



Santa Fe County PFAS Investigation Data Update

Presented to

La Cienega and La Cieneguilla
Communities

September 18, 2025



Introductions



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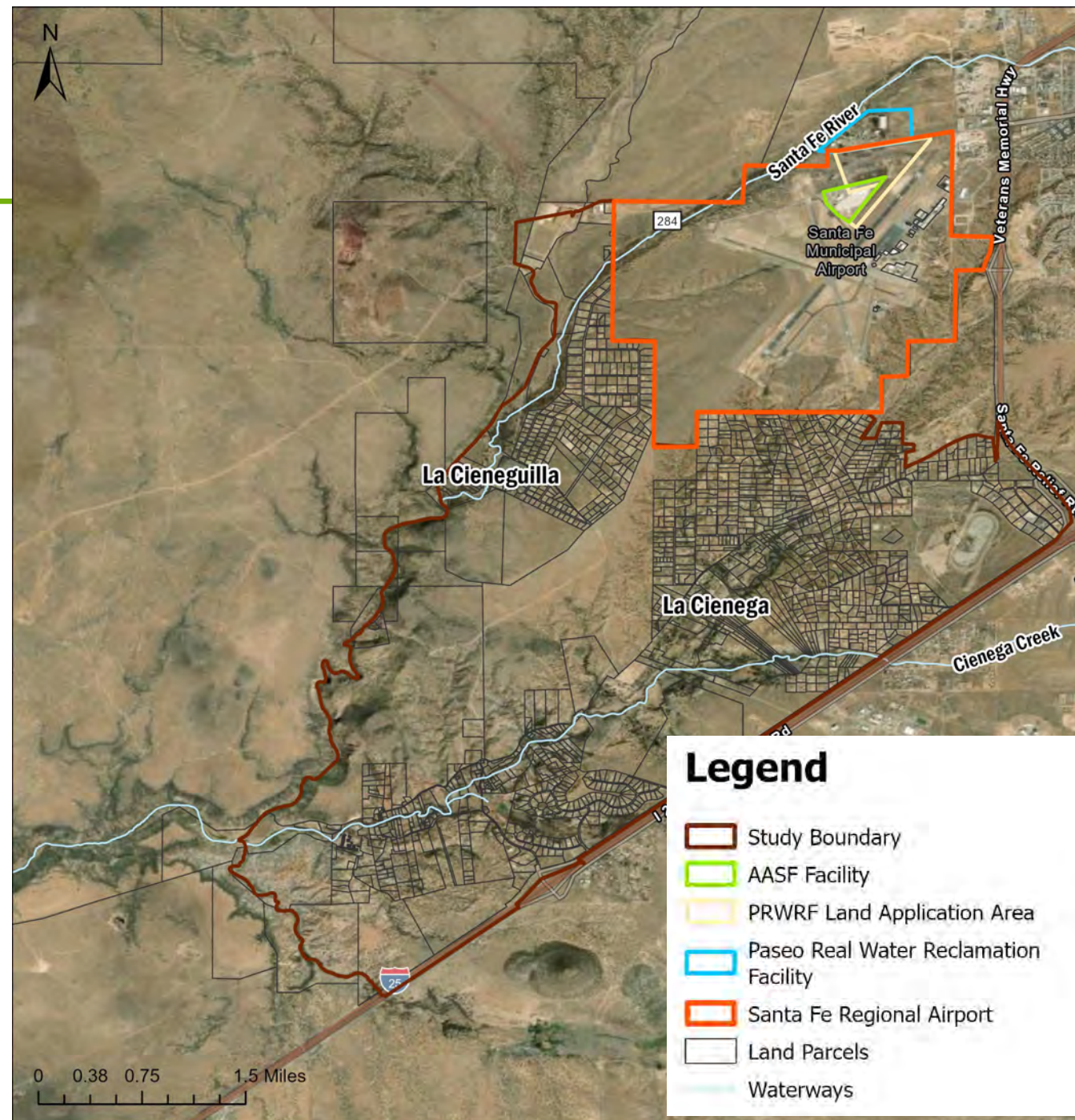


Project Objectives

Project Goal: Understand the magnitude and extent of PFAS impacts in La Cienega and La Cieneguilla and evaluate potential PFAS sources.

- Sampling Strategy
- PFAS Distribution
- Hydrogeology
- Source Analysis
- Data Gaps
- Mitigation and Remediation

Study Area

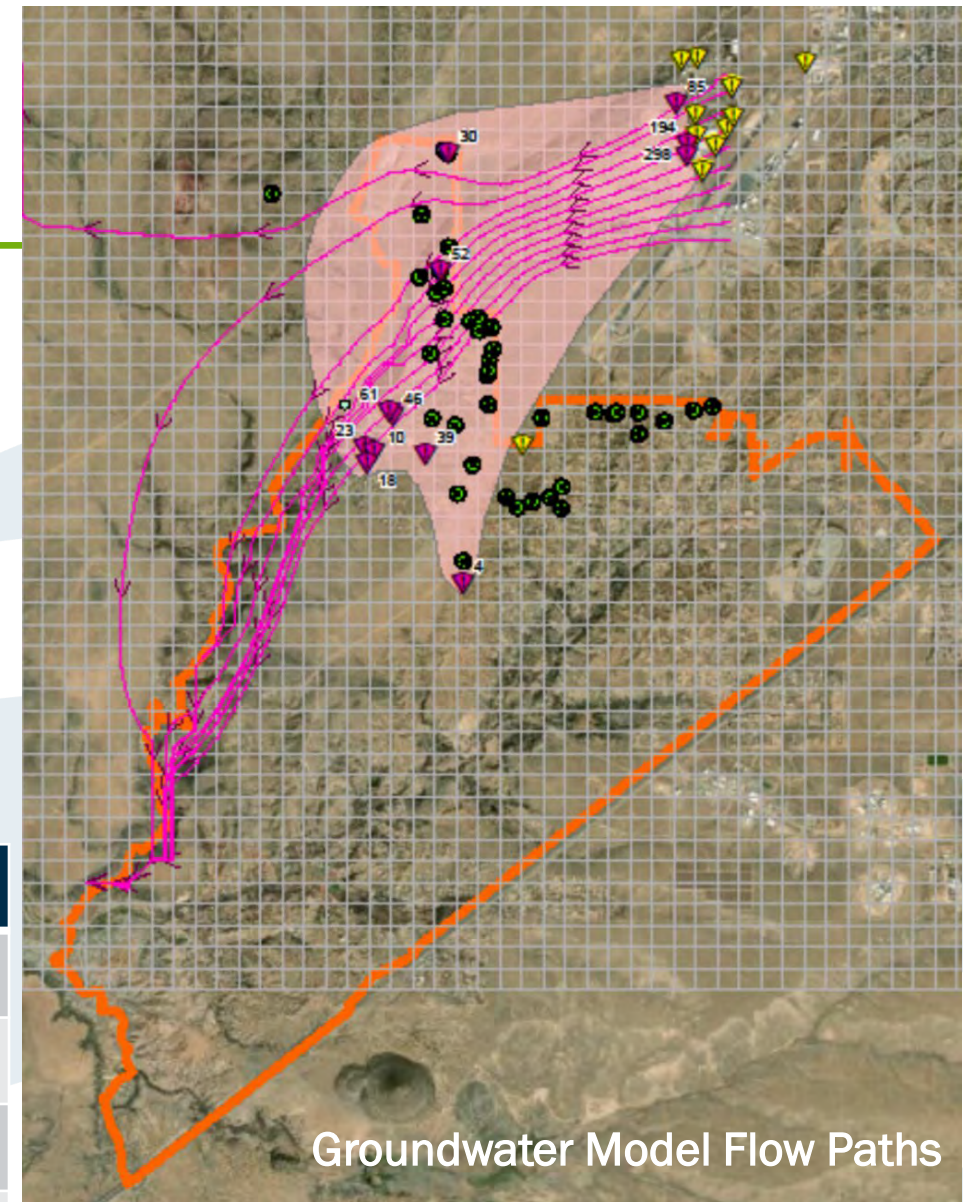


Sampling Strategy

Factors Informing Well Selection:

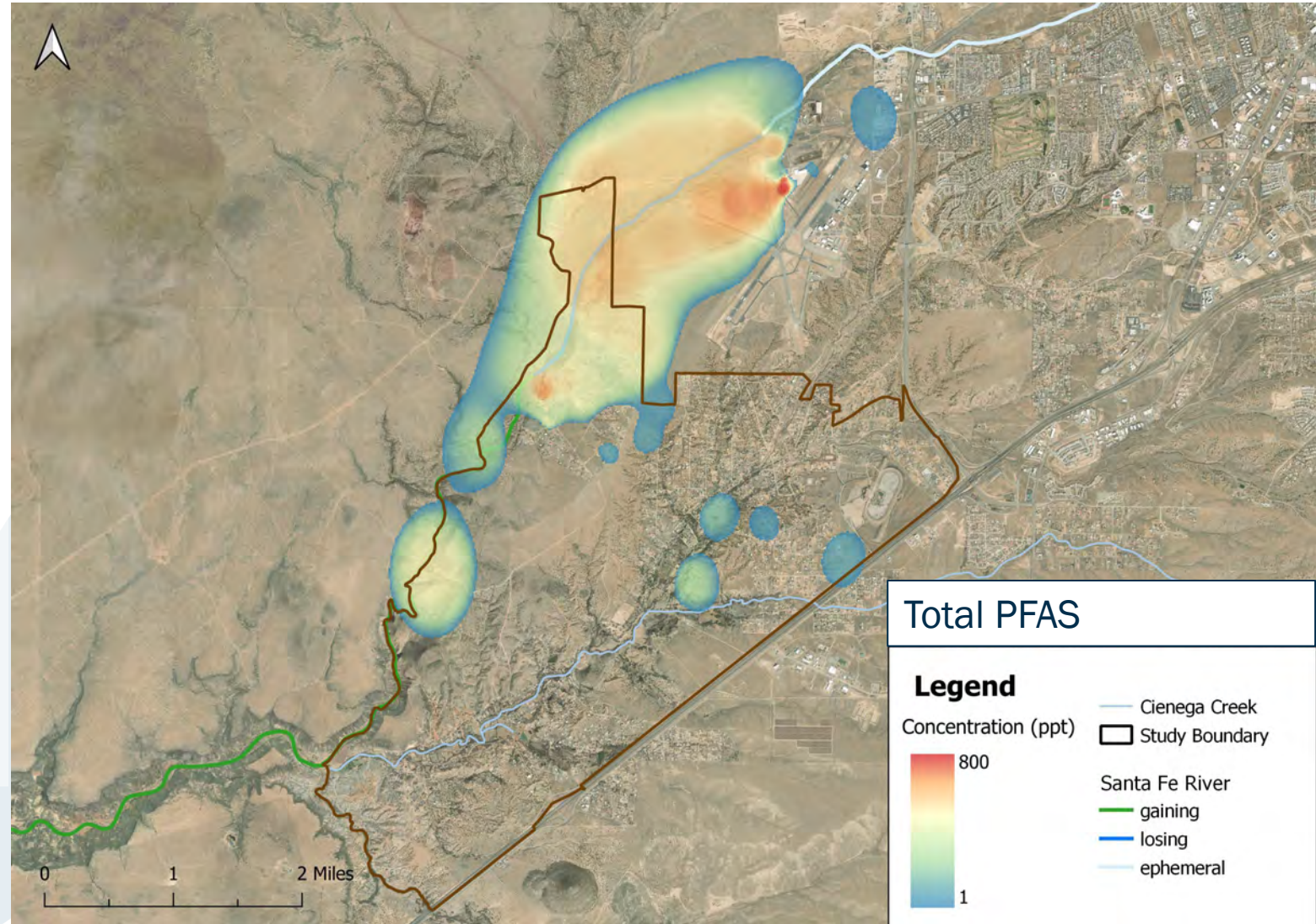
- Review of existing data
- Groundwater model results
- Aquifer characteristics and representativeness
- Site access
 - Community presentation and open house
 - Door knocking campaign
 - Mailings

