



Air Quality Program



Environmental Protection & Natural Resources

Salt River Pima-Maricopa Indian Community

Environmental Protection and Natural Resources





Air Quality Program



History

- ◇ Established in 1998
 - ◇ One of the more mature programs in the EPNR Department
- ◇ Develop regulations for local sources/activities
- ◇ Assert tribal sovereignty and jurisdiction (self governance)



Air Quality Program

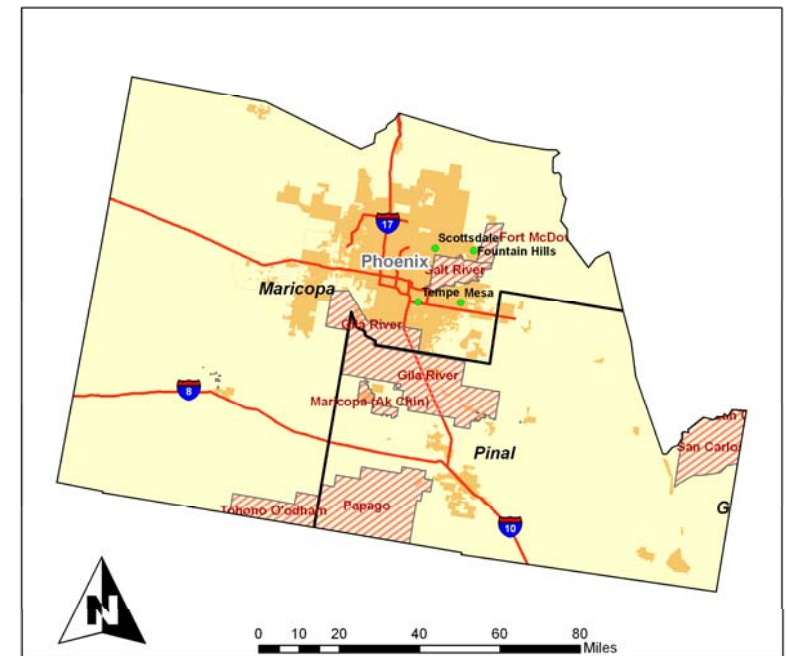
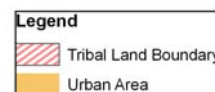


Why is it important?

- ◇ Air has no artificial boundary
- ◇ Community population subject to air flow through the Community
- ◇ Sensitive population of children, elderly and those with respiratory concerns



