

# Welcome to the 2023 FRPA Conference!



## August 28 - 31, 2023 | Orlando, FL



# Overcoming Tragedy : The Bakari Williams Protocol





## **Venera Flores-Stafford, Ph.D**

### **Assistant Director**

Currently, Venera serves the City of Arlington Parks and Recreation Department as the Assistant Director for Center Programs, Athletics, Aquatics, and Field Maintenance. Dr. Venera Flores-Stafford joined the Arlington, Texas Parks and Recreation Department in 2016. Dr. Flores-Stafford played a vital role in the re-accreditation process for the Commission for Accreditation of Park and Recreation Agencies (CAPRA) and was integral in two large-scale capital projects: the Beacon Recreation Center and the East Library and Recreation Center.





## **Michael Debrecht**

### **Assistant Director**

Michael Debrecht has worked in parks and recreation for 30 plus years. He is currently the Assistant Director with the City of Arlington's Park and Recreation Department. His responsibilities include Forestry and Beautification, Park Operations, Asset Management and Park Planning. He is a leader in the NRPA Gold Medal winning department as best parks and recreation agency in the country. Michael resides in Arlington with his wife and two sons. He enjoys working out at the Beacon Rec Center, watching his son's play sports and traveling with his family.

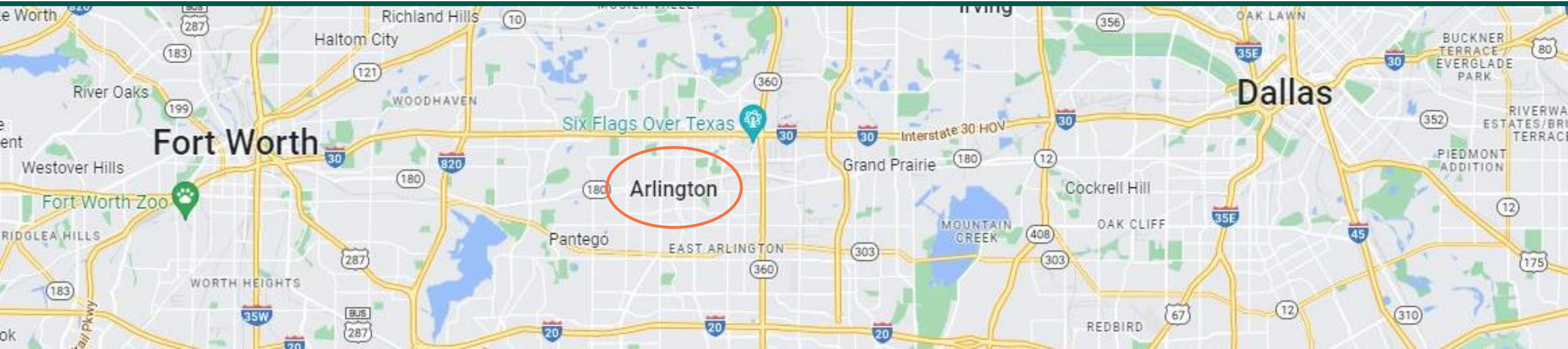
# LEARNING OBJECTIVES

1. Identify redundancies to ensure staff compliance in chemical recordings.
2. Learn ways to share chemical information with customers to provide confidence in facility.
3. Understand leadership roles in the wake of dealing with a major tragedy.





