East Central Phoenix Water Quality Assurance Revolving Fund (WQARF) Sites Community Advisory Board

Thursday, April 27, 2017
6 p.m. to 8 p.m.
Arcadia High School – Mt. Olympus Room
4703 E. Indian School Road, Phoenix, AZ 85018

MEETING MINUTES

CAB members present**:** Randy Dahl, Karen Kay, Ed Rhodes, Jolene Morris, Jacalyn Askin and Nathan Nelson

ADEQ Staff in attendance: Mel Bunkers, Project Manager; Isabel Gutierrez, CIC

Members of the public present: Laura Menken, Hargis + Associates, Inc.; Chris Legg, Hargis + Associates, Inc.; and Kirk Craig, Geosyntec Consulting.

Call to Order and Welcome and Introductions – CAB decided to skip introductions, meeting called to order at 6:05 pm.

Accept and /or changes to the minutes of the September 8, 2016 meeting– No changes requested, Mr. Randy Dahl moved, Ms. Karen Kay seconded; motion approved.

Presentation and discussion regarding activities for all six ECP WQARF Sites (see attached presentation) – Mr. Mel Bunkers informed the CAB that plume sizes have changed since the last CAB meeting. The reason being investigations have shown that the plume size is actually larger than originally thought, especially with the drilling of deeper wells. Mr. Bunkers explained the changes for each of the sites. Additionally, Mr. Bunkers covered information for each site, including activities and results since the last CAB meeting, photos and proposed future activities.

24th Street and Grand Canal – Mr. Bunkers provided a brief summary of changes to the site, results of the treatment system and upcoming activities.

32nd Street and Indian School – Mr. Bunkers provided a summary of past site changes and activities including completed indoor air sampling at five residences, as requested by the Arizona Department of Health Services (ADHS). He also summarized the plumes changes since the last meeting and activities for the upcoming year and the two treatment systems: Maroney's and Viking.

Mr. Nelson asked about the effect of the nearby leaking underground storage tanks (LUST) sites on the WQARF site(s). Mr. Bunkers stated it has enabled more adjustments with the wells, treatment system does go through carbon faster and further discussion was held.

Mr. Bunkers informed the CAB that ADHS has flyers on their web site about the indoor air causes related to the 32nd Street Indian School site. Ms. Morris asked who on the CAB could post a link to the information on the Nextdoor.com. Mr. Nelson (??) stated he could.

Mr. Bunkers stated, in regard to the development around the site, wells have been moved and protected, the developers have been in contact with ADEQ. ADEQ has also been accommodating to the business regarding work at the site.

38th Street and Indian School – Mr. Bunkers provided a summary of site changes and upcoming activities. The Draft Feasibility Study (FS) was completed yet sampling results have required more investigations.

40th Street and Indian School – Mr. Bunkers provided a brief summary of changes, upcoming site activities and indicated this site is in the FS Phase, the draft report was submitted. ISCO was used at this site and Mr. Bunkers further explained the process and how it works to speed up the process. ADEQ is looking at removing this site from the WQARF Registry.

40th Street and Osborn – Mr. Bunkers provided a site summary and upcoming activities. He indicated this sites plume is larger than originally thought. The site is still in the RI Phase and investigations will be done to determine if it is connected to another site.

48th Street and Indian School – Mr. Bunkers provided a brief summary of site changes and upcoming activities. This site is still in the RI phase.

Mr. Dahl asked why they think the deeper extent is being found. Mr. Bunkers explained the geology at the site as the reason.

Mr. Bunkers stated that 40th and Indian School and 40th and Osborn have been given priority, followed by 24th and Grand Canal and 32nd and Indian School. Mr. Bunkers and the CAB discussed site well drilling and the hydrology and geology of the sites.

Mr. Bunkers did say that a new community involvement area is being drafted due to the plume changes. There will be a mailing and a campaign for getting new CAB members.

Update on Indoor Air Sampling
Included in above presentation

Update on CVS SVE system design and construction
Included in above presentation.

Charter review and discussion concerning board membership meeting frequency

Ms. Morris stated in the past it was discussed that the site dictate the meeting frequency not the charter. No changes made or needed.

Possible nomination of Co-Chairs
Ms. Morris nominated Mr. Nathan Nelson to be a Co-Chair and to take her place, Mr. Ed Rhoades seconded; Motion passed.

Next meeting date and agenda topics –

- The CAB discussed meeting in October. Ms. Morris asked those that have questions on this presentation to let ADEQ know so they can be incorporated in next meeting. Mr. Bunkers said there will be an FS completed and possible WQARF site removal information.
- Ms. Morris asked to verify quorum in order to vote on new CAB members at the next meeting. Mr. Dahl inquired about members who had missed 2 or more meetings and agreed to inquire about getting more members.
- Ms. Isabel Gutierrez and the CAB discussed recruitment of CAB members, posting on community pages like Nextdoor and outreach. Ms. Morris asked CAB members to post on said pages and use

such resources and to discuss more at the next meeting. She asked to have the zip codes of the site available for the next meeting.

Adjournment

Ms. Morris motioned to adjourn and Mr. Rhoades seconded the motion. Meeting adjourned.

