



SRPMIC National Environmental Information Exchange Network (NEIEN)



Environmental Protection & Natural Resources

Environmental Information Outreach in
the
Salt River Pima-Maricopa Indian
Community (SRPMIC)



SRPMIC background

- Akimel O'Odham (Pima)
- Xalychidom Piipaash (Maricopa)
- Bound on all sides
- Unique ecosystem
- Unique tribal commercial development

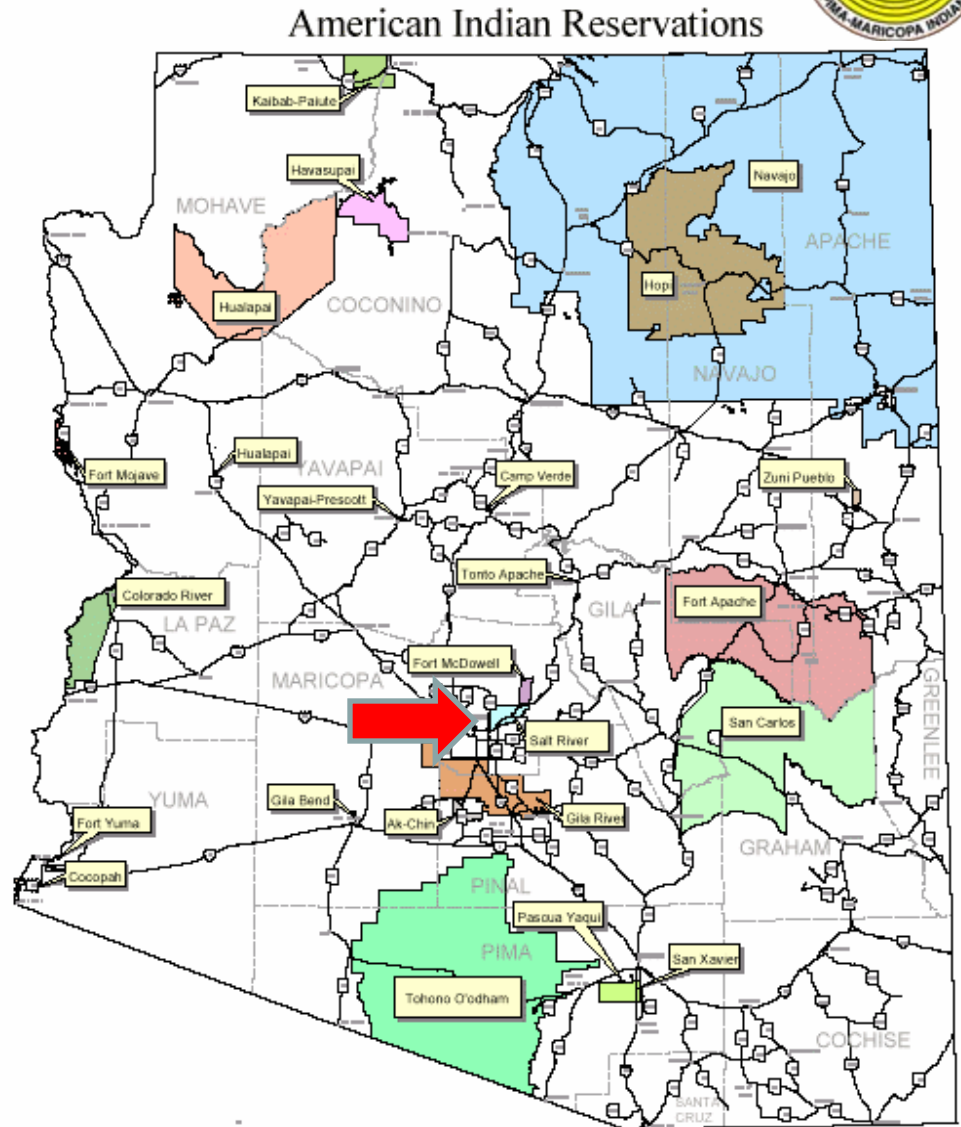


SRPMIC NEIEN



Environmental Protection & Natural Resources

SRPMIC location



Arizona Department of Transportation
Transportation Planning Division





Who We Are



- **Air Quality Program**
- **Water Quality Program**
- **Environmental Programs & Policy Development**
 - Pesticides/Hazardous Substances
 - Solid waste
 - Recycling
 - Environmental Policy
- **Land Use Clearances**
 - Archaeology
 - NEPA
 - Enforcement & Compliance
- **Range Management**



SRPMIC NEIEN



Environmental Protection & Natural Resources (EPNR)...

preserves and protects natural resources and archaeological heritage through enforcement and public education.

