

**ADDENDUM NO. 1  
TO  
INVITATIONS FOR BIDS  
MCDOWELL RECHARGE BASINS SEDIMENTATION  
AND BERM REMOVAL  
PW 20-020**

Date: October 24, 2019

From: Tiffany Copp, RFQ Administrator

Subject: Addendum No. 1 to Solicitation No. PW 20-020

IFB Deadline: October 30, 2019 at 5:00 p.m. (local time, Phoenix, Arizona)

This Addendum No. 1 consists of modifications to the project schedule as follows:

- 1. Issuance of the Question and Answers document.**
- 2. Exhibit A, Scope of Work, to the original solicitation is hereby deleted in its entirety and replaced with Exhibit A, Scope of Work, as attached to this Addendum.**
- 3. Exhibit C, Price Sheet, to the original solicitation is hereby deleted in its entirety and replaced with Exhibit C, Price Sheet, as attached to this Addendum.**
- 4. Article II, Part B, Section 3.21, Project Videotape (page 19), is hereby deleted in its entirety and does not apply to this solicitation.**

~~3.21 — Project Videotape. The Contractor shall produce and provide a project videotape to the Engineer as required by MAG Supplement Section 105.5.3. All costs associated with the Project videotape produced in accordance with this Section shall be deemed incidental.~~

- 5. Article II, Part B, Section 3.44, Construction Survey (page 25) is hereby deleted in its entirety and does not apply to this solicitation.**

~~3.45 — Survey Control Points. Existing survey markers (either brass caps or iron pipes) shall be protected by the Contractor or removed and replaced under direct supervision of the Engineer. Survey monuments shall be constructed to the requirements of MAG Specifications, Section 405. Lot corners shall not be disturbed without knowledge and consent of the property owner. The Contractor shall replace benchmarks, monuments or lot corners moved or destroyed during construction at no expense to the City. Contractor and its sureties shall be liable for correct replacement of disturbed survey benchmarks except where the City elects to replace survey benchmarks using its own forces.~~

\_\_\_\_\_, affirms that ADDENDUM No. 1 has been  
(Name of Vendor/Designee)  
received and that the information contained in ADDENDUM No. 1 has been incorporated in  
formulating the Vendor's Offer.

\_\_\_\_\_, \_\_\_\_\_ 2019  
Signed Date

\_\_\_\_\_  
Print Name/ Title

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip Code

## Questions & Answers

### Invitations for Bid

#### PW 20-020 McDowell Recharge Basin Sedimentation & Berm Removal

All inquiries were due in writing no later than October 21, 2019.

#### Questions Received:

1. Does the City have an engineer's estimate?
  - A. The City does not have an engineer's estimate for this project.
2. It was stated at the pre-bid meeting that the bottom of a basin should be "generally flat" after silt removal. How is this to be measured or quantified? Are the basins to be fine-graded and, if so, to what tolerance and grade?
  - A. The flat bottom of the basin will be determined visually by the City's Site Operator after sediment removal. Measurement can be achieved using a laser grade checker. There will not be a need for fine grading.
3. Is it required or desired to scarify or rip the basin bottoms after the sediment is removed?
  - A. The bottom shall not be ripped or scarified after sediment removal.
4. It was stated at the pre-bid meeting that the desired fill location for the berm removal material may be a low area within basin 4. Please confirm the location the fill material should be taken to.
  - A. The depression area southeast of the property, outside of the flood zone and inside of the fence, will have priority for the deposit of soil and sediments. If an additional site is required, the residuals sediment and soil will be applied in 3 designated upland areas indicated in Exhibit 3 in order to be determined by the City.
5. Will the City consider removing the following requirements from the contract document?
  - a) Safety Plan Article III, Part A, Section 3.10 (page 11)
  - b) Videotaping requirements, Article III, Part B, Section 3.21 (page 19)
  - c) Surveying, Article III, Part B, Section 3.44 (page 25)
  - d) Public Information, Project Signs and 24-Hour Project Hotline: Article III, Part B, Sections 3.54 A-C (pages 26-28)
  - A. The Safety Plan Article III, Part A, Section 3.10 (page 11) is required. It is already indicated in Article III, Part B, Sections 3.54 A-C (pages 26-28) that no project signs are required.

See Addendum No. 1 for answers to b and c.