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Monitoring

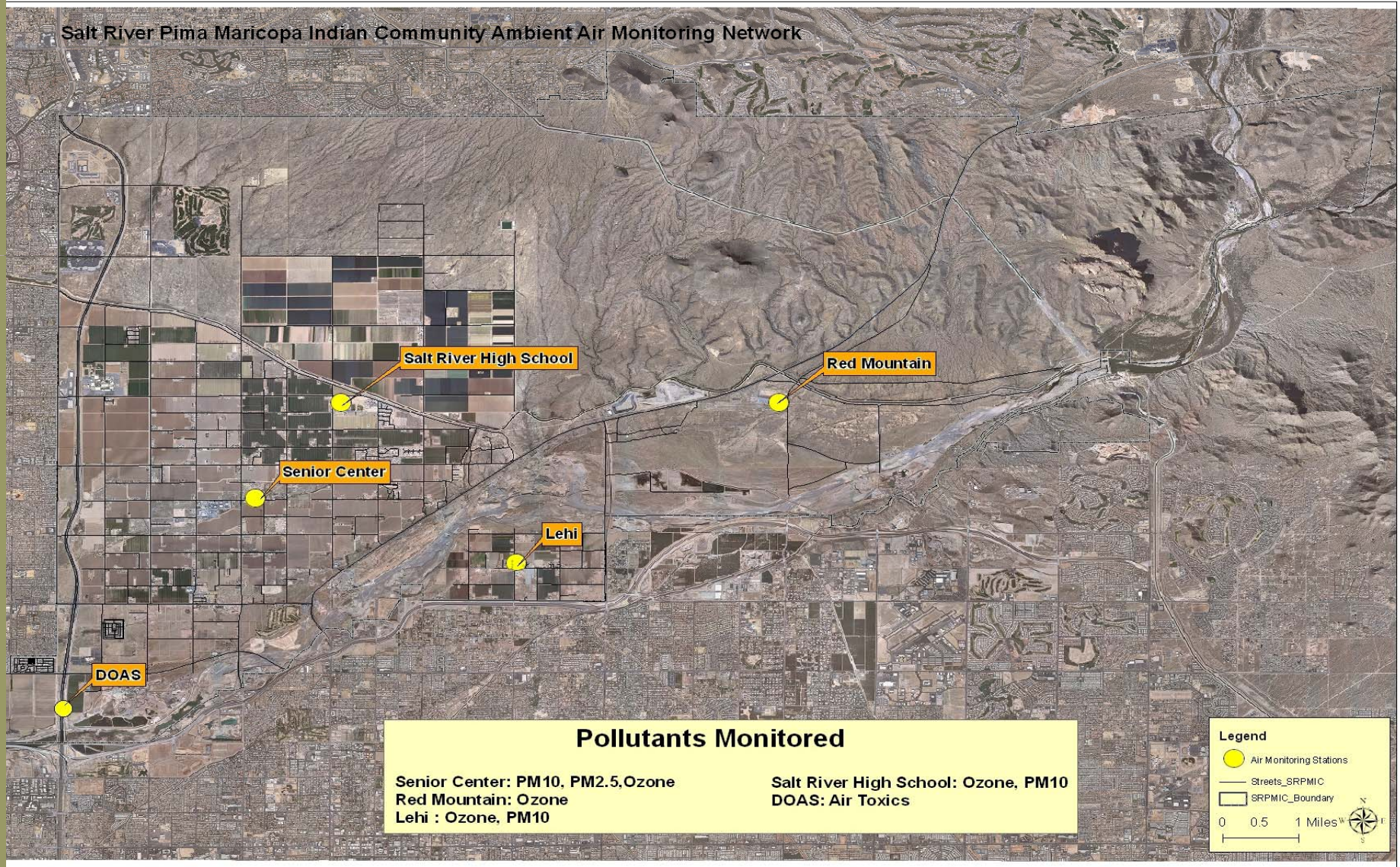
Develop baseline data, emission inventory, track changes, and levels of local air pollution





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Monitoring Sites





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What's in a monitoring site?

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PM10

PM2.5

Met Data
Collection

Continuous
PM10
Monitor
(TEOM)





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Sources of Air Pollution

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Mining & Material Processing



Agricultural Land Use



Open Burning



Track Out



Agricultural Land Use





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Particulate Matter ~"Dust"