Sample Type	Surface Water	Groundwater	Total
INTERA Collected	8	34	42
Other Entities (PRWRF, AASF, SFC)	--	39	39
Private Well Owners	--	9	9
Total Samples Analyzed	8	82	90



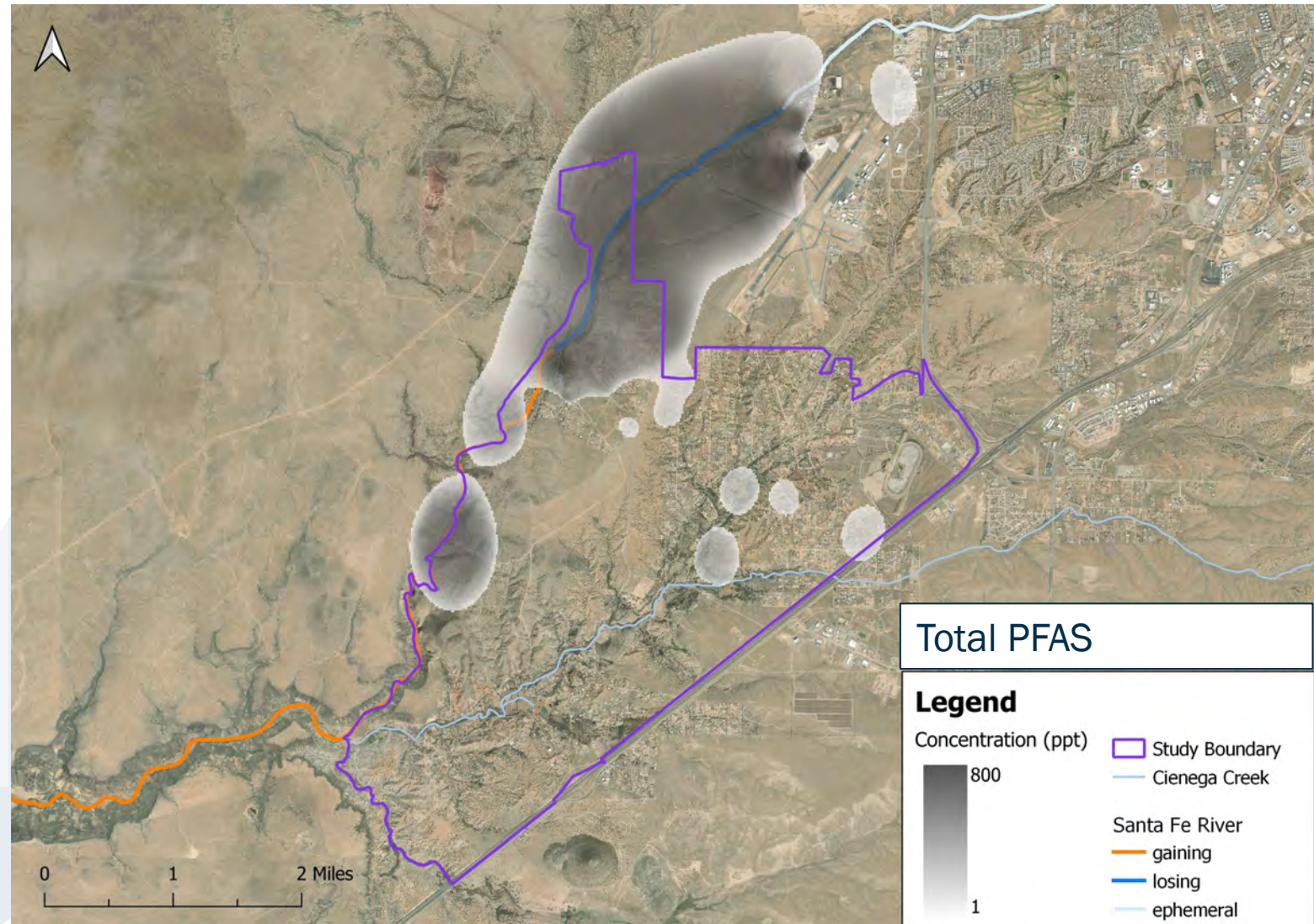
PFAS Distribution

- Areal extent of total PFAS



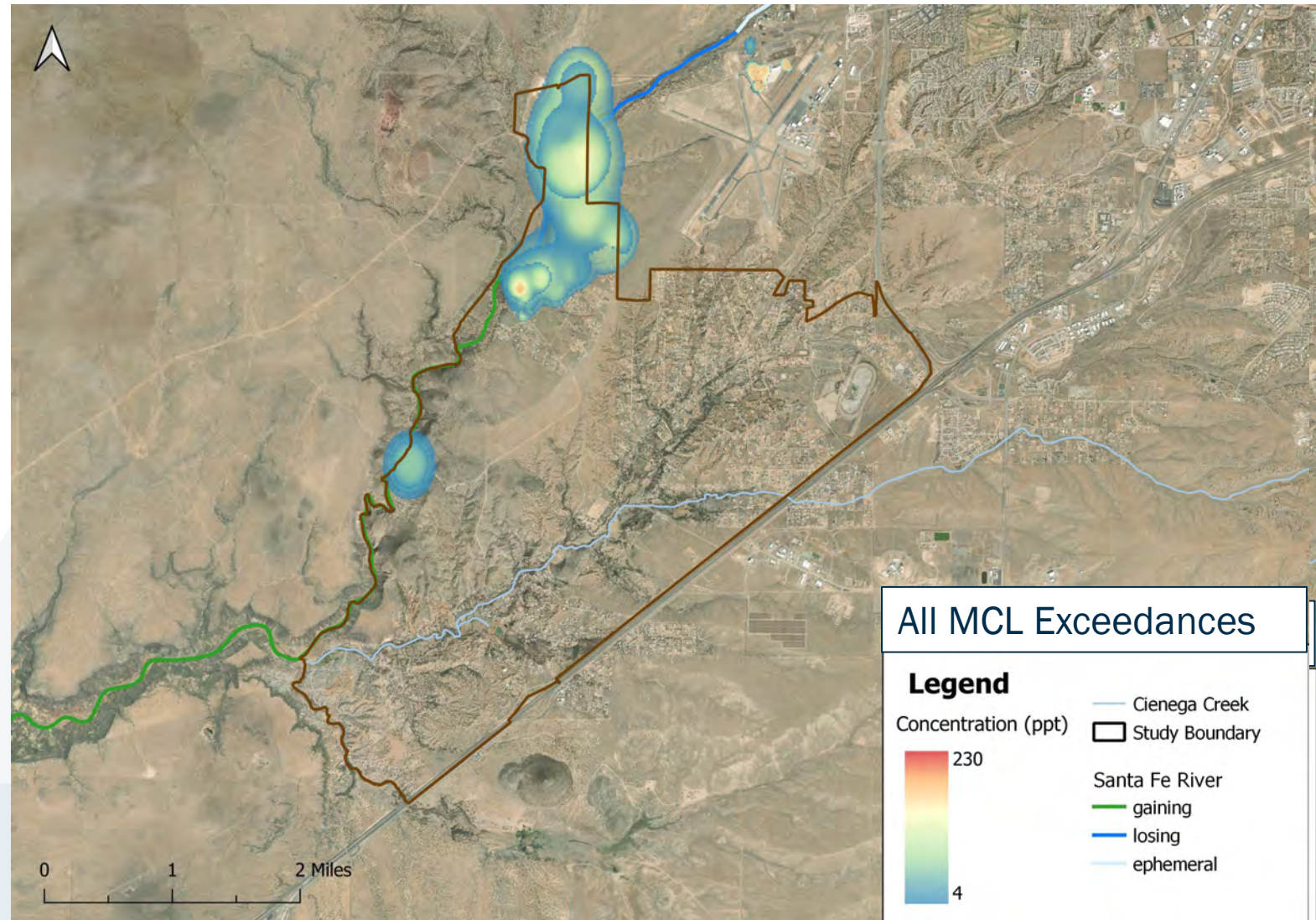
PFAS Distribution

- Areal extent of total PFAS
- Alternate shading provided to support visibility for all viewers



