

Environmental Information



EN2017

EPCRA MOBILE APP

David Sage, *Washington State Department of Ecology*

2017 Exchange Network National Meeting

Innovation and Partnership

May 15-18, 2017

Sheraton Philadelphia Society Hill Hotel
Philadelphia, Pennsylvania

#EN2017

<http://www.exchangenetwork.net/en2017>

ABSTRACT

Washington State's first iOS/Android smart phone app for emergency responders. The user friendly app quickly provides key information about location, chemical and storage data to emergency responders. Meet the developer behind it, how the app works, how it was used in Washington's recent wildfires, and how a small team of three, built and published this life saving tool!

EPCRA

(Emergency Planning and Community Right to Know Act)



Mobile App
Android and iPhone



Washington State Emergency
Response Commission

David Sage
ITS5 Senior Application Developer
Hazard Waste & Toxic Reduction
Washington State Department of Ecology



2016 ECOS Innovation Award

What is EPCRA

(Emergency Planning and Community Right to Know Act)

Ecology receives EPCRA reports and manages EPCRA data on behalf of the Washington State Emergency Response Commission (SERC)

Reports:

- Facility Data
- Emergency contacts
- Chemicals stored

Data is used by:

- SERC, Emergency Responders
- Local Emergency Planning Committees (LEPC)
- Fire Departments

Why an EPCRA App

- Data available offline
- Mapping
- Facility emergency contacts
- Instant Access to Chemical and Storage information

Sleepy Hollow Wildfire June 2015



“It’s all about safety and being as prepared as possible.”

- Chief Bill Whealan,
Washington Emergency Response Commission



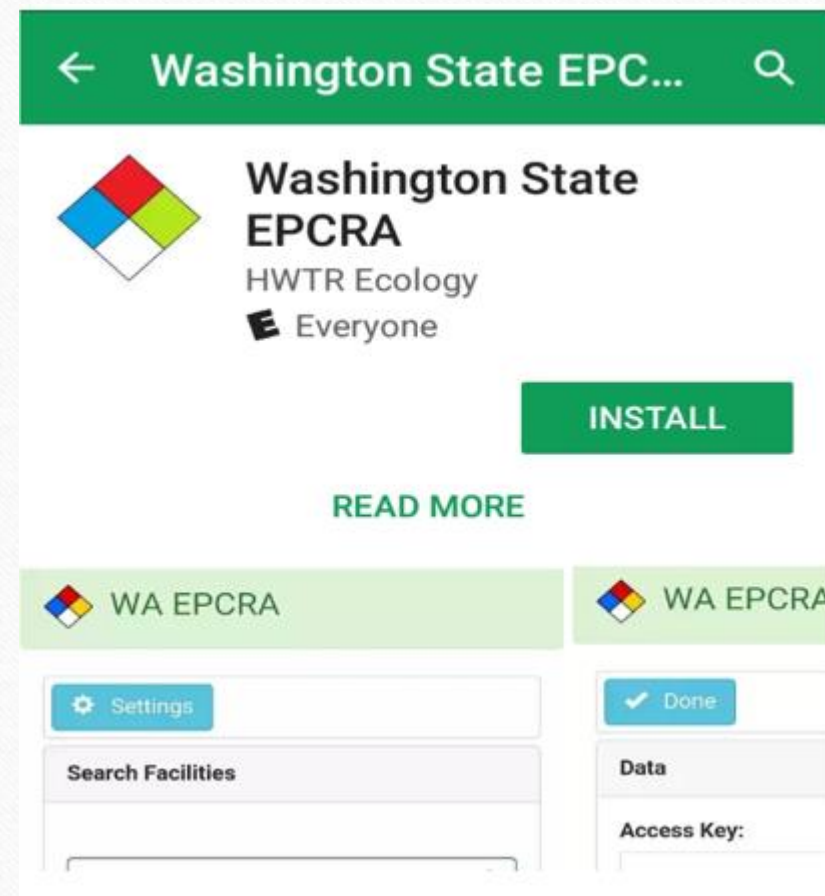
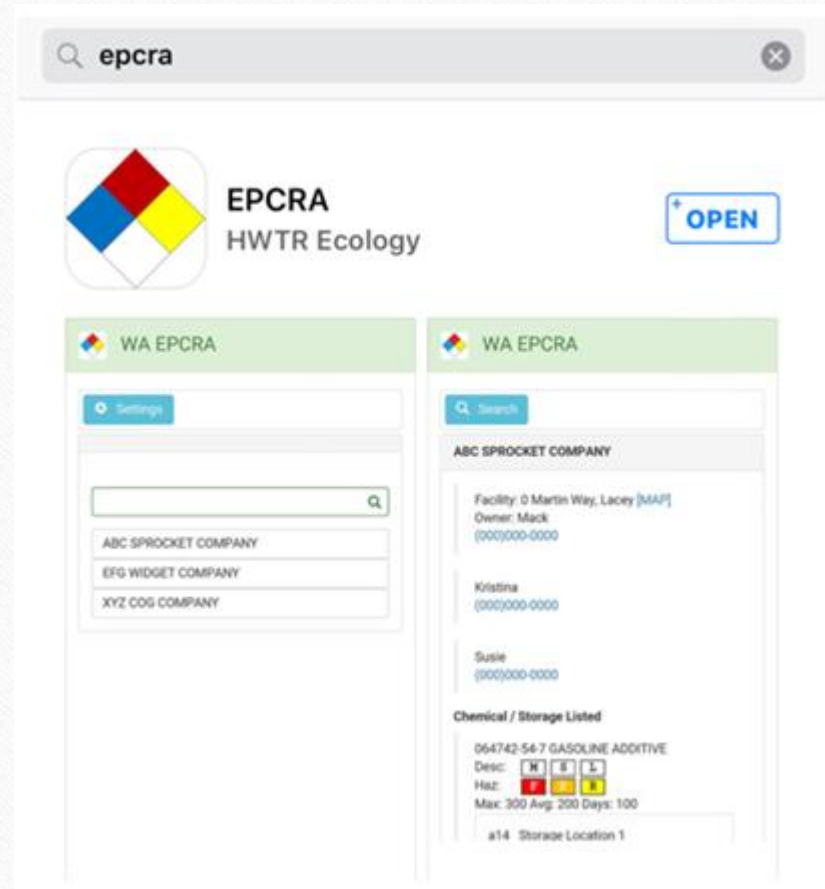
*“This is a game-changer for us.
Having this paid off for us, improving the safety of responders and the
public.”*

