

## Arizona UST Leak Autopsy Study (2008—2014)

## Project Goal

To assess currently available data, identify data needs, and establish risk criteria for evaluating the current Arizona UST infrastructure. This information will be used to analyze for potential relationships between UST systems and reported releases.

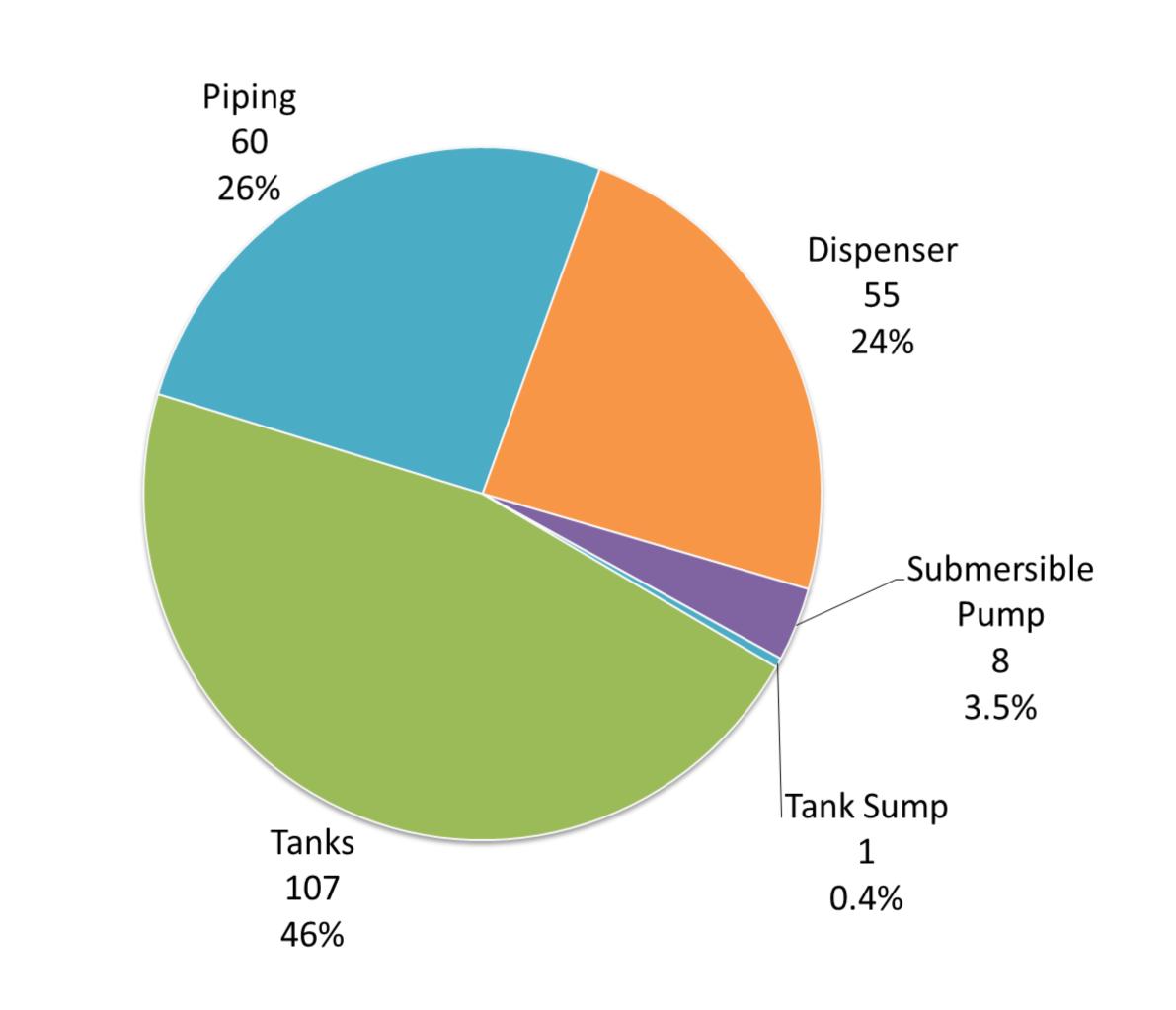
## Project Scope

- 1) Review of Arizona's public record information prepared to comply with EPA's requirement to collect and report information on the "source and cause" for 231 confirmed releases reported from 2008 2014
- 2) Identification of available electronic data related to the 6,819 UST systems in use (Nov 2013) and reported releases
- 3) Physical review of documents filed with ADEQ for the reported releases