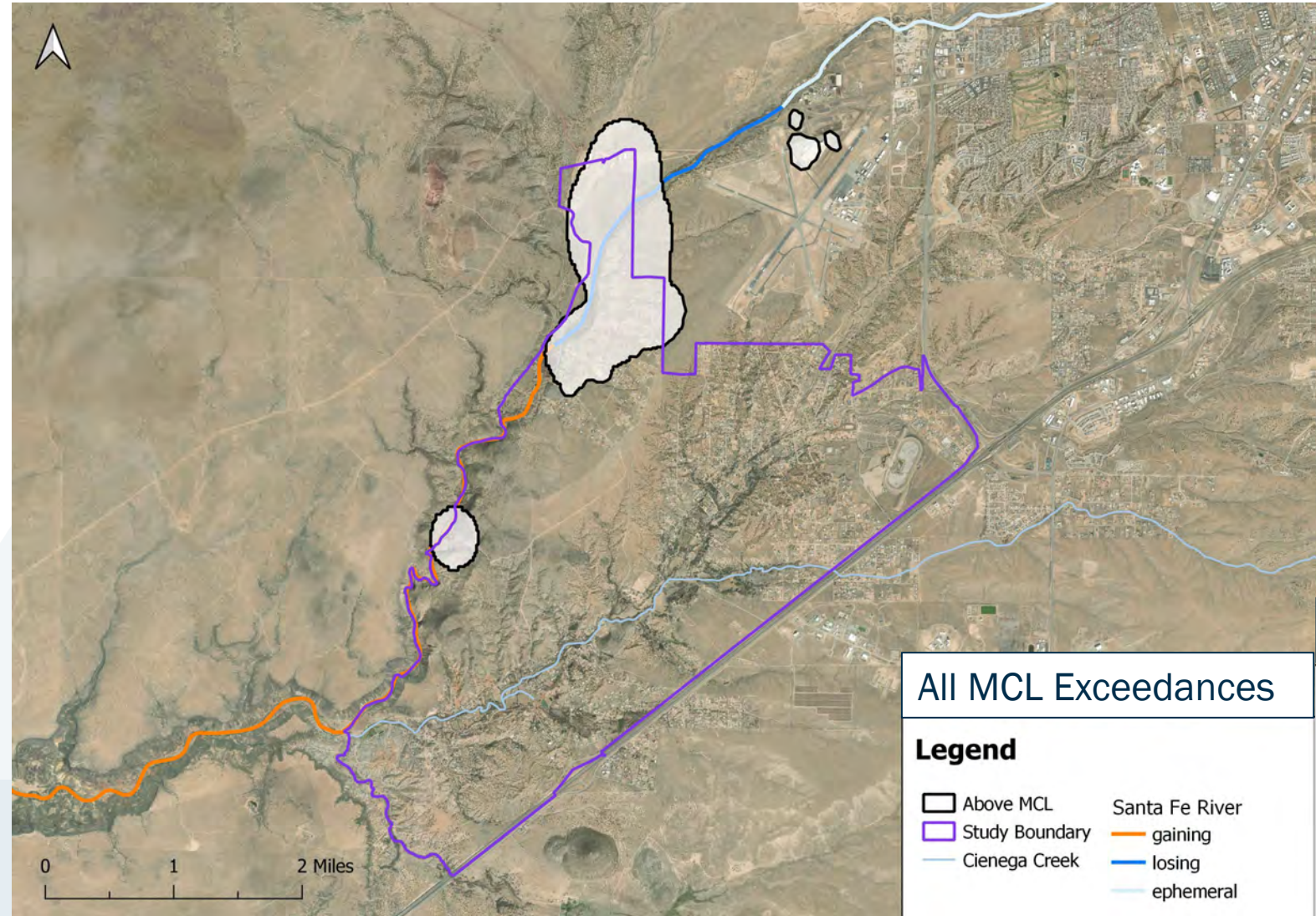
PFAS Distribution

- Maximum Contaminant Level (MCL) Exceedances
 - La Cienega
 - La Cieneguilla



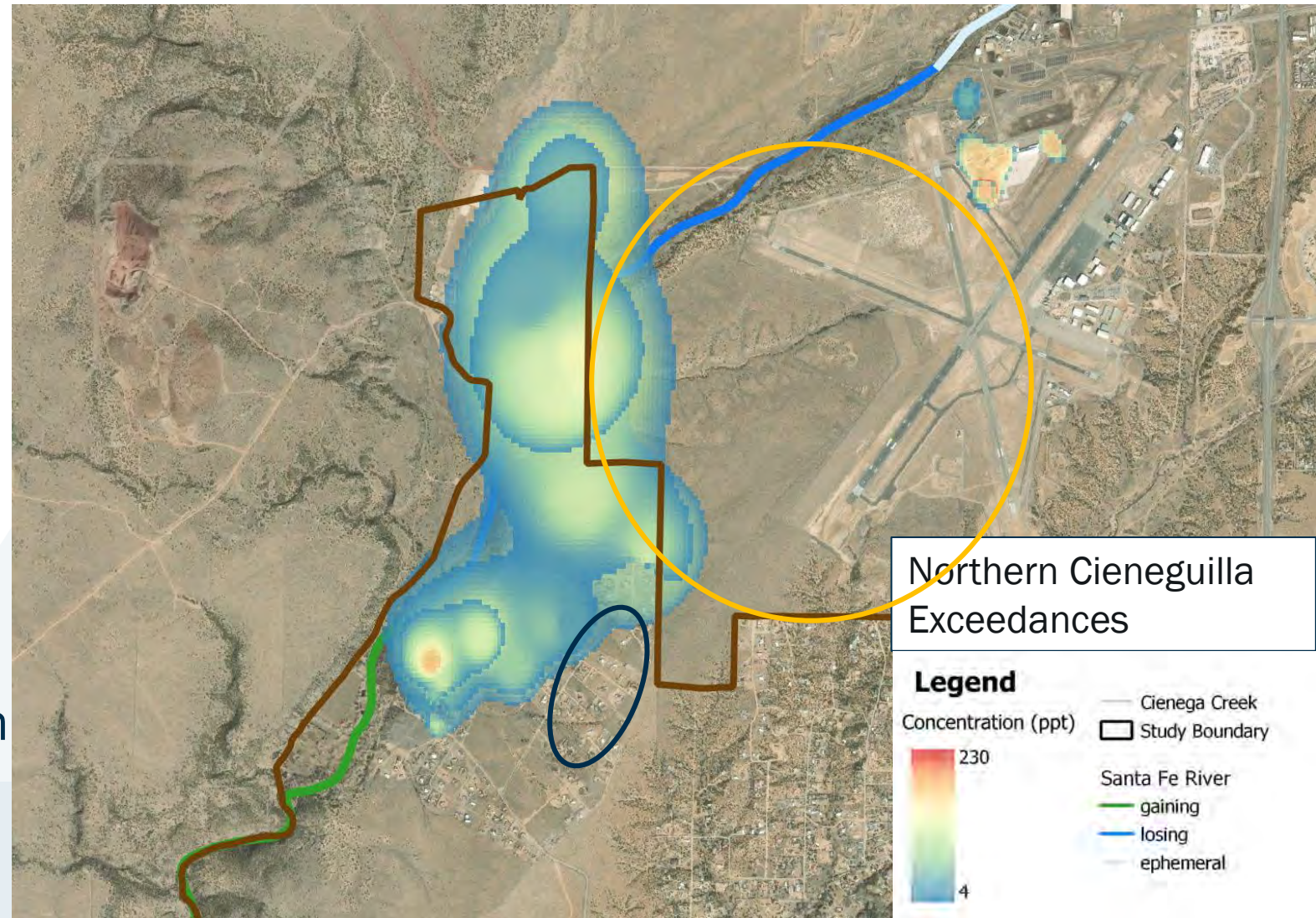
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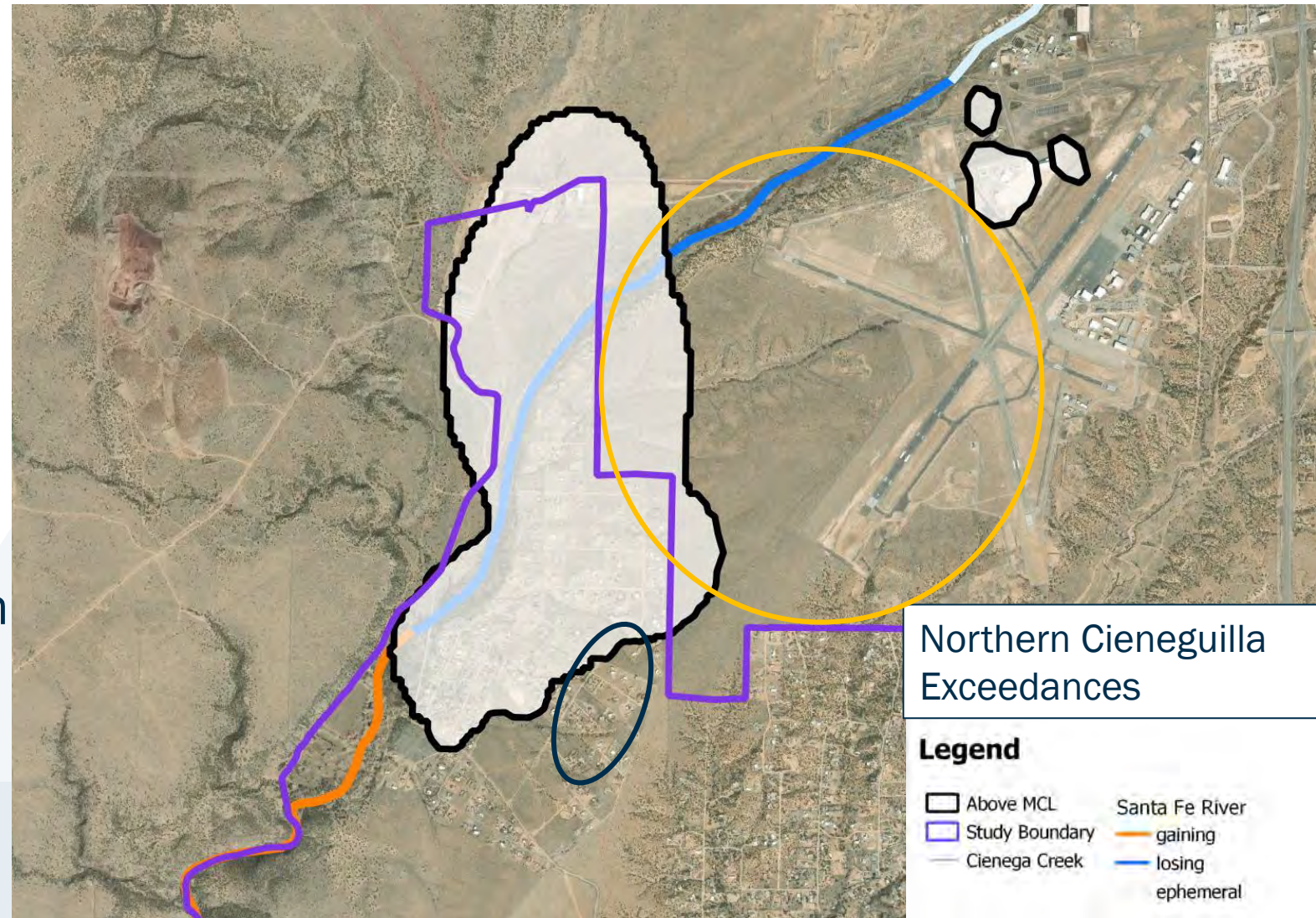
PFAS Distribution