– Dave Byers, Spills response manager

Live Demo



App Store



App Setup

Software Agreement

Software Agreement

Service requires an Access key
HWTR Ecology Contact:
hwtrecology@gmail.com
www.ecy.wa.gov/epcra
Ver 2

Agree

Decline

SERC Use of Data Agreement

THIS SOFTWARE PRODUCT IS PROVIDED BY
THE WASHINGTON STATE EMERGENCY
RESPONSE COMMISSION AND DEPARTMENT

Download Data

Download Data

Service requires an Access key
HWTR Ecology Contact:
hwtrecology@gmail.com
www.ecy.wa.gov/epcra
Ver 2

Access Key:


.....

Local Emergency
Planning Committees:

THURSTON ▼

Download

Search Screen

 WA EPCRA

Data

AGRICULTURAL PLUS OF ENDOR 300 Desmond Dr SE LACEY 98503


EWOKS FROM ENDOR 300 DESMOND DR Lacey 98507

JEDI ORDER 300 DESMOND DR Lacey 98207

PSM SPROCKETS INC 300 Desmond Dr SE Lacey 98503

Search Filter

Select
Name and Location

 WA EPCRA

Data

Jedi

JEDI ORDER 300 DESMOND DR Lacey 98207

^ v Done


a w e r t y u i o p

Detail Screen

Location

Owner

Emergency
Contacts

 **WA EPCRA**

Close

EWOKS FROM ENDOR

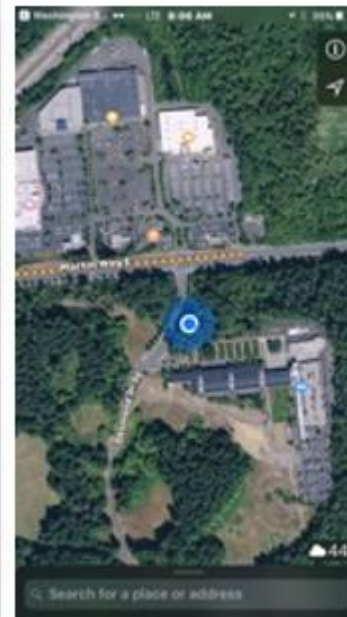
300 DESMOND DR, Lacey [\[MAP\]](#)
(360)407-6000
Manned:200

