or contractor that is providing goods or services to a Prime Contractor or Funding Recipient in furtherance of the Prime Contractor's performance under a contract or purchase order with the City. A copy of each binding agreement between the Funding Recipient and its subcontractors shall be submitted to the CITY prior to execution of this contract Agreement and any contract modification Agreement.

Suspension – the temporary stoppage of the SBE or M/WBE firm's beneficial participation in the CITY's S/M/WBE Program for a finite period of time due to cumulative contract payments the S/M/WBE firm received during a fiscal year that exceed a certain dollar threshold as set forth in Section III.E.7 of Attachment A to the SBEDA Ordinance, or the temporary stoppage of Funding Recipient's and/or S/M/WBE firm's performance and payment under CITY contracts due to the CITY's imposition of Penalties and Sanctions set forth in Section III.E.13 of Attachment A to the SBEDA Ordinance.

Subcontractor/Supplier Utilization Plan – a binding part of this contract Agreement which states the Funding Recipient's commitment for the use of Joint Venture Partners and / or Subcontractors/Suppliers in the performance of this contract Agreement, and states the name, scope of work, and dollar value of work to be performed by each of Funding Recipient's Joint Venture partners and Subcontractors/Suppliers in the course of the performance of this contract, specifying the S/M/WBE Certification category for each Joint Venture partner and Subcontractor/Supplier, as approved by the SBO Manager. Additions, deletions or modifications of the Joint Venture partner or Subcontractor/Supplier names, scopes of work, of dollar values of work to be performed requires an amendment to this Agreement to be approved by the EDD Director or designee.

Women Business Enterprises (WBEs) - any legal entity, except a joint venture, that is organized to engage in for-profit transactions, that is certified for purposes of the SBEDA Ordinance as being a Small Business Enterprise and that is at least fifty-one percent (51%) owned, managed and Controlled by one or more non-minority women Individuals that are lawfully residing in, or are citizens of, the United States or its territories, that is ready, willing and able to sell goods or services that are purchased by the City and that meets the Significant Business Presence requirements as defined herein. Unless otherwise stated, the term "WBE" as used in this Agreement is not inclusive of MBEs.

D. SBEDA Program Compliance – General Provisions

As Funding Recipient acknowledges that the terms of the CITY's SBEDA Ordinance, as amended, together with all requirements, guidelines, and procedures set forth in the CITY's SBEDA Policy & Procedure Manual are in furtherance of the CITY's efforts at economic inclusion and, moreover, that such terms are part of Funding Recipient's scope of work as referenced in the CITY's formal solicitation that formed the basis for contract award and subsequent execution of this Agreement, these SBEDA Ordinance requirements, guidelines and procedures are hereby incorporated by reference into this Agreement, and are considered by the Parties to this Agreement to be material terms. Funding Recipient voluntarily agrees to fully comply with these SBEDA program terms as a condition for being awarded this contract by the CITY. Without limitation, Funding Recipient further agrees to the following terms as part of its contract compliance responsibilities under the SBEDA Program:

1. Funding Recipient shall cooperate fully with the Small Business Office and other CITY departments in their data collection and monitoring efforts regarding Funding Recipient's utilization and payment of Subcontractors, S/M/WBE firms, and HUBZone firms, as applicable, for their performance of Commercially Useful Functions on this contract including, but not limited to, the timely submission of completed forms and/or documentation promulgated by SBO, through the Originating Department, pursuant to the SBEDA Policy & Procedure Manual, timely entry of data into monitoring systems, and ensuring the timely compliance of its Subcontractors with this term;
2. Funding Recipient shall cooperate fully with any CITY or SBO investigation (and shall also respond truthfully and promptly to any CITY or SBO inquiry) regarding possible non-compliance with SBEDA requirements on the part of Funding Recipient or its Subcontractors or suppliers;
3. Funding Recipient shall permit the SBO, upon reasonable notice, to undertake inspections as necessary including, but not limited to, contract-related correspondence, records, documents, payroll records, daily logs, invoices, bills,

cancelled checks, and work product, and to interview Subcontractors and workers to determine whether there has been a violation of the terms of this Agreement;