Environmental Protection & Natural Resources





Grants



- Programmatic

- GAP
- WQP
- AQP
- Pesticides

- Special

- Brownfields
- Hazardous Waste
- Nonpoint Source
- Invasive Species Removal
- **NEIEN**



NEIEN Grant Background

◇ Application

- Air Quality System (AQS), Emission Inventory System (EIS), and Facility Registration System (FRS) FY08-FY09
- Water Quality Exchange (WQX) FY09-FY10
- Climate Change/Greenhouse Gas (GHG) FY11-FY12

◇ Roles

- EPNR
- SRPMIC Information Technology (IT) Department



Initial Implementation

- ❖ **SRPMIC NEIEN Node**
- ❖ **Initial Data Exchanges**
 - ❖ **Facility Identification**
 - ❖ **Emissions Inventory System**
 - ❖ **Air Quality System**
- ❖ **8 team members, 6 months**
- ❖ **Implemented September 2009**





Technology Stack

SRPMIC's NEIEN implementation is a web-based application built on the Java Enterprise Edition technology stack. A Microsoft SQL Server 2005 database is employed on the backend.

- Java Development Kit
- Sun Java System Application Server
- Sun OpenSSO
- Eclipse IDE
- Microsoft SQL Server
- Microsoft SQL Server Reporting Services
- Hibernate
- Apache Ant
- Apache Axis
- Apache Commons
- Apache Xerces
- Java Mail



SRPMIC NEIEN



Air Quality Website

www. http://www.srpmic-nsn.gov/government/epnr/aqhome.asp

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Salt River Pima-Maricopa Indian Community: Community Information - Windows Internet Explorer

http://www.srpmic-nsn.gov/government/epnr/aqhome.asp

File Edit View Favorites Tools Help

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EPNR

- Air Quality
- Water Quality
- Land Use Compliance
- Environmental Programs & Policy Development
- Range Management
- Administration
- Contact

AQ Home Live Cam Map Forecast

Air Quality Program

Who We Are
The Air Quality Program is charged with assessing the Community's airshed and developing a program to address air quality issues. Since 1997, the division has worked to develop a comprehensive air quality program.

What We Do
Ambient air quality is monitored to ensure compliance with the National Ambient Air Quality Standards for PM10, PM2.5, and ozone. The program also develops codes and ordinances to establish jurisdictional authority for sources of air pollution within the exterior boundaries of the Community. Additionally, the program participates in regional and national air quality related initiatives and educates the Community about the effects and sources of air pollution.



Hotline Phone
480-362-7500
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Air Quality Webcam

<http://www.srpmic-nsn.gov/government/epnr/livcam.asp>

Environmental Protection & Natural Resources

Salt River Pima-Maricopa Indian Community: Community Information - Windows Internet Explorer

<http://www.srpmic-nsn.gov/government/epnr/livcam.asp>

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AQ Home | Live Cam | Map | Forecast


Air Quality Program Images

Images below are taken from the Air Quality Program's Office looking toward Red Mountain and Camelback Mountain. The images are taken hourly and automatically transferred to this web site and archived for future use in assessing the changing visibility conditions.

Oct 13 | Oct 14 | Oct 15 | Oct 16 | Oct 17 | Oct 18 | **Oct 19**



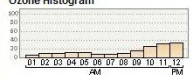
View of Red Mountain from Two Waters



View of Camelback Mountain from Lehi

AQ Good

Ozone Histogram



Temperature: 88.3°F
 Humidity: 23.1%
 Wind Speed: 2.8
 Wind Direction: 244.0
 Barometric Pressure: 28.54
 Precipitation: 0.0
 Updated at: 12:00 PM, 10/19/2009

