



**BOARD OF SUPERVISORS AGENDA ITEM REPORT  
CONTRACTS / AWARDS / GRANTS**

Requested Board Meeting Date: 6/6/17

or Procurement Director Award

**Contractor/Vendor Name (DBA):** Avra Gro Systems, Inc.

**Project Title/Description:**

Biosolids Management Services

**Purpose:**

Amendment of Award: Master Agreement No. MA-PO-16-049. This revision increases the two-year award amount by \$1,011,000.00 from \$2,181,944.10 to \$3,192,944.10 which is the cumulative not-to-exceed contract amount.

Administering Department: Regional Wastewater Reclamation.

**Procurement Method:**

Pursuant to Pima County Procurement Code 11.12.010, Competitive Sealed Bidding, on 11/10/15, the Board of Supervisors approved an award of contract for an initial term of two (2) years in an award amount of \$2,181,944.10 with four (4) two-year renewal options.

The increase in the award amount is necessary due to a substantial increase in cake biosolids production from an originally estimated 54,795 tons to a current production of 98,683 tons which is anticipated to be 114,000 tons by the end of this contract term. Unit price remains the same.

PRCUID: 189261

Attachment: Department Memo and Master Agreement.

**Program Goals/Predicted Outcomes:**

The Biosolids Management Program is responsible to ensure compliance with federal, state and local regulations pertaining to the recycling and reuse of biosolids as a fertilizer and soil conditioner in the agriculture industry.

The increase in the award amount is necessary due to a substantial increase in cake biosolids production from an originally estimated 54,795 tons to a current production of 98,683 tons which is anticipated to be 114,000 tons by the end of this contract term. Unit price remains the same.

**Public Benefit:**

The public health and environment are protected by the availability of quality soil and water.

**Metrics Available to Measure Performance:**

Compliance records, the cost per ton of the biosolids produced and the fertilizer value of the biosolids.

**Retroactive:**

No.

AKG

**Original Information**

Document Type: \_\_\_\_\_ Department Code: \_\_\_\_\_ Contract Number (i.e.,15-123): \_\_\_\_\_  
Effective Date: \_\_\_\_\_ Termination Date: \_\_\_\_\_ Prior Contract Number (Synergen/CMS): \_\_\_\_\_  
 Expense Amount: \$ \_\_\_\_\_  Revenue Amount: \$ \_\_\_\_\_  
Funding Source(s): \_\_\_\_\_

Cost to Pima County General Fund: \_\_\_\_\_

Contract is fully or partially funded with Federal Funds?  Yes  No  Not Applicable to Grant Awards  
Were insurance or indemnity clauses modified?  Yes  No  Not Applicable to Grant Awards  
Vendor is using a Social Security Number?  Yes  No  Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

**Amendment Information**

Document Type: MA Department Code: PO Contract Number (i.e.,15-123): 16-049  
Amendment No.: \_\_\_\_\_ AMS Version No.: 4  
Effective Date: 6/6/17 New Termination Date: \_\_\_\_\_  
 Expense  Revenue  Increase  Decrease Amount This Amendment: \$ 1,011,000.00  
Funding Source(s): RWRD Enterprise Fund

Cost to Pima County General Fund: \_\_\_\_\_

Contact: Jennifer Moore, Commodity Contracts Officer Division Manager: [Signature] <sup>5/24/17</sup>  
Department: Procurement Telephone: 520.724.8164  
Department Director Signature/Date: [Signature] 5/24/17  
Deputy County Administrator Signature/Date: [Signature] 5/30/17  
County Administrator Signature/Date: [Signature] 5/31/17  
(Required for Board Agenda/Addendum Items)



**REGIONAL WASTEWATER RECLAMATION DEPARTMENT**  
201 NORTH STONE AVENUE  
TUCSON, ARIZONA 85701-1207

**JACKSON JENKINS**  
DIRECTOR

PH: (520) 724-6500  
FAX: (520) 724-9635

May 24, 2017

**TO:** Mary Jo Furphy, Procurement Director  
**Thru:** Jackson Jenkins, RWRD Director  
**FROM:** John W. Sherlock, Deputy Director Treatment Division  
**SUBJECT:** MA16\*049-Biosolids Management Services Amendment of Award

Regional Wastewater Reclamation Department (RWRD) requests an increase in the two-year contract award amount because of an unanticipated yearly increase in solids concentration of over 8% per year.

