



# Meeting Minutes

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## East Central Phoenix Water Quality Assurance Revolving Fund (WQARF) Sites

### Community Advisory Board (CAB) Meeting

**Tuesday, October 2, 2012  
6:00 p.m. to 8:00 p.m.  
Jamestown Condominiums**

**Phoenix, AZ**

### **DRAFT MINUTES**

Ref: OU #13-077

CAB members present: Jolene Morris, Randy Dahl, Richard Siegel

ADEQ Staff in attendance: Andre Chiaradia, Remedial Projects Unit Manager; Danielle Taber, Project Manager; and Wendy Flood, Community Involvement Coordinator (CIC)

Members of the public present:  
Shawn Riley; Christopher Byrd; Trent

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The following matters were discussed, considered, and decided upon at the meeting:

#### **1. Welcome/Introductions**

Mrs. Flood opened the meeting with greetings and introductions.

#### **2. Accept and /or changes to the minutes of the February 2, 2012 CAB meeting**

Ms. Morris asked the CAB members if they had any changes or comments to the minutes of February 2, 2012. CAB members moved to accept the minutes.

#### **3. Review of the Community Involvement Plan (CIP)-Wendy Flood, CIC**

Ms. Flood stated the CIP was not completed and asked the CAB members how they would like to receive their copy once completed. CAB members agreed that an electronic copy was preferred.

#### **4. CAB member discussion and voting - Wendy Flood, CIC**

Mrs. Flood informed the CAB that two applications had been received and one CAB member, who has absent numerous times, was unresponsive to communication requests made by ADEQ. Ms. Morris moved to remove Barbara St. Mary, it was seconded by Mr. Dahl, motion passed.

The two applicants, Shawn Riley and Chris Byrd were asked to step outside in order for CAB members to discuss their applications. The CAB discussed the applications and requested information if Christopher Byrd's employment status at ADEQ will be a conflict of interest and asked to table the vote on his application. The CAB accepted Mr. Shawn Riley's application to the CAB. Mrs. Flood presented Mr. Riley with his CAB membership notebook.

#### **5. CAB Co-chair voting – Wendy Flood, CIC**

Tabled until next meeting

#### **6. CAB membership Roles and Responsibilities – Wendy Flood, CIC**

Mrs. Flood went over the statutory requirements for CAB's and members as well as expectations and roles.

See attached presentation.

#### **7. Update on Quarterly Monitoring and Sampling Activities – Danielle Taber, Project Manger**

Ms. Taber updated the CAB on the following items: abbreviations and definitions that would be used in her presentation; key Site personnel; discussed and described soil, soil gas and soil vapor, and soil vapor sampling techniques; risk level and range explanation for tetrachloroethene (PCE); a brief historic update on the East Central Phoenix site; and ended with recent and future activities at 32nd Street and Indian School Road and 48th Street and Indian School Road. Ms. Taber also showed groundwater PCE result ranges at the Sites and briefly covered a soil gas investigation that had taken place in May/June. Ms. Taber also reported that the groundwater plume boundaries have changed for the Sites plus a soil vapor treatment system had been installed at 32<sup>nd</sup> Street and Indian School.

See attached presentation

Mr. Byrd asked if there were drinking water wells in the area. Ms. Taber stated there are but are not being used in that area for drinking water purposes. He also asked about exposure to the contaminants from volatilization, like off the canal. Mr. Chiaradia stated the link is minimal and there is information that has shown that route of exposure is not a risk or pathway. Mr. Byrd asked how the AWQS compares to the air quality levels regarding volatilization. Mr. Chiaradia stated the state is looking at researching such an exposure pathway. Further discussion was held about risk ranges and exposure levels and how they are used.

Mr. Dahl inquired about the CAB writing a letter to Bashas' regarding access so that the Agency can install the soil vapor treatment system on their property. The CAB stated they would think about such action if there are further access issues. A discussion was held regarding location/placement of the treatment system.

Mr. Byrd asked about environmental disclosure regarding the Site when a property is bought or sold. He was not given this information when he bought his home. Ms. Morris stated that he can

contact the Department of Real Estate or a real estate agent. Discussion was held regarding the difference between study area and site plume boundaries and how that information can change.

**6. Call to the Public**

None

**7. Future meeting plans/agenda discussion**

The CAB agreed to have the next meeting in February 2013 on a Tuesday night at the Jamestown Condominium's from 6 – 8 pm.

**8. Adjourn**

CAB motioned to adjourn meeting.

# **East Central Phoenix Water Quality Assurance Revolving Fund (WQARF) Site**

## **Community Advisory Board Meeting**

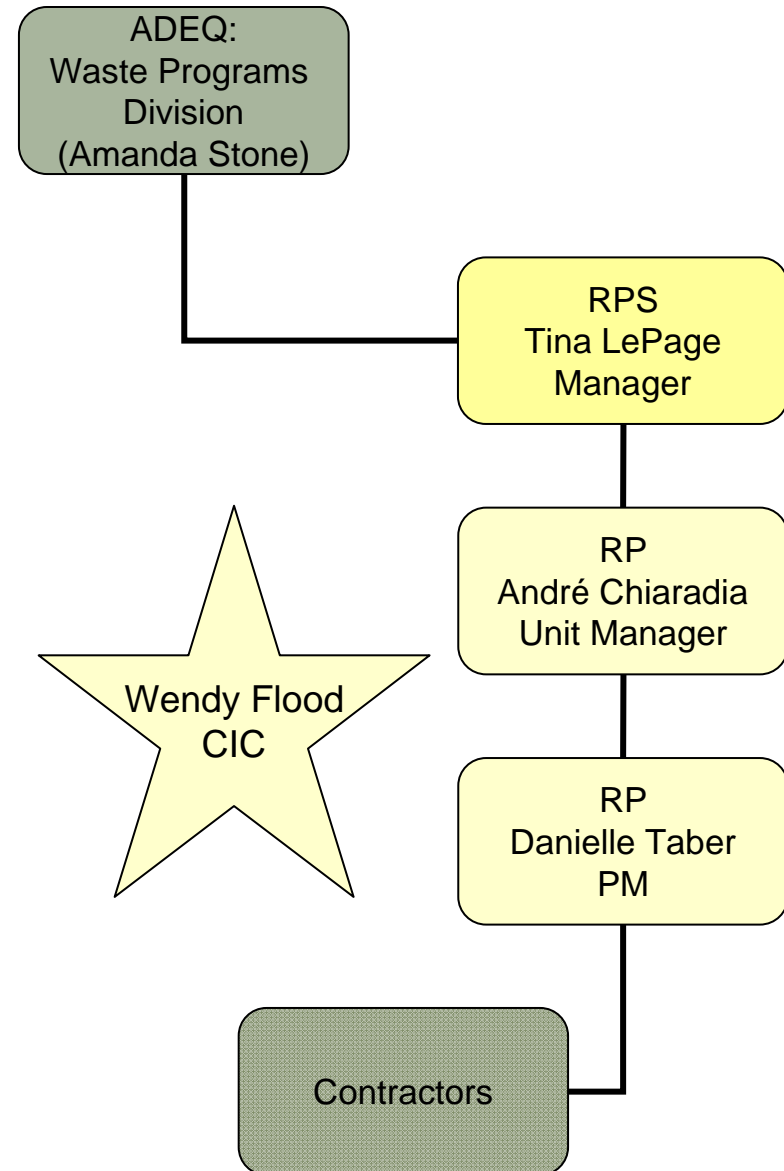
**October 2, 2012**

- Abbreviations/Definitions – See Handout
- Introductions
- Let's Talk Soil Gas/Vapor
- WQARF Site Update
  - State/Federal Projects within “Central” Phoenix
  - East Central Phoenix
    - Refresher
    - Recent Activities
    - Details
      - 32nd Street and Indian School Road
      - 48th Street and Indian School Road
  - Upcoming Activities
- Take Away
- Questions