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

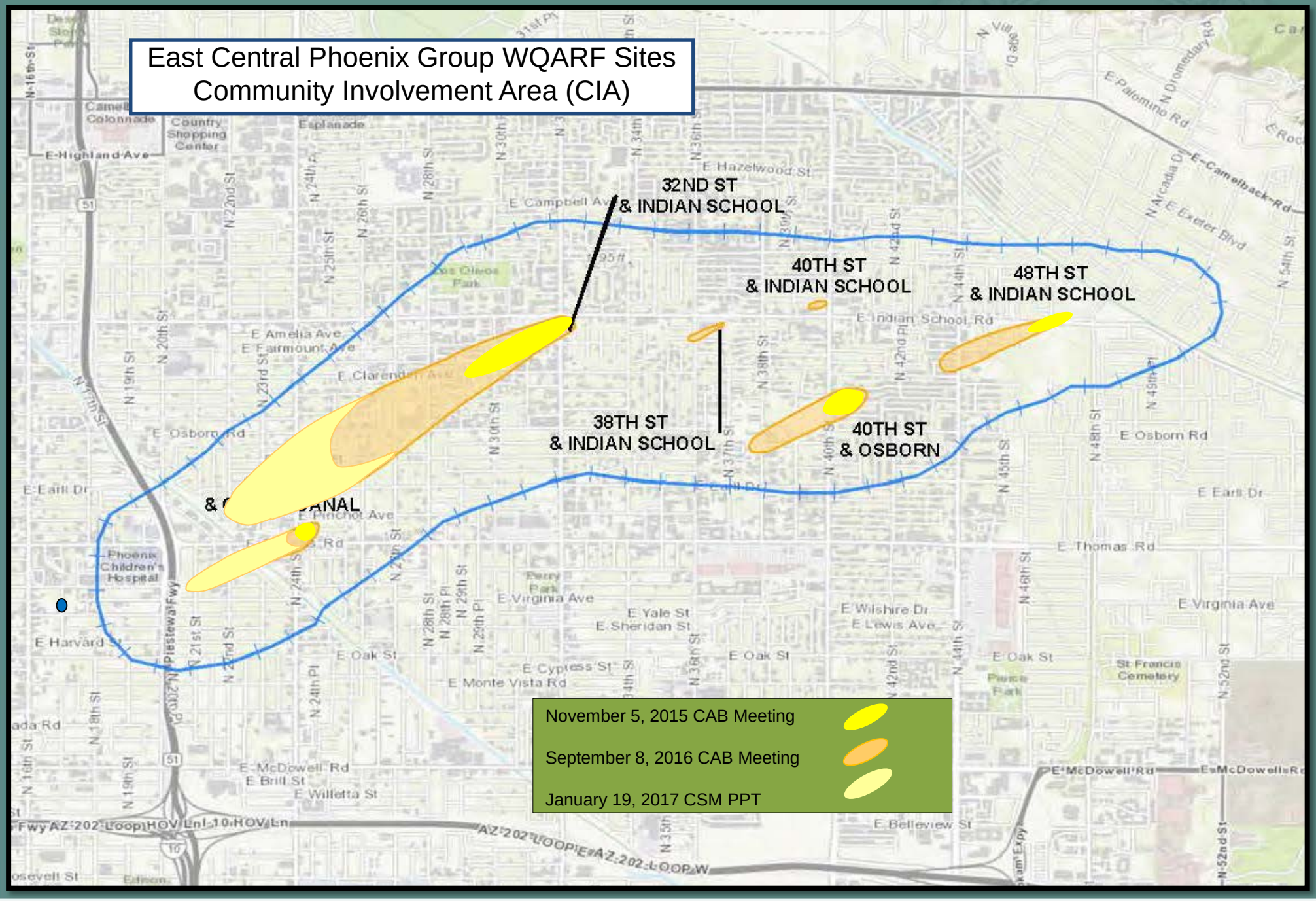
Six Sites Data & Activity Update

Community Advisory Board Meeting

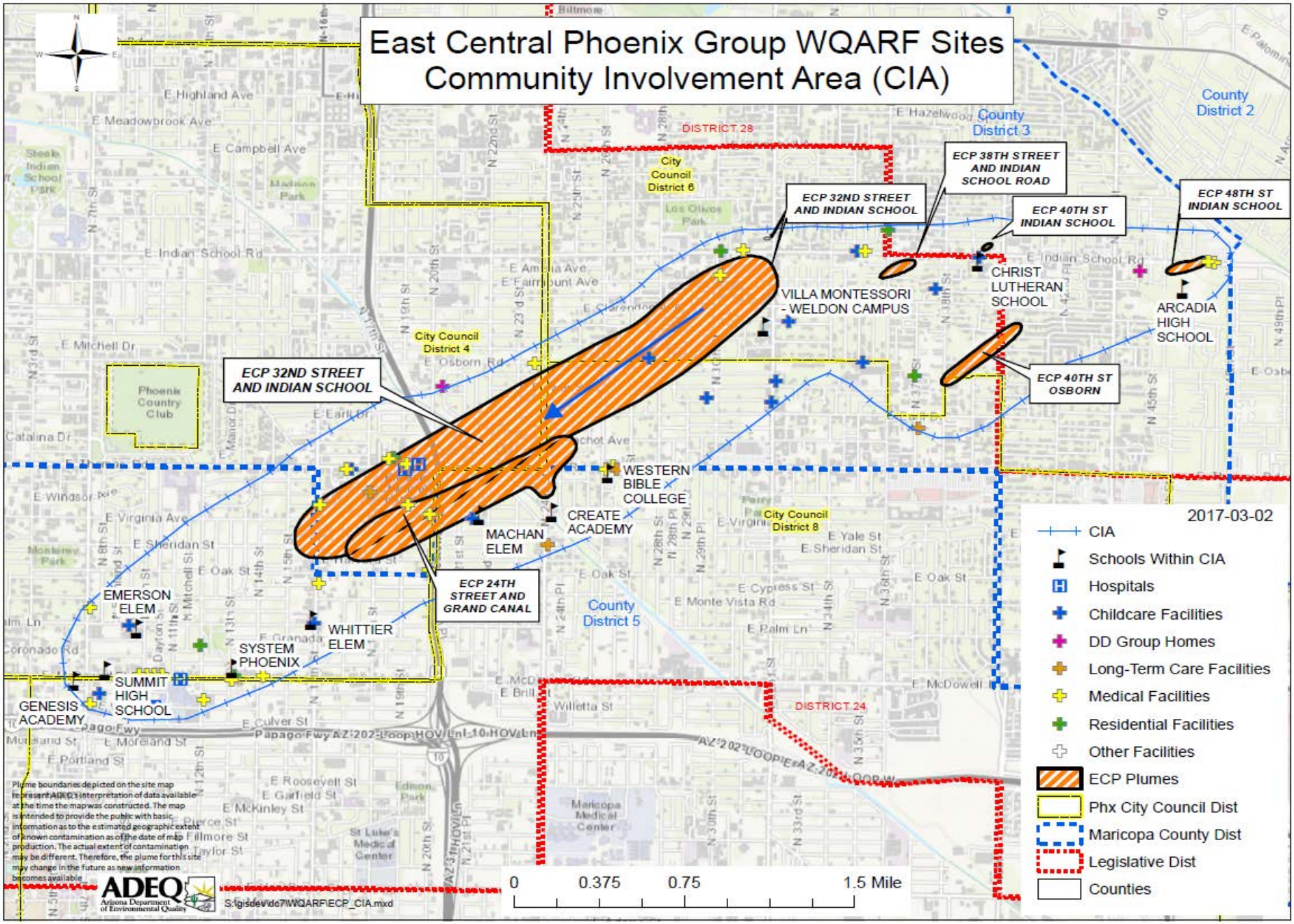
April 27, 2017

ADEQ
Arizona Department of Environmental Quality

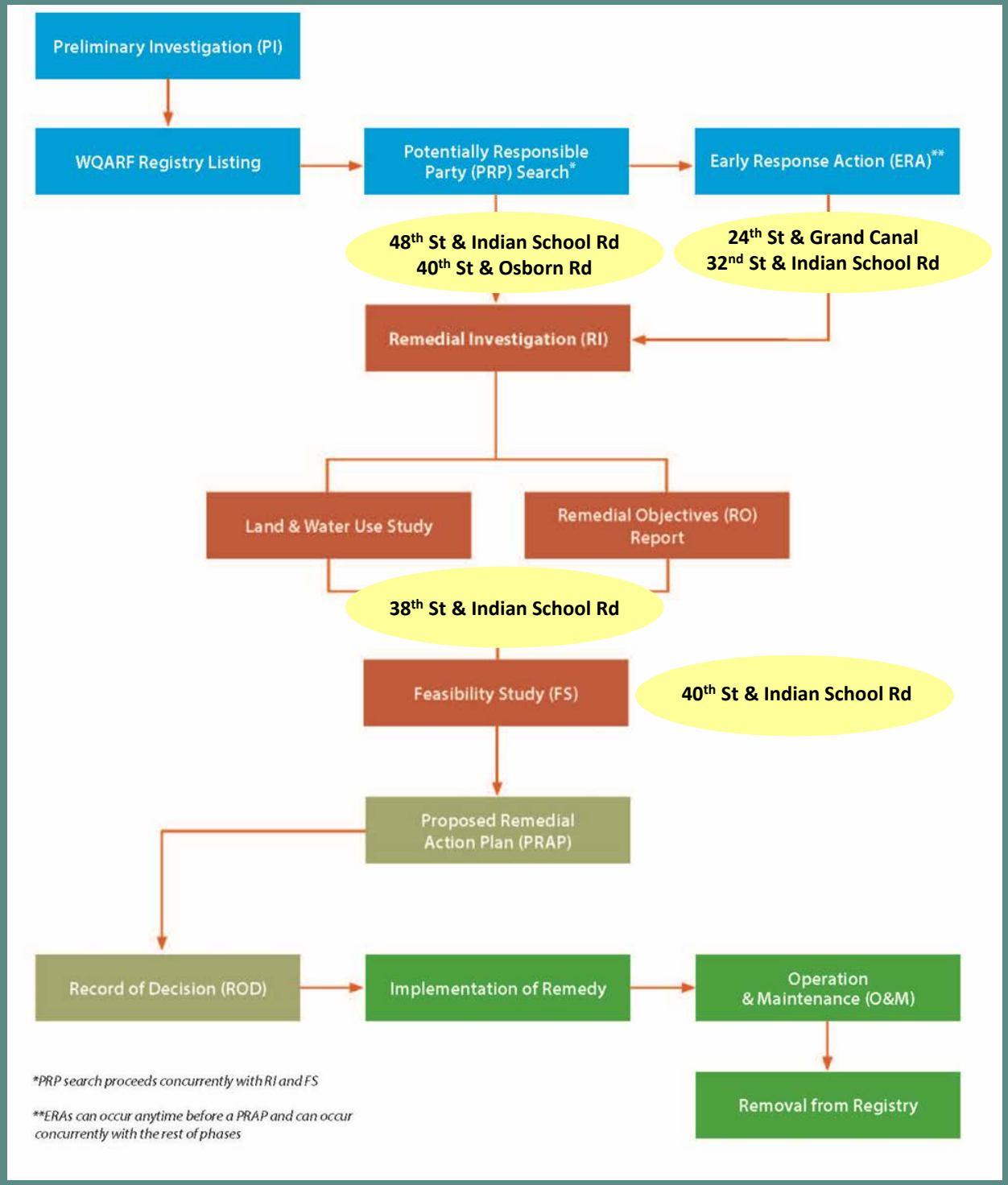
ECP WQARF SITE EVOLUTION



NEW COMMUNITY INVOLVEMENT AREA



WQARF PROGRAM PHASES



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24TH ST & GRAND CANAL

Problem Definition Statement:

- Groundwater (GW) at the site is contaminated with tetrachlorethene (PCE) above Aquifer Water Quality Standards (AWQS) in a plume and merges with the 32nd St & Indian School Rd (IS) plume. Soils at the site are contaminated with PCE in soil vapor (SV) in the vicinity of the CVS Pharmacy building.

24TH ST & GRAND CANAL

Source Area/Potential Responsible Parties:

- Thriftway Laundry & Cleaners (dba McKean's Model Laundry & Dry Cleaning) 1949 to 1963
- ABC Cleaners (dba AZ Best 1-Hour Cleaners and Carnation 1-Hour Cleaners) 1986 to 2008.

Project Status: Currently in the remedial investigation (RI) phase with an early response action (ERA) for soil vapor (SV) treatment, optimization and permit modification for elevated hydrocarbons concentrations from adjacent leaking underground storage tank (LUST) sites.

ADEQ Arizona Department of Environmental Quality

Recent Work: Soil Vapor

- **July 2016:** SVE system startup then postponed due to electrical & mechanical issues. Startup in September 2016.
- **August 2016:** Site-wide soil vapor monitoring event
- **November 2016:**
  - System shutdown due to a volatile organic compounds (VOCs) concentration spike: determined to be primarily petroleum hydrocarbons, from neighboring LUST site.
  - Minor air permit modification due to hydrocarbons. Higher discharge limits obtained. Restart allowed without need for granular activated carbon (GAC) change-out.
- **July – April 2017:** performed routine operation & management (O&M), sampling, and submitted required reports to Maricopa County.
- ERA SVE System operating intermittently since July 2016, approximately 175 pounds of VOCs removed, reducing VOCs in SV.
- Soil vapor PCE concentrations consistent with previous monitoring; PCE ranging from <1.0 µg/l to 2,900 µg/l.

24TH ST & GRAND CANAL SVE SYSTEM

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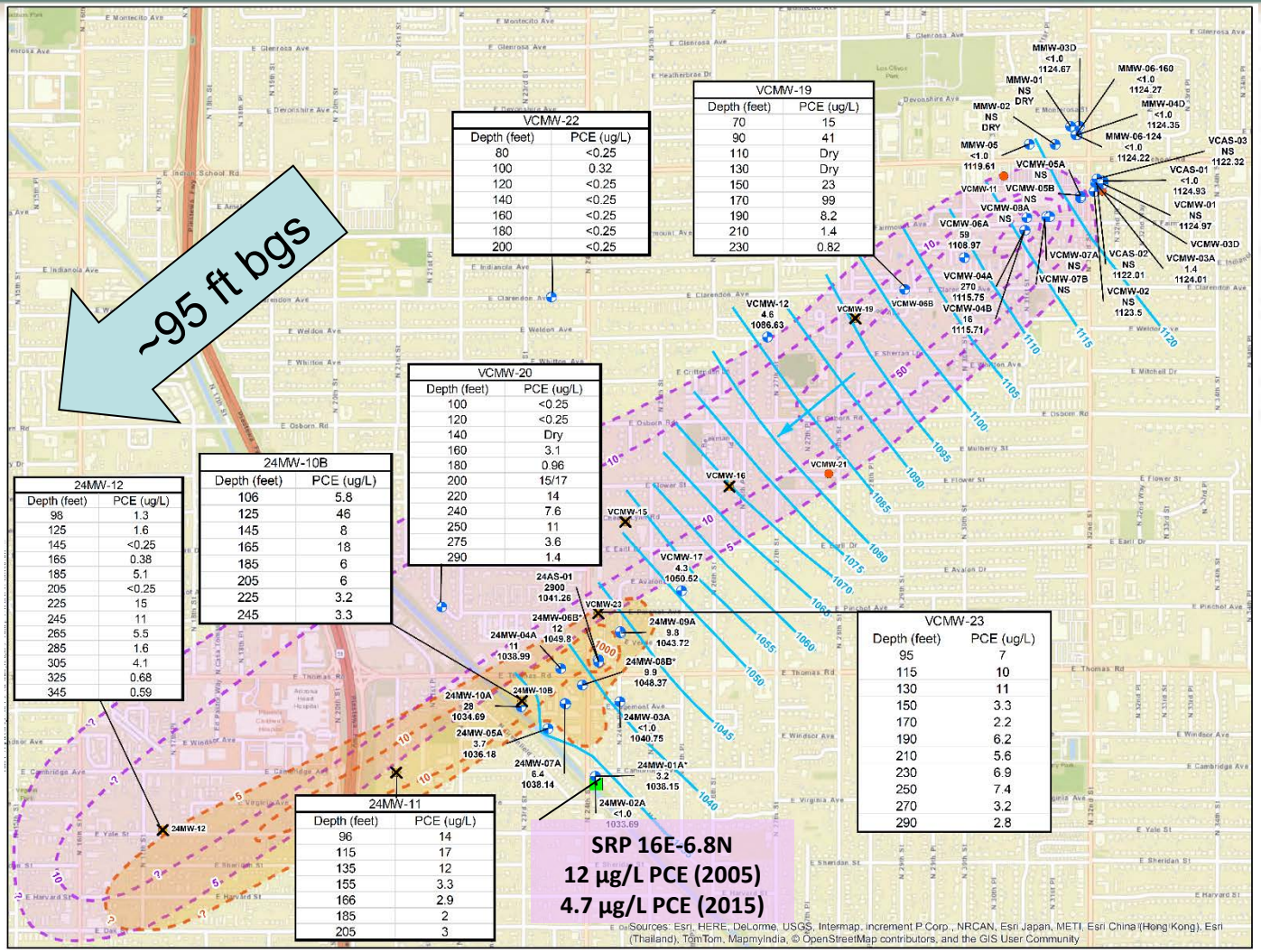
Arizona Department of Environmental Quality

August 2016 GW Monitoring:

- Water levels are consistent and direction of groundwater movement is southwest.
- PCE in GW detected greater than the AWQS at six GW wells.

24th St & Grand Canal



VCMW-22	
Depth (feet)	PCE (ug/L)
80	<0.25
100	0.32
120	<0.25
140	<0.25
160	<0.25
180	<0.25
200	<0.25

VCMW-19	
Depth (feet)	PCE (ug/L)
70	15
90	41
110	Dry
130	Dry
150	23
170	99
190	8.2
210	1.4
230	0.82

VCMW-20	
Depth (feet)	PCE (ug/L)
100	<0.25
120	<0.25
140	Dry
160	3.1
180	0.96
200	15/17
220	14
240	7.6
250	11
275	3.6
290	1.4

24MW-10B	
Depth (feet)	PCE (ug/L)
106	5.8
125	46
145	8
165	18
185	6
205	6
225	3.2
245	3.3

24MW-12	
Depth (feet)	PCE (ug/L)
98	1.3
125	1.6
145	<0.25
165	0.38
185	5.1
205	<0.25
225	15
245	11
265	5.5
285	1.6
305	4.1
325	0.68
345	0.59

24MW-11	
Depth (feet)	PCE (ug/L)
96	14
115	17
135	12
155	3.3
166	2.9
185	2
205	3

VCMW-23	
Depth (feet)	PCE (ug/L)
95	7
115	10
130	11
150	3.3
170	2.2
190	6.2
210	5.6
230	6.9
250	7.4
270	3.2
290	2.8

- Groundwater Monitor Well Location
- Boring Location - abandoned
- Propsed Groundwater Boring Location
- SRP Production Well Location

1123 Groundwater elevation (in feet above mean sea level)

Groundwater Elevation Contour (in feet above mean sea level)

Estimated Direction of Groundwater Flow

Groundwater Depression Contour

89 August 2016 PCE concentration (in micrograms per liter)

Estimated Area where PCE at 32nd/IS greater than 5 micrograms per liter in groundwater

Estimated Area where PCE at 24th/GC greater than 5 micrograms per liter in groundwater

Dashed where inferred, queried where uncertain.