4. Funding Recipient shall immediately notify the SBO, in writing on the Change to Utilization Plan form, through the Originating Department, of any proposed changes to Funding Recipient's Subcontractor / Supplier Utilization Plan for this contract, with an explanation of the necessity for such proposed changes, including documentation of Good Faith Efforts made by Funding Recipient to replace the Subcontractor / Supplier in accordance with the applicable Affirmative Procurement Initiative. All proposed changes to the Subcontractor /Supplier Utilization Plan including, but not limited to, proposed self-performance of work by Funding Recipient of work previously designated for performance by Subcontractor or supplier, substitutions of new Subcontractors, terminations of previously designated Subcontractors, or reductions in the scope of work and value of work awarded to Subcontractors or suppliers, shall be subject to advanced written approval by the Originating Department and the SBO.
5. Funding Recipient shall immediately notify the Originating Department and SBO of any transfer or assignment of its contract with the CITY, as well as any transfer or change in its ownership or business structure.
6. Funding Recipient shall retain all records of its Subcontractor payments for this contract for a minimum of four years, or as required by state law, following the conclusion of this contract or, in the event of litigation concerning this contract, for a minimum of four years, or as required by state law, following the final determination of litigation, whichever is later.
7. In instances wherein the SBO determines that a Commercially Useful Function is not actually being performed by the applicable S/M/WBE or HUBZone firms listed in a Funding Recipient's Subcontractor / Supplier Utilization Plan, the Funding Recipient shall not be given credit for the participation of its S/M/WBE or HUBZone subcontractor(s) or joint venture partner(s) toward attainment of S/M/WBE or HUBZone firm utilization goals, and the Funding Recipient and its listed S/M/WBE firms or HUBZone firms may be subject to sanctions and penalties in accordance with the SBEDA Ordinance.
8. Funding Recipient acknowledges that the CITY will not execute a contract or issue a Notice to Proceed for this project until the Funding Recipient and each of its Subcontractors for this project have registered and/or maintained active status in the CITY's Centralized Vendor Registration System, and Funding Recipient has represented to CITY which primary commodity codes each registered Subcontractor will be performing under for this contract.

E. SBEDA Program Compliance – Affirmative Procurement Initiatives

The CITY has applied the following contract-specific Affirmative Procurement Initiative to this contract:

None. HOLD PENDING DETERMINATION BY GOAL SETTING COMMITTEE

F. Commercial Nondiscrimination Policy Compliance

As a condition of entering into this Agreement, the Funding Recipient represents and warrants that it has complied with throughout the course of this solicitation and contract award process, and will continue to comply with, the CITY's Commercial Nondiscrimination Policy, as described under Section III. C. 1. of the SBEDA Ordinance. As part of such compliance, Funding Recipient shall not discriminate on the basis of race, color, religion, ancestry or national origin, sex, age, marital status, sexual orientation or, on the basis of disability or other unlawful forms of discrimination in the solicitation, selection, hiring or commercial treatment of Subcontractors, vendors, suppliers, or commercial customers, nor shall the company retaliate against any person for reporting instances of such discrimination. The company shall provide equal opportunity for Subcontractors, vendors and suppliers to participate in all of its public sector and private sector subcontracting and supply opportunities, provided that nothing contained in this clause shall prohibit or limit otherwise lawful efforts to remedy the effects of marketplace discrimination that have occurred or are occurring in the CITY's Relevant Marketplace. The company understands and agrees that a material violation of this clause shall be considered a material breach of this Agreement and may result in termination of this Agreement, disqualification of the company from participating in CITY contracts, or other sanctions. This clause is not enforceable by or for the benefit of, and creates no obligation to, any third party. Funding Recipient's certification of its compliance with this Commercial Nondiscrimination Policy as submitted to the CITY pursuant to the solicitation for this contract is hereby incorporated into the material terms of this Agreement. Funding Recipient shall incorporate this clause into each of its Subcontractor and supplier agreements entered into pursuant to CITY contracts.