# ARLINGTON SNAPSHOT

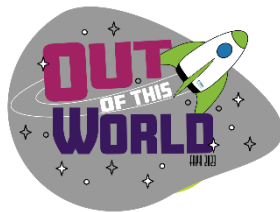


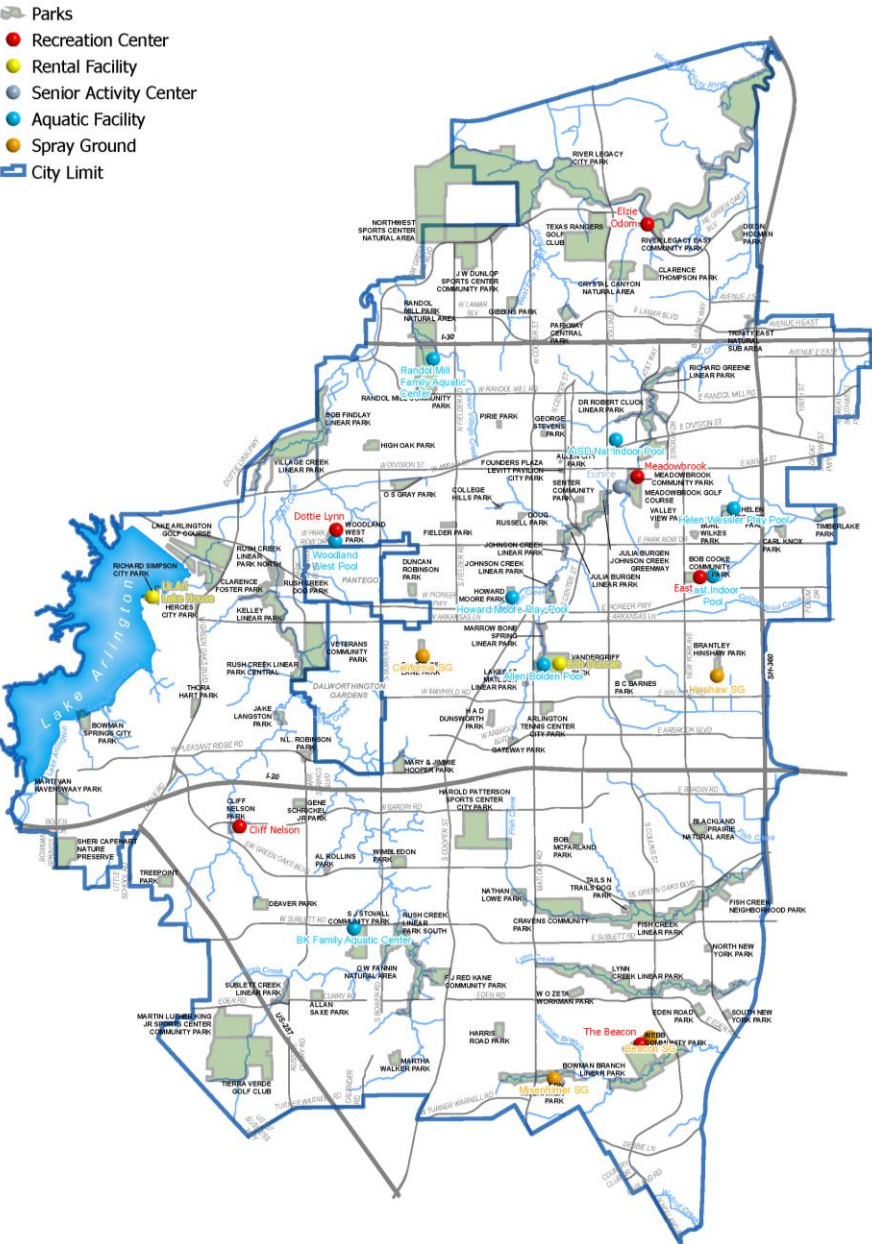
Population: 397,786

Size: 99.44 square miles

.52 park employees per 10,000 citizens

22 miles from Dallas; 16 miles from Fort Worth





# ARLINGTON SNAPSHOT

- 99 Parks
- 78 Trail Miles
- 4,800 Park Acres

- 6 Recreation Centers
- 95 Athletic Fields
- 4 Golf Courses
- 1 Tennis Center

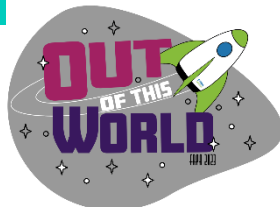




# AQUATIC FACILITIES

- 2 Family Aquatic Centers
- 1 Play Pool
- 2 Flat-Body Pools

- 1 Indoor Pool
- AISD Partnership
- 4 Splash Pads







# TIMELINE

September 2021- January 2022



**September**

Tragedy Struck



**October**

Began Investigations



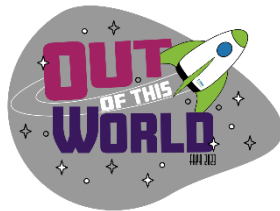
**November**

Identified  
Improvements/Repairs



**January**

Started Implementation





# **TECHNOLOGICAL IMPROVEMENTS**

**Goal: Redundancy**



IPS



PENTAIR

BECS



PROMINENT





# LIVE MONITORING

Search

Master List

EAST

Beacon

WW

BK

Bolden

Moore

RM Leisure

RM Catch

RM TOT

Misenhimer

Cali Lane

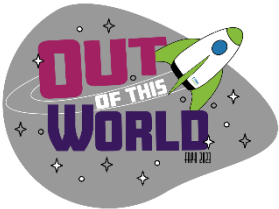
Hinshaw

Master List

Dashboard

Site	System Time	Alarms	pH	ORP	Free Cl	Temp	VFD	Flow Rate 1	Surge Pit