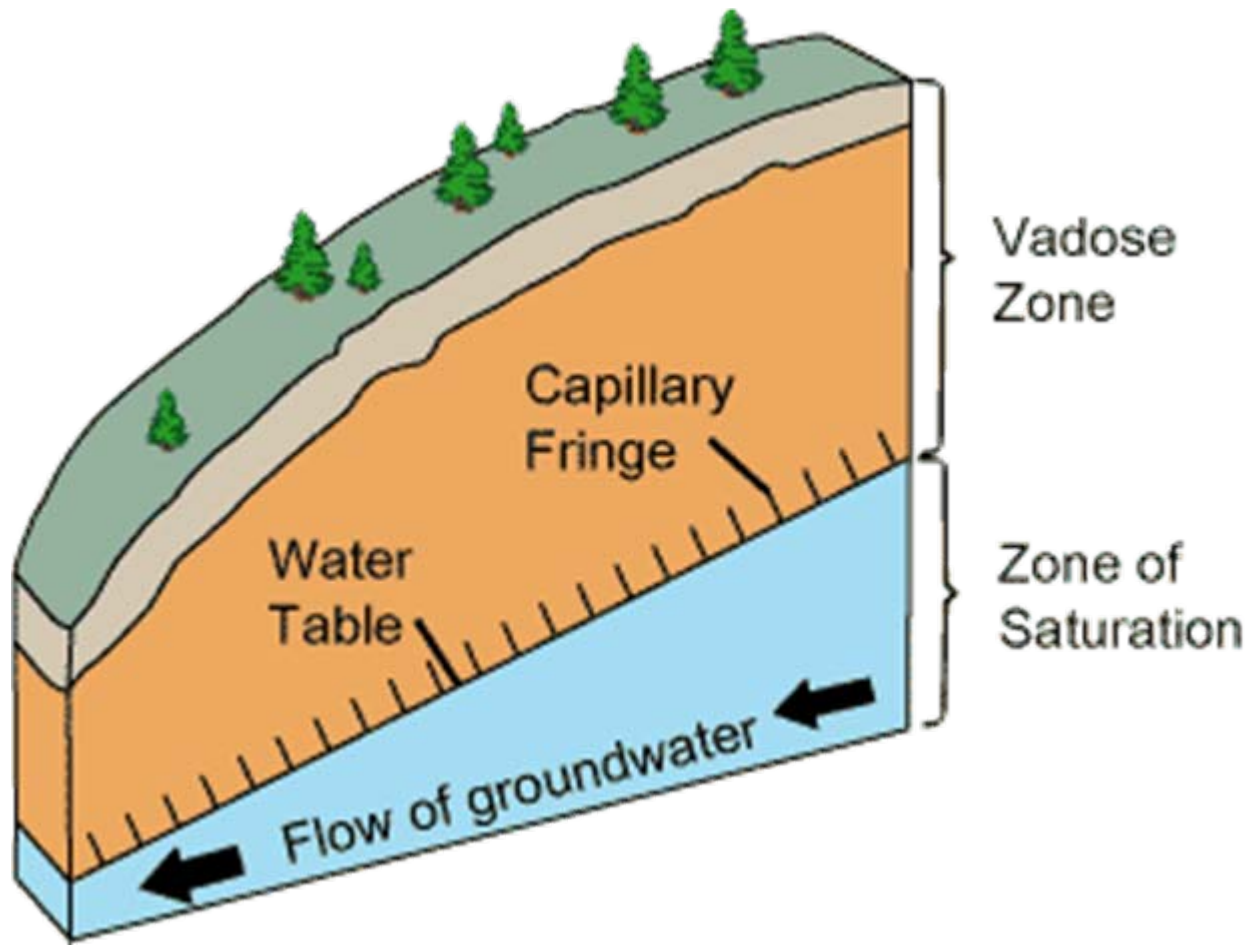
# Introductions

- ADEQ Personnel
  - Remedial Projects Section
    - Danielle Taber, PM
      - resident in ECP
    - Wendy Flood, CIC
    - André Chiaradia, Unit Manager
    - Tina LePage, Section Manager
- ADEQ Contractor(s)
  - To Be Determined



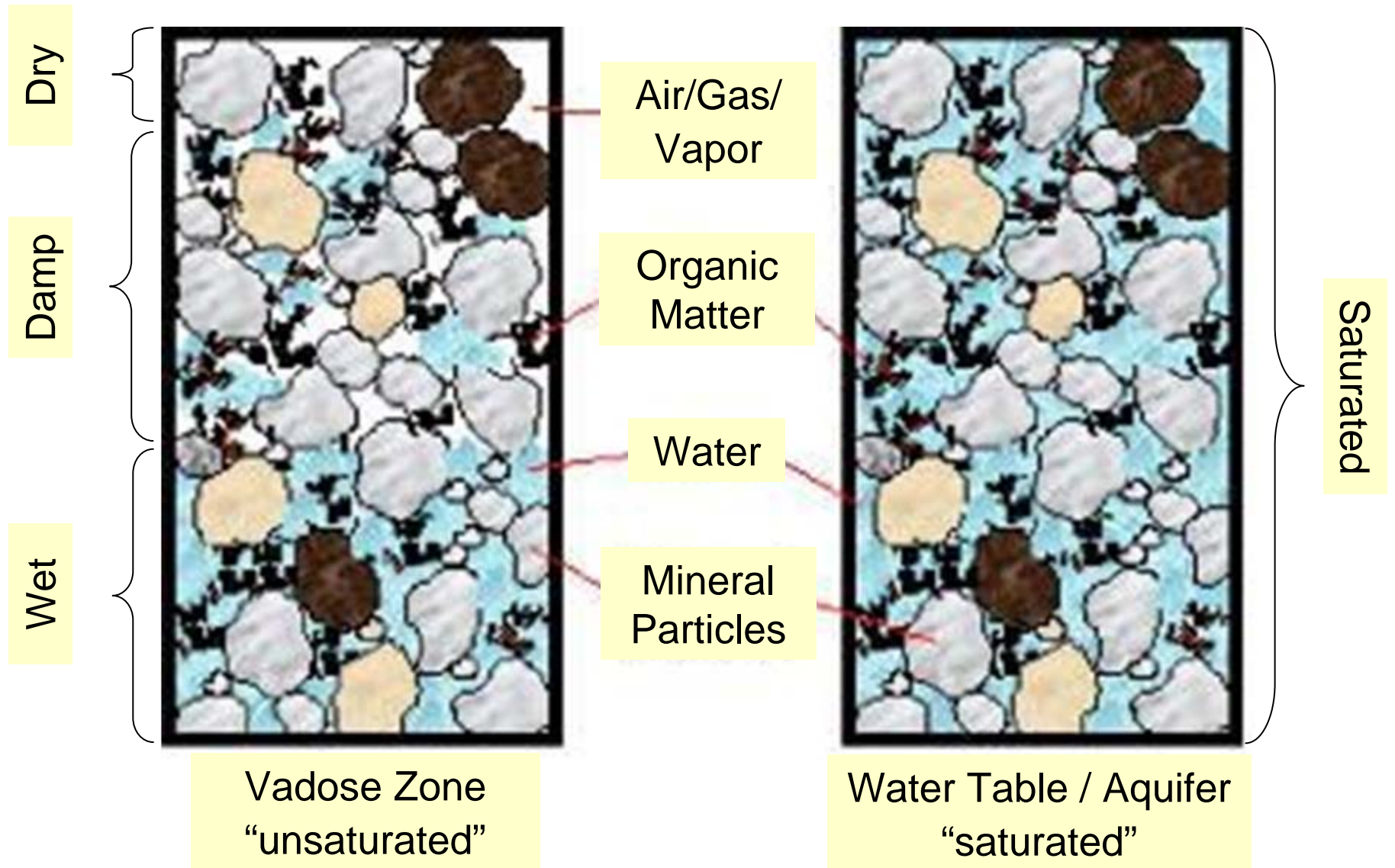
# Soil Gas/Vapor

- First, What's Soil?
  - ADEQ says “all earthen materials, including moisture and pore space contained within earthen material, located between the land surface and groundwater including sediments and unconsolidated accumulations produced by the physical and chemical disintegration of rocks.” (ARS R18-7-201 #41)