G. Prompt Payment

Upon execution of this contract by Funding Recipient, Funding Recipient shall be required to submit to CITY accurate progress payment information with each invoice regarding each of its Subcontractors, including HUBZone Subcontractors, to ensure that the Funding Recipient's reported subcontract participation is accurate. Funding Recipient shall pay its Subcontractors in compliance with Chapter 2251, Texas Government Code (the "Prompt Payment Act") within ten days of receipt of payment from CITY. In the event of Funding Recipient's noncompliance with these prompt payment provisions, no final retainage on the Prime Contract shall be released to Funding Recipient, and no new CITY contracts shall be issued to the Funding Recipient until the CITY's audit of previous subcontract payments is complete and payments are verified to be in accordance with the specifications of the contract.

H. Violations, Sanctions and Penalties

In addition to the above terms, Funding Recipient acknowledges and agrees that it is a violation of the SBEDA Ordinance and a material breach of this Agreement to:

1. Fraudulently obtain, retain, or attempt to obtain, or aid another in fraudulently obtaining, retaining, or attempting to obtain or retain Certification status as an SBE, MBE, WBE, M/WBE, HUBZone firm, Emerging M/WBE, or ESBE for purposes of benefitting from the SBEDA Ordinance;
2. Willfully falsify, conceal or cover up by a trick, scheme or device, a material fact or make any false, fictitious or fraudulent statements or representations, or make use of any false writing or document, knowing the same to contain any false, fictitious or fraudulent statement or entry pursuant to the terms of the SBEDA Ordinance;
3. Willfully obstruct, impede or attempt to obstruct or impede any authorized official or employee who is investigating the qualifications of a business entity which has requested Certification as an S/M/WBE or HUBZone firm;
4. Fraudulently obtain, attempt to obtain or aid another person fraudulently obtaining or attempting to obtain public monies to which the person is not entitled under the terms of the SBEDA Ordinance; and
5. Make false statements to any entity that any other entity is, or is not, certified as an S/M/WBE for purposes of the SBEDA Ordinance.

Any person who violates the provisions of this section shall be subject to the provisions of Section III. E. 13. of the SBEDA Ordinance and any other penalties, sanctions and remedies available under law including, but not limited to:

1. Suspension of contract;
2. Withholding of funds;
3. Rescission of contract based upon a material breach of contract pertaining to S/M/WBE Program compliance;
4. Refusal to accept a response or proposal; and
5. Disqualification of Funding Recipient or other business firm from eligibility for providing goods or services to the City for a period not to exceed two years (upon City Council approval).

Termination

The parties, with or without cause, may elect to terminate this agreement by providing 60 days written notice to the other parties.

Amendment and Term

This Funding Agreement supersedes all prior agreements and understandings between the Parties regarding the Program and may only be changed by written amendment signed by both parties. The term of this Funding Agreement will begin upon execution date by City and will terminate three years from project completion due to the term of the operations and maintenance requirements.

University of Texas at San Antonio

City of San Antonio

Marcio Giacomoni
Assistant Professor
Department of Civil and Environmental Engineering
One UTSA Circle
San Antonio, Texas 78249
(210) 458-6922

Xavier D. Urrutia
Director
Parks and Recreation Department
PO Box 839966
San Antonio, Texas 78283
210-207-8480

Date: _____

Date: _____

San Antonio River Authority

Suzanne B. Scott
General Manager
100 E Guenther
San Antonio, Texas 78204
210-227-1373

