



nnovations

Tulsa District Team

Jason Knight
Natural Resource Specialist
Tulsa District Office

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."



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“I have an idea...”



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What happened next?

- No Time!
- No Resources!
- Not a Priority!



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Where do we start?

- Tulsa not a stranger to Innovative ideas.
- 2015 we developed and piloted (in house), the Tulsa District Park Ranger Mobile App.



No IT Help



App Flexibility



Big Advantages



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Park Ranger Mobile App

LAKE OFFICES

RECREATION

PHONE BOOK

CITATIONS

SAFETY

POLICIES

Tulsa District APP

Where can I download the App?



Two Levels: District Level

- Connects all Apps across District.
- One touch dial district phonebook.
- All AHA's listed for quick access.
- Comprehensive and searchable policy guide and library.



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Park Ranger Mobile App

Two Levels: Project/Lake Level

- Resources that are specific to that project.
- Maps, brochures, guides, and forms that can be emailed to the visitor in the field.
- Flood resources for flood watch.
- Run citations across all lakes in the Tulsa District over last 5 years.
- One touch dial situational phonebook.



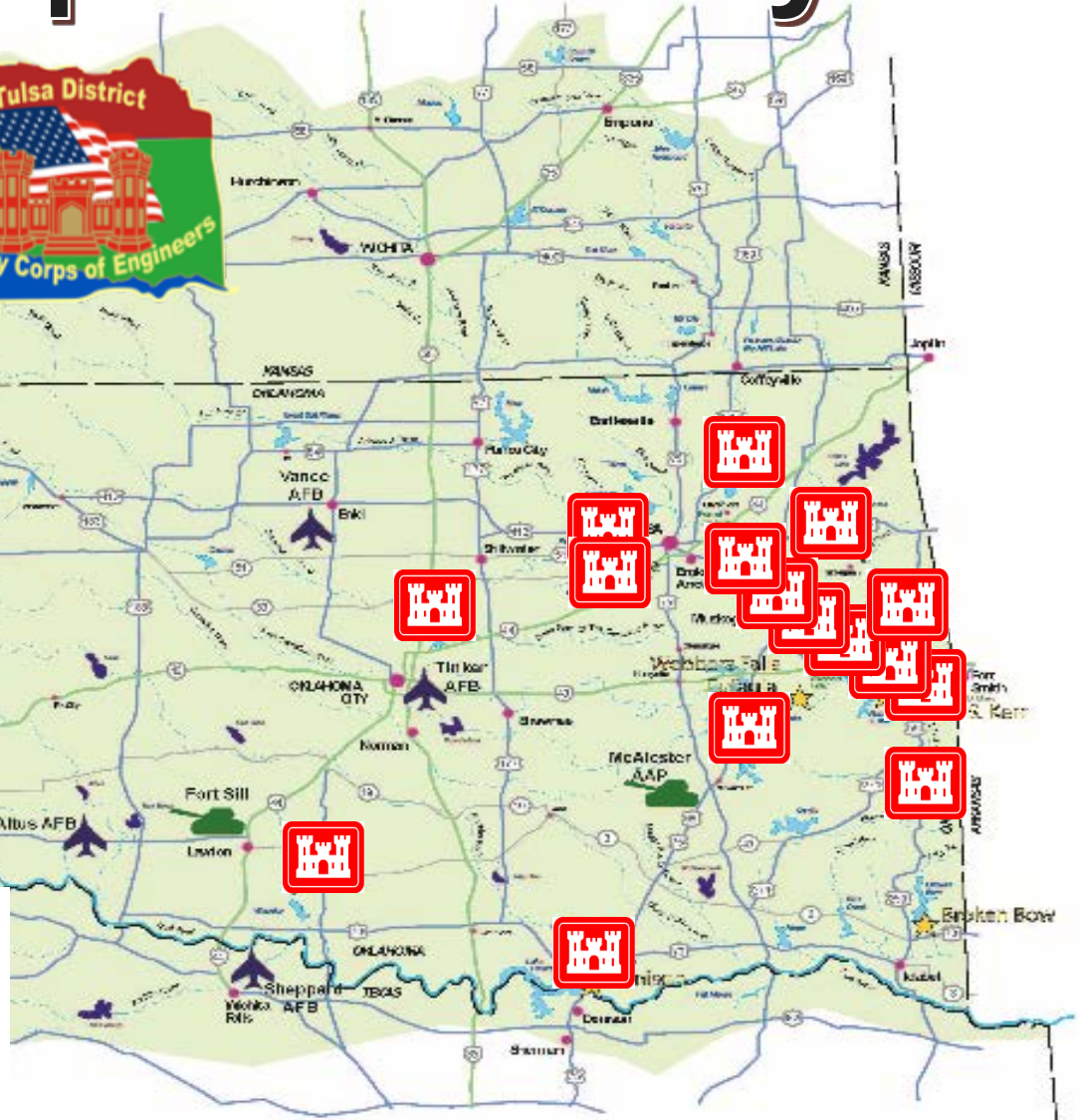
LAKE TEXOMA



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2015 to present day



PRMA 



PARK RANGER MOBILE APP

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What do we do now?

- Create an avenue and resources for great ideas.
- Create an atmosphere where everyone can bring their ideas to the table.



**Build an Innovations team
for the Tulsa District.**



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How to build an IPDT?

First and most importantly, find people who **WANT** to be part of the PDT.

- Don't assign someone.
- Foster creativity.
- Willing to work on Innovative Ideas.
(Not Necessarily Yours)



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Get away from normal...

Create a team that...

- supports creative ideas from across the district.
- empowers them to build prototypes & models.
- Sees all aspects of the idea including how it operates and performs.



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Type of Team Members...

Who do we need for this team?

Open thinkers

Experience



Systems/Tech



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What the PDT is not...

- Complain Festival, talk about how bad you think things are.