- Blue oval indicates localized area needing PFAS analysis to inform mitigation
- Orange oval indicates area needing PFAS analysis to inform mitigation and remediation



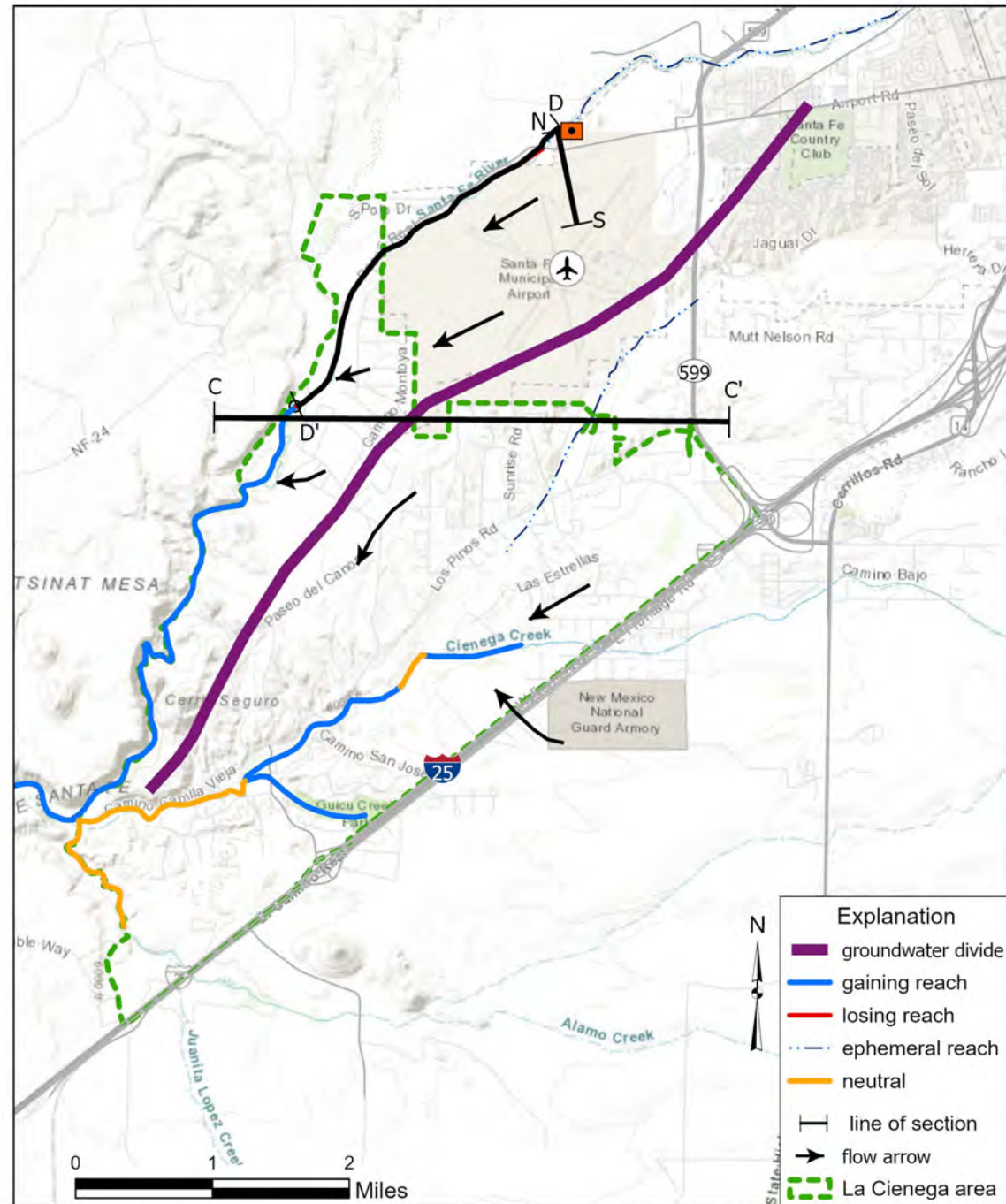
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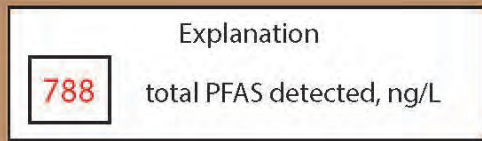