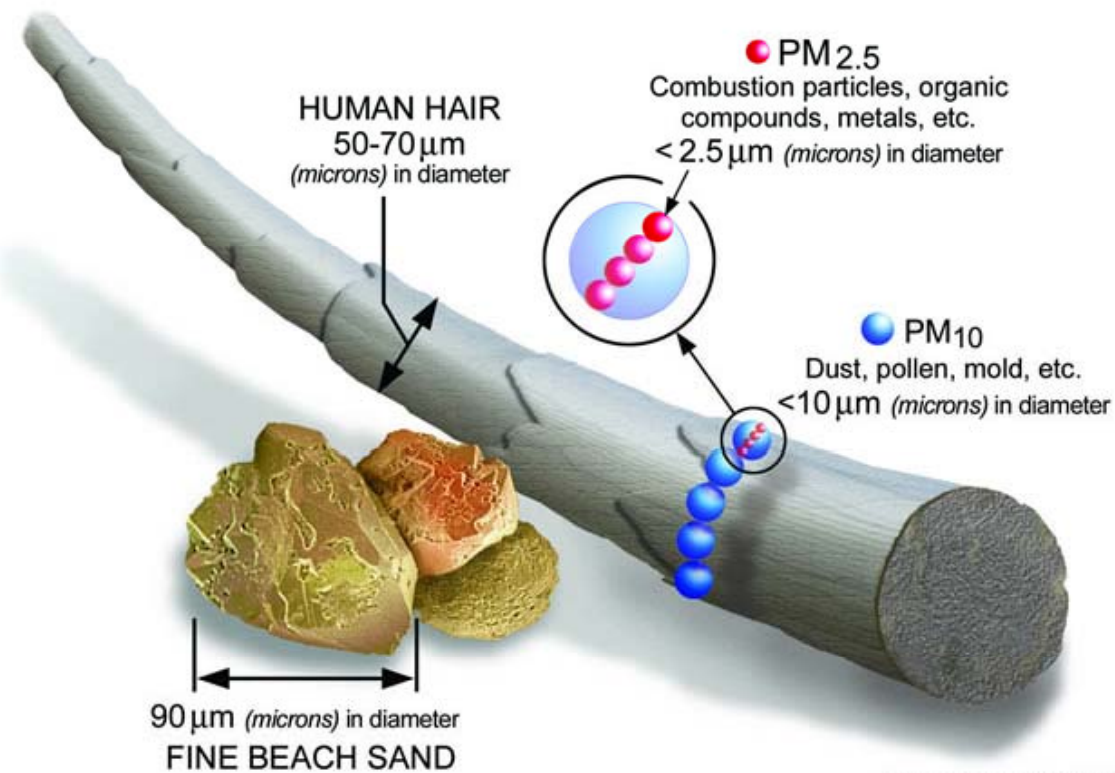


Image courtesy of the U.S. EPA



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Air Quality Website

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

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

Salt River Pima-Maricopa Indian Community: Communi...

 SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

Home • Community • Government • History & Culture • Economic Development • Enterprises • Employment

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, PM_{2.5}, 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/livecam.asp>

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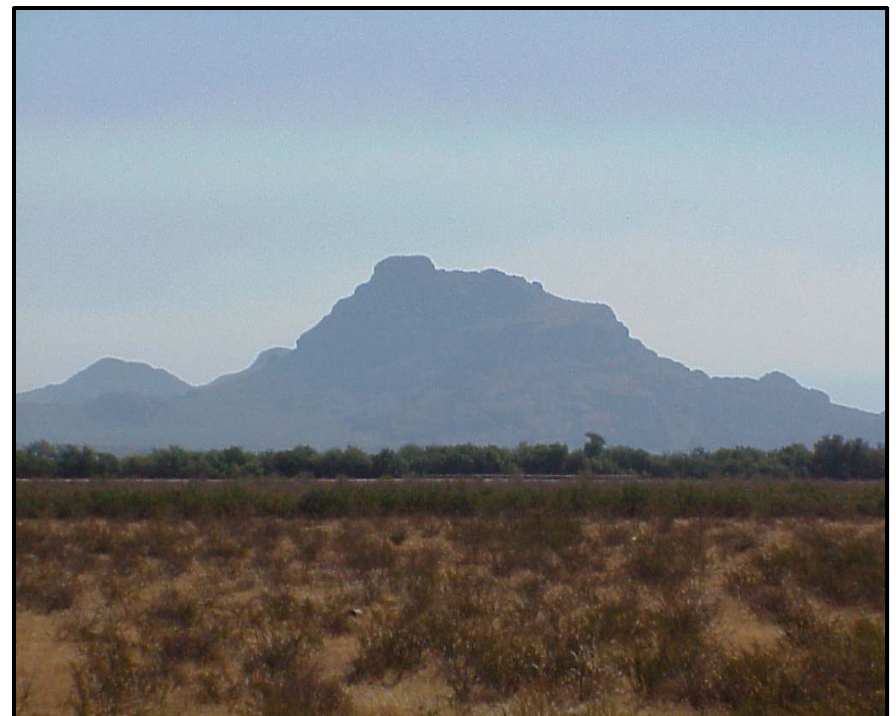


Visibility Impacts

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Red Mountain – Clear Day



Red Mountain – Dusty Day



Air Quality Program



Air Quality Index (AQI) Flagpoles



Good Air Quality



Moderate Air Quality



Signs in front of
flagpoles



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SRPMIC Emission Inventory (TEISS)