NS Not sampled

Dry No measurable water in well

ug/L micrograms per liter

Note: estimated plumes generated including data obtained from sampling in abandoned borings.

* Monitor well not used for groundwater elevation contouring

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Upcoming Work:

Complete RI field work during fiscal year 2017 (FY17) and FY18, to include:

- Continued operation of ERA SVE system; evaluate SVE optimization alternatives
- Additional GW well installation and monitoring to further define PCE plume and commingling with ECP 32nd St & Indian School plume.
- GW monitoring event in the Spring for new wells.
- Evaluate source and extent of petroleum hydrocarbon impacts from nearby LUST sites.

32ND ST & INDIAN SCHOOL RD

ADEQ Arizona Department of Environmental Quality

Problem Definition Statement:

- GW at the former Viking site is contaminated with PCE and TCE above AWQS in a and merges with the 24th St & Grand Canal plume.
- Soils at the Maroney site are contaminated with PCE in SV ranging up to 190,000 µg/m^3 in the vicinity of the Maroney's drycleaner building.
- Soils at the former Viking site are contaminated with PCE in SV ranging up to 21,000 µg/m^3 in the vicinity of the JC Printing building.

32ND ST & INDIAN SCHOOL RD

ADEQ Arizona Department of Environmental Quality

Source Area/PRPs:

- Maroneys drycleaner; 1961 - present.
- Former Viking drycleaner (JC Printing); 1973 to 2001

Project Status:

- RI phase with ERA for SV treatment at both Maroneys and Viking;
- Maroneys evaluation for optimization prior to resuming full-time operation.
- Viking evaluation for optimization and permit modification for elevated hydrocarbon concentrations from adjacent LUST sites.
- Indoor air resampling scheduled at 5 residences for August 28; ADHS finalized Indoor Air Health Consultation – PCE below standards, elevated TCE concentrations are not due to vapor intrusion.

32ND ST & INDIAN SCHOOL RD - MARONEYS

ADEQ Arizona Department of Environmental Quality

Recent Work: SVE System

- **August 2016:** Shutdown SVE system as part of rebound test.
- **September 2016:** Collected samples to determine how the system rebounded; data indicated nearly full rebound.
- **October 2016:**
  - Cancelled second rebound test due to previous rebound results. Made plans for system optimization.
  - Hazardous Waste Unit site inspection. No ongoing releases observed.
- Geosyntec recommended additional site characterization, primarily under the building. Additional SVE wells within source may be recommended based on results.

32ND ST & INDIAN SCHOOL RD - VIKING

ADEQ Arizona Department of Environmental Quality

Recent Work: SVE System

- **September 2016:** System shutdown due to a VOC concentration spike: determined to primarily be total petroleum hydrocarbon (TPH) soil vapor impacts from neighboring LUST site(s).
- **October 2016:** Performed carbon changeout and system restarted. Flow balancing performed to exclude wells with high TPH (low PCE).
- **November 2016:** Shut down due to new permit exceedance. TPH was still passing through GAC (while low PCE detections in influent).
- **December 2016:** Filed for minor air permit mod with new conditions that address hydrocarbons. Higher discharge limits obtained. Restart allowed without need for GAC changeout.
- ERA SVE System operating intermittently since July 2014, approximately 172 pounds of VOCs removed, reducing VOCs in SV and in JC Printing's indoor air.

Recent Work: Groundwater

- August 2016 groundwater sampling
- October 2016 installed deep well VCMW-03D at Viking Cleaners – PCE concentrations below AWQS. Drilled VCMW-19, monitor well VCMW-20, monitor well VCMW-22 and VCMW-23.

32ND ST & INDIAN SCHOOL RD

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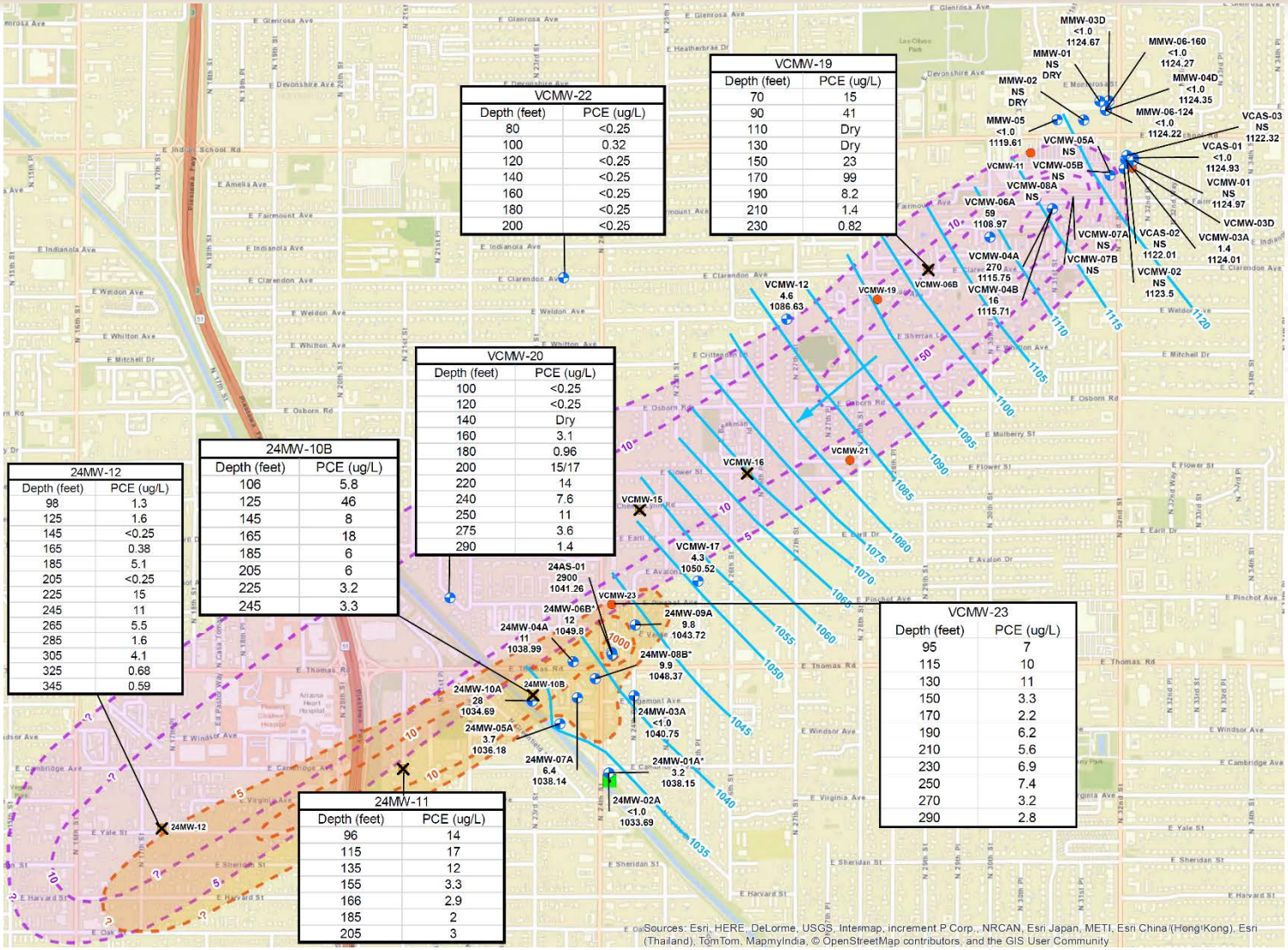

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24MW-11	
Depth (feet)	PCE (ug/L)
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166	2.9
185	2
205	3

Groundwater Monitor Well Location

Boring Location - abandoned

Propsed Groundwater Boring Location

SRP Production Well Location

1123 Groundwater elevation (in feet above mean sea level)

Groundwater Elevation Contour (in feet above mean sea level)

Estimated Direction of Groundwater Flow

Groundwater Depression Contour

89 August 2016 PCE concentration (in micrograms per liter)

Estimated Area where PCE greater than 5 micrograms per liter in groundwater

Dashed where inferred, queried where uncertain.