Date: _____

Exhibit A

The University of Texas at San Antonio
 Proposal Budget Template



Sponsor:	San Antonio River Authority	Summary Page
PI/PPD:	Marcio Giacomoni	
Title:	Implementation of a Low Impact Development Test Bed at The University of Texas at San Antonio Main Campus	

	Period 1	Period 2	Period 3	Period 4	Period 5	All	
Start	1/1/2017	1/1/2018	1/1/2019			1/1/2017	
End	12/31/2017	12/31/2018	12/31/2019			12/31/2019	
Personnel	Subtotal	\$ 55,338	\$ 56,935	\$ 58,580	\$ -	\$ -	\$ 170,853
G4010 G5010 Salaries	\$ 45,107	\$ 46,460	\$ 47,854	\$ -	\$ -	\$ -	\$ 139,421
G4020 G5030 Fringe Benefits	\$ 10,231	\$ 10,475	\$ 10,726	\$ -	\$ -	\$ -	\$ 31,432
Travel	Subtotal	\$ 2,000	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ 6,000
G4110 G5130 Travel - Domestic	\$ 2,000	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ 6,000
G4120 G5140 Travel - Foreign	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Expense	Subtotal	\$ 77,870	\$ -	\$ -	\$ -	\$ -	\$ 77,870
G4030 G5040 Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4040 G5050 Equipment Fabrication	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4050 G5060 Equipment Capital	\$ 77,870	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,870
Other Direct	Subtotal	\$ 437,074	\$ 20,500	\$ 20,500	\$ -	\$ -	\$ 478,074
X G5070 Curation (L5 Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4070 G5080 Consultants	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
X G5090 Office Services (L5 Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4090 G5110 Materials and Supplies	\$ 25,203	\$ 20,500	\$ 20,500	\$ -	\$ -	\$ -	\$ 66,203
G4090 G5110 Publication Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4090 G5110 Computer Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4090 G5110 User Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
? ? Other (F&A Included)	\$ 411,871	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 411,871
? ? Other (F&A Excluded)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4090 G5116 Workshop-Seminar Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
X G5115 Mileage Expense (L5 Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4100 G5120 Rentals & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4105 G5125 Rental Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4150 G5170 NSF G.6 Other Tuition & Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Student and Participant Support	Subtotal	\$ 9,500	\$ 9,500	\$ 9,500	\$ -	\$ -	\$ 28,500
G4130 G5150 Participant Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4130 G5155 Participant Travel	\$ 500	\$ 500	\$ 500	\$ -	\$ -	\$ -	\$ 1,500
G4140 G5160 Scholarships & Fellowships	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G4150 G5170 Tuition & Fees	\$ 9,000	\$ 9,000	\$ 9,000	\$ -	\$ -	\$ -	\$ 27,000
Subawards	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Sponsor Costs	\$ 814,156	\$ 126,269	\$ 128,688	\$ -	\$ -	\$ -	\$ 1,069,113
UTSA Direct Costs	\$ 581,782	\$ 88,935	\$ 90,580	\$ -	\$ -	\$ -	\$ 761,297
G4180 G5200 UTSA Indirect Costs	\$ 232,374	\$ 37,334	\$ 38,108	\$ -	\$ -	\$ -	\$ 307,816
UTSA F&A Base	\$ 494,412	\$ 79,435	\$ 81,080	\$ -	\$ -	\$ -	\$ 654,927
Cost Share Commitment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cost Share %	0%	0%	0%	-	-	-	-
Direct Cost - Consortium F&A	\$ 581,782	\$ 88,935	\$ 90,580	\$ -	\$ -	\$ -	\$ 761,297
Consortium F&A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Award Costs	\$ 814,156	\$ 126,269	\$ 128,688	\$ -	\$ -	\$ -	\$ 1,069,113

Exhibit B
Funding Schedule

Major Project Milestones	Deliverable Date	Deliverable Cost	Payment Date
Identification of optimal soil media			
Final definition of site location			
Preliminary Design			
Final Design			
BMP implementation			
Monitoring installation			
Pre-construction monitoring			
Post-construction monitoring			
Educational modules			

Exhibit C
Project Timeline

The entire project will be over three years. The anticipated start date is January 2017 ending in December 2019. The list of main tasks is shown in the Figure 1.