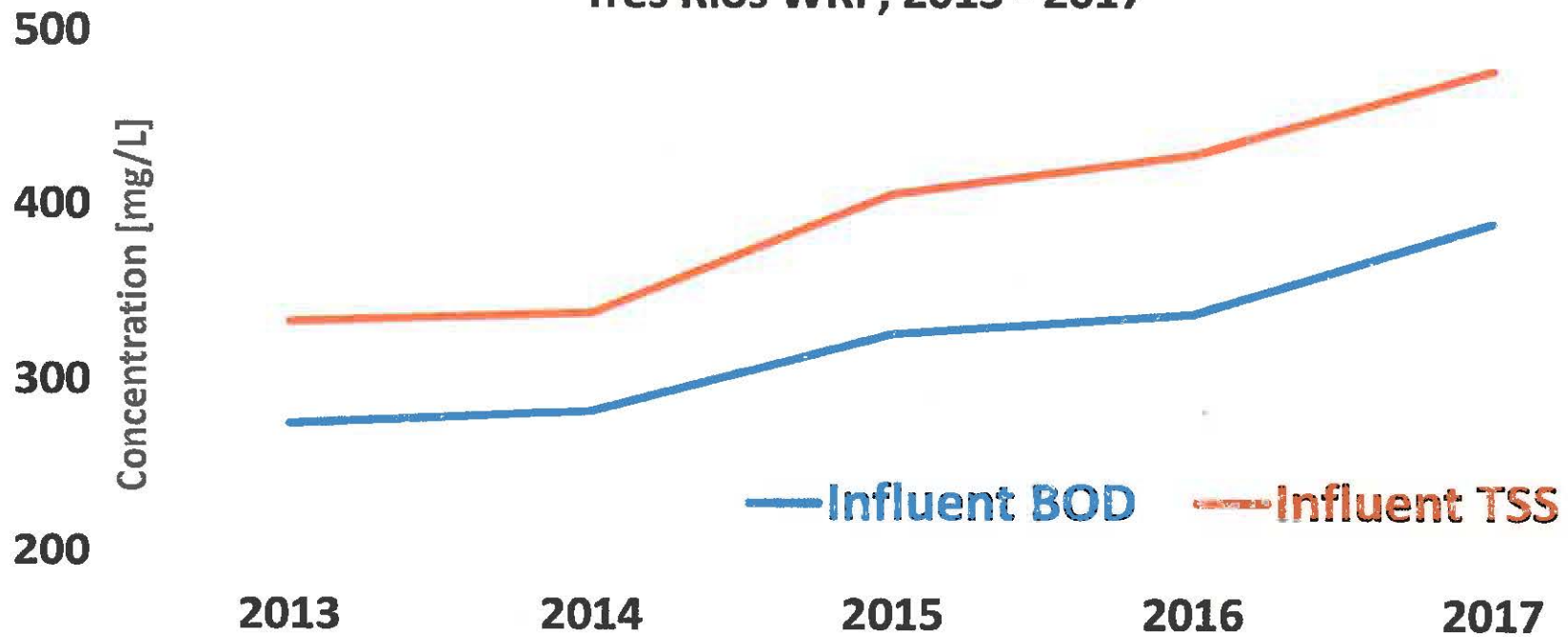
The Tres Rios WRF solids handling equipment has been unable to pump a 22% solids sludge into storage silos. Because a thinner sludge is being pumped, there is a higher water content and the production costs have increased. This process in-efficiency is being corrected and costs will be realigned within the next eighteen months.