EAST	10:01 AM	0	7.3	828 mV	2.2 ppm	86 °F	--	637.8 gpm	0.00 ft
Beacon	10:07 AM	2	7.4	793 mV	0.1 ppm	76 °F	100.0 %	0.0 gpm	--
WW	10:00 AM	0	7.7	754 mV	--	89 °F	--	--	--
BK	10:07 AM	0	7.5	810 mV	--	--	--	--	--
Bolden	10:08 AM	0	7.7	731 mV	--	89 °F	--	--	--
Moore	10:05 AM	0	14.0	-1000 mV	--	98 °F	--	--	--
RM Leisure	10:04 AM	1	7.3	834 mV	3.0 ppm	90 °F	--	--	--
RM Catch	10:06 AM	0	7.3	733 mV	1.5 ppm	91 °F	--	--	--
RM TOT	10:06 AM	0	7.2	731 mV	0.5 ppm	89 °F	--	--	--
Misenhimer	10:07 AM	0	7.4	807 mV	6.7 ppm	98 °F	--	--	--
Cali Lane	10:06 AM	1	7.5	840 mV	8.7 ppm	91 °F	--	--	--

Dashboard



# LIVE MONITORING

Beacon  

Serial Number: 1100177003011

Name: Arlington

Location: Beacon

System Time: August 12, 2022 10:12 AM

 No Flow Alarm | VFD Out of Range Alarm

View Only



Dashboard



Notes



Reports



Graphs



Info

Input	Current	Setpoint	Low	High
pH	7.4	7.5	7.1	7.8
ORP	792 mV	815 mV	800 mV	825 mV
Free Cl	0.1 ppm	--	1.5 ppm	5.0 ppm
Temperature	76 °F	--	50 °F	100 °F
Flow Rate 1	0.0 gpm	200.0 gpm	--	--

Output	Mode	Status	Feedlimit	Location
pH Feed down	Auto	Off	9h	Relay 1
pH Feed down (CO2)	Auto	Off	9h	Relay 3
Cl	Auto	Off	9h	Relay 2
Recirc Pump	Auto	On	--	Relay 8
VFD	Auto	100.0 %	--	Ch. 1
Alarm	Auto	Off	--	Relay 9
Autofill	Auto	Off	4h	Relay 7