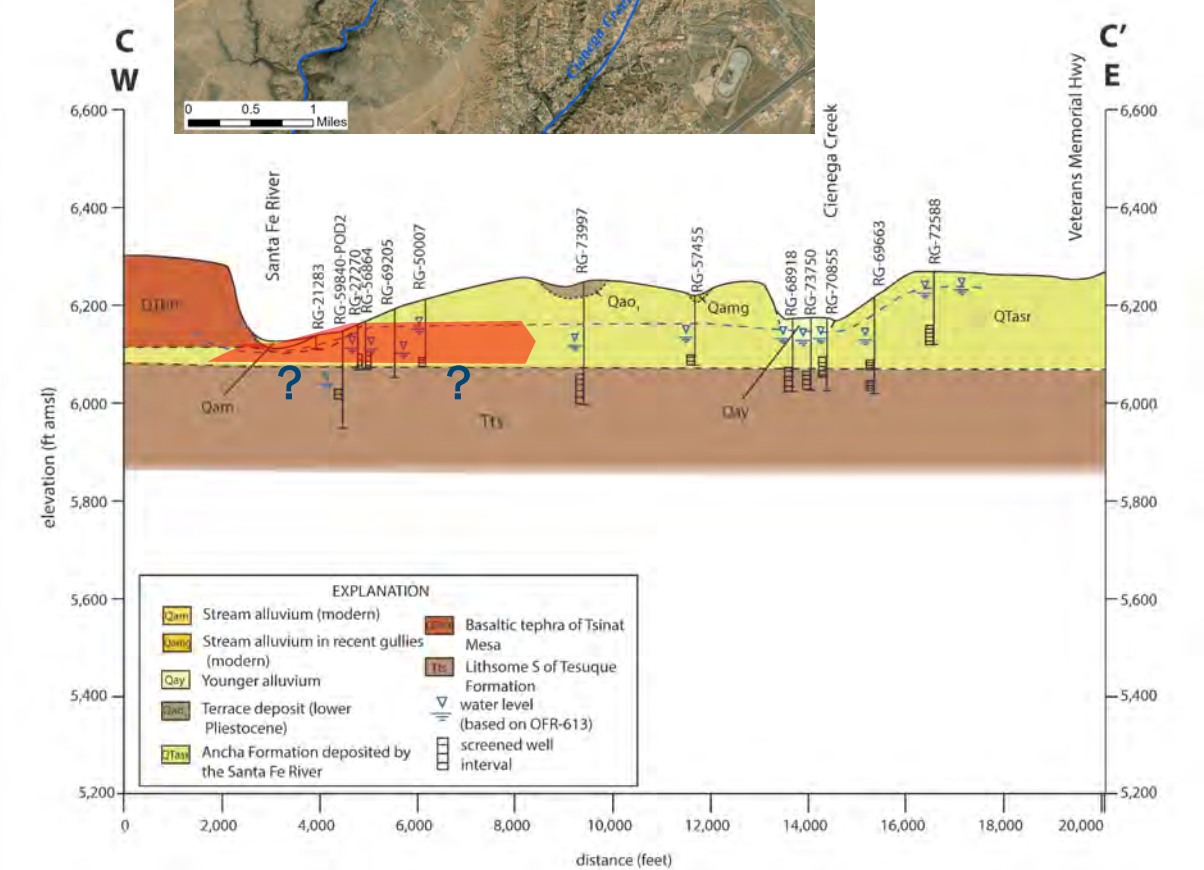
Hydrogeology

Groundwater Flow Direction, Groundwater Divide, and Preferential Paths



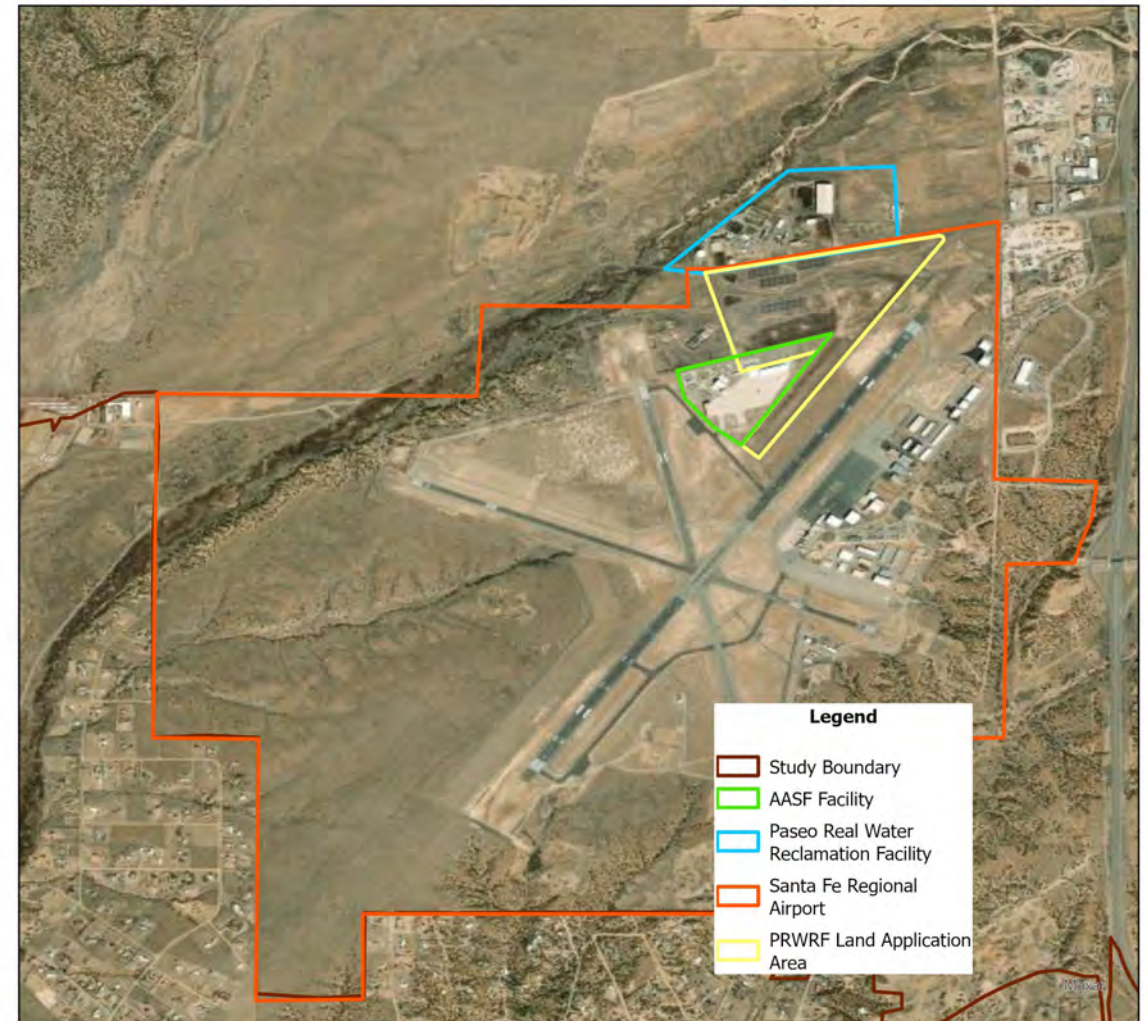
- Well Construction
- Perched Zone Geometry
- Additional data needed at AASF
- Data Represents Understanding of “Shallow” Portion of Regional Aquifer
- Impact on Mitigation





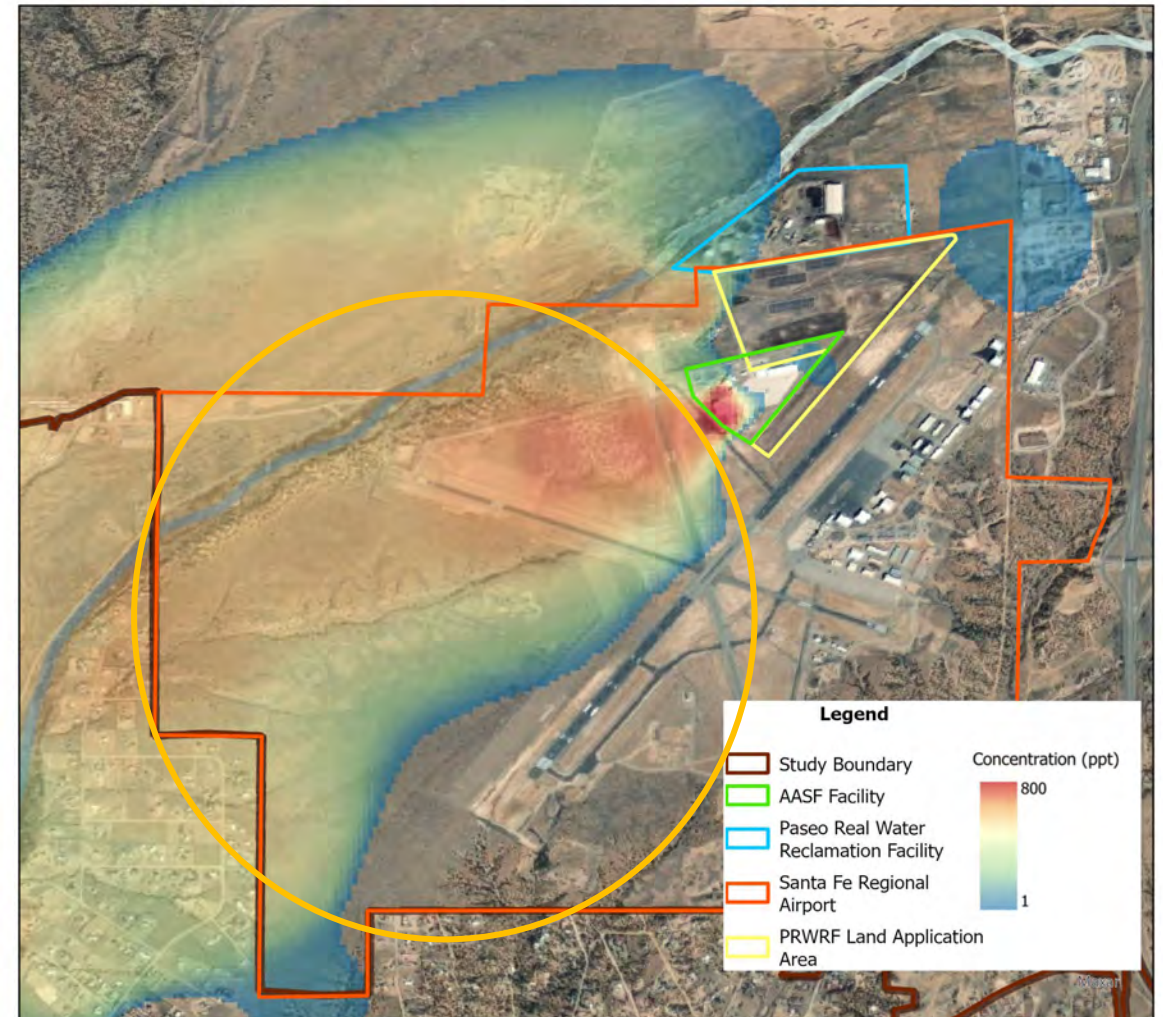
Source Analysis Methodology

- Potential PFAS Sources (soil and groundwater):
 - Reported PFAS
 - o Aqueous fire fighting foam (AFFF) at Army National Guard's Aviation Support Facility (AASF)
 - o Leachate from biosolids
 - o Wastewater effluent
 - Possible unreported PFAS
 - o Septic tanks
 - o Santa Fe Regional Airport

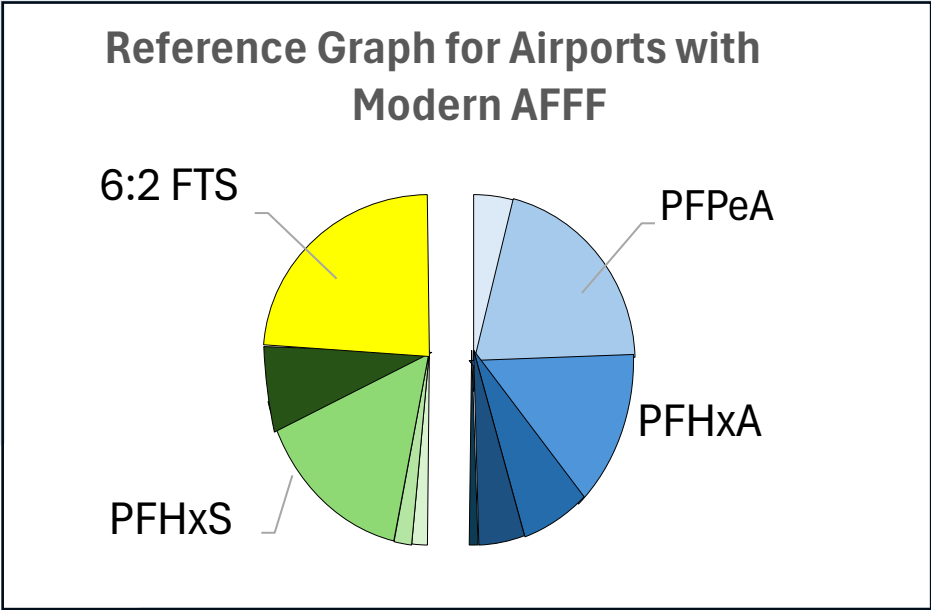
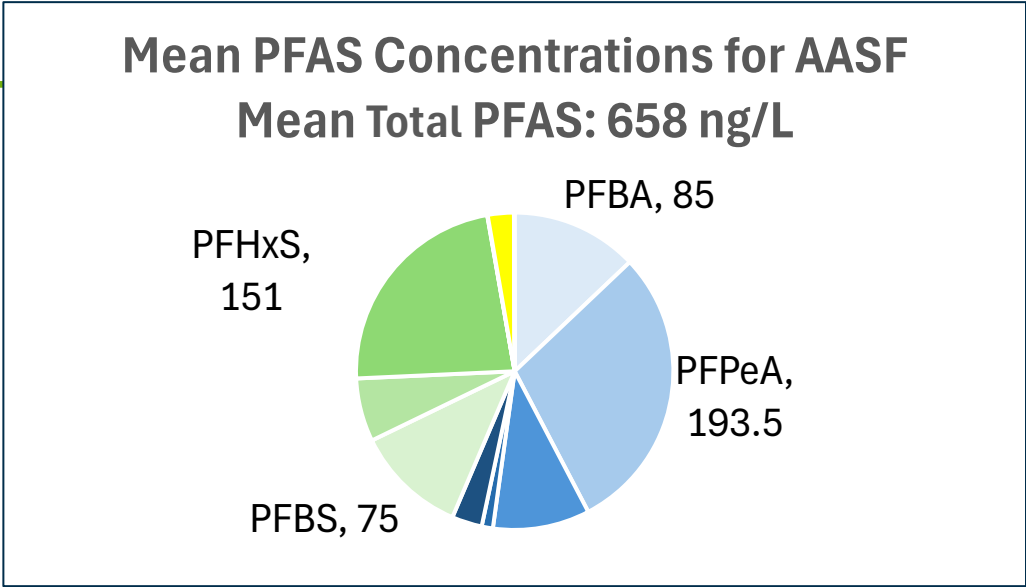
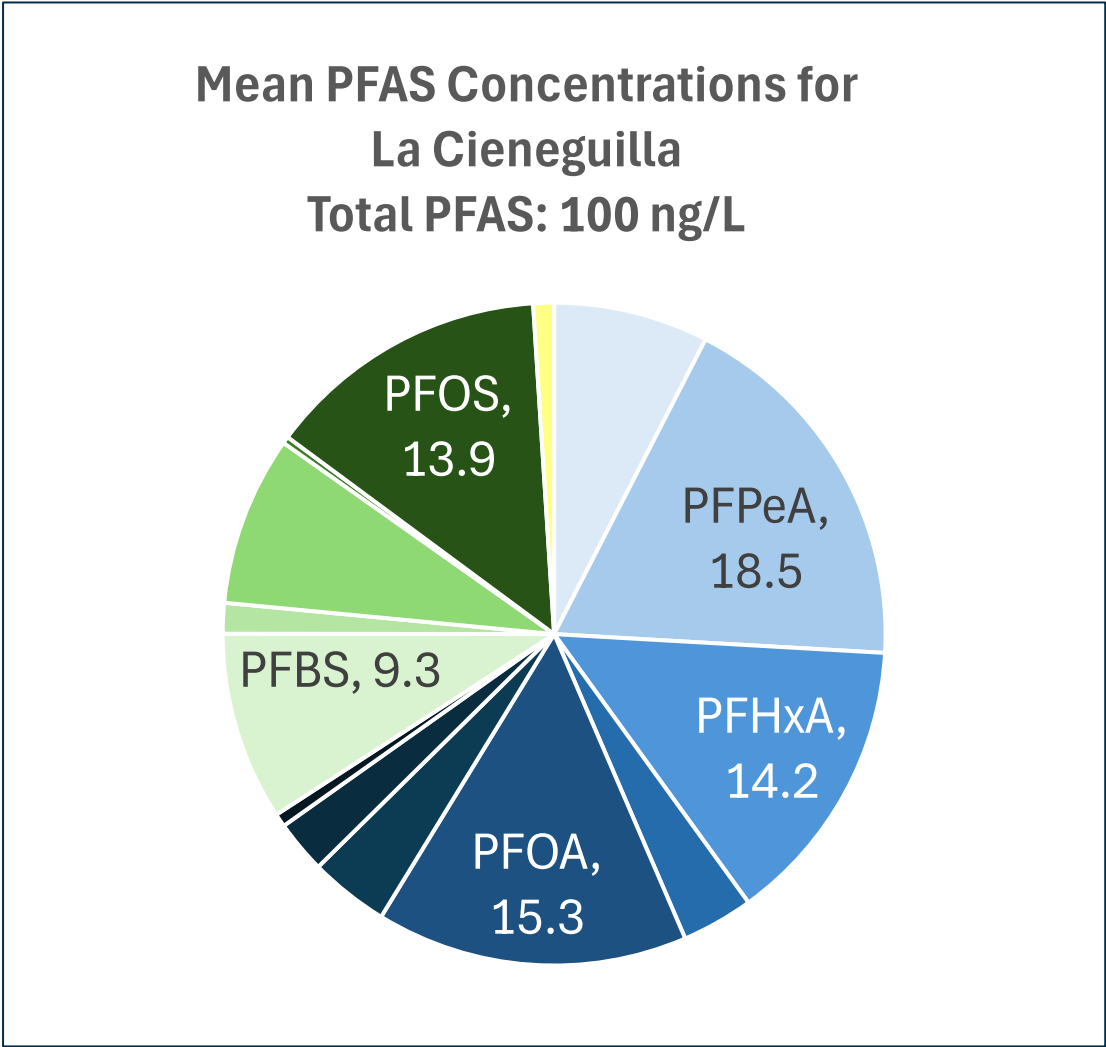