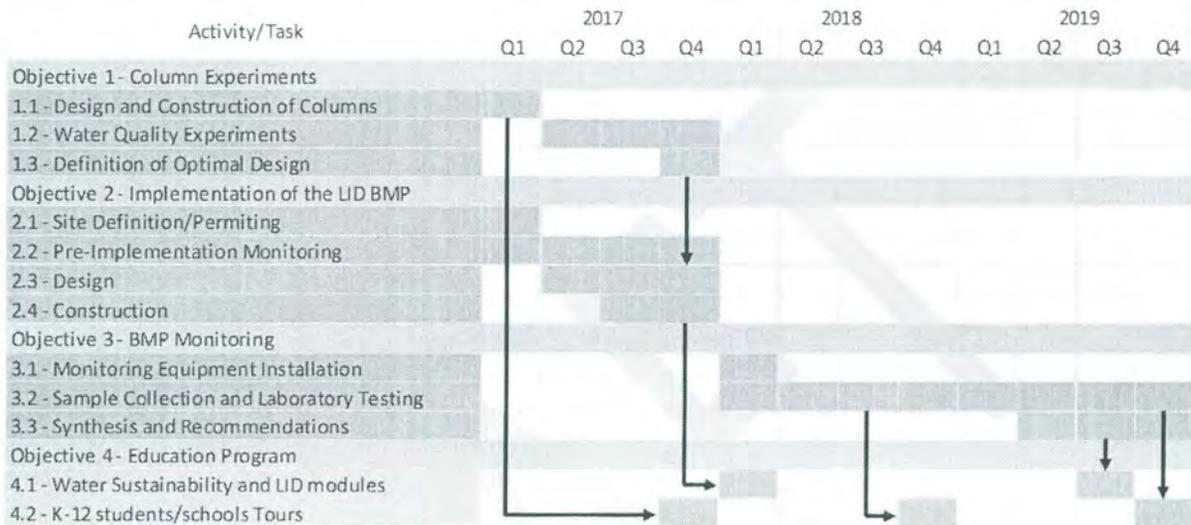


Figure 1 – Project timeline and integration between research and educational tasks.

Exhibit D

Exceptions to San Antonio River Basin LID Technical Guidance Manual Usage

DRAFT

Form 9-1366
(April 2015)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Agreement#:
Customer#:
Project #:
TIN #:
USGS DUNS #: 128821266

Fixed Cost Agreement YES NO

THIS AGREEMENT is entered into as of the January 25, 2017, by the U.S. GEOLOGICAL SURVEY, Texas Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the San Antonio River Authority party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation Water Resource Investigations (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$0 by the party of the first part during the period
January 25, 2017 to September 30, 2017
- (b) \$0 by the party of the second part during the period
January 25, 2017 to September 30, 2017
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of :

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request; be furnished by the party of the first part; at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties.

9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be rendered quarterly. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983.)

Form 9-1366
(April 2015)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Agreement#: 17CMTX000
Customer#: 6000000621
Project #: SJ009ME
TIN #: 74-6011311
USGS DUNS #: 128821266

USGS Technical Point of Contact

Name:
Address:
Telephone:
Fax:
Email:

Customer Technical Point of Contact

Name:
Address:
Telephone:
Fax:
Email:

USGS Billing Point of Contact

Name:
Address:
Telephone:
Fax:
Email:

Customer Billing Point of Contact

Name:
Address:
Telephone:
Fax:
Email:

U.S. Geological Survey
United States
Department of Interior

City of xxx

Signature

Signatures

By _____ Date: _____
Name:
Title: Director

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

ATTACHMENT A

Accessibility of Records

At any time during normal business hours and as often as City may deem necessary, upon three (3) days written notice, USGS shall make all of its records pertaining to this Agreement available to City or any of its authorized representatives, and shall permit City or any of its authorized representatives to audit, examine, and make excerpts and/or copies of same.