NS Not sampled

Dry No measurable water in well

ug/L micrograms per liter

Note: estimated plumes generated including data obtained from sampling in abandoned borings.

* Monitor well not used for groundwater elevation contouring

Upcoming Work at Maroneys:

- Additional site characterization (vertical & lateral)
- Optimize and fully start SVE system. Drill potential deep GW well to determine PCE concentrations at depth in source area.
- Drill VCMW-11 between Maroney and Viking plume to see if plumes are connected.
- Periodic GW and SV monitoring.

Upcoming Work at Viking:

- SVE system optimization.
- Additional GW wells to further define vertical & lateral extent of plume.
- Drill VCMW-11 between Maroney and Viking plume to see if plumes are connected.
- Periodic GW and SV monitoring.
- Source and extent of hydrocarbon impacts.

Problem Definition Statement:

- Groundwater at the site is contaminated with PCE above AWQS in a plume. Soils at the site are contaminated with PCE in SV ground surface below ground surface in the vicinity of the former Rose Formal Wear drycleaner building.

38TH ST & INDIAN SCHOOL RD

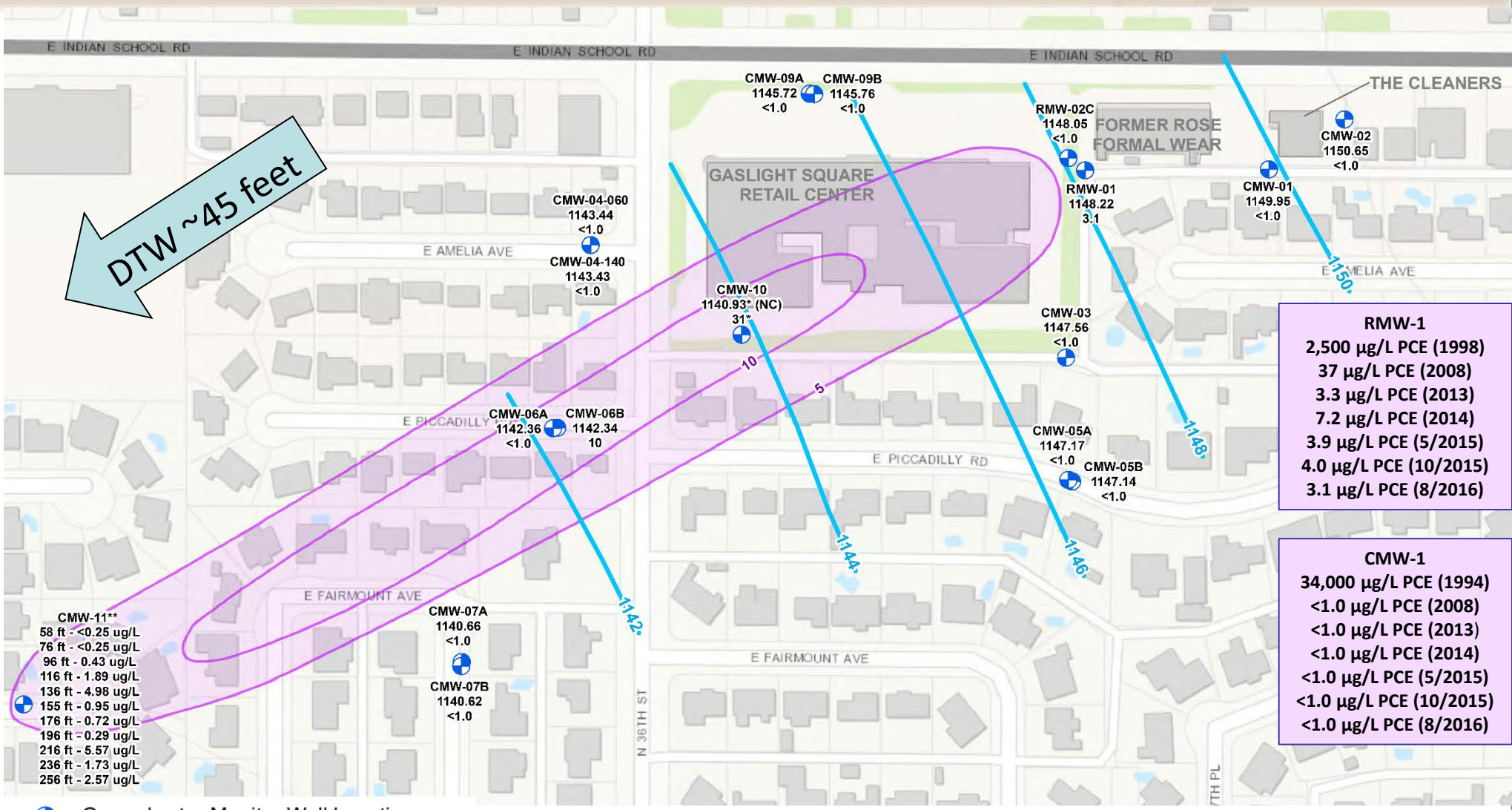
Source Area/PRPs: Former Dry Cleaners

- Norgetown/The Cleaners 1973 to 1992/1993.
- Rose Formal Wear 1983 to 1986.

Project Status: RI Report finalized April 2015, FS work plan completed; Draft FS report completed FY16 with data gap identified in deep GW at source area. Well CMW-10 in source area found PCE of 31 µg/L. Completed well CMW-11 with additional drilling planned downgradient to define the vertical & lateral extent.

38th St & Indian School Rd

ADEQ Arizona Department of Environmental Quality



Groundwater Monitor Well Location

1150 Groundwater elevation (in feet above mean sea level)

Groundwater Elevation Contour (in feet above mean sea level)

Estimated Direction of Groundwater Flow

<1.0 August 2016 PCE concentration (in micrograms p

Estimated Area where PCE greater than 5 micrograms per liter in groundwater

Note: Water levels collected on August 25, 2016.

* Water level and concentrations collected during drilling

** Concentrations collected during drilling March 2017

NC not used in contouring

38TH ST & INDIAN SCHOOL RD

Recent Work: Soil Vapor

- April 2015 – PCE in SV ranging from 320 µg/m^3 to 540 µg/m^3 (~10-18.5 feet bgs).

Recent Work: GW

- November 2016 - CMW-10 PCE was detected at 110 feet bgs at 31 µg/L. and 6.3 µg/L at 205 feet bgs. Screened from 90-120 feet bgs.
- April 2017 – CMW-11 PCE was detected at 136 feet bgs at 4.98 µg/L. and 5.57 µg/L at 216 feet bgs. Screened from 210-250 feet bgs.

38TH ST & INDIAN SCHOOL RD

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Upcoming Work:

- Additional GW well installation and monitoring to further define PCE plume.
- Complete FS report

Problem Definition Statement:

- Groundwater at the site is contaminated with PCE below the AWQS in a small plume. Soils at the site are contaminated with PCE in SV between the former Allen's Cleaners and Kachina Cleaners buildings.