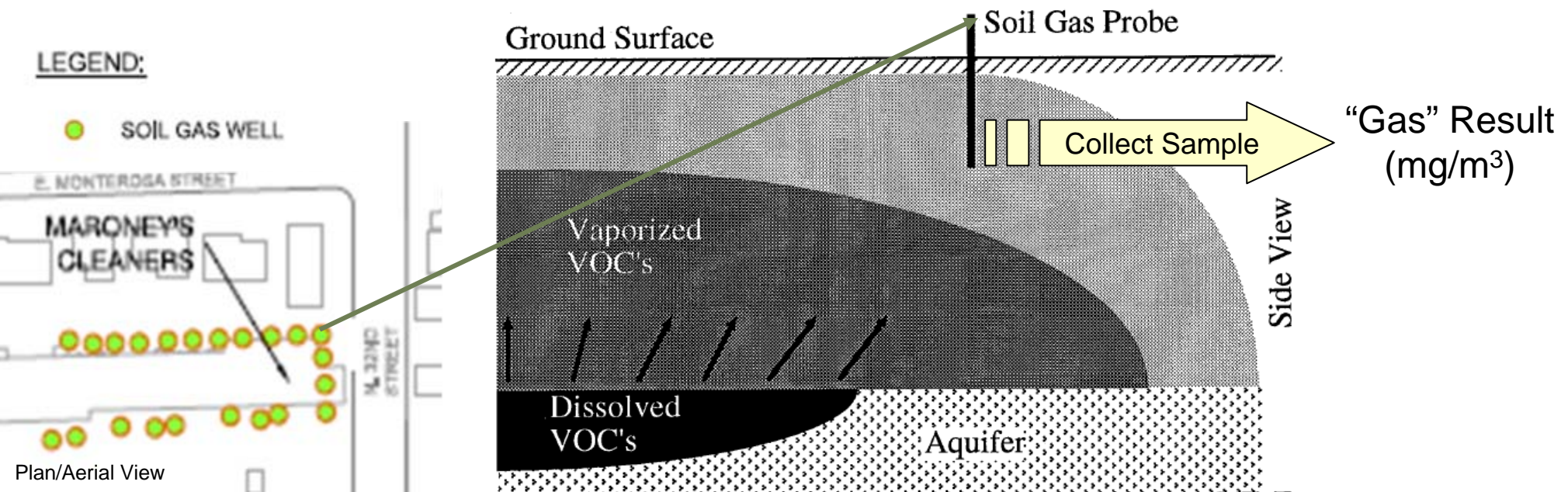
# Soil Gas/Vapor





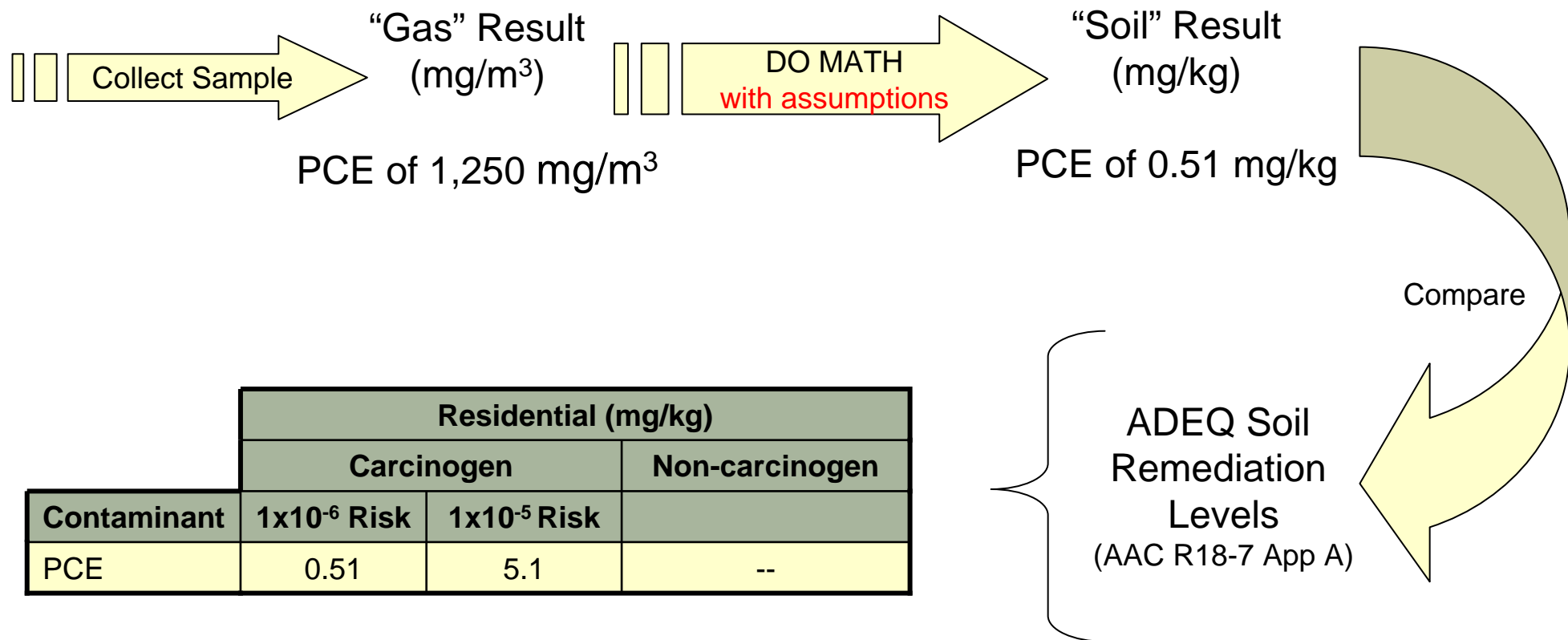
# Soil Gas/Vapor

- Now, What's Soil Gas?
  - “Gaseous elements and compounds that occur in the small spaces between soil particles...”
  - In 2007, ADEQ added to rule “**Soil vapor concentration may be used to estimate the total contaminant concentration in soil...**” ARS R18-7-203 (C)