USGS agrees and represents that it will cooperate with City, at no charge to the City, to satisfy, to the extent required by law, any and all requests for information received by City under the Texas Public Information Act or related laws pertaining to this Agreement.

Assignment

USGS shall not transfer, pledge or otherwise assign this Agreement, any interest in and to same, or any claim arising thereunder, without first procuring the written approval of City. Any attempt at transfer, pledge or other assignment shall be void ab initio and shall confer no rights upon any third person.

No Third Party Rights

This Agreement is not intended, nor shall it be construed, to create any third party beneficiary rights in any person who is not a party hereto, unless otherwise expressly herein provided.

Nothing in this Agreement shall be deemed or construed by the parties hereto, or any third party, to create the relationship of principal and agent, partners, joint venturers or any other similar such relationship between the parties hereto. It is understood and agreed that no provision contained herein, nor any acts of the parties hereto, creates a relationship other than the relationship of Lessor and Lessee.

Liability

City is governed by the Texas Tort Claims Act, which is located in Chapter 101 of the Texas Civil Practice and Remedies Code, and nothing in this Agreement shall be construed as a waiver of any of the immunities and protections from liability included therein.

Insurance

USGS, at its own expense, shall provide and maintain, during the term of this Agreement, either insurance, with or without retention, or a self-insurance program. This insurance or self-insurance shall cover liability for property damage and personal injury associated with USGS's performance of work under this Agreement.

ATTACHMENT B

Prop 1 Project Activities Summary Prior to City Council Vote

The effects of urbanization across the recharge zone in Bexar County and potential impact on the water quality in the Edwards aquifer is a topic of specific concern for the City of San Antonio. The objective of this study is to simultaneously collect water-quality data from surface-water runoff sites and paired shallow groundwater wells within the recharge zone of the Edwards aquifer to better characterize the water quality connection between surface water and groundwater. To do this, a water quality sampling network consisting of two pairs of surface water and groundwater sites will be established in conjunction with discussion with stakeholders. The associated data collection activities are outlined below. It should be noted that adjustments to the data collection plans might be needed if appropriate sampling conditions (for example, stormflows) do not occur.

Sites to be sampled are:

Groundwater: wells AY-68-21-806 and AY-68-28-211

Surface water: to be installed at Salado Cr at 1604 and Elm Crk at Encino Rio

Landowner agreements for groundwater and surface water sites to be signed upon project funding.