Kachina Cleaners

Former Allen's Cleaners

40TH ST & INDIAN SCHOOL RD

Source Area/PRPs: Former Dry Cleaners

- Former Allen's Cleaners 1969 to 1989
- Kachina Cleaners 1959 to the present
- Arcadia Cleaners

Project Status: RI Report finalized April 2015, recommended monitored natural attenuation (MNA); FS work plan completed; Draft FS Report completed in June 2016, Final FS report and delisting package is almost finalized.

Recent Work: Soil Vapor

- April 2015 – PCE in SV ranged from 320 µg/m^3 to 2,700 µg/m^3 in (~22-25 feet bgs).
- Former SVE/AS system operated 2004-2005; removed 33 lbs PCE.

Recent Work: GW

- August 2016 PCE in GW ranged from <1.0 µg/L to 4.8 µg/L .
- PCE >AWQS at single well KMW-01, all other wells <AWQS or non-detect.
- Sept 2016 drilled & abandoned deep boring KMW-08 at Kachina Cleaners. No PCE detected. Filled data gap.
- February 2017 ISCO injection at single well KMW-01.
- April 2017 sampled ISCO injected well KMW-01, non-detect

40TH ST & INDIAN SCHOOL RD

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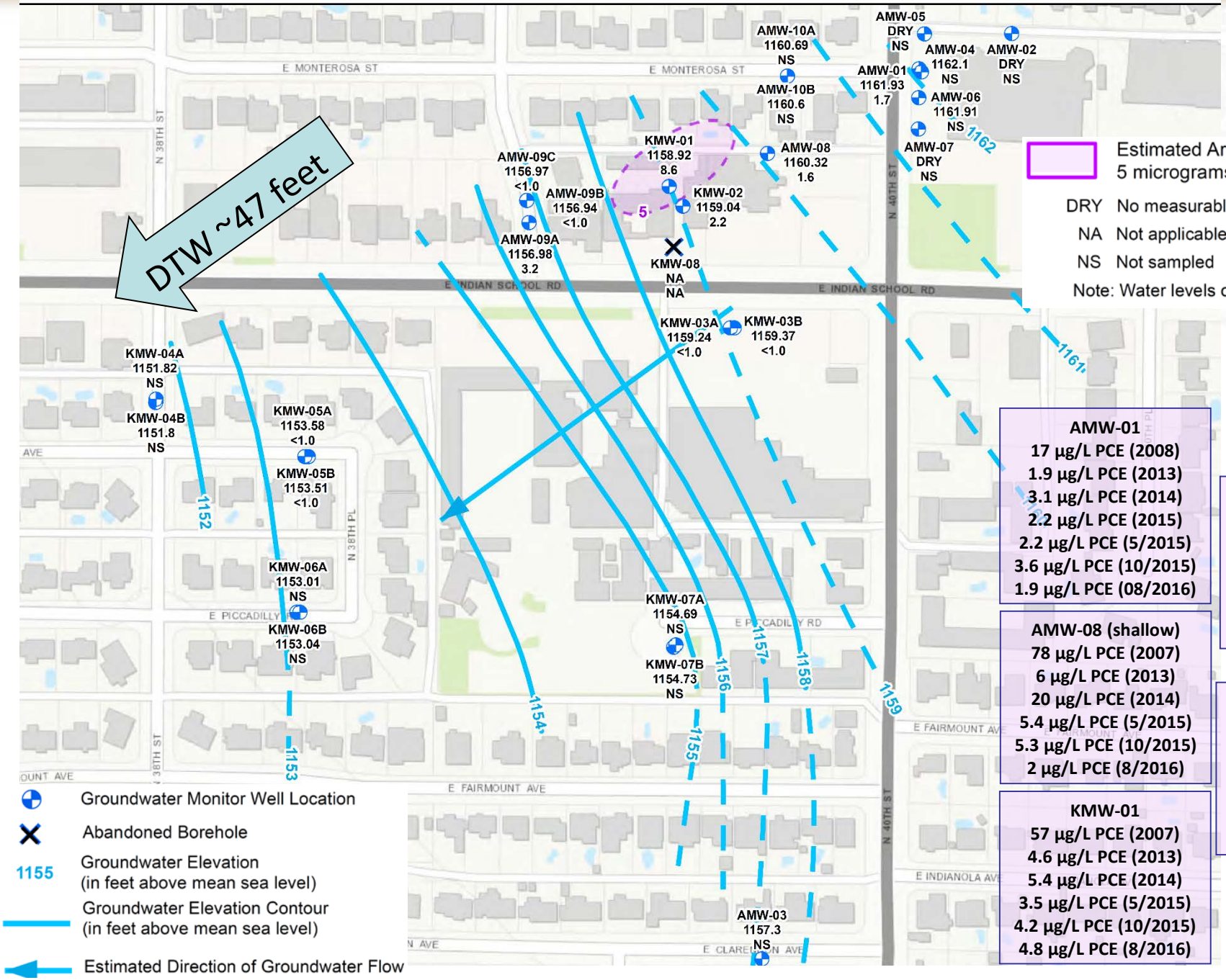


AMW-01
17 µg/L PCE (2008)
1.9 µg/L PCE (2013)
3.1 µg/L PCE (2014)
2.2 µg/L PCE (2015)
2.2 µg/L PCE (5/2015)
3.6 µg/L PCE (10/2015)
1.9 µg/L PCE (08/2016)

AMW-09A
120 µg/L PCE (2008)
<1.0 µg/L PCE (2013)
2.6 µg/L (2014)
3.6 µg/L (5/2015)
1.9 µg/L (10/2015)
<1.0 µg/L (8/2016)

AMW-08 (shallow)
78 µg/L PCE (2007)
6 µg/L PCE (2013)
20 µg/L PCE (2014)
5.4 µg/L PCE (5/2015)
5.3 µg/L PCE (10/2015)
2 µg/L PCE (8/2016)

KMW-02
3.8 µg/L PCE (2008)
1.4 µg/L PCE (2013)
1.1 µg/L PCE (2014)
1.3 µg/L PCE (5/2015)
3.1 µg/L PCE (10/2015)
1.56 µg/L PCE (8/2016)

KMW-01
57 µg/L PCE (2007)
4.6 µg/L PCE (2013)
5.4 µg/L PCE (2014)
3.5 µg/L PCE (5/2015)
4.2 µg/L PCE (10/2015)
4.8 µg/L PCE (8/2016)

40TH ST & INDIAN SCHOOL RD

Upcoming Work:

- Finalize FS report and delist the site.
- SVE system decommissioning and removal.

Problem Definition Statement:

Groundwater at the site is contaminated with PCE above AWQS, within an undefined plume to a depth greater than 280 feet bgs, source is unknown.

40TH ST & OSBORN RD

Contaminant of Concern: PCE

Source Area/PRPs: Source not identified, residential area; source may be 48th St. & Indian School, but unlikely.

40TH ST & OSBORN RD

Release Mechanism(s): Unknown

Project Status: In RI phase; draft RI report and FS Work Plan prepared, on-hold pending further site characterization.