# Soil Gas/Vapor

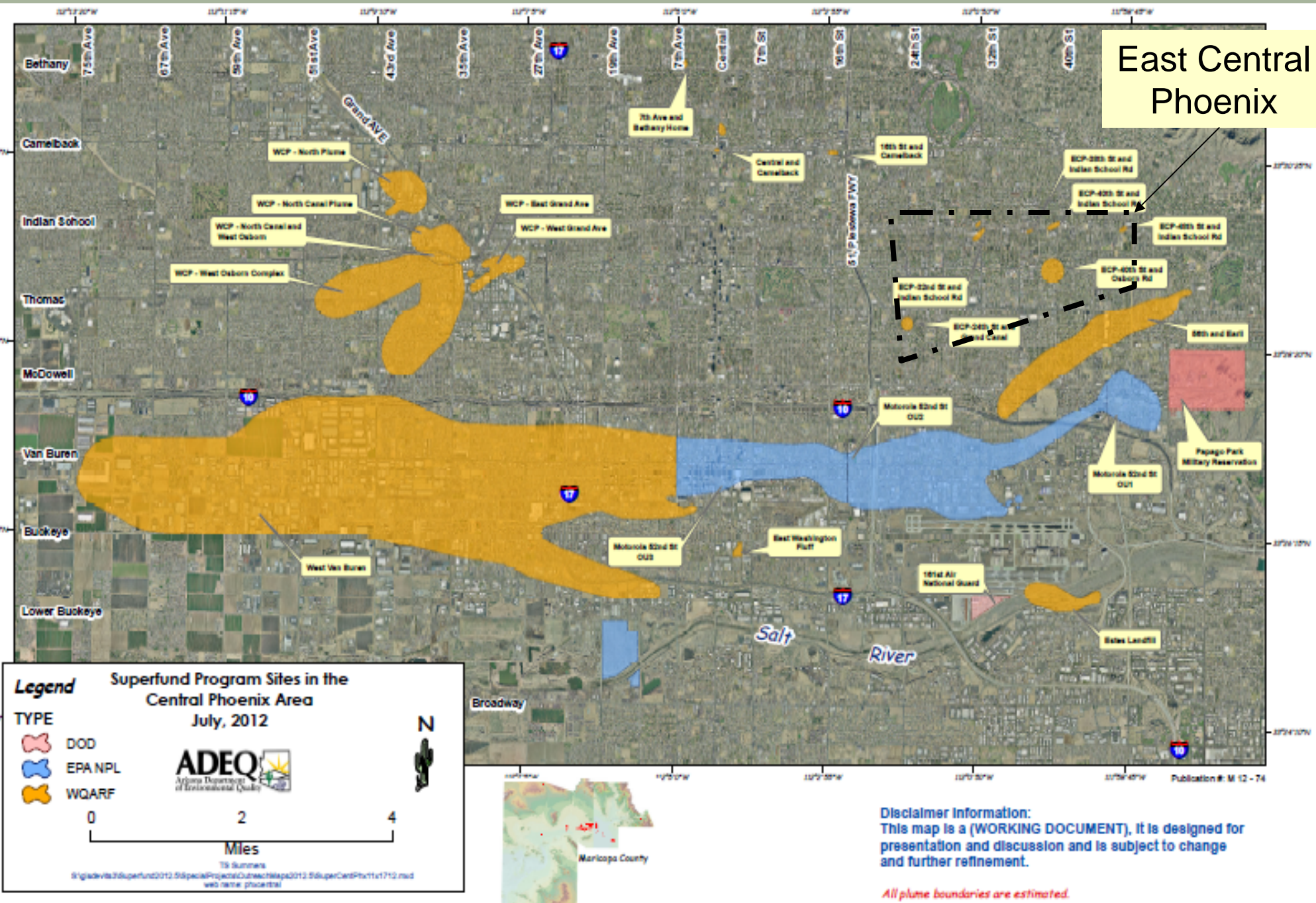
- How does ADEQ use these definitions?
  - “Soil vapor concentration may be used to estimate the total contaminant concentration in soil...”



# WQARF Site Update



# State and Federal Superfund Sites

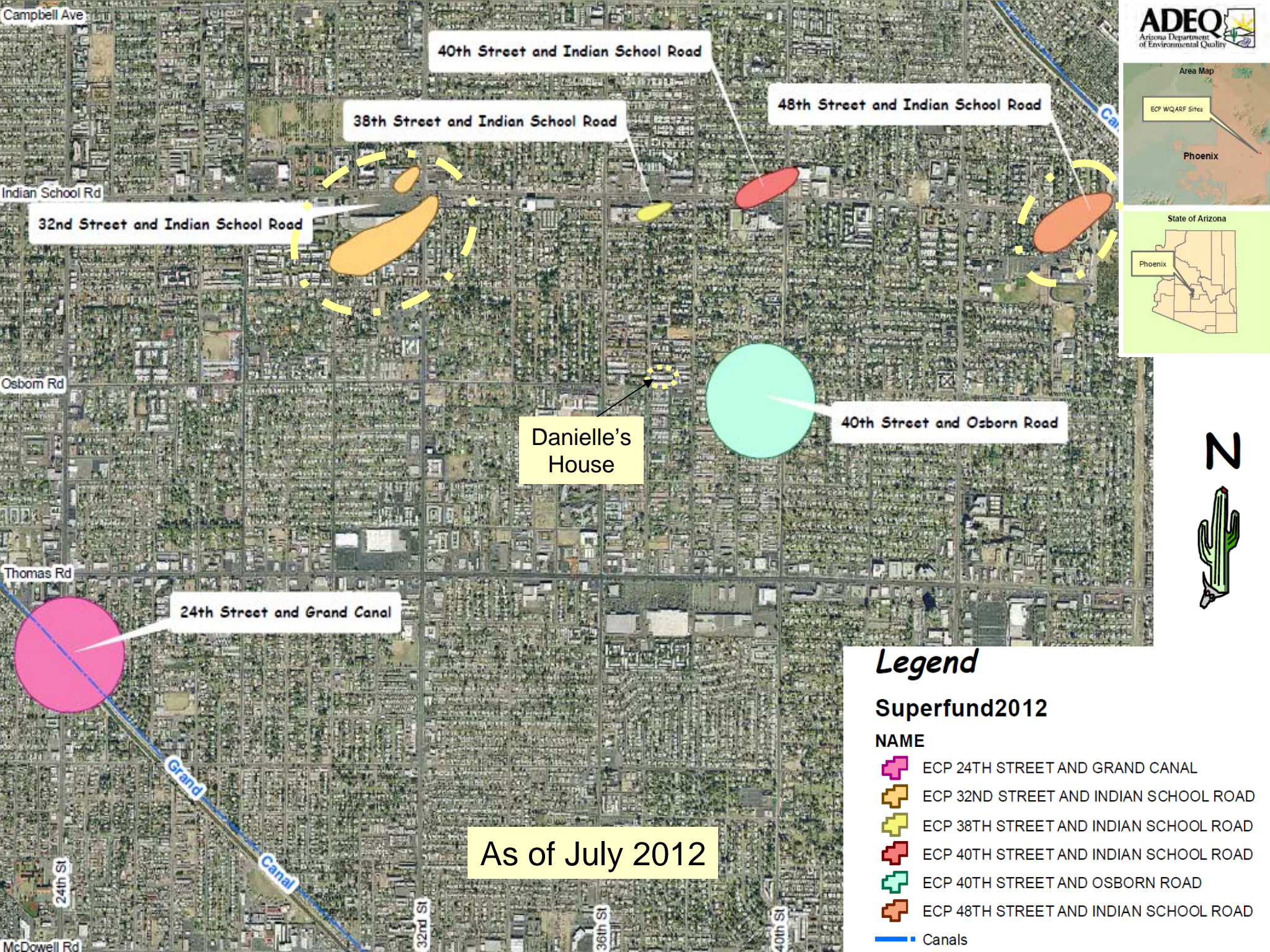


The ECP WQARF Site is  
comprised of the following six sites:

1. 24<sup>th</sup> Street & Grand Canal
- 2. 32<sup>nd</sup> Street & Indian School Road**
3. 38th Street & Indian School Road
4. 40th Street & Indian School Road
5. 40<sup>th</sup> Street & Osborn Road
- 6. 48<sup>th</sup> Street & Indian School Road**