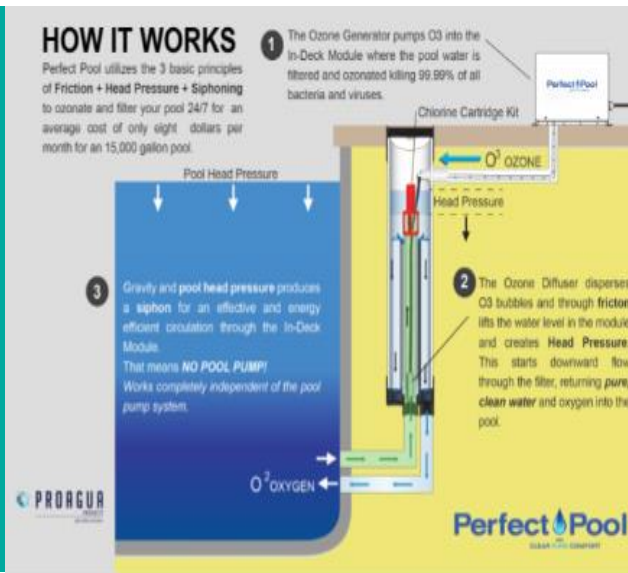
Facility Controller







# Secondary Sanitation Systems



# Ozone

# Crypto Remediation System



# NSF Certified Ultra Violet System





LAMOTTE



POOL LAB

TAYLOR



PALINTEST





# Staff Accountability

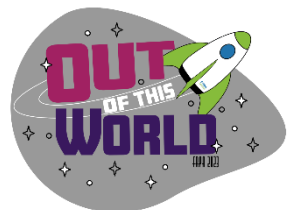
CITY OF ARLINGTON PARK AND RECREATION DEPARTMENT  
AQUATICS DIVISION  
DAILY POOL CHEMICAL LOG

POOL NAME: Don Misenheimer 201 E Lonesome Dove Trail, Arlington, TX 76002

FROM:									TO:	
		8:00-10:00 AM	10:00-12:00 PM	12:00-2:00 PM	2:00-4:00 PM	4:00-6:00 PM	6:00-8:00 PM	8:00-10:00 PM	BACKWASH	Comments/Concerns/Observations
3/30 MON	Manual	CI								
		pH								
	Controller	HRR/ORP								
		pH								
		Flow Rate								
4/3 TUES	Manual	CI	2							
		pH	7.8							
	Controller	HRR/ORP	160						✓	Added 8oz of Shock to tank & Backwashed
		pH	7.7							
		Flow Rate	325							
4/1 WED	Manual	CI	DD							
		pH								
	Controller	HRR/ORP								
		pH								
		Flow Rate								
4/2 THURS	Manual	CI								
		pH								
	Controller	HRR/ORP								
		pH								
		Flow Rate								
4/3 FRI	Manual	CI	5.2							
		pH	7.8							
	Controller	HRR/ORP	160							2 PMS PAK
		pH	7.8							
		Flow Rate	300							
4/4 SAT	Manual	CI								
		pH								
	Controller	HRR/ORP								
		pH								
		Flow Rate								
4/5 SUN	Manual	CI	5							
		pH	7.8							
	Controller	HRR/ORP	160						✓	Added Tab to tank
		pH	7.7							Backwashed
		Flow Rate	350							Shut down
		CYA								
	Operator's Initials	DD								

Attention Pool Staff: The daily chemical log must be maintained on a daily basis. All required information must be recorded.

Chemical Log



Readings

Out of range values

Test	08:00am
Staff initials	SM
Number of Guests	0
Controller pH	7.5
ORP Chlorine.	728
Controller Free Cl	5.3
Controller Water Temperature	91
Controller Flow Rate	
pH ⓘ	7.4
FAC ⓘ	4.5
Total chlorine	
Total alkalinity ⓘ	
Cyanuric acid ⓘ	
Chemicals added and quantity	

Created	7:28am Aug 01 2022
Created by	Stephen Moulder
Last update	7:29am Aug 01 2022
Last update by	Stephen Moulder

Save & exit

# MANAGEMENT APPLICATION



Readings

Out of range values

Test	11:00am
Number of Guests	15
Staff Name	Stafford
Approx patron nos	
Controller pH	7.4
ORP Chlorine.	850
Controller FC	3.2
Controller Water Temperature	84
Controller Flow Rate.	
pH ⓘ	7.1
FAC ⓘ	1
Total chlorine	
Total alkalinity ⓘ	
Chemicals added and quantity	

Chemical adjustment

- pH is too low

Free Chlorine is too low

Never add chemicals by hand while bathers are in the water. Under no circumstances shall the authors or distributors be liable for damages that result from use of this application or the information contained therein. Calculations derived from this application are to be applied at the sole discretion of the user. Dosages are for estimation purposes. For exact dosage amounts always check the label of the chemical being used. Add large volumes of chemicals in dosages to avoid spikes or steep drops in other chemical readings, and always add chemicals to water.