Owner: Paploo
(360)407-6000
300 DESMOND DR, Lacey

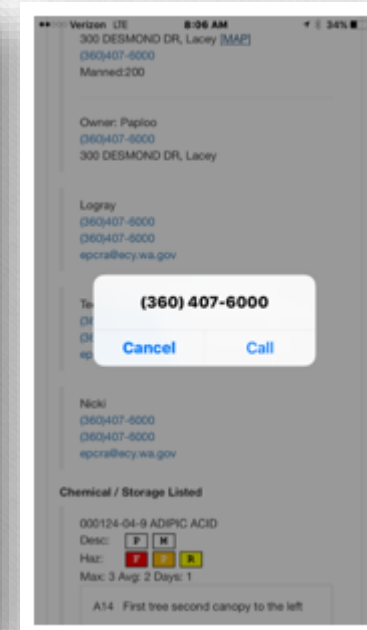
Logray
(360)407-6000
(360)407-6000
epcra@ecy.wa.gov

Teebo
(360)407-6000
(360)407-6000
epcra@ecy.wa.gov

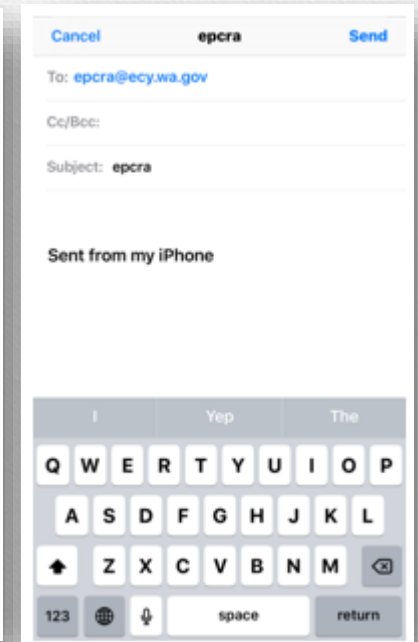
Map



Phone



Email



Detail Chemical Storage Screen

CAS / Name

Description

- ☐ P Pure
- ☐ M Mix
- ☐ S Solid
- ☐ L Liquid
- ☐ G Gas
- ☐ E EHS -

Physical Heath
Hazard

- ☐ F Fire
- ☐ P Pressure
- ☐ R Reactive
- ☐ A Acute
- ☐ C Chronic

Chemical / Storage Listed

000124-04-9 ADIPIC ACID

Desc: ☐ P ☐ M

Haz: ☒ F ☐ P ☐ R

Max: 3 Avg: 2 Days: 1

A14 First tree second canopy to the left

002921-88-2 LORSBAN

Desc: ☐ M ☐ S

Haz: ☐ A ☐ C

Max: 500 Avg: 500 Days: 120

J14 Third tree right of main entrance

Storage

- ☐ A Above ground tank
- ☐ B Below ground tank
- ☐ C Tank inside building
- ☐ D Steel drum
- ☐ E Plastic or non-metallic drum
- ☐ F Can
- ☐ G Carboy
- ☐ H Silo
- ☐ I Fiber drum
- ☐ J Bag
- ☐ K Box
- ☐ L Cylinder
- ☐ M Glass bottles or jugs
- ☐ N Plastic bottles or jugs
- ☐ O Tote bin
- ☐ P Tank wagon
- ☐ Q Rail car
- ☐ R Other
- ☐ S Sulfuric acid in batteries only

Temperature

- ☐ 4 Ambient temperature
- ☐ 5 Greater than ambient temperature
- ☐ 6 Less than ambient temperature but not cryogenic
- ☐ 7 Cryogenic conditions

Pressure

- ☐ 1 Ambient Pressure
- ☐ 2 Greater than ambient pressure
- ☐ 3 Less than ambient ambient pressure

Comments

Technologies Used



Visual Studio IDE

C Sharp Programing Language

Team Foundation Server



SQL Server DMS



IIS Web Server



Script Libraries



Bootstrap



jQuery



AngularJS

Mobile Framework



Cordova

Ending Thoughts

Simple design helps with maintaining the final product.

Developers familiar with Mac, Windows and publishing mobile apps

State Infrastructure, Retention and Resources

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Architecture, Business, and Software Development

Mobile and Desktop Applications

Languages: JAVA, C#, VB.NET, C++, SQL, VBA and JavaScript

Platforms: iOS, Android, Windows, and MAC.

Development Environments - Visual Studio, Eclipse, and Xcode.