Air Quality Program



PM10

Total Emissions for Point Sources by Facility

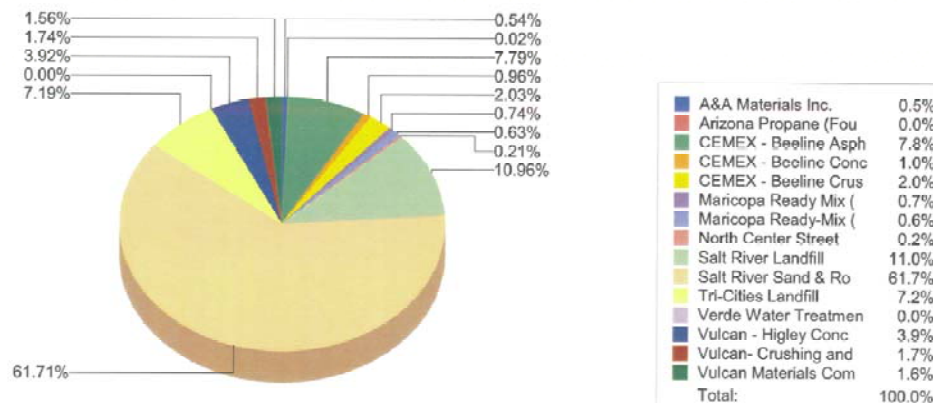
Start Date: 1/1/2008 12:00:00AM
End Date: 12/31/2008 11:59:00PM

Emission Type: ENTIRE PERIOD
Emission Unit: TONS

Arizona

Reservation

Pollutant: PM10-FIL - PRIMARY PM10, FILTERABLE PORTION ONLY



Total (tons): 198.84



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PM_{2.5}

Total Emissions for Point Sources by Facility

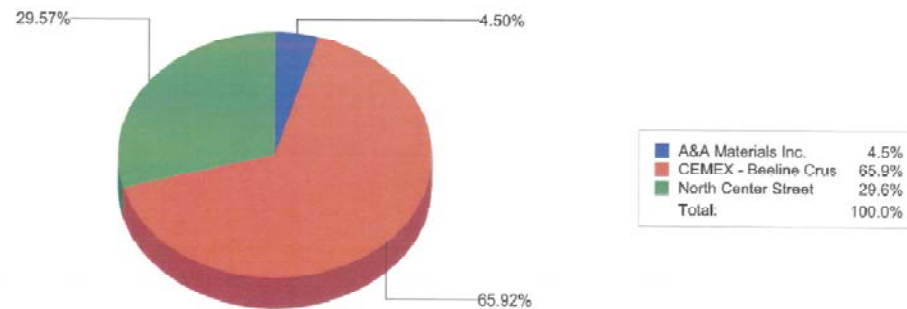
Start Date: 1/1/2008 12:00:00AM
End Date: 12/31/2008 12:00:00AM

Emission Type: ENTIRE PERIOD
Emission Unit: TONS

Arizona

Reservation

Pollutant: PM25-FIL - PRIMARY PM2.5, FILTERABLE PORTION ONLY



Total (tons): 1.35



Air Quality Program



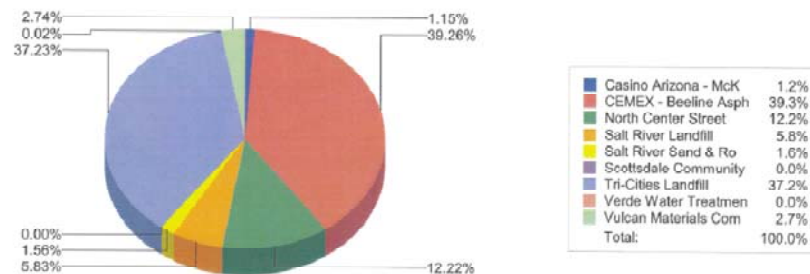
Carbon Monoxide

Total Emissions for Point Sources by Facility

Start Date: 1/1/2008 12:00:00AM
End Date: 12/31/2008 11:59:00PM
Emission Type: ENTIRE PERIOD
Emission Unit: TONS

Arizona

Reservation: Pollutant: CO - CARBON MONOXIDE



Total [tons]: 173.34



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Sulfur Oxides

Total Emissions for Point Sources by Facility

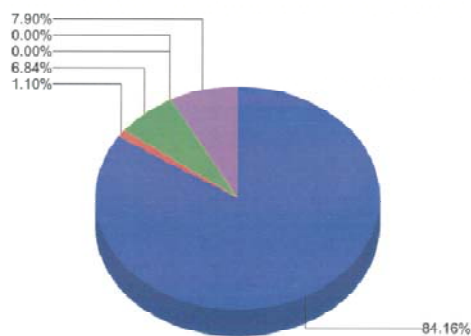
Start Date: 1/1/2008 12:00:00AM
End Date: 12/31/2008 11:59:00PM