JWS:tp

c: Jennifer Moore, Procurement, Commodity Contracts Officer  
Julie McWilliams, RWRD, Program Manager Sr.  
Bill Keith, RWRD, Administrative Services Manager

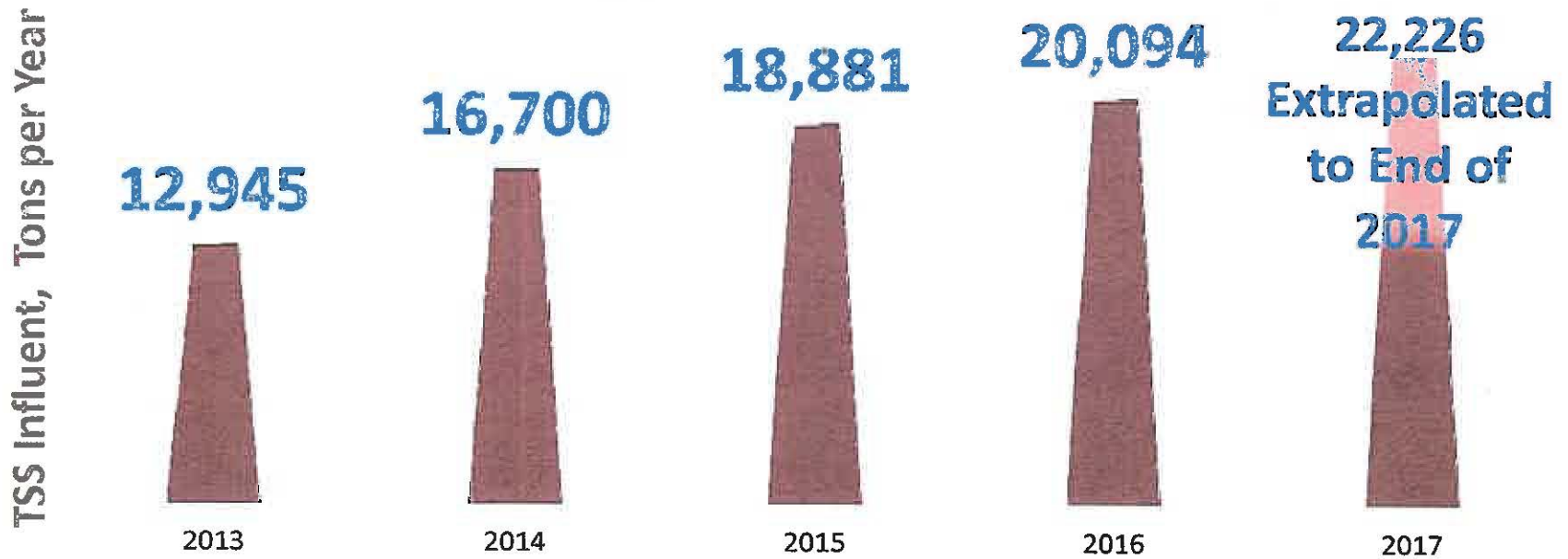
Year	Average Influent BOD (lbs)	Average Influent TSS (lbs)
2013	58,700	70,933
2014	76,643	91,509
2015	83,412	103,456
2016	86,890	110,173
2017	99,466	121,787