- Foster irrational ideas... Get rid of VERS, OMBIL, or other systems.
- Social Club.



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Building a Team in Tulsa

June 2016



PMRA POC's

Added 5 Team Members

August 2016



OPM Referrals

Added 6 Team Members



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Tulsa District Innovations PDT Team

All District Areas Represented:

(3) Eastern Area
(2) Northern Area
(2) Texoma Area
(2) Hugo Area
(1) Ft. Gibson Area
(1) Kansas Area
(1) District Office

Diverse Work Group:

(6) Park Rangers
(1) CE Tech
(2) ES Specialist
(1) Lead Ranger
(1) Assistant LM
(1) District Lead

* Pull in additional help
if needed for specific
innovations.

Goals:

Innovate the
Planning and
Development of
Technology

- Benefit: All Corps Staff and the Public
- Recreation and Environmental Stewardship
- Broad Innovative Range



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Innovation Season

Innovation Season (October to May)

- Inclusive instead of Exclusive.
- Organize a district wide meeting to gather innovative ideas.

Gathering of ideas (Summit)

- **ANYONE** District or Field Staff, on IPDT team or not, could come up with a presentation and present their idea to the Summit.
- If not on the IPDT Team and your idea is chosen you become a temporary member for that FY and get to lead the sub-team.
- The team would decide after the Summit on what Innovations they could fit into their 2016-17 workload, around 2-3 ideas max.



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2016 INNOVATIONS PDT TEAM Summit Meeting

October 19th, 2016
Tulsa District Office



5 Innovative Ideas Presented



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2016 INNOVATIONS PDT TEAM

Summit Meeting

USACE Jr. Park
Ranger Club App.

PDT Innovation Submission
By: Park Ranger Shawna Poles - Carlton Lake

U.S. Army Corps of Engineers
RETS
REAL ESTATE
TRACKING SYSTEM
STARTER

Automated Fee Collection



Shoreline
Remote Control

 **CORPS**
Parks Plus+



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2016 INNOVATIONS PDT TEAM

Summit Meeting

USACE Jr. Park
Ranger Club App.

PDT Innovation Submission
By: Park Ranger Shawna Polen - Canton Lake

Team Lead: Shawna Polen

U.S. Army Corps of Engineers

RETS

**REAL ESTATE
TRACKING SYSTEM**

Team Lead: James Vincent

**Shoreline
Remote Control**

Team Lead: Matt Sexton



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Sub teams at work...

- What policies/regs are prohibiting this idea?
- What are other Corps projects/private sector doing about this idea?
- What alternate methods are there out there?
- What technologies would enhance this idea?
- Draw out what this idea looks like to you.