Emission Type: ENTIRE PERIOD
Emission Unit: TONS

Arizona

Reservation

Pollutant: SOX - SULFUR OXIDES



GEMEX - Beeline Asph	84.2%
Salt River Landfill	1.1%
Salt River Sand & Ro	6.8%
Scottsdale Community	0.0%
Verde Water Treatment	0.0%
Vulcan Materials Com	7.9%
Total:	100.0%

Total (tons): 36.53

TESS View: by Lakota Environmental Software

7/7/2010

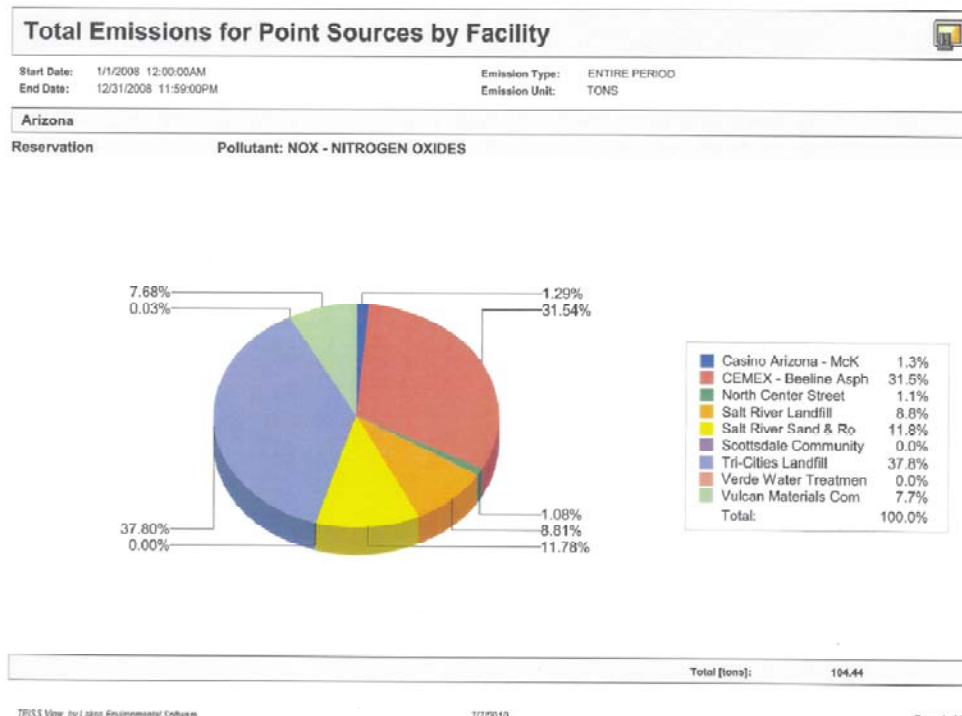
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Nitrogen Oxides