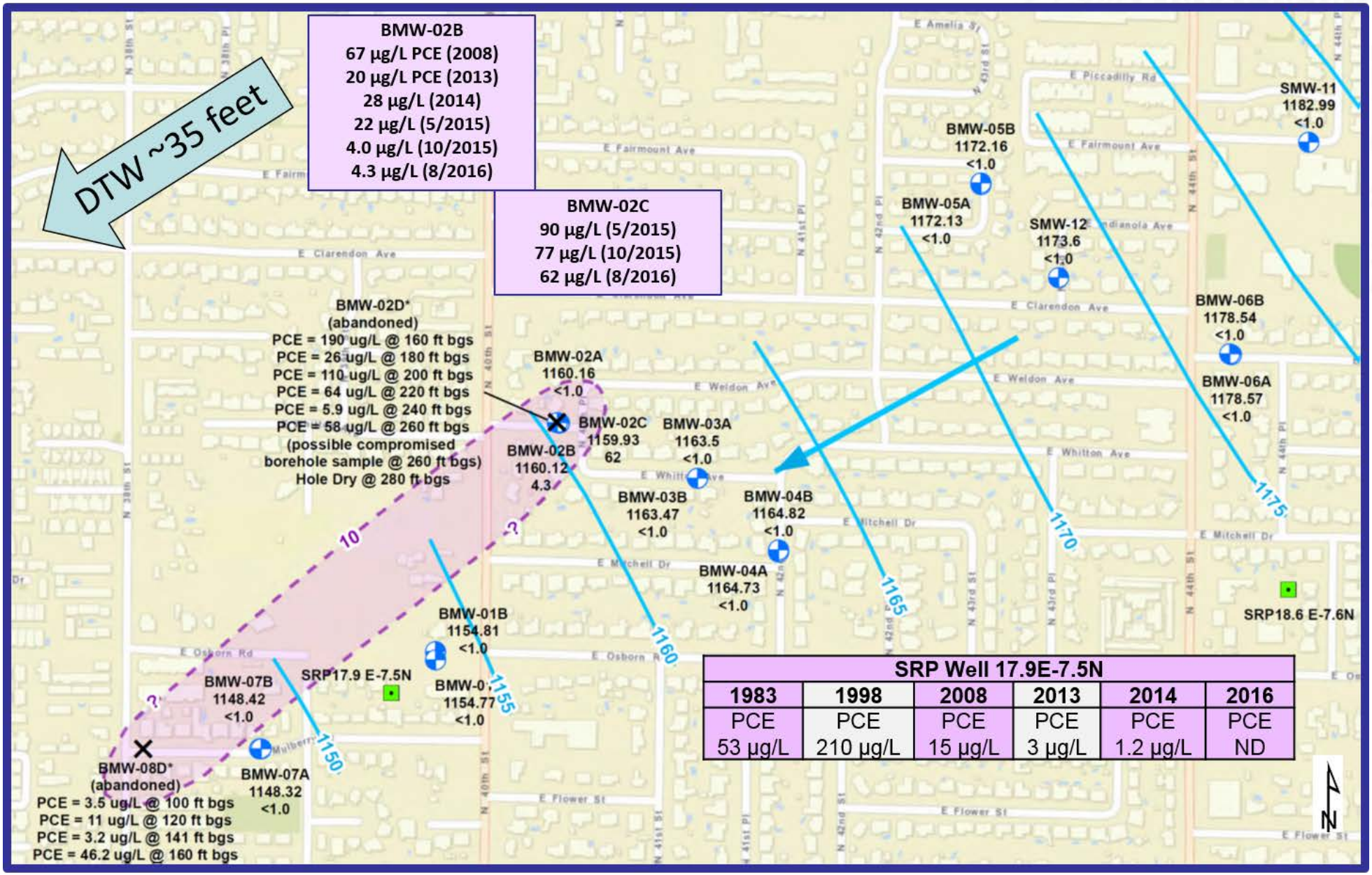
40TH ST & OSBORN RD

Recent Work:

- August 2016 PCE in GW ranged from <1.0 µg/L to 62 µg/L.
- PCE >AWQS at well BMW-02C at 118.5, 130.5, and 136.5 feet bgs (27, 32, 62 µg/L, respectively).
- PCE >AWQS at single well BMW-02D at 60, 200, 220, 240 feet bgs (190, 110, 64, 5.9 µg/L, respectively) abandoned borehole.
- PCE >AWQS at borehole BMW-08D at depths of approximately 120, 141 and 160 feet bgs (11, 3.2, 46.2 µg/L, respectively), abandoned borehole.
- SRP well sampling non-detect, April 2016.

40TH ST & OSBORN RD

ADEQ Arizona Department of Environmental Quality



SRP Well 17.9E-7.5N					
1983	1998	2008	2013	2014	2016
PCE 53 µg/L	PCE 210 µg/L	PCE 15 µg/L	PCE 3 µg/L	PCE 1.2 µg/L	PCE ND

40TH ST & OSBORN RD

Upcoming Work:

- Drill borings to define vertical & lateral extent of plume. Locations chosen based on data gained from the drilling of BMW-02D and BMW-08D. Wells to be installed based on field data and GW borehole sampling.

- Task order closed and further work has been postponed until FY18 except for Spring sampling event of new well.

Problem Definition Statement:

- Groundwater at the site is contaminated with PCE above AWQS in a plume. Soils at the site are contaminated with PCE in SV in the vicinity of Sandy's Magic Touch Cleaners.

48TH ST & INDIAN SCHOOL RD

ADEQ Arizona Department of Environmental Quality

Source Area/PRPs:

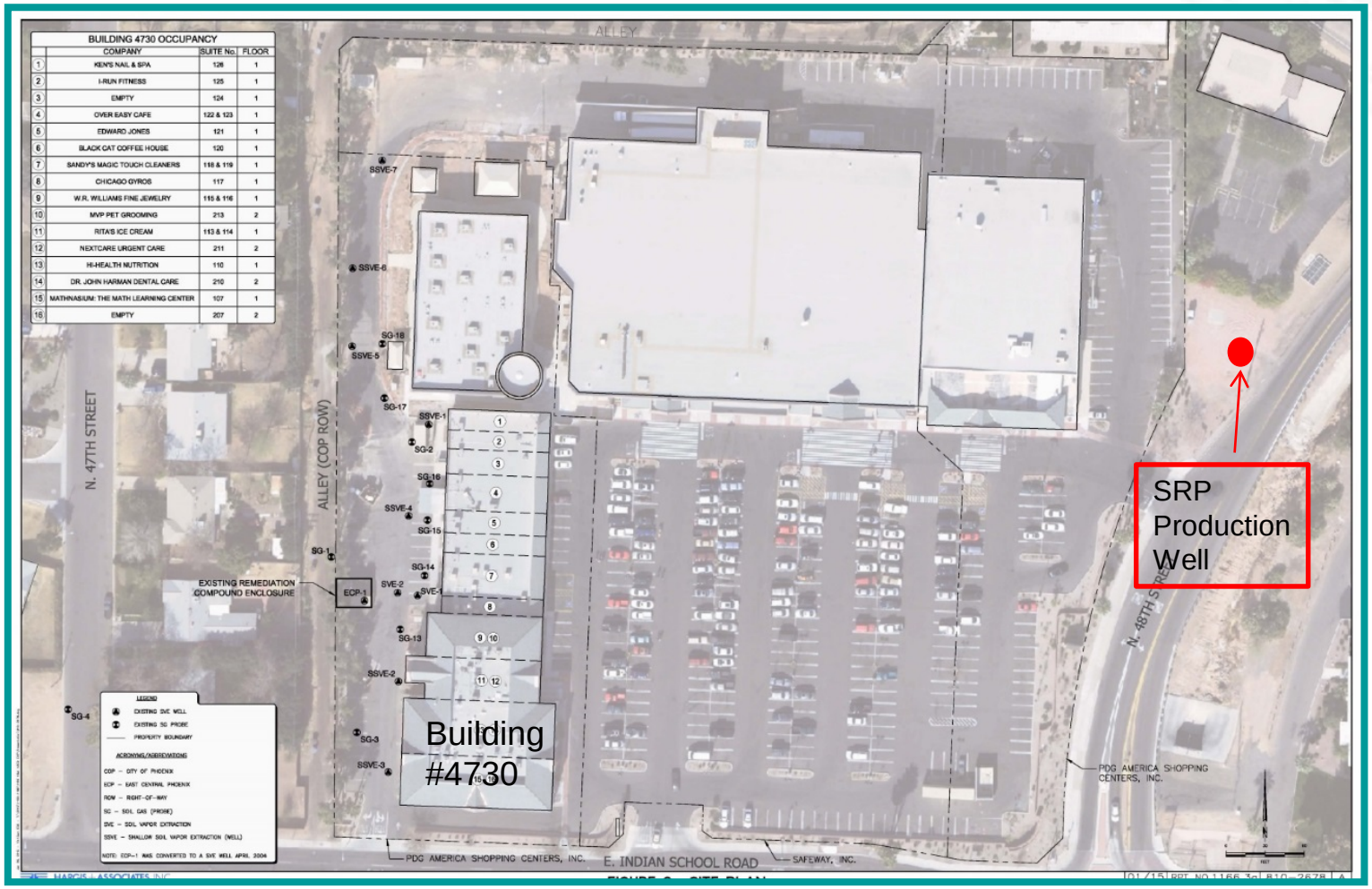
- Sandy's Magic Touch Cleaners (1989 to the present)
- Cleaners by George (1966 to 1989)

Project Status: RI phase, drill a well to see if connected to 40th St and Osborn.