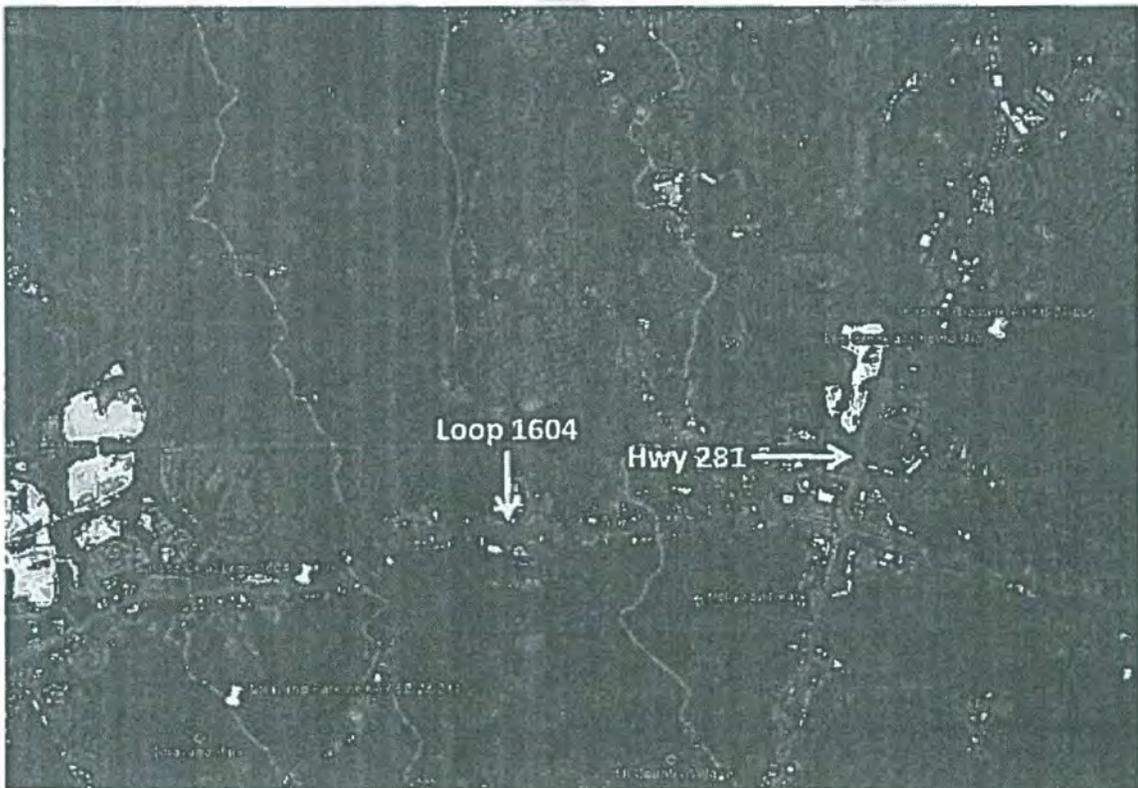


Figure 1. Location of sampling sites in northwest San Antonio.

Data Collection Plan

I. Continuous monitoring

A. Groundwater sites (both wells)

2 year monitoring period

3 parameters at each well: water level, specific conductance, and nitrate

B. Surface water sites

Surface water will not be monitored continuously because these rivers only flow during storm events.

II. Discrete water sample collection and analyses

A. Groundwater sites (both wells)

Discrete samples: collect ~6 times per year (~8 week intervals) for 2 years

Storm event samples: collect up to 3 per site

QC samples: collect up to 3 per site

All samples analyzed for major and trace elements, pesticides, $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of nitrate, $\delta^{18}\text{O}$ and δD of water, tritium (2 samples per site), strontium isotopes (2 samples per site)

B. Surface water sites (runoff only)

Storm runoff samples: collect up to 6 per site

QC samples: collect up to 3 per site

All samples analyzed for major and trace elements, pesticides, $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of nitrate, $\delta^{18}\text{O}$ and δD of water, Tritium (1 sample per site)

Deliverables:

USGS Scientific Investigation Report approved for publication by the USGS Bureau Approving Official at the conclusion of the project.

USGS Fact Sheet approved for publication by the USGS Bureau Approving Official following the approval of the USGS SIR.

Presentation of results to public outreach event

(K-12, public meeting, or other event depending on City of San Antonio request).

Timeline (36 months from time of funding).

	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Installation	X	X										
Continuous Monitoring		X	X	X	X	X	X	X	X			
Routine Sampling		X	X	X	X	X	X	X	X			
Storm Sampling		X	X	X	X	X	X	X	X			
Data Analysis and Reporting									X	X	X	X

Budget

Fiscal Year	Year 1	Year 2	Year 3
Total Requested Funding	\$159,900	\$139,100	\$133,500

Depending on start date (signed Joint Funding Agreement), Year 1 funds could be adjusted to reflect a partial year. However, given that most of the costs in Year 1 are for equipment and installation, it is requested that the full amount for Year 1 be funded this fiscal year (FY2017).