### Average Daily TSS and BOD Concentration to Headworks Tres Rios WRF; 2013 - 2017

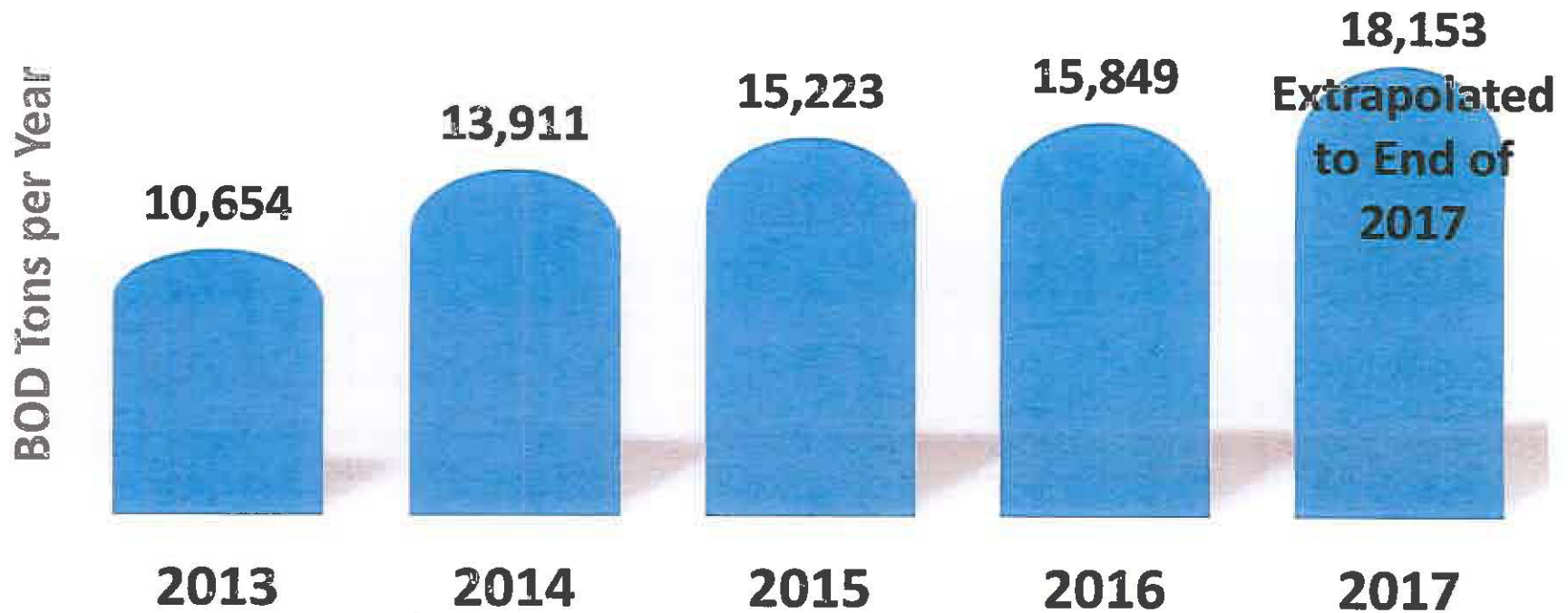




TSS Annual Loading to Headworks, Tons per Year  
Tres Rios WRF; 2013 - 2017