Created	11:25am Sep 08 2022
Created by	Venera Flores-Stafford

Save & exit

# MANAGEMENT APPLICATION

## Pool closure report

Close

Facility	Brantley Hinshaw Park	Form started on	Sep 04 2022
Form completed by	Courtnei Anderson	Form completed on	Sep 04 2022

3:29pm Sep 04 2022



### Closure of pool

Closure of pool for*	Water quality
Date*	Sep 04 2022
Time of closure*	3:00pm
Expected time of reopening*	10:00am Sep 10 2022
Manager on duty*	Courtnei Anderson
Bather count*	0

### Water quality

Entire facility closure	Yes
Issue with water quality	Ph feeder over feeding. Ph continues to drop below 7.2.

### Water check

Time of reading	3:00pm
Free chlorine	2.2
ORP chlorine	
pH	6.9

Temperature

Digital Records





# MANAGEMENT APPLICATION



Michael Debrecht ▾

Dashboard

Facility

Lifeguards

Schedule ▾

Admin ▾

Reports ▾

Support ▾

Logout

## Reports

Checklist reports



Pool reports







Concession Count

Concession Count v2

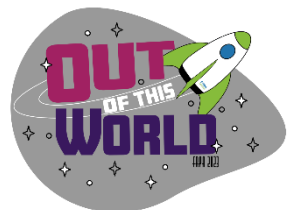
Illness/injury incident

Pool closure

Aquatic facility	Start date	End date	
All facilities ▾	Jul 01 2022	Aug 13 2022	 
What type of Incident occurred	<input type="checkbox"/> Water rescue with first aid incident <input type="checkbox"/> Water rescue <input type="checkbox"/> First aid incident <input type="checkbox"/> Other		
Location	All locations ▾		

Facility	Date	Time	Name of person involved	What type of Incident occurred	Location	Responder	Completed by	View
Allen Bolden Pool	Aug 04 2022	4:40pm		Water rescue	Diving Board			 
Bad Konigshofen Family Aquatic Center	Aug 03 2022	4:06pm		Water rescue	Diving Board			 
Bad Konigshofen Family Aquatic Center	Jul 29 2022	7:58pm		Water rescue	Diving Board			 

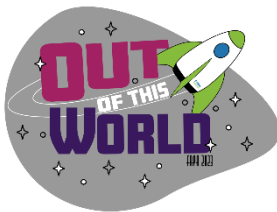
Incident Report



# MANAGEMENT APPLICATION

Week 1							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	11:45am - 6:15pm U Lifeguard	
	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	8:45am - 11:45am U Lifeguard	11:45am - 6:15pm U Lifeguard	
		11:45am - 6:15pm U Lifeguard		11:45am - 6:15pm U Lifeguard		11:45am - 6:15pm U Lifeguard	
		11:45am - 6:15pm U Lifeguard		11:45am - 6:15pm U Lifeguard		11:45am - 6:15pm U Lifeguard	
		11:45am - 6:15pm		11:45am - 6:15pm		11:45am - 6:15pm	

Scheduling



# **TRANSPARENCY**

**Goal: Building Trust**



# YOUR SAFETY IS OUR PRIORITY.

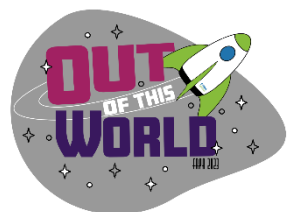
The Parks and Recreation Department recently developed the *Bakari Williams Protocol*, which puts additional checks and balances in place for aquatics facility maintenance, and also made recommended upgrades to the aquatics facilities' chemical testing, controllers, and secondary sanitation systems to ensure facilities are safe for public use.