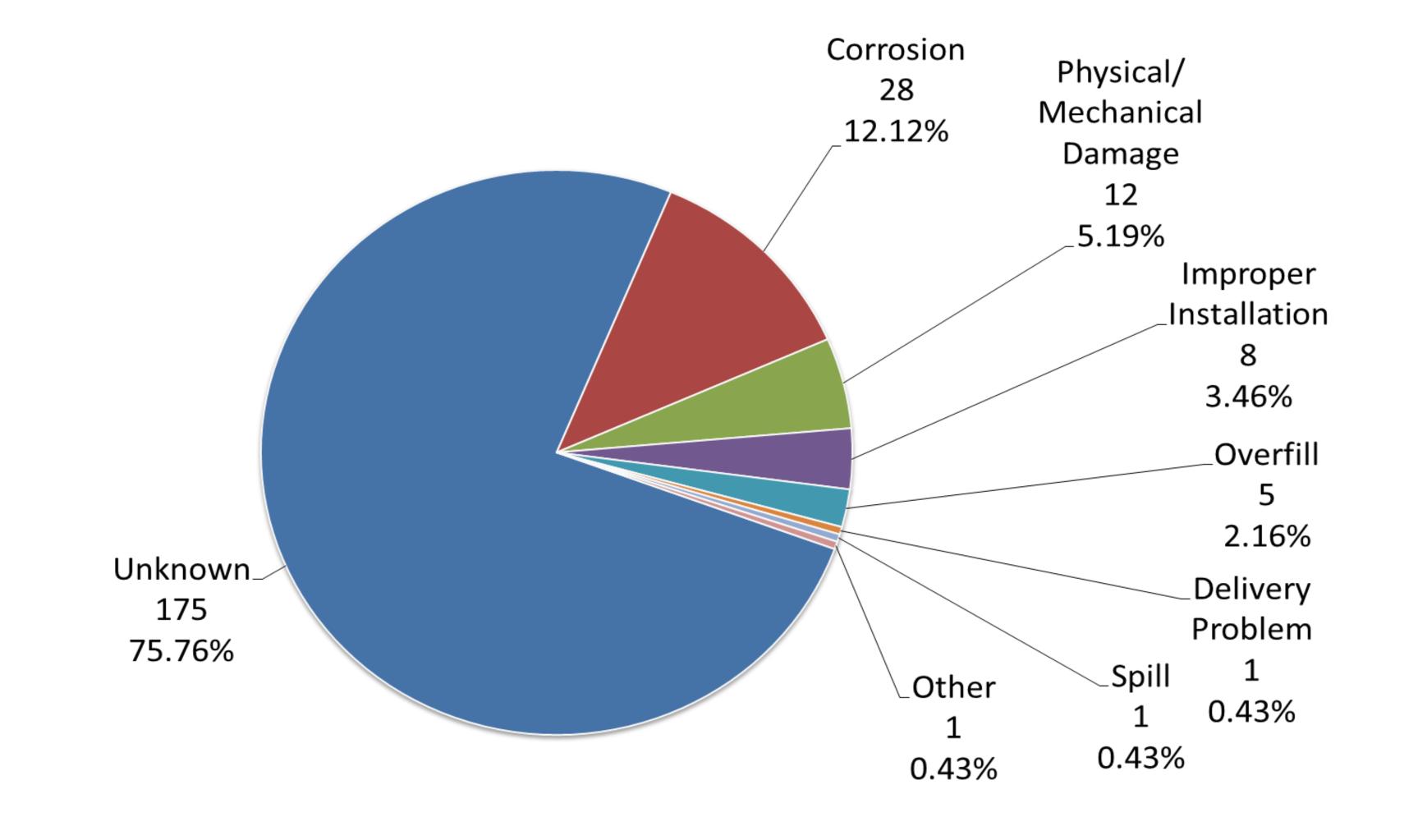
Note: This study did not include analysis of the status of the USTs when the releases occurred (active, temporarily closed, etc.) or how the releases were discovered (UST closure, leak detection, etc.). ADEQ is improving processes to include this type of data for releases reported in the future.