Source Analysis Methodology

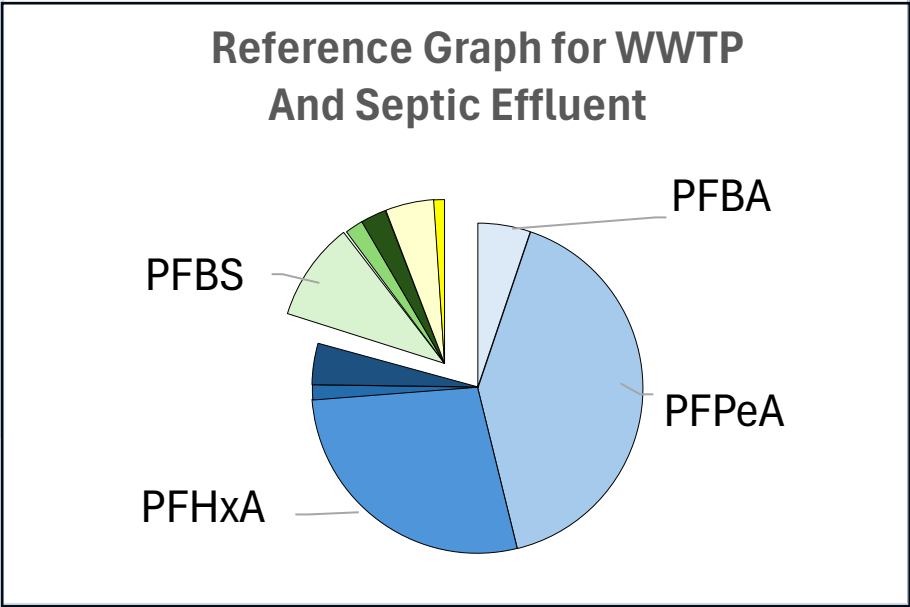
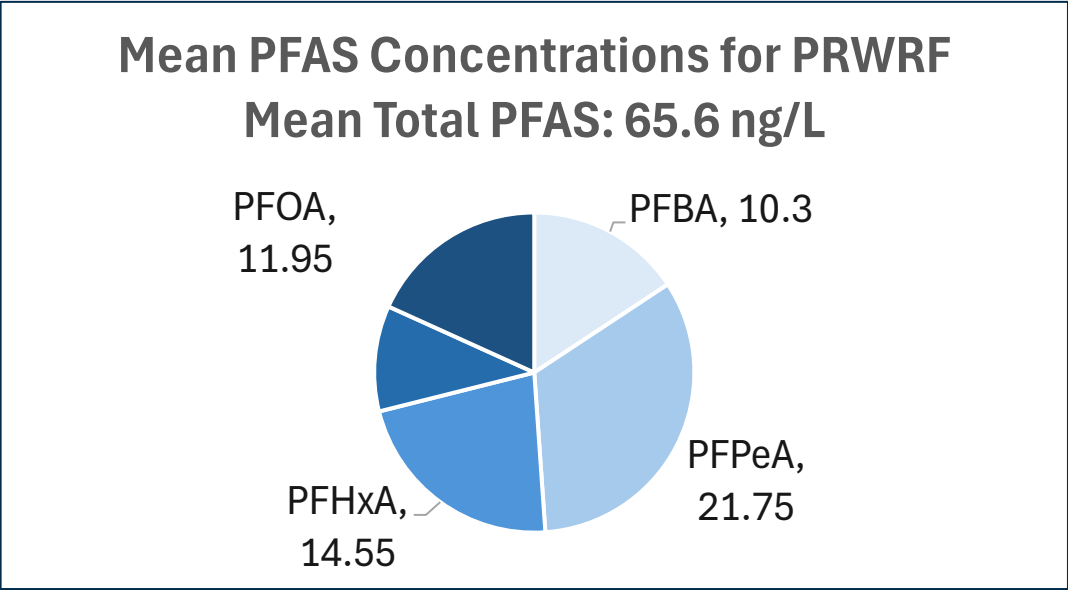
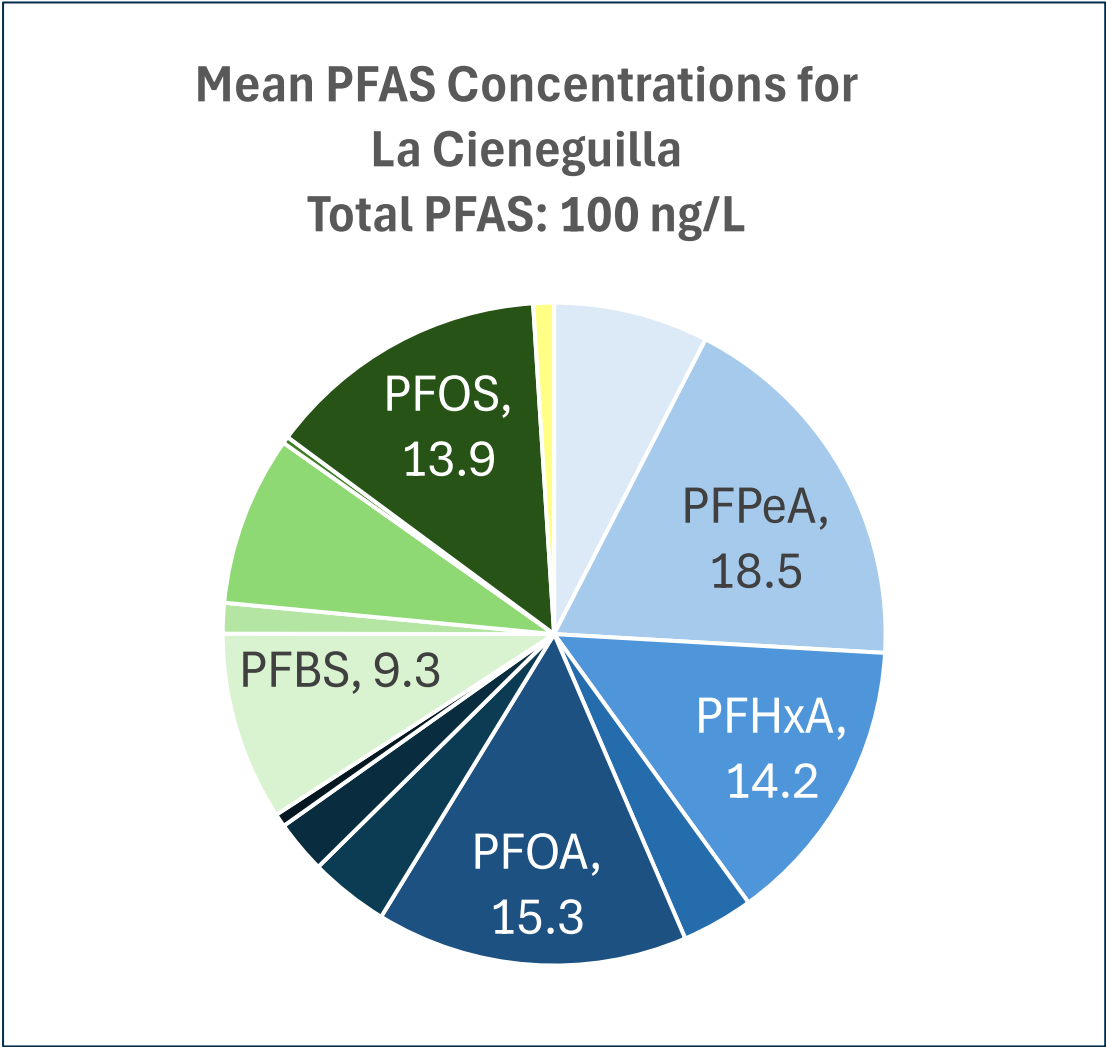
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 - o Septic tanks
 - o Santa Fe Regional Airport
- Overall distribution and location of highest concentrations
- Fingerprinting using comparison of PFAS compounds