Please scan the QR code below to access the data of the most recent sample collected for this location, as well as all other City of Arlington aquatics facilities.



## PUBLIC TRANSPARENCY

QR Code Signage



# PUBLIC TRANSPARENCY

[Contact Us](#)

## Pool tests

### Allen Bolden Pool

Name / last reading	FAC	CC	pH	Alk
Pool 6:00 pm Aug 04 2022	3		7.4	

### Bad Konigshofen Family Aquatic Center

Name / last reading	FAC	CC	pH	Alk
Pool 12:00 pm Aug 10 2022	2.5		7.2	

### Beacon Recreation Center

Name / last reading	FAC	CC	pH	Alk
Splash Pad 12:00 pm Aug 10 2022	5.1		7.7	

### Brantley Hinshaw Park

Name / last reading	FAC	CC	pH	Alk

## Announcements

### Beat the Heat!

Aug 9 2022

100 degrees came early this year, beat the heat with Arlington Aquatics. Join us at one of our local aquatic facilities. Click [here](#) for locations and operating hours. See you soon!!





[Learn more about commercial pool chemistry here](#)

Acceptable ranges		Min	Max
Free Chlorine (FAC)	Pools	1	8
	Spas	2	8
Combined Chlorine (CC)		-	0.5
pH		7	7.8
Total Alkalinity		60	180



Public Dashboard



Readings		Out of range values
Test	<input type="text" value="08:00am"/>	
Staff initials	<input type="text" value="SM"/>	
Number of Guests	<input type="text" value="0"/>	
Controller pH	<input type="text" value="7.5"/>	
ORP Chlorine.	<input type="text" value="728"/>	
Controller Free Cl	<input type="text" value="5.3"/>	
Controller Water Temperature	<input type="text" value="91"/>	
Controller Flow Rate	<input type="text"/>	
pH		<input type="text" value="7.4"/>
FAC		<input type="text" value="4.5"/>
Total chlorine	<input type="text"/>	
Total alkalinity		<input type="text"/>
Cyanuric acid		<input type="text"/>
Chemicals added and quantity	<input type="text"/>	
Created	7:28am Aug 01 2022	
Created by	<input type="text"/>	
Last update	7:29am Aug 01 2022	
Last update by	<input type="text"/>	

Save & exit

# MANAGEMENT APPLICATION

Digital Records





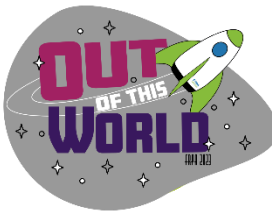
# **BAKARI WILLIAMS PROTOCOL MANUAL**

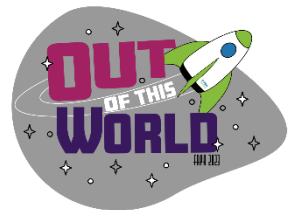
**Goal: Staff Education**



# BAKARI WILLIAMS PROTOCOL

- New SOP's
  - Collaboration
  - Procedures
  - Trainings
  - Public Transparency
  - Presentations
- Equipment Upgrades
  - Live Monitored Controller
  - Management Application
  - Photometer Testing
  - NSF Certified UV Systems







# CHECK IN QR CODE

















# BAKARI WILLIAMS PROTOCOL



# Thank You!



@ArlingtonParks



@CityofArlington



@ArlingtonParks



@ArlingtonParks



ArlingtonTX.gov

**Venera Flores-Stafford, Ph.D  
& Michael Debrecht**

**FRPA**  
FLORIDA RECREATION  
& PARK ASSOCIATION

For more information about the  
Florida Recreation and  
Park Association  
visit [frpa.org](http://frpa.org)