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Workshops...

- Lake Texoma
December 5th & 6th
- Research & Discussion
- Draw out Innovations
- Go over progress
- Decide if any Innovations
need to be tabled.



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Workshops...

- Oologah Lake
March 7th & 8th
- Prototype Progress
- Design Adjustments
- Pilot testing
locations...



Don't Wait For Inspiration
Build The Foundation For It.



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Workshops...

- Undetermined
Early May 2017
- Finishing touches on
prototypes for pilot
- Customize for pilot
location



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Pilot Phase...

Jr. Park Ranger App

Target date of June 1, 2017
Canton Lake

RETS Starter

Target date of July 1, 2017
Lake Texoma, Eufaula Lake,
& Keystone Lake



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Prototypes



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Jr. Park Ranger App

Sub Team Lead:

- Shawna Polen
- Park Ranger, Canton Lake

Who Benefits:

- Creates a platform for Interpretation that normally would not get done due to time and personnel limitations.
- Enhances the experience for the recreating public.



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Interpretation



Water Safety

- Very important, but already spend lots of time, energy, & resources.
- Not exclude but not the main focus.



Jr. Park Ranger App Focuses on:

- Corps Mission
- Environmental (Wildlife, Fisheries, etc.)
- Recreational (Park Safety, preparation, etc.)
- All other types...

Public Experience

New ways to get the public involved:

- Adapt to new technology.
- Offers a different experience for the public.
- Gets the message across to the next generation.



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Jr. Park Ranger App

How to Play

Select a Lake

Send Feedback

Help & Support

Find a Ranger

Do you have what it
takes to be a Jr. Park
Ranger?



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Jr. Park Ranger App

How to Play

Select a Lake

Send Feedback

Help & Support

Find a Ranger



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Canton Lake

Tulsa District



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Oolagah Lake

Tulsa District



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How to Play

Select a Lake

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How to Play

Select a Lake

Send Feedback

Help & Support

Find a Ranger

Find a Ranger:

Name of Jr. Park Ranger

Where can a Park Ranger find you?

- | | |
|---------------------------------------|-------------------------------------|
| <input type="checkbox"/> Day Use Park | <input type="checkbox"/> Campground |
| <input type="checkbox"/> Park Office | <input type="checkbox"/> Other |

Name of Recreation Area (& Site #)



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Awarded With...



Share photos on...



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Prototypes



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RETS STARTER

Sub Team Lead:

- James Vincent,
- Texoma Area Environmental Specialist

Sub Team Members:

- Ryan Butler, Jake Ellison, Chris Gilliland and Josh Wingfield

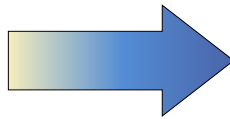


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What is RETS?

- RETS = Real Estate Tracking System
- Web-based system
- Streamlines workflow by electronically routing and tracking Real Estate packages through the approval process
- Transitions from hard copy packages to digital packages
- Creates historical record



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What is RETS?



Enter New RETS Action

Refresh web page to view newly created RETS action

RETS Assigned to Me as Ranger, Chief Ranger, Field RE, Lake Mgr Assigned to Me as Cultural, Environ, HH, ECC, Nav Assigned to Me as Ops, Reg, OC, RE, NEPA RETS Package Tracking
Package Status 0-60 Days Package Status 61-119 Days Package Status Over 120 Days Package Status Complete