# A Little History

- ECP was placed on the WQARF Registry list in 1987
  - SRP reported groundwater contamination in three wells
  - PCE is the main contaminant of concern
  - TCE and BTEX is also present at the former Viking Cleaners
    - (32<sup>nd</sup> Street and Indian School Road)
- The ECP CAB was formed in November 2007
- Additional historic information, previous agendas, and meeting minutes can be found here:
  - <http://www.azdeq.gov/environ/waste/sps/reg.html>
  - <http://www.azdeq.gov/environ/waste/sps/phx.html>

## Activities from September 17, 2008 to February 21, 2012

- Late 2008 through January 2009 – ADEQ & WQARF funding cuts
- May 13, 2009 – 48th Street & Indian School Road Site Visit
- October 2010 – New ADEQ PM [Tina LePage]
  - Limited Soil Gas and Groundwater Sample Collection
    - 32nd Street & Indian School Road
    - 48th Street & Indian School Road
- October 2011 – New ADEQ PM [Danielle Taber]
  - Limited Soil Gas and Groundwater Sample Collection
    - 32nd Street & Indian School Road
    - 48th Street & Indian School Road
  - SVE Pilot Testing
    - 32nd Street & Indian School Road
    - 48th Street & Indian School Road

# Recent Activities

## Activities Since Last CAB Meeting on February 21, 2012

- 32nd Street and Indian School Road
  - Overall
    - Groundwater sampling
    - Cone Penetrometer Testing (CPT)
    - Soil gas/vapor sampling
  - Maroney's
    - SVE well install
    - SVE system construction
  - Former Viking
    - SVE well install
  - Fairmont Avenue
    - SVE well install
    - Groundwater monitor well install
    - Groundwater remediation well install
  - Property Access



## Activities Since Last CAB Meeting on February 21, 2012

- 48th Street and Indian School Road

- Overall

- Groundwater sampling
- CPT
- Soil gas/vapor sampling

- Groundwater Monitor Well

- SVE System

- SVE well install
- SVE pilot test
- Ownership transfer

- Property Access





# 32nd Street and Indian School Road

- Groundwater Characteristics:
  - ~55 feet below grade
  - Flow is to the south/southwest
  - <1.0 to 1,400 ppb PCE
    - (VCMW-4A, 8/2011)
  - Two separate groundwater contaminant plumes
- Groundwater was last sampled April 2012
  - March 2012: installed groundwater monitor well
  - PCE plume is still *undefined downgradient*



Plumes shown are of PCE in groundwater,  
as of July 2012





32nd Street and  
Indian School Road

Maroney's

Food City

Jamestown

**LEGEND:**

-  GROUNDWATER MONITORING WELL
-  NESTED GROUNDWATER MONITORING WELL
-  SALT RIVER PROJECT (SRP) PRODUCTION WELL
-  BUILDING



## PCE Results in Groundwater

**10/2008**

Maroney's:

<1.0 ppb in MMW-5 & MMW-6  
up to **180 ppb** in MMW-3

Former Viking:

2.1 ppb in SRP Well to  
540 ppb in VCMW-2

Fairmont Avenue:

VCMW-4A (1 well w/ 2 casings)  
(shallow/intermediate/deep)  
2,700 ppb/2,900 ppb/2,500 ppb  
VCMW-4B  
(shallow/intermediate/deep)  
35 ppb/30 ppb/33 ppb

(ppb = part per billion, ug/L)

**11/2010**

Maroney's:

<1.0 ppb in MMW-5 & MMW-6  
up to **240 ppb** in MMW-4

Former Viking:

2.3 ppb in SRP Well to  
69 ppb in VCMW-2

Fairmont Avenue:

VCMW-4A:  
1,100 ppb/980 ppb/1,200 ppb  
VCMW-4B:  
6.5 ppb/5.6 ppb/6.8 ppb

**8/2011**

Maroney's:

<1.0 ppb in MMW-5 & MW-6  
up to **120 ppb** MMW-3

Former Viking:

2.4 ppb in SRP Well to  
52 ppb in VCMW-2  
VCMW-5:  
1,100 ppb/470 ppb/470 ppb

Fairmont Avenue:

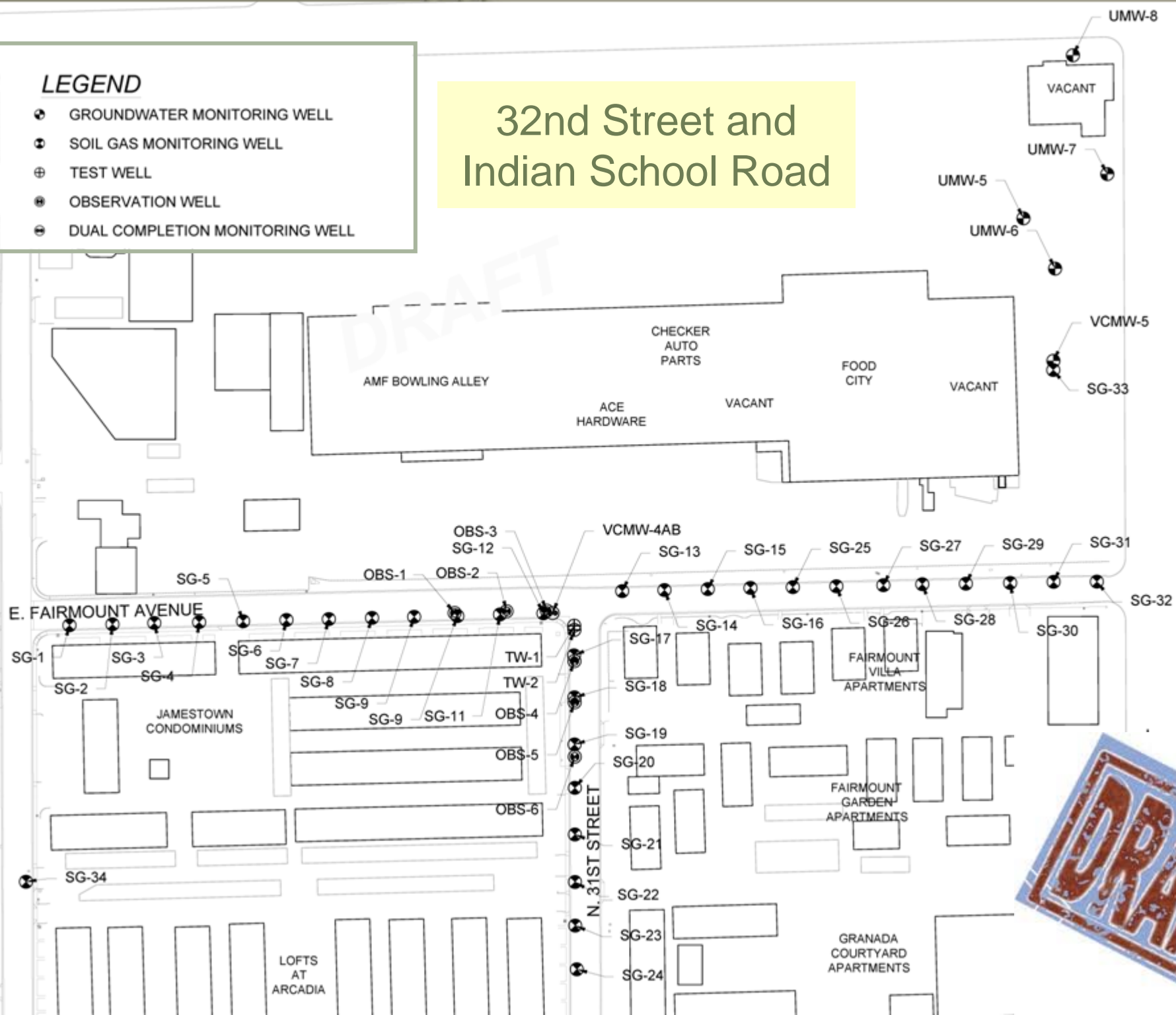
VCMW-4A:  
1,400 ppb/1,300 ppb/1,300 ppb  
VCMW-4B:  
6.7 ppb/6.8 ppb/6.1 ppb