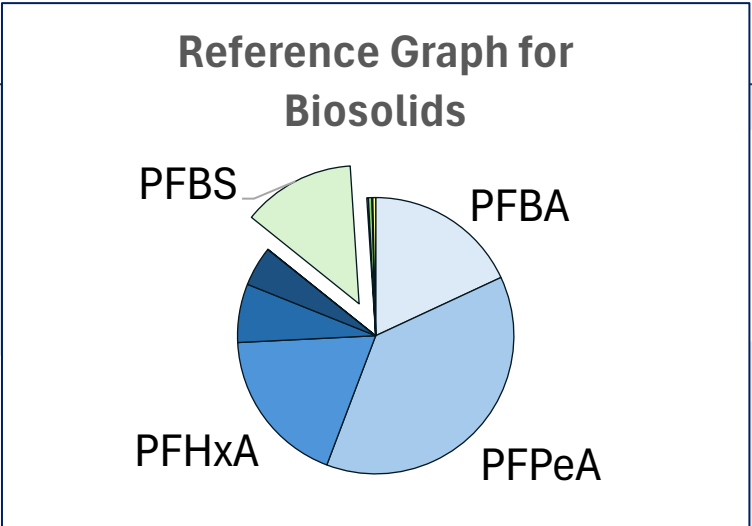
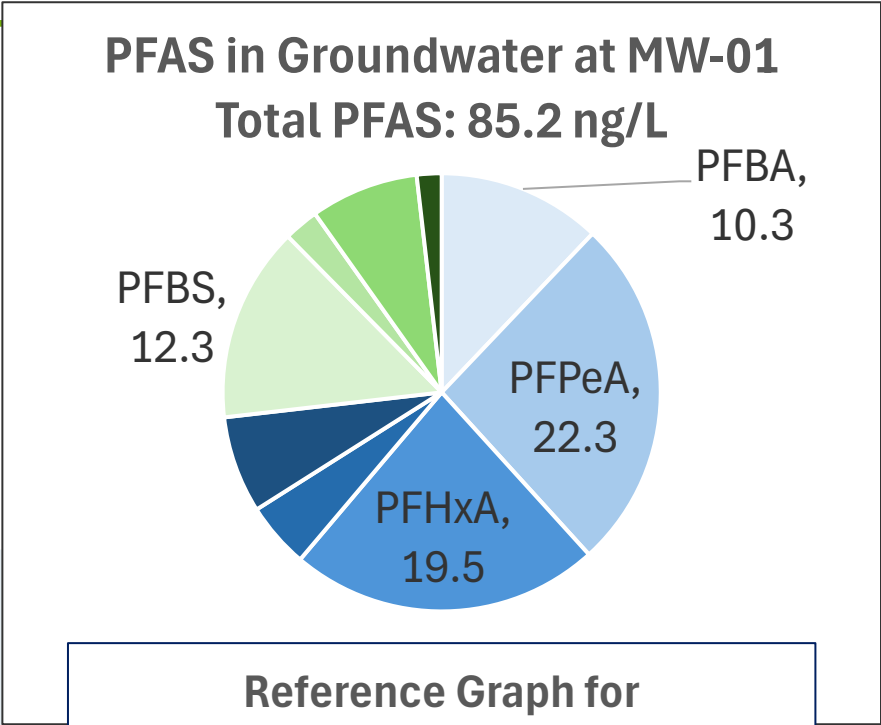
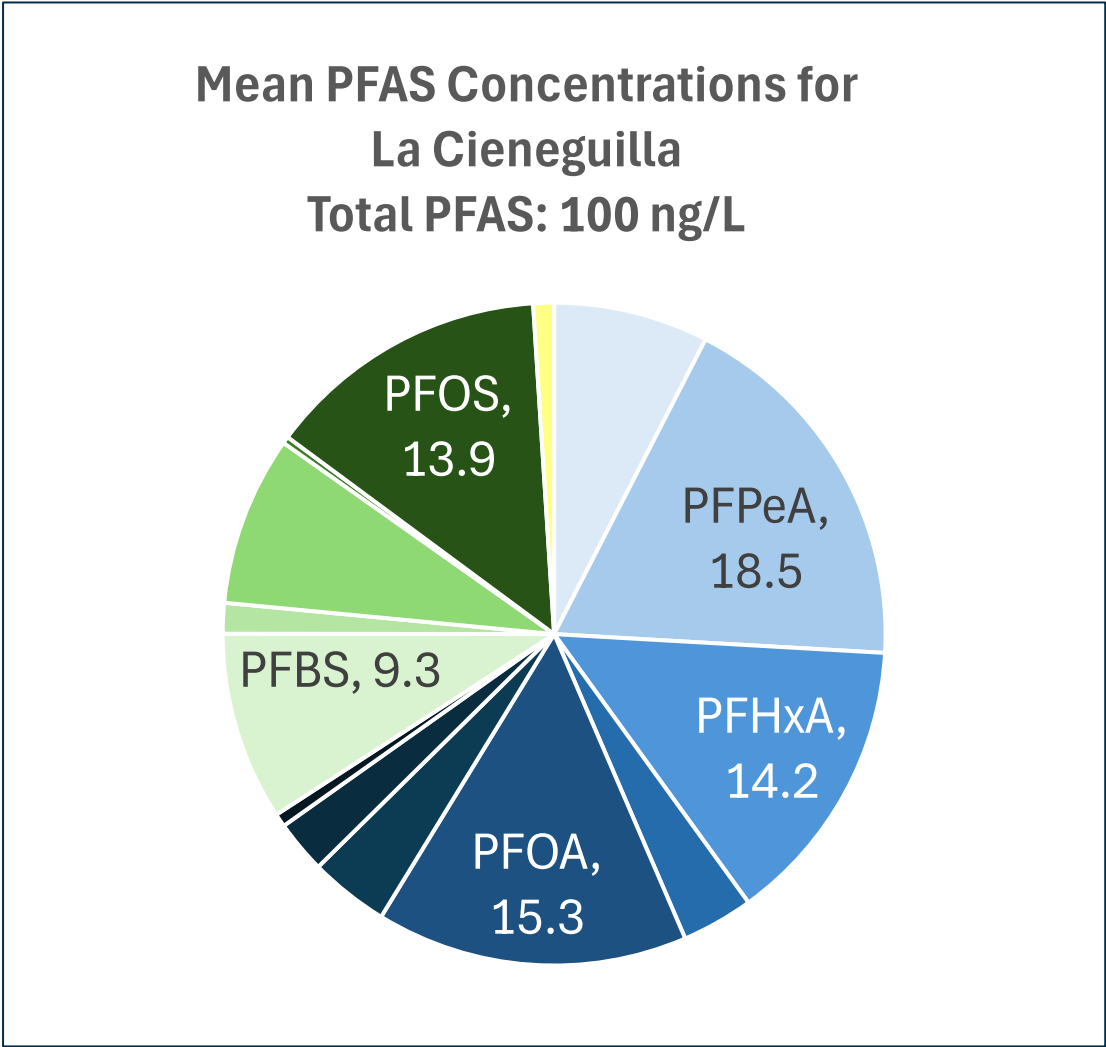
Source Analysis – La Cieneguilla, AASF, and Reference Airport