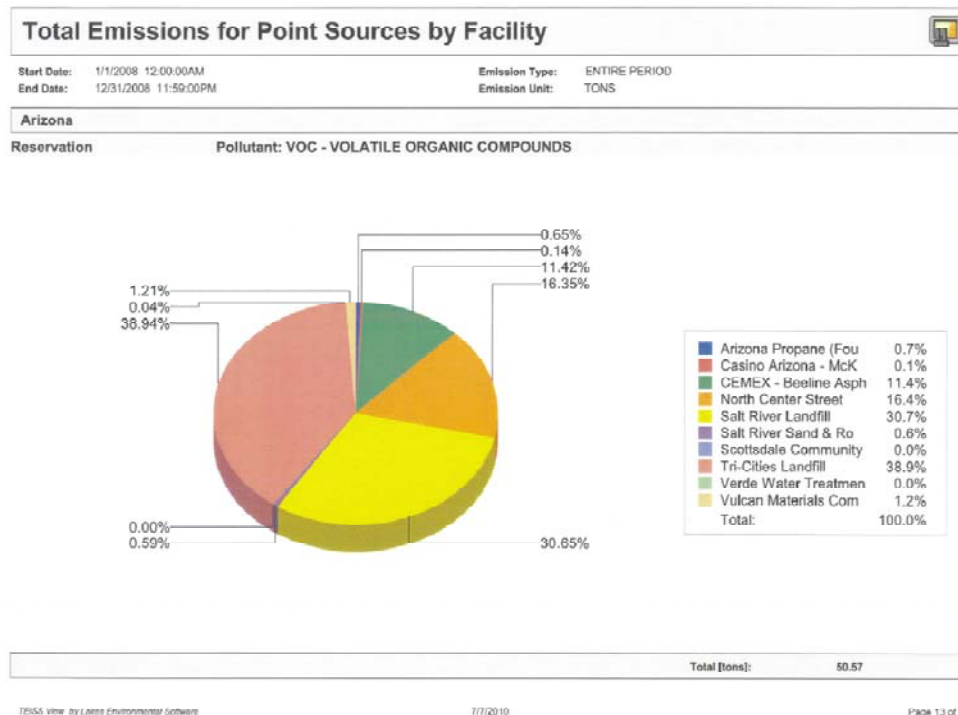




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Volatile Organic Compounds





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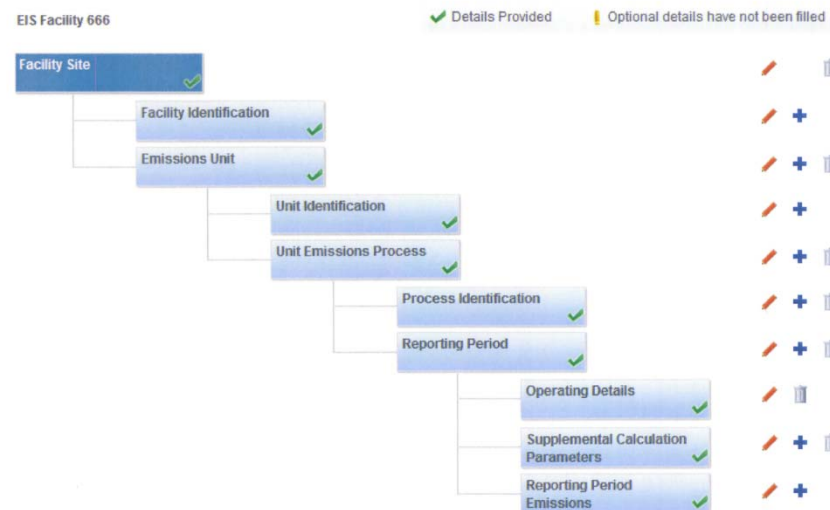
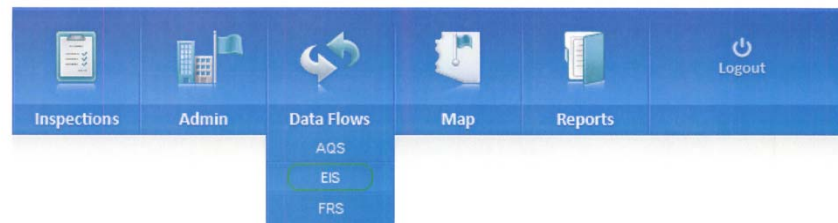
SRPMIC Emission Inventory (National Data Exchange) (EIS)



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Emission Inventory Software





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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.