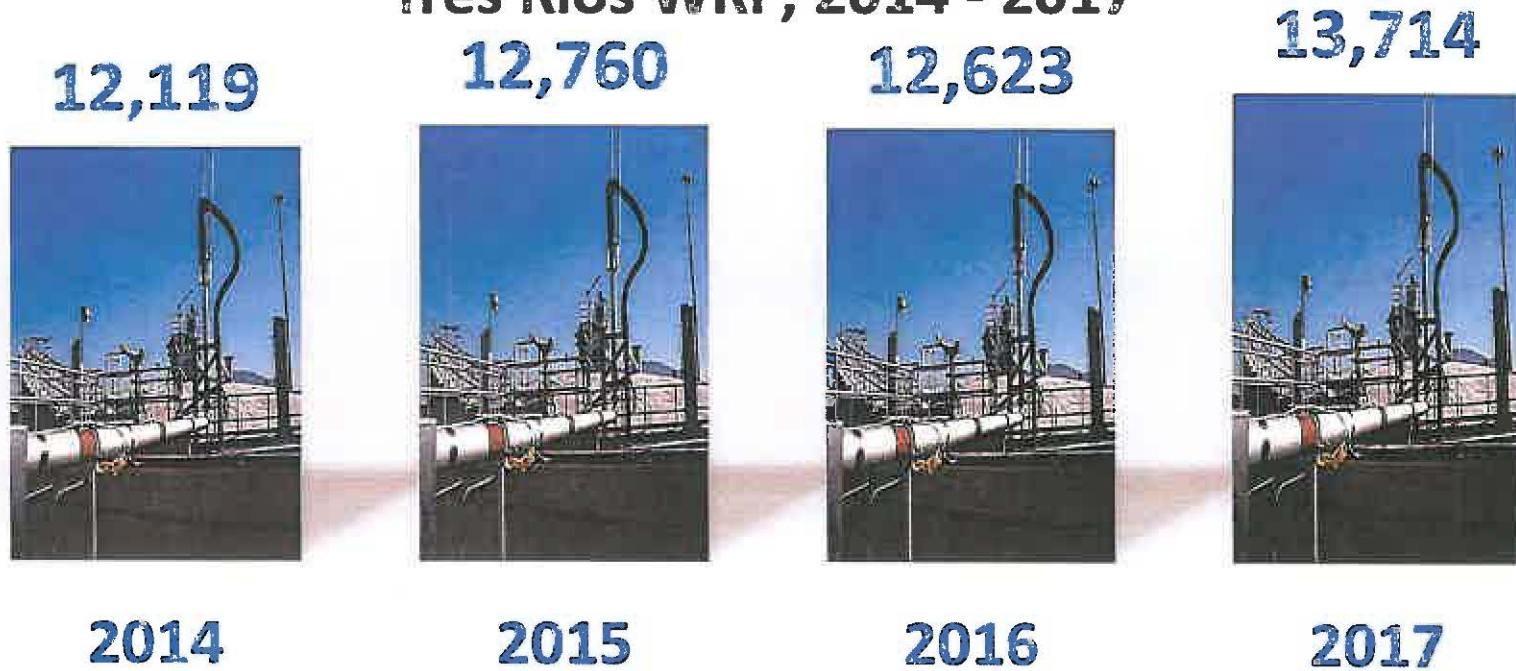


**BOD Annual Loading to Headworks, Tons per Year  
Tres Rios WRF; 2014 - 2017**



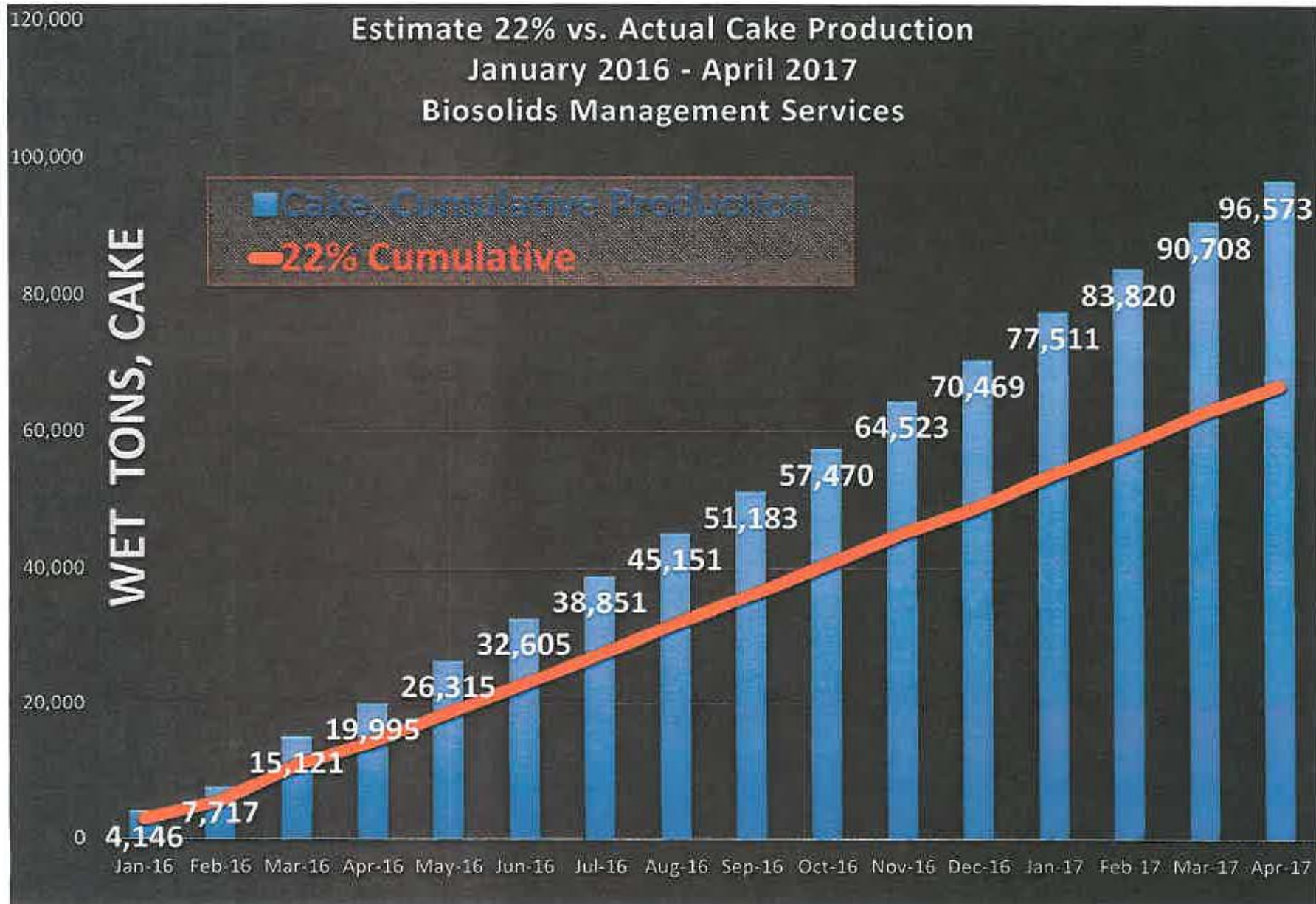
## Digested Sludge to Centrifuge, Dry Tons Annual! Tres Rios WRF; 2014 - 2017