2012 results (plus VCMW-6)  
to be reported in the next CAB meeting

## LEGEND

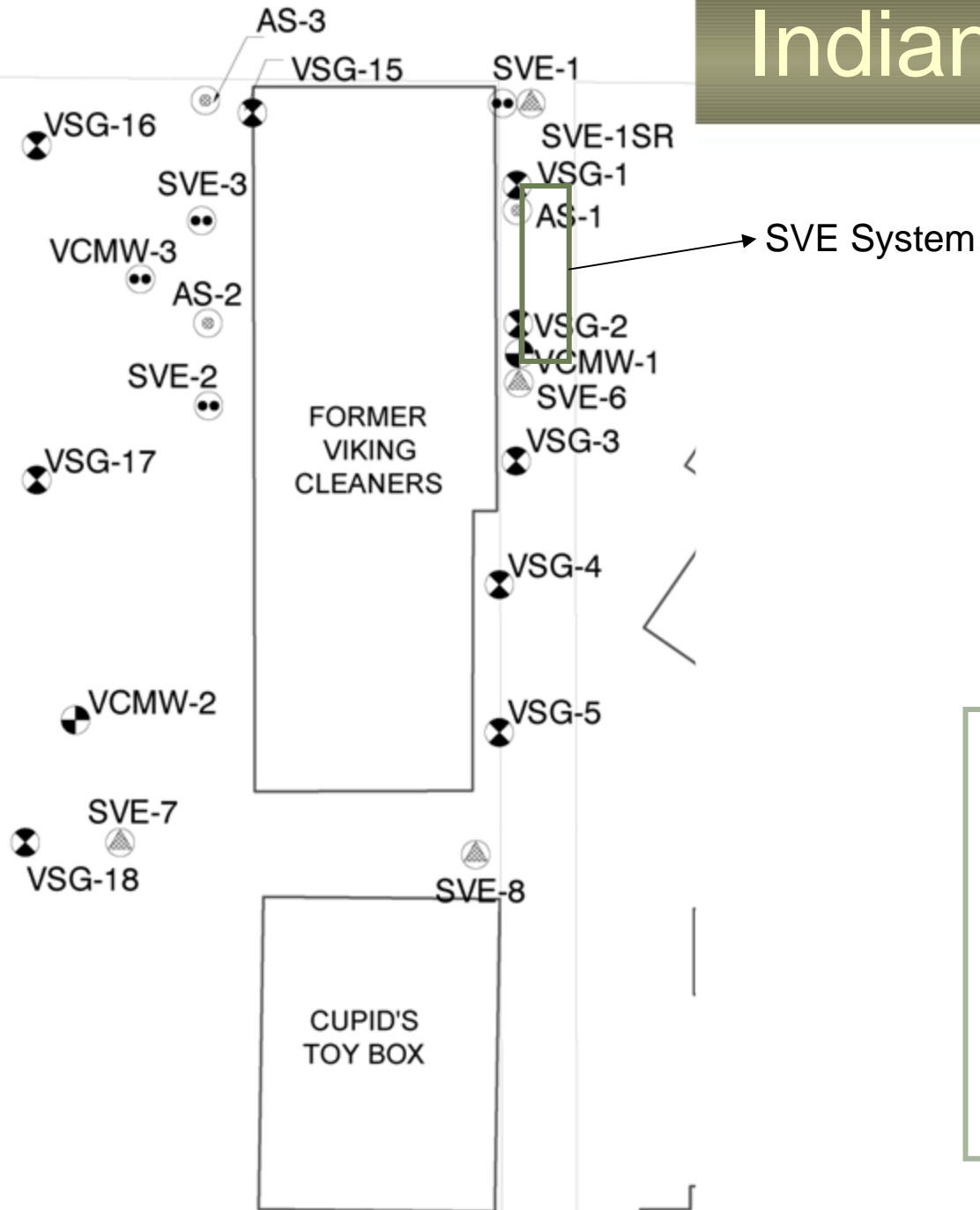
- ⊕ GROUNDWATER MONITORING WELL
- ⊙ SOIL GAS MONITORING WELL
- ⊕ TEST WELL
- ⊙ OBSERVATION WELL
- ⊕ DUAL COMPLETION MONITORING WELL

## 32nd Street and Indian School Road



# 32nd Street and Indian School Road

32ND STREET



**DRAFT**

## LEGEND

- GROUNDWATER MONITORING WELL
- NESTED GROUNDWATER MONITORING WELL
- SOIL GAS MONITORING WELL
- ABANDONED MONITORING WELL
- SRP WELL
- AIR SPARGE WELL
- PROPERTY LINE



# 32nd Street and Indian School Road



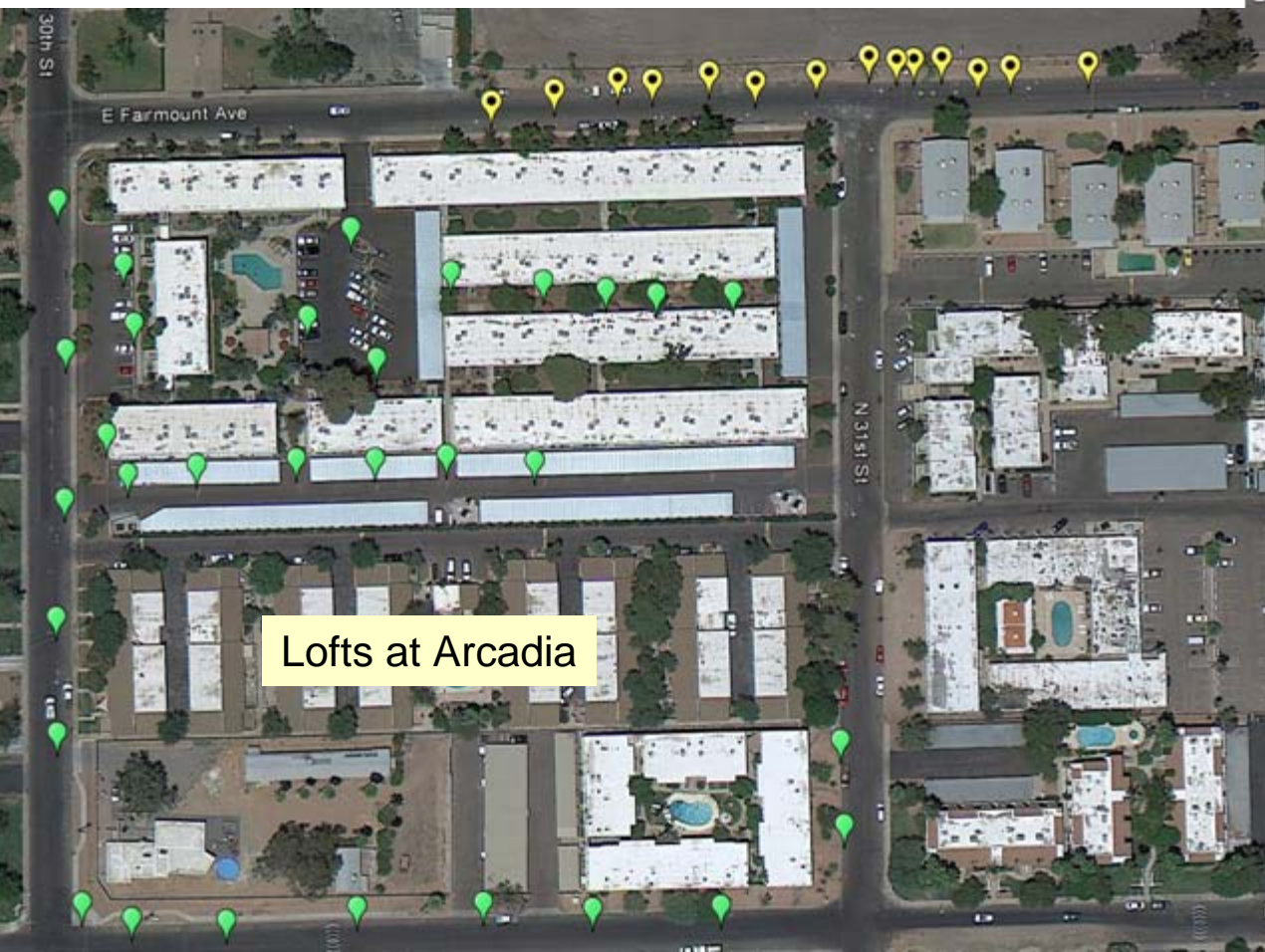
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The yellow pins are CPT  
locations.  
The green pins are soil vapor  
sampling locations.