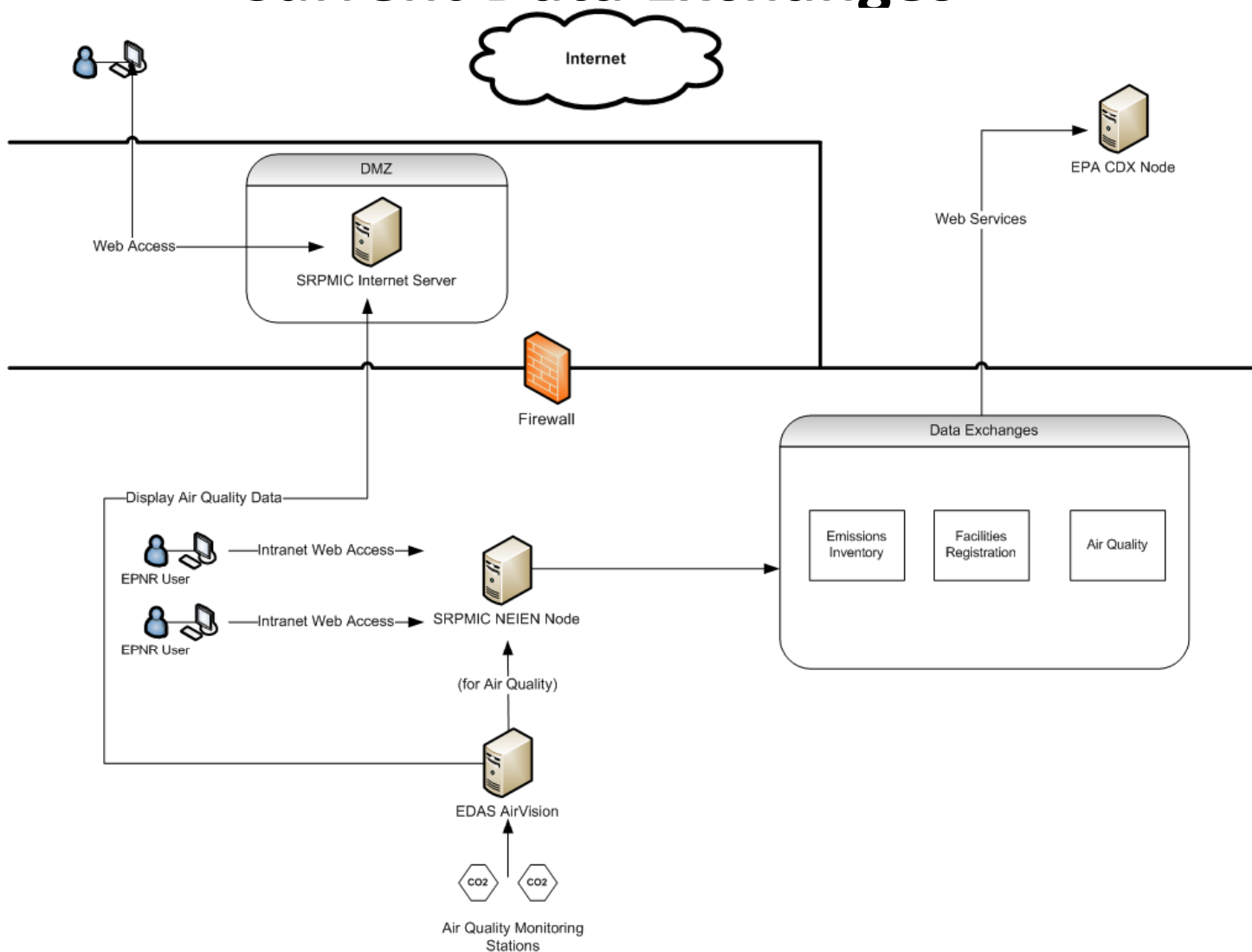
- Java Development Kit
- Sun Java System Application Server
- Sun OpenSSO
- Eclipse IDE
- Microsoft SQL Server
- Microsoft SQL Server Reporting Services
- Hibernate
- Apache Ant
- Apache Axis
- Apache Commons
- Apache Xerces
- Java Mail