6. In accordance with Part 5 of Exhibit A, Scope of Work, please clarify if Modified Proctor and subsequent compaction tests will be required to confirm 85% proctor density? If so, what is the required frequency of the testing and is there a MAG specification to follow?
  - A. Grading on fill areas shall be by vehicle weight or a roller weight in thin loose lifts of 12”.
7. Item 4 on the Bid Sheet is called out as an “Option Item”. Please clarify what this is meant for.
  - A. See Addendum No. 1.
8. If a portion of the sediment removed from Basins 1-4 requires disposal off-site, will the contractor be responsible for waste characterization sampling and analysis? In addition, does the City have preferred landfills or disposal vendors the contractor should use?
  - A. Offsite disposal of berm or sediment is not expected.
9. Will the City periodically inspect the sediment removal process and determine when depth/volume of removal is met in each basin or will the contractor only be required to remove sediment to the depth noted on Table 1 in the Scope of Work? If an additional quantity of sediment needs to be removed below the depth indicated on Table 1, what will be the procedure for determining this? Since sediment removal is being bid lump sum, how should we account for the removal of sediment below the depths indicated on Table 1? Is there a certain percent contingency that should be assumed for removal at each basin?
  - A. The City may periodically inspect to ensure the sediment or berm removal process and determine when depth / volume of removal is met in each basin as per Table 1. No additional quantity of sediment is expected to be removed. The quantity of removal shall be by using a laser grade checker and verified by the City Site Operator.

**END OF DOCUMENT**

EXHIBIT A  
TO  
INVITATION FOR BIDS NO. PW 20-020

[Scope of Work and Reference Documents]

See following pages.

## SCOPE OF WORK

### McDowell Recharge Basins Sedimentation & Berm Removal PW 20-020

#### **Introduction:**

The City of Avondale invites bids from interested qualified contractors (License Certifications A, A-5 or KA) to remove accumulated sediment ranging in depths from 0.5 to 1.5 feet from the bottom of an 18-acre site comprised of 4 recharge basins and apply them primarily in the low area along the southeast corner of the property and the additional residuals in other designated highland areas shown in Exhibit 3. The sediment removal will allow the recharge basins to more efficiently percolate water into the aquifer for storage. Project location is McDowell Recharge Facility, 12100 McDowell Road, Avondale, Arizona (Vicinity Map).

The basins were designed primarily to percolate incoming SRP and City of Avondale WRF effluent water to the aquifer below for later use. Currently, water infiltration does not occur efficiently from the existing basins to the aquifer due to build-up of sediments in the basins. The inefficiency is causing loss of precious water to evaporation.

Bid base shall, at minimum, include all requirements stated in this Scope of Work and the following:

- a) Mobilization and demobilization.
- b) Removal of sediments from the 4 basins (Vicinity Map).
- c) Application and compaction of removed sediments in designated upland areas of the recharge site (Vicinity Map) per discretion of the City of Avondale site operator.
- d) Temporary stormwater pollution prevention measures per the requirements of the Arizona Department of Environmental Quality.
- e) Permanent silt fence protective measures downslopes of the utilized upland areas to prevent washouts from the highlands back to the basins.
- f) Site cleaning to satisfaction of the City Site Operator.

Add Alternate bid item shall include:

- g) Removal of the existing berm that currently splits Basin 4 (Vicinity Map).
- h) Application and compaction of the removed berm in designated upland areas of the recharge site (Vicinity Map) per discretion of the City of Avondale site operator.
- i) Procedures identified in d) through f) above.

#### **Work Details:**

##### **1. Sediment Removal:**

City of Avondale studied the sediment accumulation patterns and the amount of sediments in the four basins. Table 1 provides characteristics of the basins, depth of sediment removal and estimated quantity of sediments.

Remove sediments from the basin or the basin sector to the depth specified in Table 1. The maximum time difference between the removal of sediment from each basin shall be between 7 and 10 days.