## 32nd Street and Indian School Road

Food City





# 32nd Street and Indian School Road





## Maroney's SVE System – Construction



## Maroney's SVE System – Delivery

Section 3

Section 2

Section 1





## Maroney's SVE System – Placement

Section 2

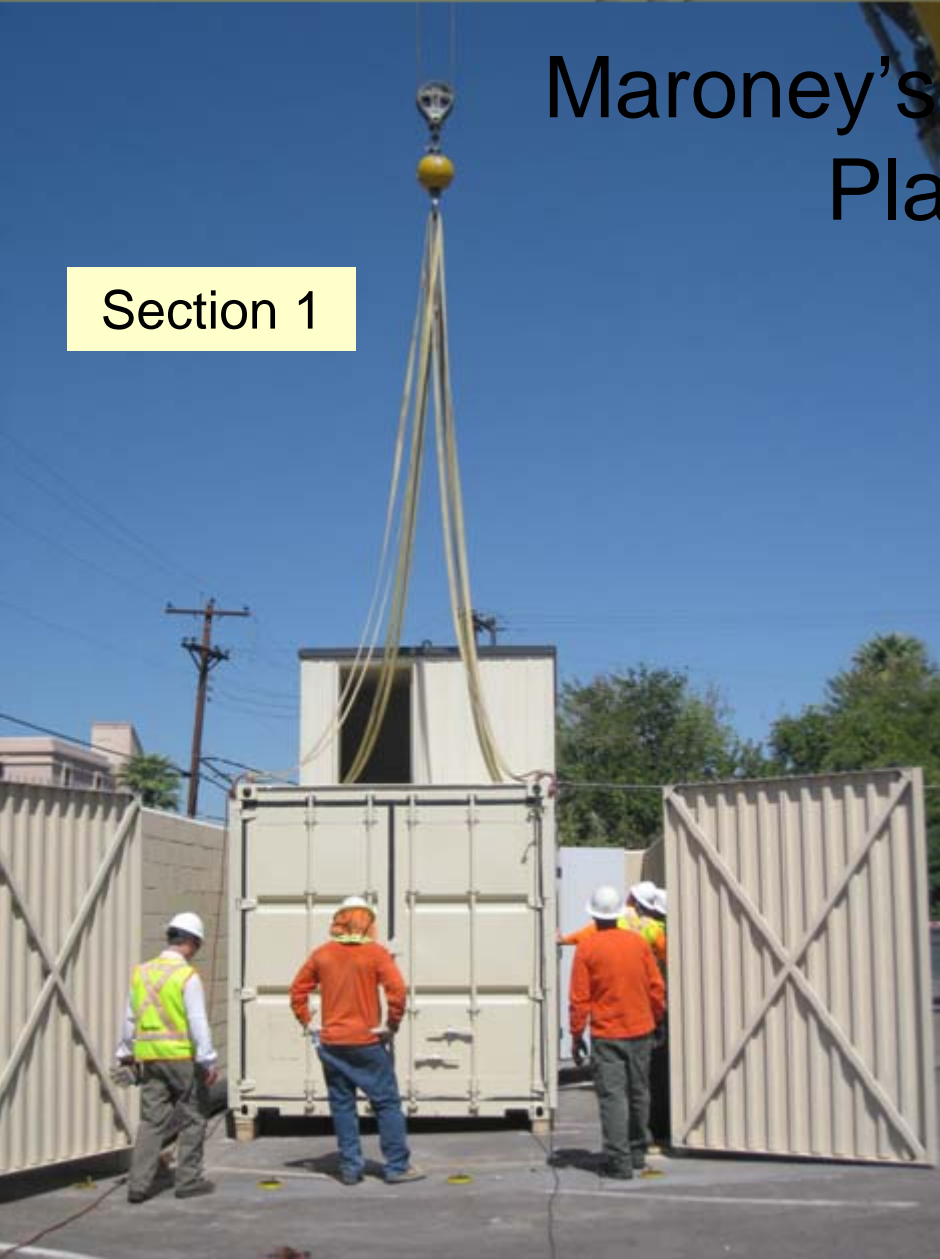


Section 3



## Maroney's SVE System – Placement

Section 1



Section 3





## Maroney's SVE System – All “Buttoned Up”





# 48th Street and Indian School Road

- Groundwater Characteristics:
  - ~33 feet below grade
  - Flow is to the southwest
  - <1.0 ppb to 1,400 ppb
    - (SMW-3, 10/2011)
  - One groundwater contaminant plume
- Groundwater was last sampled March/April 2012
  - March 2012: installed groundwater monitor well
  - PCE plume is still *undefined downgradient*



Plume shown is of PCE in groundwater,  
as of July 2012





Safeway

Arcadia High school

**LEGEND:**

-  GROUNDWATER MONITORING WELL
-  SOIL VAPOR MONITORING WELL
-  NESTED GROUNDWATER MONITORING WELL
-  SALT RIVER PROJECT (SRP) PRODUCTION WELL
-  BUILDING