## Lessons Learned

ADEQ has not historically collected consistent and complete UST system data. ADEQ is currently improving processes to gather better data on operating systems and the source and cause of releases. These efforts will allow the Department to work with Arizona owners and operators in developing better leak prevention strategies.

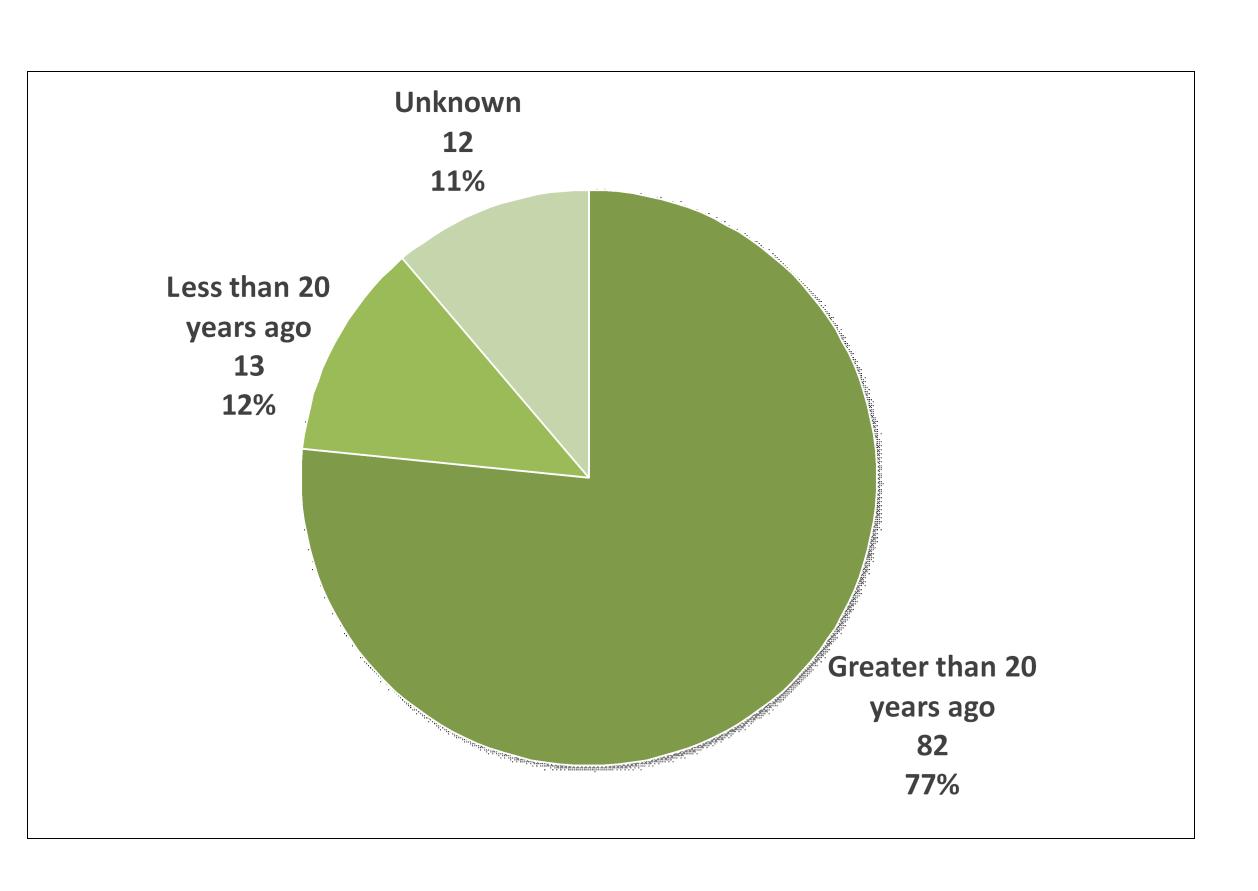


Reported Sources

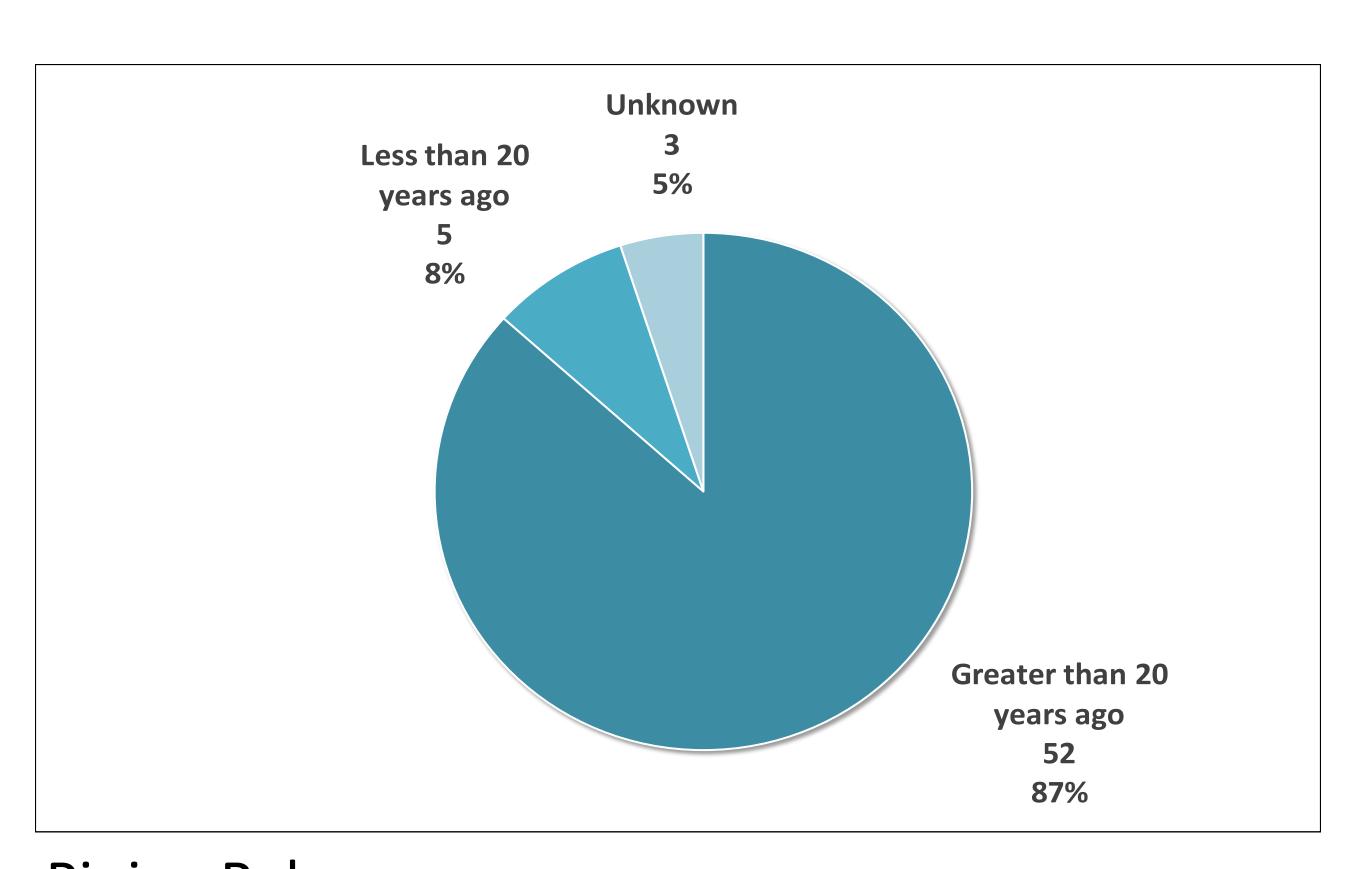


Reported Causes

## Installation Date



Tank Releases



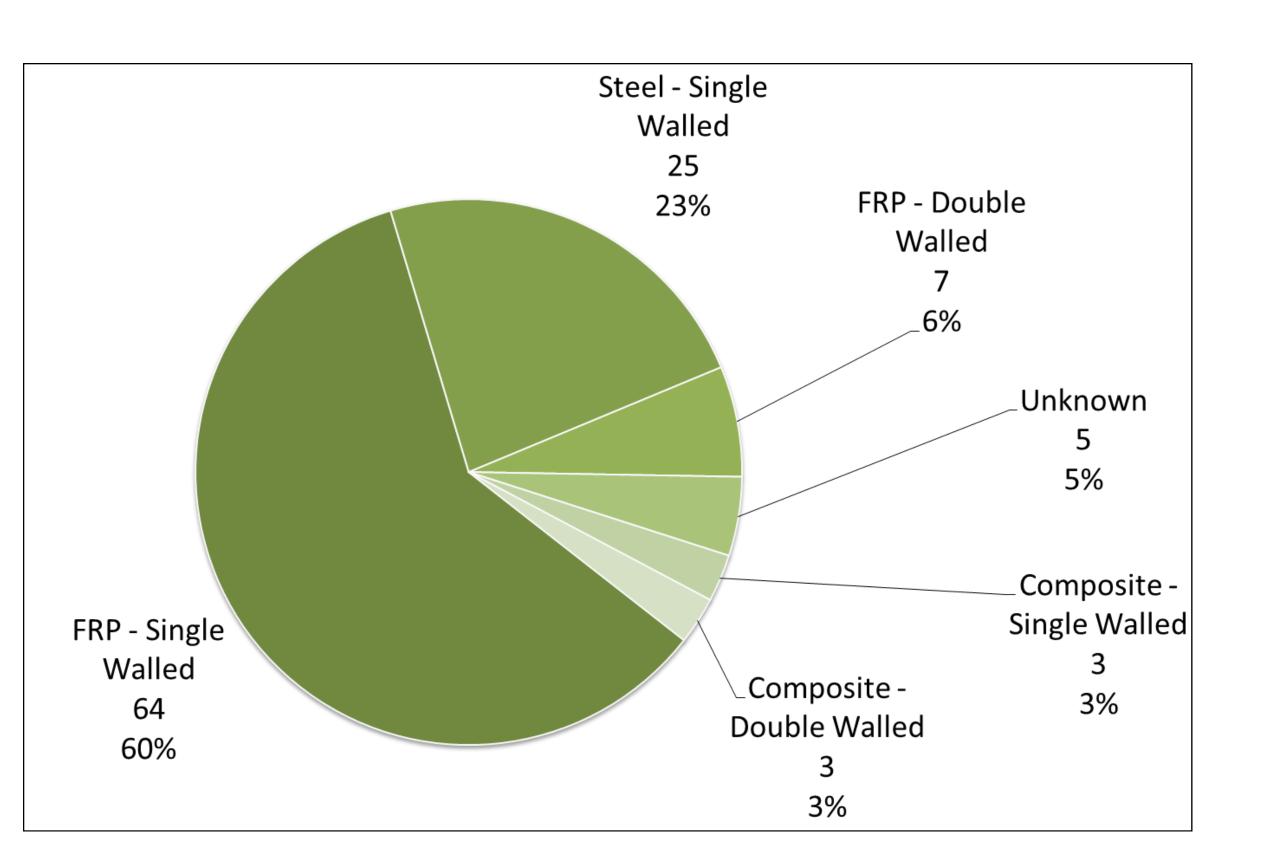