RETS	Project Name	Outgrant Type	Application Type	POC Name	Ranger Assigned	Document Folder
Project Name : Arcadia Lake (4)						
Fiscal Year : FY16 (4)						
ARC-FY16-004	Arcadia Lake	Disposal - Structures/Improvements	N/A	Lt Derick Pickard	<input type="checkbox"/> Berryhill, Erin R CIV USARMY CESWT (US)	https://team.usace.army.mil/sites/SWT/RE/rets/retsdocs/ARC-FY16-004
ARC-FY16-003	Arcadia Lake	Approval/Denial of Construction	N/A	Joe Ready	<input type="checkbox"/> Berryhill, Erin R CIV USARMY CESWT (US)	https://team.usace.army.mil/sites/SWT/RE/rets/retsdocs/ARC-FY16-003
ARC-FY16-002	Arcadia Lake	Easement	New - First Time Issued	Steve Lawrence	<input type="checkbox"/> Berryhill, Erin R CIV USARMY CESWT (US)	https://team.usace.army.mil/sites/SWT/RE/rets/retsdocs/ARC-FY16-002
ARC-FY16-001	Arcadia Lake	License	New - First Time Issued	Derick Pickard	<input type="checkbox"/> Berryhill, Erin R CIV USARMY CESWT (US)	https://team.usace.army.mil/sites/SWT/RE/rets/retsdocs/ARC-FY16-001
Project Name : Big Hill Lake (2)						
Project Name : Birch Lake (1)						
Project Name : Broken Bow Lake (15)						
Project Name : Canton Lake (9)						
Project Name : Chouteau Lock and Dam 17 (1)						
Project Name : Copan Lake (6)						



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Why RETS Starter?

- Addresses current challenge of **preparing** and uploading electronic packages into RETS.
- Why are packages challenging to prepare?
 - Complex
 - Requires institutional knowledge
 - Resources (forms, links, etc.)
- Particularly difficult for new employees and staff who infrequently prepare packages.



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What is RETS Starter?

- Web-based tool
- Intuitive step-wise process for preparing and uploading packages
- Integrates institutional knowledge
- Improves access to resources



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What are the Benefits?

- Moderates learning curve
- Facilitates *Knowledge Management*
- Improves consistency across Tulsa District



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Review and Choose your Checklist...

Select your Checklist below by clicking on the "Select" Button, or for more details click on the "Details" button for a situational summary.

Checklists:

Ag & Grazing	Details	Select
Annexation	Details	Select
Boat Dock or Boat Launching Ramp	Details	Select
Consent to Flowage Easement	Details	Select
Construction Request	Details	Select
Easements	Details	Select
Encroachment	Details	Select
Land Disposal	Details	Select
Lease	Details	Select
License	Details	Select
Natural Resources Disposal	Details	Select
Oil and Gas	Details	Select
Permit	Details	Select
Ports and Barge Mooring	Details	Select
Recreation Outgrant	Details	Select
Structures Improvement Disposal	Details	Select
Termination	Details	Select
Wildlife	Details	Select

Description & Situations:

Items in association with a Shoreline Use Permit

- Electrical Lines
- Water Lines
- On property structures
- Boat Ramps

Checklist Preview:

BOAT DOCK OR BOAT LAUNCHING RAMP LICENSE CHECKLIST

Determine the type of action (renewal or new) and check all boxes listed under that category to ensure that all necessary paperwork is included in the outgrant request. Please refer to the Checklist Key for the type of action that requires the use of this checklist.

RETS TRACKING NUMBER _____ LAKE NAME _____

☐ **RENEWAL Action:** No Changes.

☐ 1. Identify the current or expired contract number. _____

☐ 2. Provide name, address and telephone number _____

☐ 3. ☐ Boat Dock Number _____

Facilities related to dock

☐ Waterline* ☐ Electric line ☐ Tramway ☐ Stairway

Other: _____

*If waterline with lake water withdrawal, see CESWT-00-NR, District Commander's Policy Memorandum #109, 25 Mar 2010, subject: Removal of Submersible Pumps Owned and Operated by Members of the Public from Tulsa District Civil Works Reservoirs (See RETS, Project Checklist / Policies).

☐ No submersible pump exists or is proposed.

☐ Centrifugal or other approved pump is in place or plan for new installation approved.

☐ Pump's electrical service, including motor connections and terminations, are or will be located above top of flood control pool elevation of the lake.

OR

☐ Pump is or will be mounted on the deck of privately-owned boat dock permitted under shoreline management program.

☐ Permit or approval from the appropriate State water management agency for withdrawal of water has been provided.

☐ Boat Launching Ramp

☐ List facilities related to Ramp _____

☐ **NEW Action:**

☐ First time issued. ☐ Change of Ownership. ☐ Change in Land Area or Purpose.



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Select your action...

(Click on the appropriate action below, or click the arrow to the left to return to "Choose your Package")

New Action

Change/Modification Action

Renewal Action

Termination (No restoration)

Terminations (With Restoration)



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Fill out Portfolio...