Dry Tons, per Year





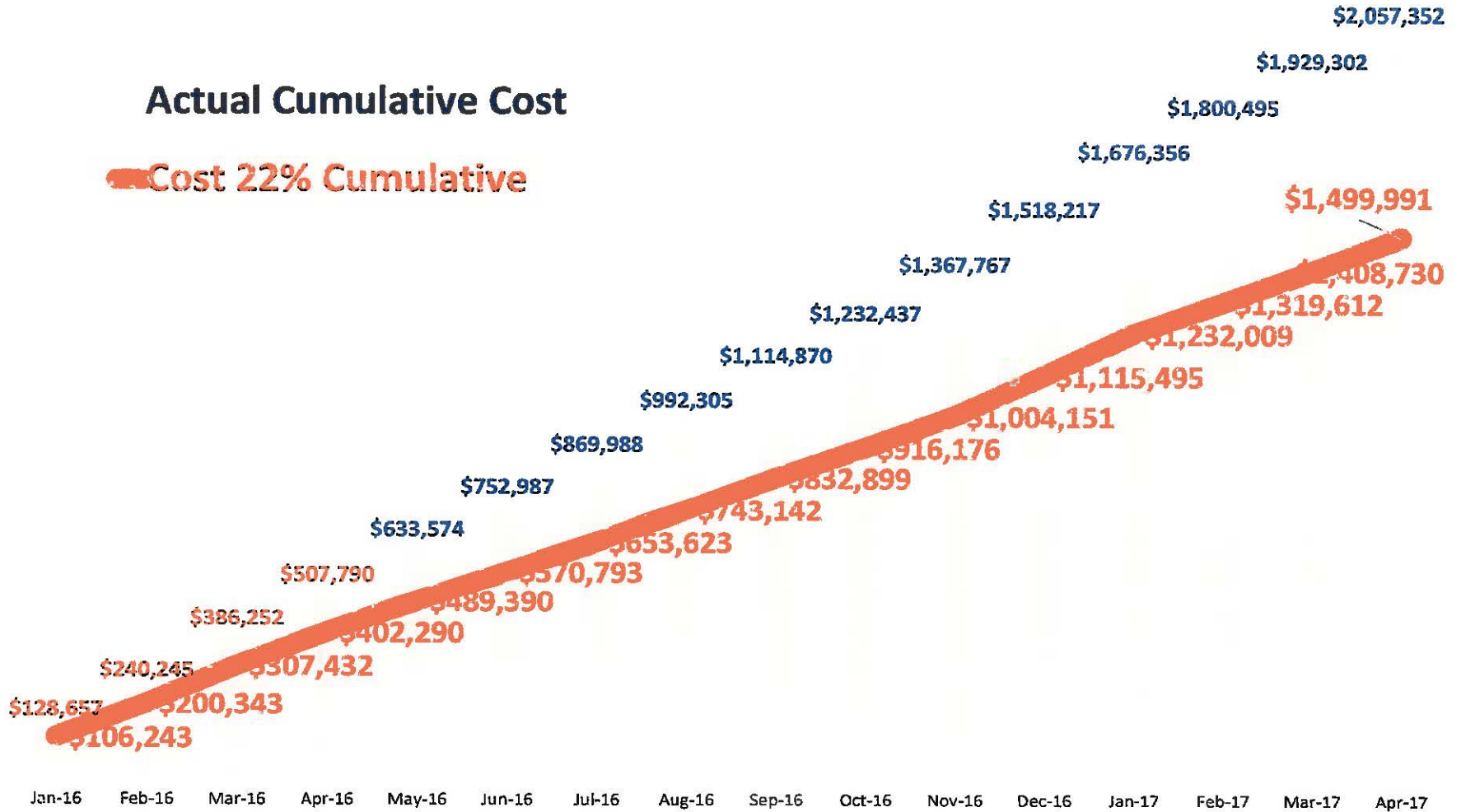
Estimate 22% vs. Actual Cake Production  
January 2016 - April 2017  
Biosolids Management Services