Piping Releases

# Unknown 57 1% Less than 20 years ago 2963 43% Greater than 20 years ago 3799 56%

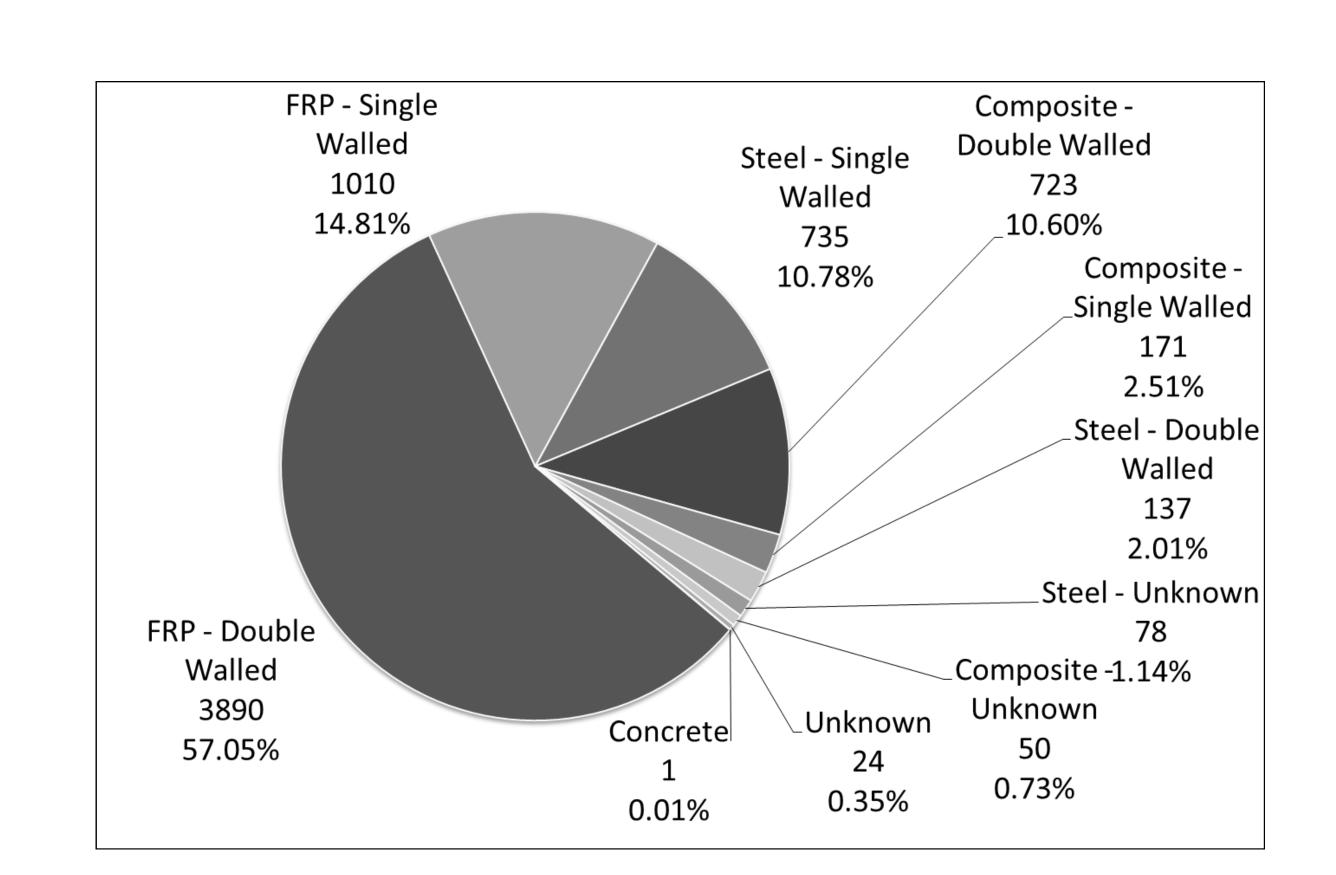
USTs in Use (Nov 2013)