◀ Hour: 01PM ▶

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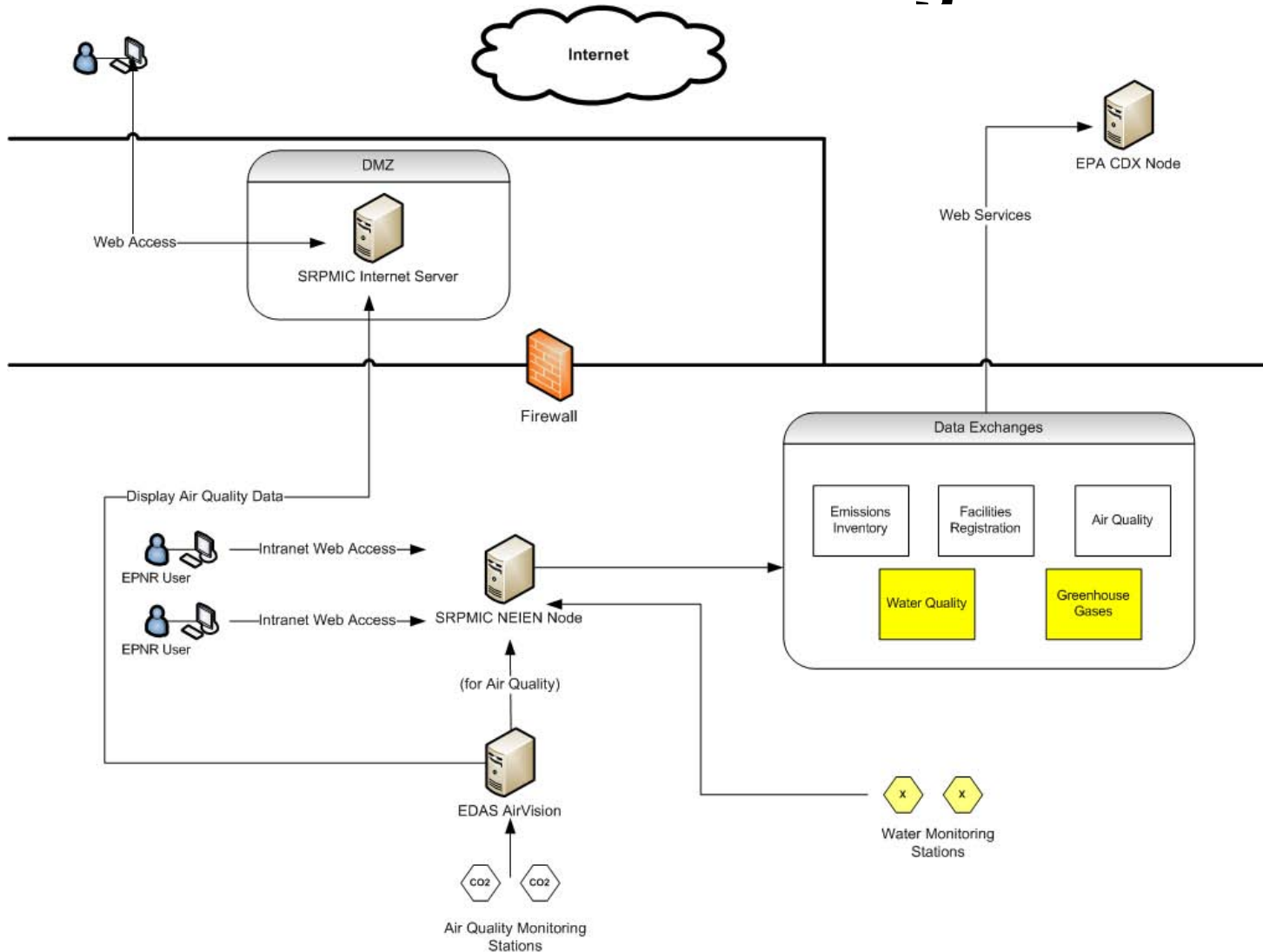
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SRPMIC NEIEN Data Exchange



Planned Data Exchanges





SRPMIC NEIEN Data Exchange



Sample of Water Quality Wireframes (In Development)

NEIEN

Admin Data Mgmt. Reports Transactions Map LOGOUT

Entry Form Name

← Data Entry Page

Project Name

Site	Parameter	Result Value*	Result Value Unit*	Detection Limit	Detection Limit Unit(*)	Flag
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
select here	select here	edit here	select here	edit here	select here	<input checked="" type="checkbox"/>
select here	select here	edit here	select here	edit here	select here	<input checked="" type="checkbox"/>
select here	select here	edit here	select here	edit here	select here	<input type="checkbox"/>

More Calc. Add More Calc. Del. More Calc. Del.

NEIEN Admin Data Mgmt. Reports Transactions Map LOGOUT

Search Data Page

- Mark records "Reviewed"
- Submit records to EPA
- Flag results



Search Data

Location

Project ID

Site

Parameters

From (Activity) Start Date

To (Activity) Start Date

Reviewed: All Yes No Flagged: All Yes No Submitted: All Yes No

Clear Search

<input type="checkbox"/>	Location	Site	Parameters	Results	Detection Limit	Date	Reviewed	Submitted	Flagged			
<input checked="" type="checkbox"/>	Cottonwood	OUTLET	Temperature			02-11-2009	Y	N	N			
<input type="checkbox"/>	Cottonwood	OUTLET	pH			04-11-2009	N	N	N			
<input checked="" type="checkbox"/>	Cottonwood	OUTLET	Dissolved Oxygen			05-11-2009	Y	N	N			
<input type="checkbox"/>	Cottonwood	OUTLET	Specific Conductance			09-11-2009	N	N	N			

Selected Items:

Results per page: 50 ... 1 2 3 4 5 ...



SRPMIC NEIEN Data Exchange



Sample of Water Quality Wireframes (In Development)

NEIEN

Admin Data Mgmt. Reports Transactions Map LOGOUT

← Submit Status Page

EPA Get Status

CDX production and test Servers

Pre-filled transaction ID (based on above drop-down selection)

Get Status

EPA Submit History →

WQX Submit History

Search

No.	Submitted by	File name	Date
1	John Smith	File 1	02-23-2010
2	John Smith	File 2	03-10-2010
3	John Smith	File 3	05-30-2010
4	John Smith	File 4	12-02-2010

Results per page: 50

« « ... 1 2 3 4 5 ... » »



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Questions?

Environmental Protection & Natural Resources

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Steve Rohde, IT, 480-362-7509

www.SaltRiverEnvironmental.org