**Cake 22% Estimate Total Cost vs. Actual Monthly Cost  
January 2016 - April 2017  
Biosolids Management Services**

**Actual Cumulative Cost**

**Cost 22% Cumulative**





# MASTER AGREEMENT

## PIMA COUNTY, ARIZONA

THIS IS NOT AN ORDER - TRANSMISSION CONSTITUTES  
CONTRACT EXECUTION

Master Agreement No: 1600000000000000049

MA Version: 4

Page: 1 of 2

Description: Biosolids Management Services IFB 189261

<b>I S S U E R</b>	Pima County Procurement Department
	130 W. Congress St. 3rd Fl
	Tucson AZ 85701
	<b>Issued By:</b> JENNIFER MOORE
	<b>Phone:</b> 5207248164
	<b>Email:</b> jennifer.moore@pima.gov

<b>T E R M S</b>	<b>Initiation Date:</b> 01-01-2016
	<b>Expiration Date:</b> 12-31-2017
	<b>NTE Amount:</b> \$3,192,944.10
	<b>Used Amount:</b> \$2,180,206.44

<b>V E N D O R</b>	<b>AVRA GRO SYSTEMS INC</b>	<b>Contact:</b> JOHN KAI
	<b>PO Box 91708</b>	<b>Phone:</b> 520-990-8888
	<b>TUCSON AZ 85752</b>	<b>Email:</b> JOHNKAIJR@YAHOO.COM
		<b>Terms:</b> 0.00 %
		<b>Days:</b> 30

<b>Shipping Method:</b>	Vendor Method
<b>Delivery Type:</b>	
<b>FOB:</b>	FOB Dest, Freight Prepaid
<b>Modification Reason</b>	
This revision increases the two-year award amount by \$1,011,000.00 from \$2,181,944.10 to \$3,192,944.10 to the cumulative not-to-exceed contract amount of \$3,192,944.10.	

This Master Agreement incorporates the attached documents, and by reference all instructions, Standard Terms and Conditions, Special Terms and Conditions, and requirements that are included in or referenced by the solicitation documents used to establish this agreement. All transactions and conduct are required to conform to these documents.



# MASTER AGREEMENT DETAILS

Master Agreement No: 1600000000000000049

MA Version: 4

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Line	Description					
1	FREE FORM LINE Biosolids Management Services					
	<b>Discount</b>	<b>UOM</b>	<b>Unit Price</b>	<b>Stock Code</b>	<b>VPN</b>	<b>MPN</b>
	0.0000 %	EA	\$0.00			
2	Thickend Solids 7.5% Wet ton					
	<b>Discount</b>	<b>UOM</b>	<b>Unit Price</b>	<b>Stock Code</b>	<b>VPN</b>	<b>MPN</b>
	0.0000 %	TON	\$7.20			
3	CAKE Biosolids 22% Wet ton					
	<b>Discount</b>	<b>UOM</b>	<b>Unit Price</b>	<b>Stock Code</b>	<b>VPN</b>	<b>MPN</b>
	0.0000 %	TON	\$18.70			
4	Free Form Line for items not specifically listed					
	<b>Discount</b>	<b>UOM</b>	<b>Unit Price</b>	<b>Stock Code</b>	<b>VPN</b>	<b>MPN</b>
	0.0000 %		\$0.00			