48th Street and Indian School Road

## PCE Results in Groundwater

### 10/2008

<1.0 ppb in SMW-2,  
SMW-3-138, SMW-5,  
ECP2, and ECP3

1.3 ppb in SMW-1  
6.3 ppb SMW-4-31  
**33 ppb** SMW-3-59.5

### 6/2010

<1.0 ppb in SMW-1,  
SMW-2, SMW-3-138,  
SMW-5, ECP-2, and ECP-3

4.3 ppb SMW-4-34  
**370 ppb** SMW-3-59.5

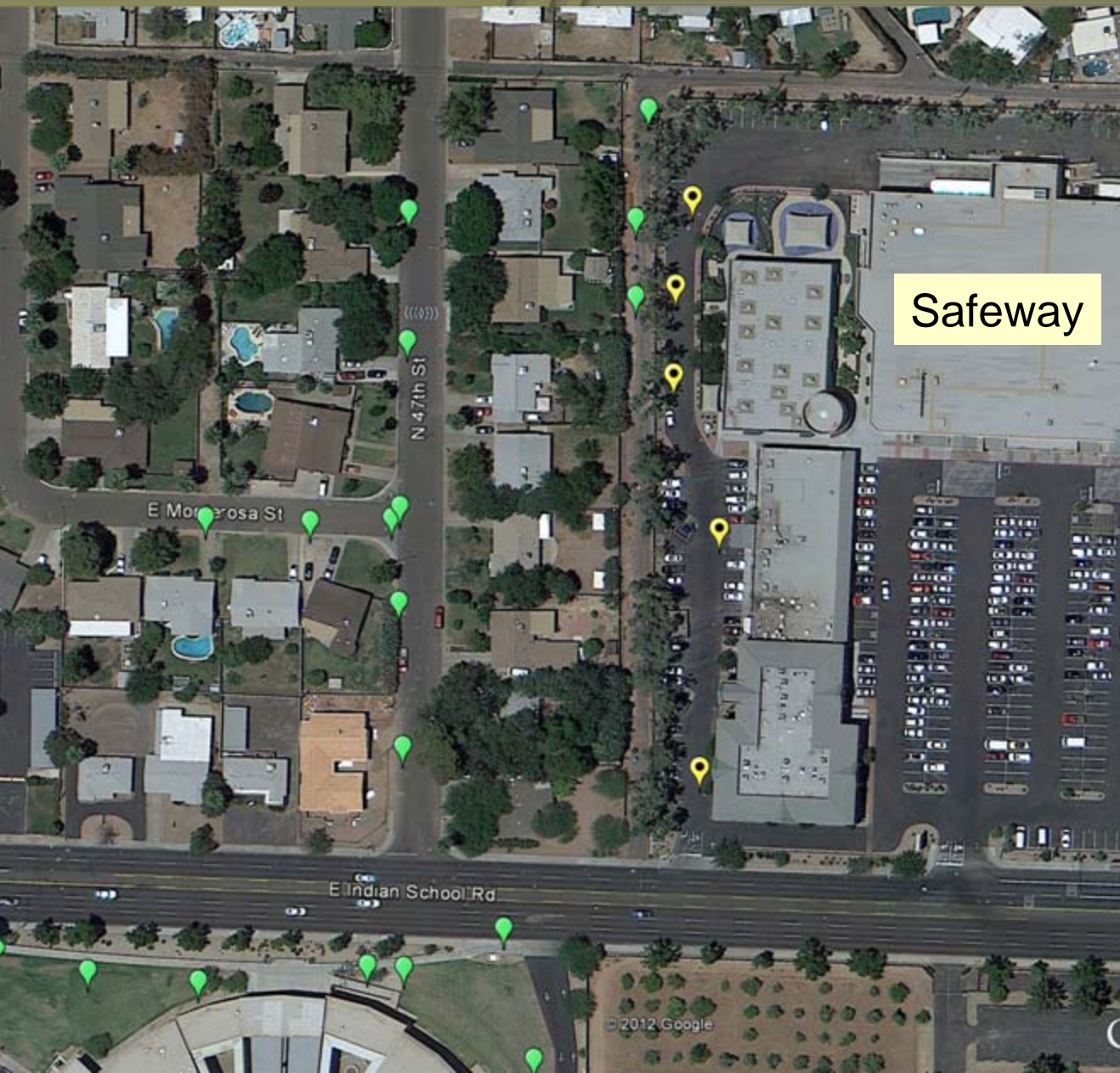
### 10/2011

<1.0 ppb in SMW-1,  
SMW-2, SMW-3-138,  
ECP-2, and ECP-3

6.9 ppb SMW-4-34  
2.1 ppb SMW-5-34  
**1,400 ppb** SMW-3-59.5

2012 results  
(plus SMW-6, -7, -8)  
to be reported in the next CAB meeting

# 48th Street and Indian School Road



The yellow pins are CPT  
locations.  
The green pins are soil vapor  
sampling locations.



## 48th Street and Indian School Road



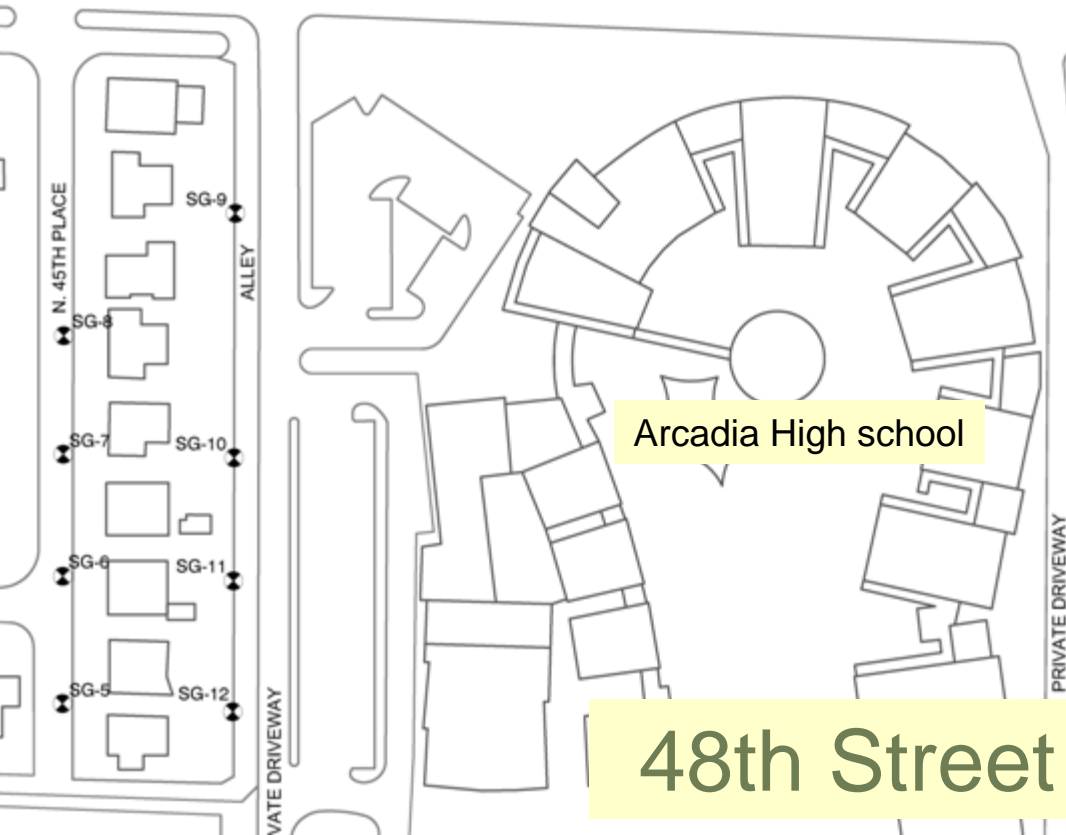
Arcadia  
High  
School





Safeway

E. INDIAN SCHOOL ROAD



Arcadia High school



**LEGEND:**



SOIL VAPOR MONITORING WELL



BUILDING



48th Street and Indian School Road





DRAFT

**LEGEND:**

-  SOIL VAPOR EXTRACTION WELL
-  BUILDING

48th Street and Indian School Road



## 32nd Street and Indian School Road

- Groundwater Monitoring
- Groundwater Monitor Well Installatio
- Soil Vapor Monitoring
- SVE Systems
- Property Access



## 48th Street and Indian School Road

- Groundwater Monitoring
- Groundwater Monitor Well Installation
- Soil Vapor Monitoring
- SVE System
- Property access



## As a CAB member, what can you do to help?

- Share information with neighbors, groups, and friends about the Site
- Communicate questions or concerns with ADEQ
- Call Wendy, or Danielle, with questions or suggestions
  - What do you want to know or learn?
- Keep attending CAB meetings!







## Questions?

Danielle Taber  
Project Manager  
(602) 771-4414  
[dt3@azdeq.gov](mailto:dt3@azdeq.gov)

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