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Current Data Exchanges

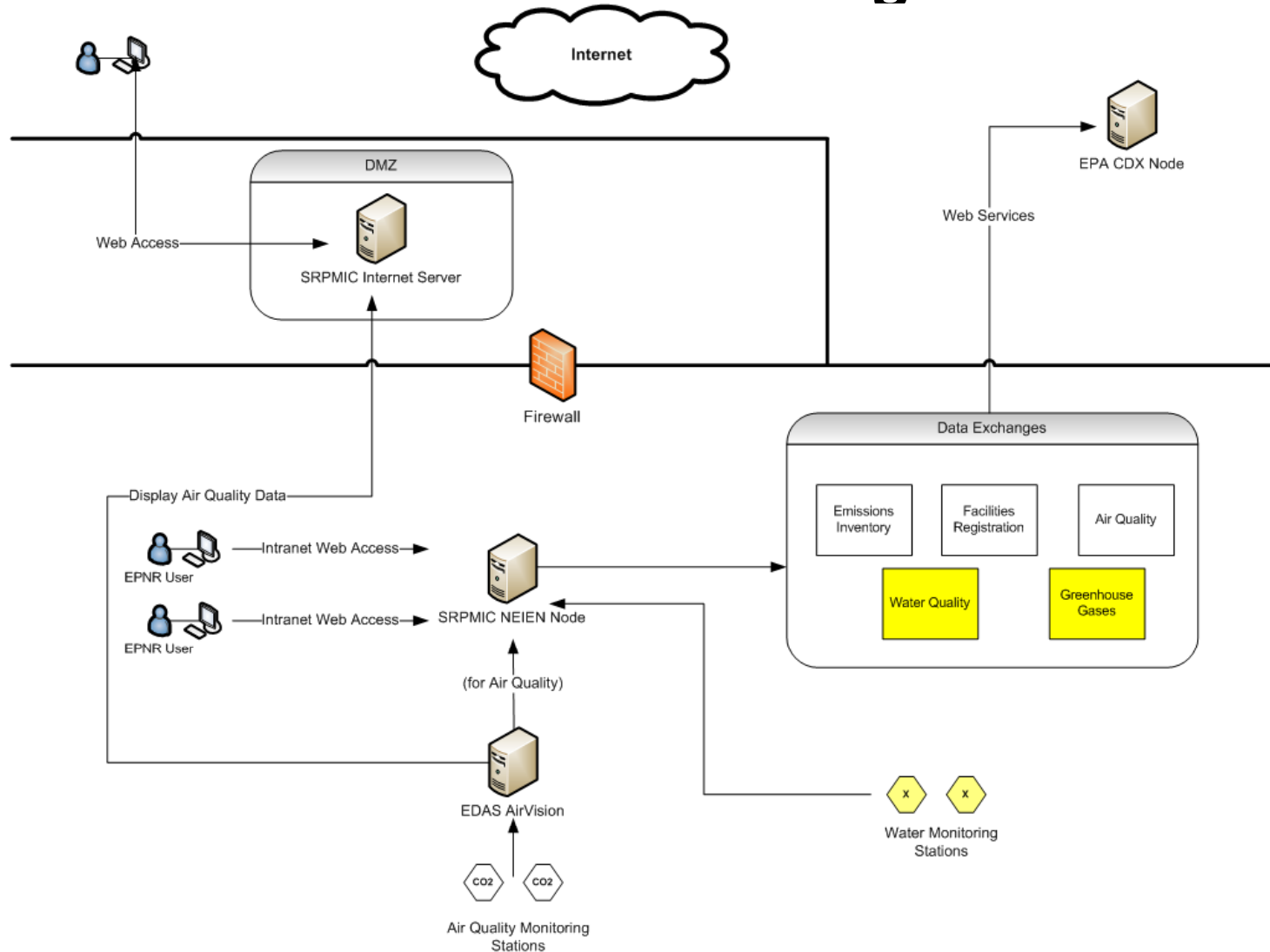




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Planned Data Exchanges





Regulatory Activities

- ◇ Treatment as a State (TAS) or Eligibility Determination status.
 - ◇ SRPMIC received TAS status on October 16, 2008.
 - ◇ Developing components of a Tribal Implementation Plan (TIP)
- ◇ Enhance air quality compliance and enforcement



Air Quality Program



TAS Formal Recognition Ceremony

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Staff

- ◇ Chris Horan, Environmental Engineer
- ◇ Stan Belone, Senior Environmental Specialist
- ◇ Shimmy Smith, Environmental Specialist
- ◇ Elaina Osife, Environmental Specialist

- ◇ Administration
 - ◇ Ondrea Barber, Manager



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Questions?

EPNR Hotline

480-362-7500

EPNR@srpmic-nsn.gov

www.SaltRiverEnvironmental.org

If you would like a copy of the presentation please provide your business card and we will email you a copy (to save paper!).