Boat Dock/Ramp - Change/Modification
(Fill out the Portfolio below, then hit the right arrow to continue)



Create + PDF Local PDF Search Fill & Sign

TEX-FY16-144 - Project's Construction Request Checklist Revised.pdf

APPROVAL / DENIAL OF CONSTRUCTION WITHIN A LEASE OR OTHER OUTGRAFTED AREA

Check all boxes that are correct. If all necessary items are checked, the construction request is denied.
Reference: RFP available from MFR Project Checklist - Project's Status for Approval/Denial of
Construction within a Lease Area

RLTS TRACKING NUMBER: LAKE NAME:

Reference: State Policy, Resolution No. 1 - Outgranted Management & Use (MUM) 10/10/01-02;
3 March 2004, was rescinded by Senate Bill 2007, 75th Legislature, 1st Regular Session, 2007, and replaced by
Senate Bill 2007, 75th Legislature, 1st Regular Session, 2007, and replaced by Senate Bill 2007, 75th
Legislature, 1st Regular Session, 2007.

Note: Use this checklist if proposed construction is located within existing lease areas.

☐ NEW Action - Request for construction in lease area

☐ YES, already the current contract, lease, or other lease

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Fill out Portfolio...

Boat Dock/Ramp - Change/Modification
(Fill out the Portfolio below, then hit the right arrow to continue)



REPORT OF AVAILABILITY
B. Environmental and Cultural Consideration:
1. Coastal Zone Management Act: <input checked="" type="checkbox"/> CZMA is not applicable. <input type="checkbox"/> CZMA is applicable and the proposed use: <input type="checkbox"/> is, or <input type="checkbox"/> will be consistent with the approved state CZM Plan.
2. Clean Water Act (Federal Water Pollution Control Act): <input checked="" type="checkbox"/> This action will not involve the discharge of any pollutants into the United States or less than one million gallons of discharge per day will be made. <input type="checkbox"/> This action will entail the discharge of more than one million gallons of pollutants into the waters of the United States per day. <input type="checkbox"/> The applicant has applied for and received the NPDES Permit from the EPA/appropriate state agency. <small>(If not required, enter circumstances.)</small>

4. Wetlands:

- ☒ This property is not located within a wetlands area.
- ☐ This property is located within a Wetlands area, therefore, the following restrictions must be incorporated in the outgrant document: _____
(Status of 404 Permit Process _____)

Wetlands
Mapper

Help

5. Endangered Species:

- ☒ This action will not adversely impact the habitat of any endangered species of wildlife, or plants.
- ☐ This action will adversely impact the habitat of endangered species of fish, wildlife and/or plants identified on an attached map. Accordingly, the following restrictions must be incorporated in the outgrant document to protect the habitat:

USFWS
Review

Help

☐ This Action will adversely impact fish and wildlife species or habitat integral to Congressionally authorized mitigation or General Plans, or Army agreed to recommendations in Fish and Wildlife reports prepared under the provisions of the FWAC.
Impact description:

Recommended actions prior to availability:



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**Add Customer Info
to Package**

[illegible]



Upload RETS Package...



Boat Dock/Ramp - Change/Modification
(Click on "Document Link" at bottom of the Ranger Tab.

[Click here to Load Files](#) & Navigate to RETS Folder, then drag the Portfolio over to RETS)

SharePoint

Newsfeed OneDrive Sites Knight, Jason M CIV USARMY CESWT (US) +

BROWSE FILES LIBRARY

SYNC



Team Collaboration

Tulsa District District Commander CT DE EC EO Events GIS IR LO OC OD PE PMP's PPMD QMS RE RM

RETS Documents • EUF-FY17-056

Enter RETS Action

RETS Home

Real Estate Home

Formats

Real Estate Formats

Checklist

Project's Checklist

Libraries

Forms

Outgrants

Lists

Calendar

Site Contents

+ new document or drag files here

All Documents Find a file

✓ Name Modified Modified By Checked Out To

There are no files in the view "All Documents".



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Process Complete...

(You can start a new real estate package with the left arrow,
or leave RETS Starter and work in RETS with right arrow.)