## 231 Reported UST Releases

## Tank Material and Construction

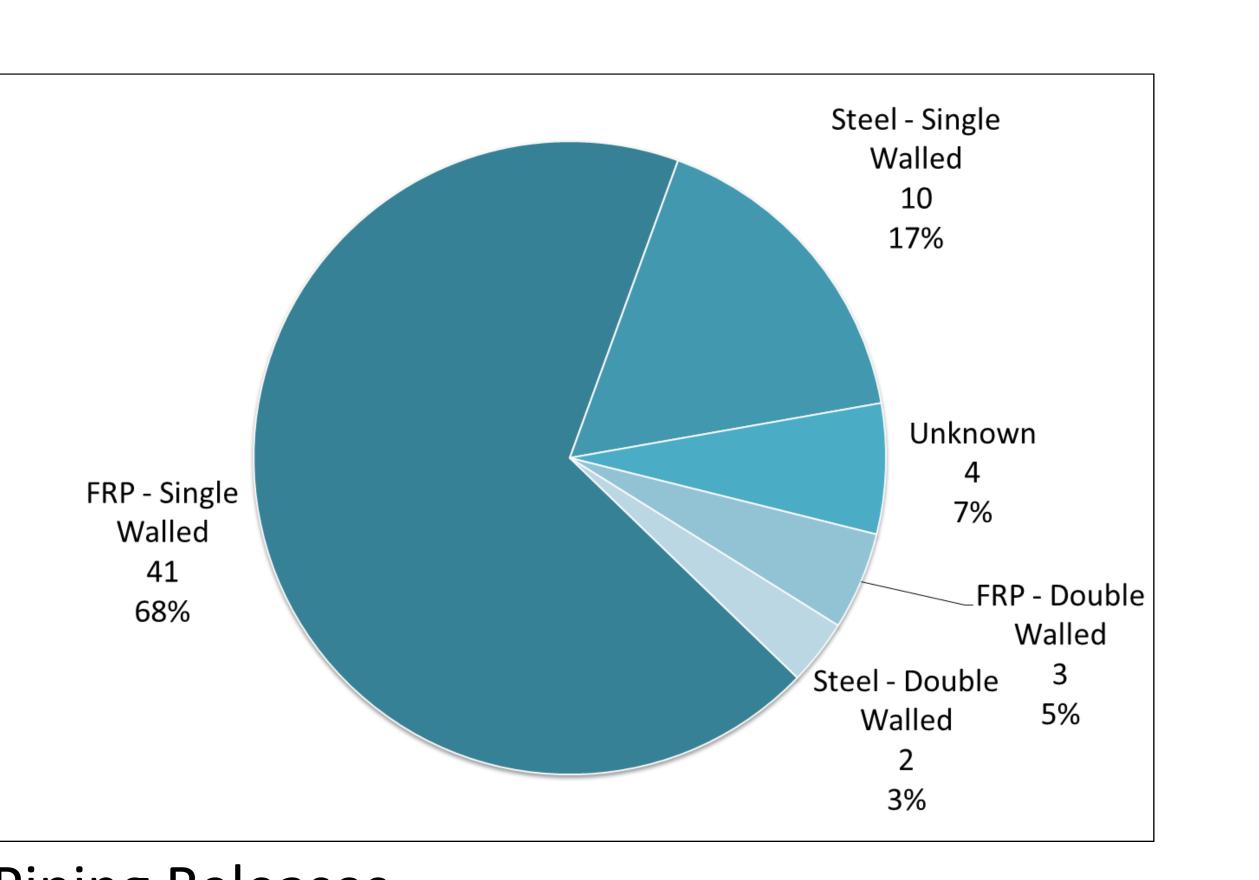


Tank Releases

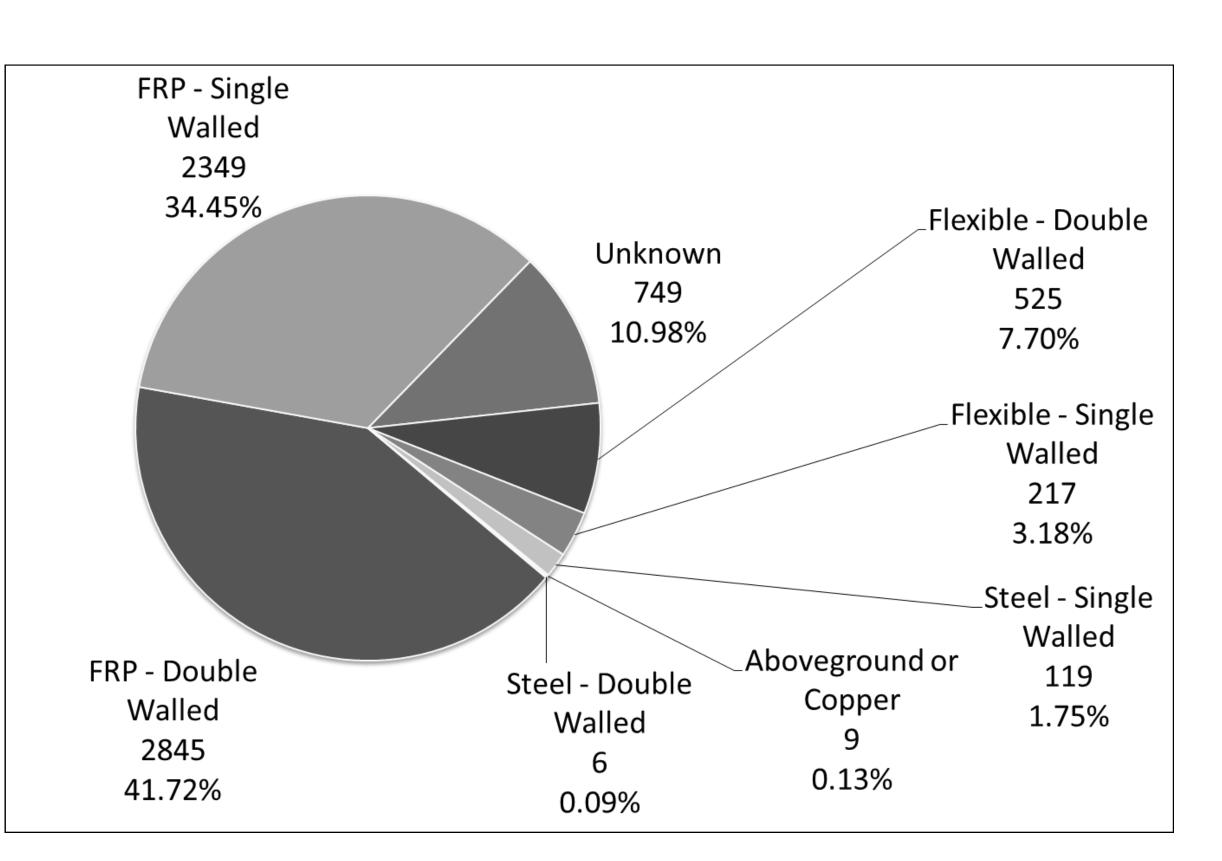


Tanks in Use (Nov 2013)

## Piping Material and Construction



Piping Releases



Piping in Use (Nov 2013)

### Acknowledgement

Thank you Marshall Mott-Smith for the inspiration from the Florida Leak Autopsy Studies!