**Table 1: Basins Characteristics and Sediment Removal Rates**

<b>Basin (Location)</b>	<b>Area (SF)</b>	<b>Required Removal Depth (ft)</b>	<b>Estimated Sediment Removal (CY)</b>
1 (North Half)	55,400	1.5	3,100
1 (South Half)	139,700	0.5	2,600
2	223,300	0.5	4,200
3	186,400	0.5	3,500
4 (North)	41,000	2.0	3,100
4 (Middle)	113,600	1.0	4,300
4 (South)	39,800	1.5	2,300
<b>Total</b>	<b>799,200</b>		<b>23,100</b>

**2. Sequence of basins operations:**

City of Avondale will authorize the order of basins’ sediment removal activities to be performed by the Contractor. The City Site Operator’s decision may depend on availability of a dry bottom basin. It will typically be expected that 2 dry bottom basins will be available upon Contractor’s site mobilization and start of sediment removal. Once removal from the first 2 basins are completed, the City will reserve the right to halt sediment removal work for the next 2 basins for a period of one week until the next 2 basins become dry and available for sediment removal.

**3. Basin 4 berm removal (Add Alternate Bid):**

Remove the entire berm that currently splits Basin 4.

Depth of berm removal shall be to the extent to result a new invert that will be flush and level with the north and middle sections of basin 4 invert after removal of the sediments.

If any material other than typical soil is encountered during berm removal, notify the City of Avondale, and then dispose of the materials at environmentally accepted manner at your own expense.

Match the width of the excavated area with the width of Basin 4 in the location. Shape the new side slopes of the removed berm area to create a consistent pattern with the current basin side slopes. Remove and dispose the existing pipe that connects the two basin sides and headwalls or pipe end-sections.

**4. Upland Application:**

The depression area southeast of the property, outside of the flood zone and inside of the fence, will have first priority for the deposit of soil and sediments. Apply the residuals sediment and soil in 3 designated upland areas indicated in Exhibit 3 in order to be determined by the City.

**5. Upland Compaction:**

Compact the upland areas after final delivery of all sediment and or berm soil material to 85% proctor density.

**6. Temporary Stormwater Pollution Prevention:**

Obtain permits as required and follow requirements of the Arizona Department of Environmental Quality for SWPPP.

**7. Permanent riprap:**

Install riprap in sizes ½ inch or above in downslope of the used upland area(s) in depth of 3 inches and width of 1 foot to protect sediment wash back to the basins. Sediment and soil applied in the depressed areas will not require permanent riprap.

**8. Air Quality:**

Dust control measures are required. Contractor may use water from the wet basins for dust control but must submit an estimate of the quarter quantity needed to the City of Avondale Site Operator in advance of use.

EXHIBIT C  
TO  
INVITATION FOR BIDS NO. PW 20-020

[Price Sheet]

See following pages.

PRICE SHEET

McDowell Recharge Basins Sedimentation & Berm Removal  
PW 20-020

**NOTE: All pricing blanks must be filled in. Incomplete or unfilled spaces in the Price Sheet shall be deemed as a NO BID entry for that item.**

**BASE BID ITEMS**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Price</b>
1.	Basin 1 (North Half)	LS	
2.	Basin 1 (South Half)	LS	
3.	Basin 2	LS	
4.	Basin 3	LS	
5.	Basin 4 (North)	LS	
6.	Basin 4 (Middle)	LS	
7.	Basin 4 (South)	LS	
8.	Mobilization and demobilization	LS	
9.	Application and compaction of removed sediment in designated upland areas of the recharge site per City of Avondale site operator (Vicinity Map)	LS	
10.	Temporary stormwater pollution prevention measures per the requirements of the Arizona Department of Environmental Quality (ADEQ)	LS	
11.	Permanent riprap protective measures downslopes of the utilized upland area(s) to prevent washouts from the highlands back to the basins	LS	
12.	Site cleaning	LS	
		*BASE BID TOTAL:	

\*All bids are presumed to include all applicable taxes.

**ADD ALTERNATE BID ITEMS**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Price</b>
13.	Mobilization and demobilization**	LS	
14.	Removal of existing berm that currently splits Basin 4	LS	
15.	Application and compaction of removed soil from berm in designated upland areas of the recharge site per City of Avondale site operator	LS	
16.	Permanent riprap protective measures downslopes of the utilized upland area(s) to prevent washouts from the highlands back to the basins	LS	
17.	Site cleaning	LS	
	*ADD ALTERNATE BID TOTAL:		
	*BASE BID TOTAL (from previous page):		
	*GRAND TOTAL:		

\*All bids are presumed to include all applicable taxes.

\*\* Include Mobilization & Demobilization if additional efforts and equipment are required for Alternate Bid Items. Otherwise indicate \$0.00.