Source Analysis – La Cieneguilla, PRWRF, and Reference WWTP

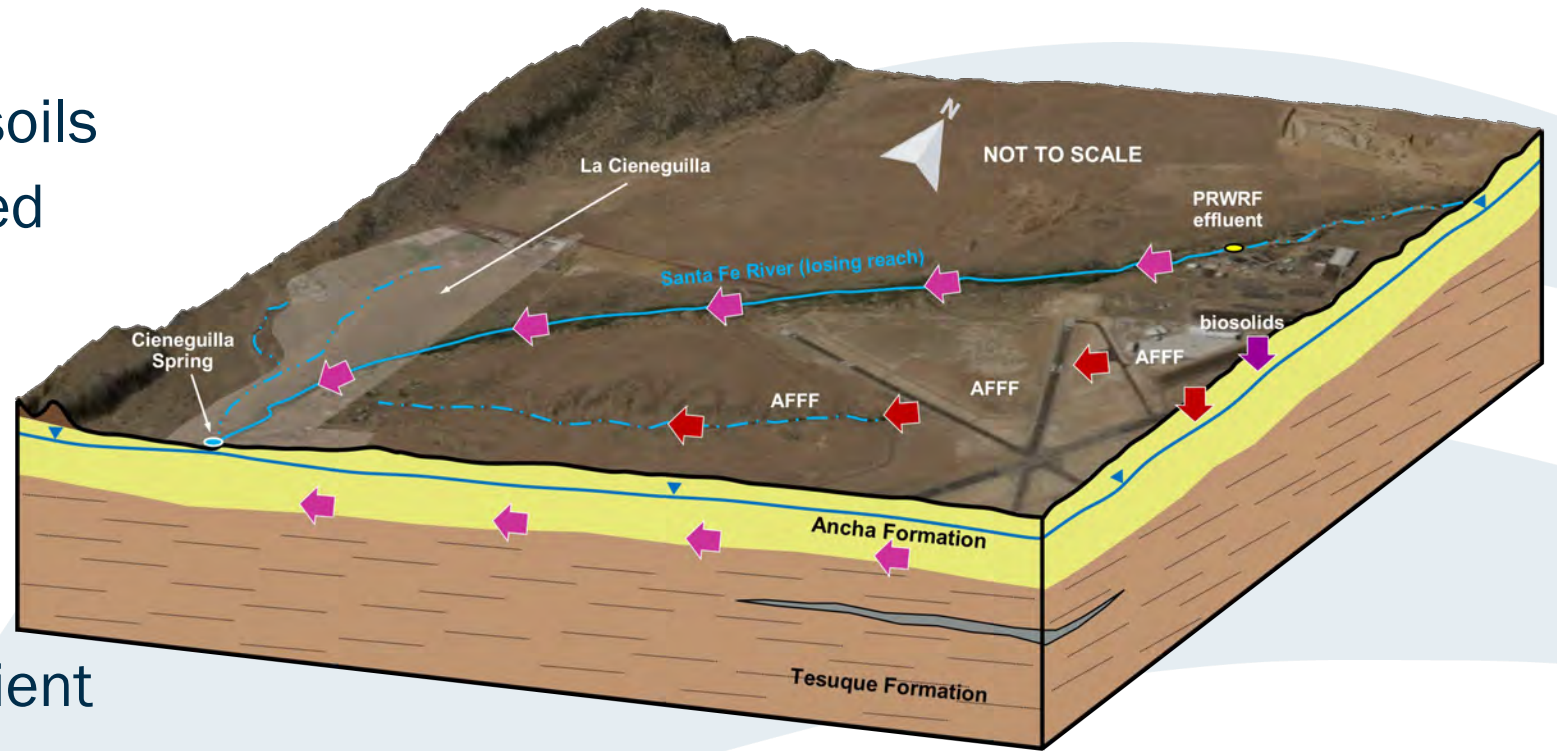


Source Analysis – La Cieneguilla, PRWRF Well MW-01, and Reference Biosolids Land Application



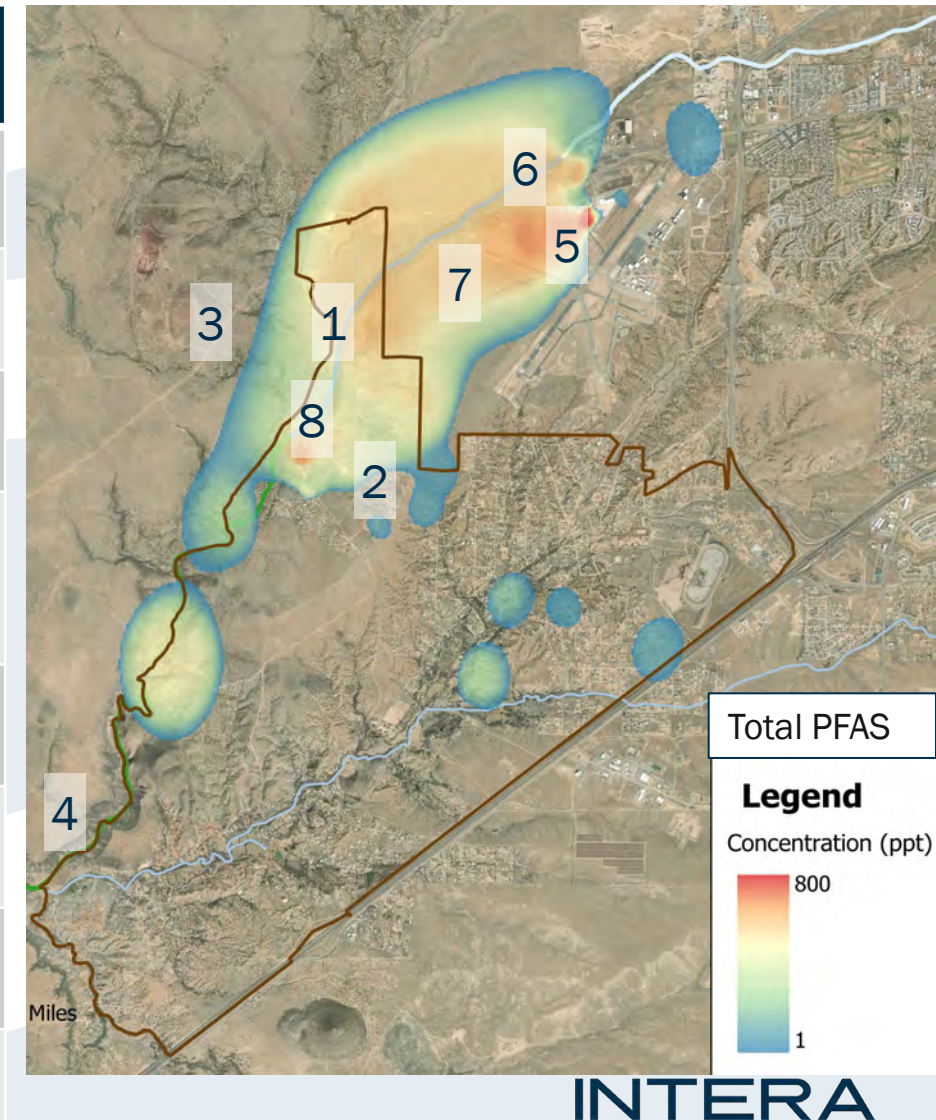
Source Analysis – CSM

- Leachate from biosolids and soils
- Groundwater flow from perched zone to regional aquifer
- PRWRF effluent along losing reaches of SF River
- Storm water with PFAS
- Septic systems
- Unknown source(s) downgradient of AASF and biosolids land application area

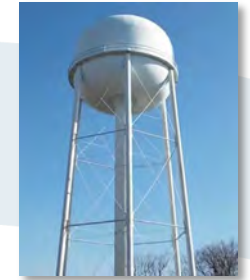
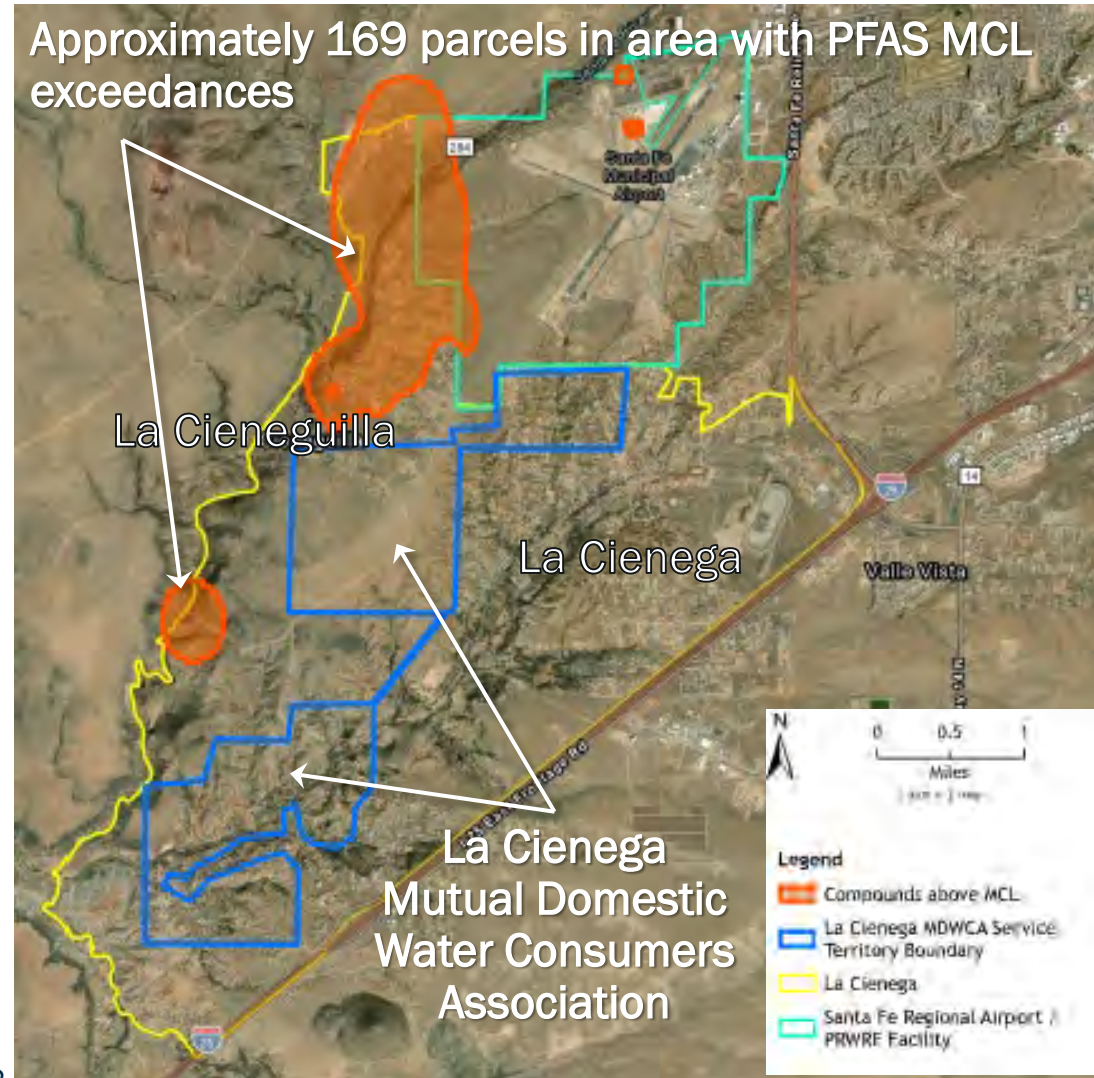


Data Gaps

	Data Gap	Potential Resolution	Affects Mitigation	Affects Remediation
1	Construction of wells in La Cieneguilla	Install monitoring wells	✓	-
2	Extent of PFAS in SW La Cieneguilla	Collect additional groundwater samples	✓	-
3	Extent of PFAS west of Santa Fe River	Collect additional groundwater samples	-	-
4	Extent of PFAS in Santa Fe River	Collect additional surface water samples downstream	-	-
5	Extent of perching unit at AASF	Install monitoring wells	-	✓
6	Leaching potential of PFAS in soils	Vadose zone modeling	✓	✓
7	Source identification	Install monitoring wells (between AASF and LC)	-	✓
8	Single sampling event	Follow on monitoring of subset of wells	✓	✓



Mitigation & Remediation



Short-Term

Household Point of Use (POU) or Point of Entry (POE) Treatment

Long-Term Options

Long-term POU Treatment Program
Deeper Wells?
Connection to MDWCA Remediation

Questions and Discussion