48TH ST & INDIAN SCHOOL RD

Recent Work: SV

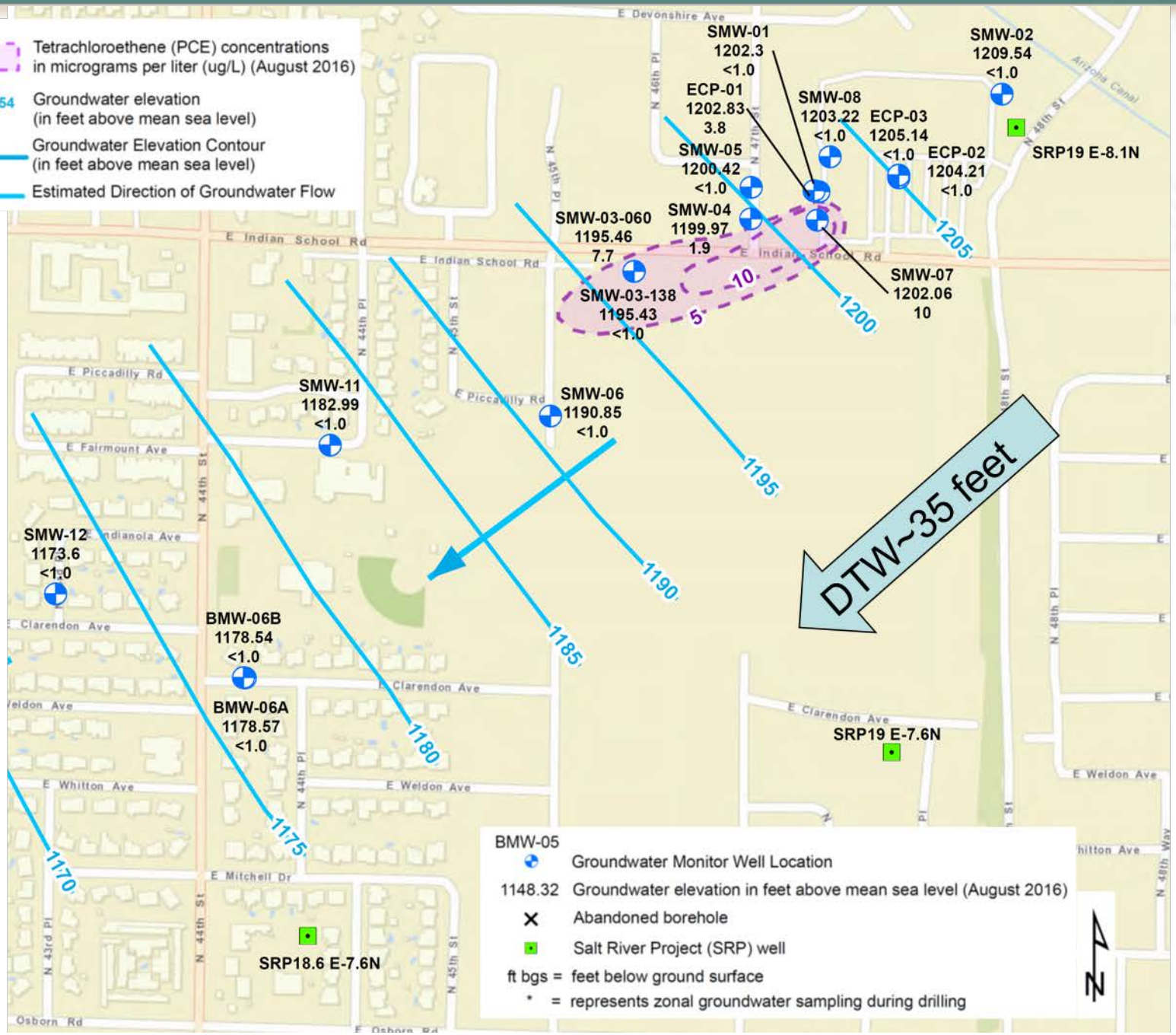
- April & November 2015 – PCE in SV ranged from 21 µg/m^3 to 28,000 µg/m^3 (~5-15 feet).



Recent Work: GW

- August 2016 PCE in GW ranged from <1.0 µg/L to 10 µg/L.
- Drilled downgradient wells SMW-11 and SMW-12 in FY2016; both <1.0 µg/L.
  - SMW-11 screened from 50-70 feet bgs.
  - SMW-12 screened from 145-165 feet bgs.

48TH ST & INDIAN SCHOOL RD



SMW-01
6,200 µg/L PCE (1997)
480 µg/L PCE (2008)
1.8 µg/L PCE (2013)
1.9 µg/L PCE (2014)
1.6 µg/L PCE (5/2015)
<1.0 µg/L PCE (10/2015)
<1.0 µg/L PCE (8/2016)

SMW-03-060
33 µg/L PCE (2008)
1,200 µg/L PCE (2012)
95 µg/L PCE (2013)
120 µg/L PCE (2014)
66 µg/L PCE (5/2015)
19 µg/L PCE (10/2015)
7.7 µg/L PCE (8/2016)

SMW-06
4.6 µg/L PCE (2012)
<1.0 µg/L PCE (2013)
<1.0 µg/L PCE (2014)
1.6 µg/L PCE (2015)
1.6 µg/L PCE (5/2015)
<1.0 µg/L PCE (10/2015)
<1.0 µg/L PCE (8/2016)

48TH ST & INDIAN SCHOOL RD

ADEQ Arizona Department of Environmental Quality

Data Gaps:

- Further definition of the vertical & lateral extent of PCE in downgradient GW.
- Evaluation for the site to be a potential source of PCE for the 40th St. & Osborn Rd site.

Upcoming Work:

- Installation of a deep source well & downgradient well.
- Spring sampling of new wells.

ECP PATH FORWARD FY17-FY18

- **24th St & Grand Canal** – Define vertical & lateral extent of the plume; continued SVE systems operation; UST contamination investigation.

- **32nd St & Indian School** – Define vertical & lateral extent of the plume; determine connection of Maroneys & Viking plumes; continued SVE systems operation; UST contamination investigation.

- **38th St & Indian School** - Define vertical & lateral extent of the plume and finalize FS.

- **40th St & Indian School** – Finalize FS, closeout and delist the site.

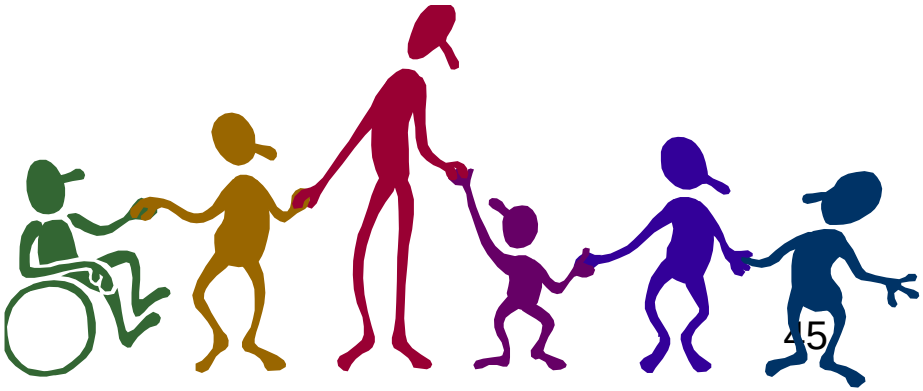
- **40th St & Osborn** - Define vertical & lateral extent of the plume ; determine if connection to 40th St & Osborn.

- **48th St & Indian School** – Define vertical & lateral extent of the plume; determine if connection to 40th St & Osborn.

TAKE AWAY

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

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



Questions?

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