SharePoint

Newsfeed

OneDrive

Sites

Knight, Jason M CIV USARMY CESWT (US) >

BROWSE PAGE

Libraries

Forms

Outgrants

Lists

Calendar

Site Contents

RETS	Assigned to Me as Ranger, Chief Ranger, Field RE, Lake Mgr	Assigned to Me as Cultural, Environ, HH, ECC, Nav	Assigned to Me as Ops, Reg, OC, RE, NEPA	
RETS Package Tracking	Package Status 0-60 Days	Package Status 61-119 Days	Package Status Over 120 Days	Package Status Complete

RETS	Project Name	Outgrant Type	Application Type	POC Name	Ranger Assigned	Document Folder
Project Name : Arcadia Lake (4)						
Project Name : Big Hill Lake (2)						
Fiscal Year : FY17 (1)						
BI-HILL-FY17-001	Big Hill Lake	Disposal Structures/Improvements	N/A	Wyatt Cooper	<input type="checkbox"/> Cooper, Wyatt M CIV USARMY CESWT (US)	https://team.usace.army.mil/sites/SWT/RE/rets/retsdocs/BI-HILL-FY17-001
Fiscal Year : FY16 (1)						
Project Name : Birch Lake (1)						
Project Name : Broken Bow Lake (14)						
Project Name : Canton Lake (9)						
Project Name : Chouteau Lock and Dam 17 (1)						
Project Name : Copan Lake (6)						
Project Name : Council Grove Lake (1)						
Project Name : El Dorado Lake (9)						
Project Name : Elk City Lake (2)						
Project Name : Eufaula Lake (271)						



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In Conclusion



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Need for Innovation

Mission Critical...

- Fostering new ideas & innovations to streamline and assist our already heavy workload.
- Creating new opportunities to reach the public that we would not normally have the time for.
- More empowered workforce...
 - Creates energy in the NRM Workforce



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Going Forward...



Jason Knight, Team Lead
James Vincent, Env. Specialist
Justin Smither, Park Ranger
Eric Pearson, Park Ranger
Jake Ellison, Chief Ranger
Casey Williams, CE Tech
Ryan Butler, Park Ranger
Shawna Polen, Park Ranger
Shae Harrison, Assistant LM
Josh Wingfield, Env. Specialist
Chris Gilliland, Park Ranger



Matthew Sexton, Park Ranger
Cory Bowlin, Park Ranger
Vacant Position
Vacant Position



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Resources...

- Newsletter covering the newest Innovations and PRMA happenings.
- Six editions per year, once every two months.
- Currently goes out to seven districts in USACE.
- Originally meant for PRMA and Innovations Team Members, but has spread since.



NEWSLETTER

JANUARY/FEBRUARY 2017

"Don't wait for inspiration, build the foundation for it."
Casey Williams, CE Tech John Redmond Lake, IPDT Team Member

Lake Texoma: New Google Earth Layers



Since the Park Ranger Mobile App Era began, one of the major goals have been to find a way to incorporate great mapping abilities into the App. Thanks in part to new Android smart phones that support Google Earth, and the research and development of the Lake Texoma Park Ranger staff, this is now a reality. Having access to the Lake projects docks, boundary lines, monuments, contour lines, vegetation maps, soil maps, and other KMZ file maps is such a big help to be able to access these resources from your smartphone and use them in the field in real time.

Current limitations are only the ability to manipulate the layer off of Google Earth application, however the Lake Texoma Staff and the Park Ranger Mobile App Project POC's are up to the challenge.

Fort Gibson Lake: Welcome to the App Family

As of January 27th, 2017 the Park Ranger Mobile App family just got a little bigger. We want to welcome our newest members, Ft. Gibson Lake, Newt Graham Lake, and Chouteau Lake to the PRMA family. With these three additions, our current count is up to 11 lakes and growing inside the Tulsa District, and 1 in the Mobile District.

FORT GIBSON LAKE

Back to Main	Recreation
Natural Resources	Parks & PSA's
Maps & Brochures	Phone & Contacts
Access Codes	Shoreline
FLOOD	Local Policy
Forms	
SAFETY	Citations/Forfeiture



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Resources...

Natural Resources Management Gateway
to the future . . .

Google the NRM Gateway:

- “Innovations Team”
- “Park Ranger Mobile App”



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Questions

