ADEQ
Arizona Department of Environmental Quality

7th Avenue & Bethany Home Road
Water Quality Assurance Revolving Fund Site

Community Advisory Board Meeting
July 23, 2014

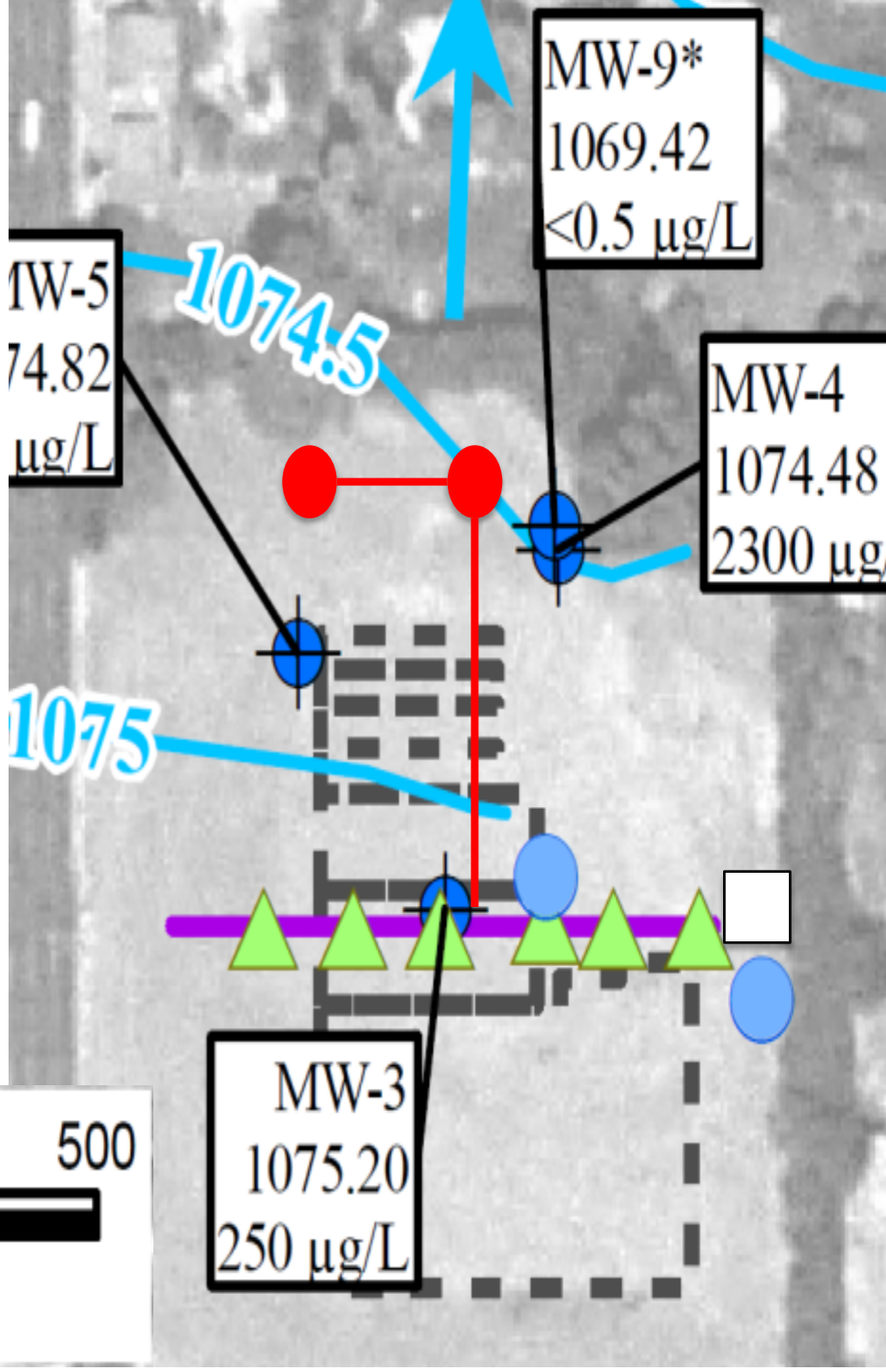
Pilot Test

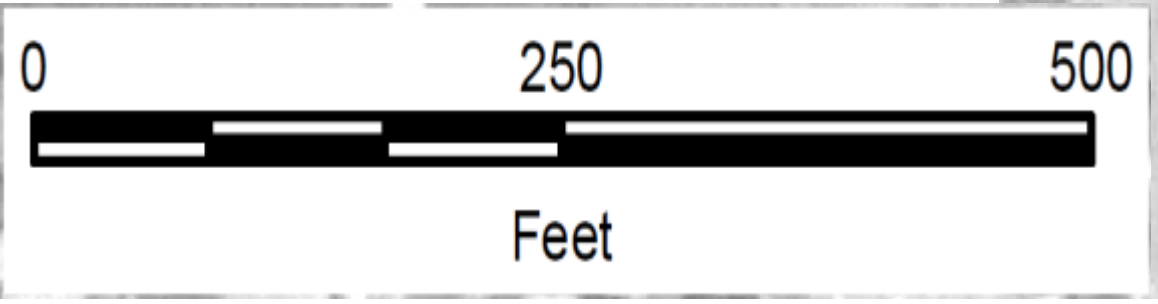
- Arcadis has submitted the enhanced reductive dechlorination pilot test summary report and cost estimate for full scale implementation of phase 1.

- Phase 1 includes:
  - a transect of injection wells at the source area combined with two down gradient extraction wells; and
  - one injection well at former dry cleaner on west side of 7th Avenue.
  - Estimated costs are just over $1M dollars.

Alternative 1 from FFS – Phase 1

Incorporate Extraction wells into Alternative 1

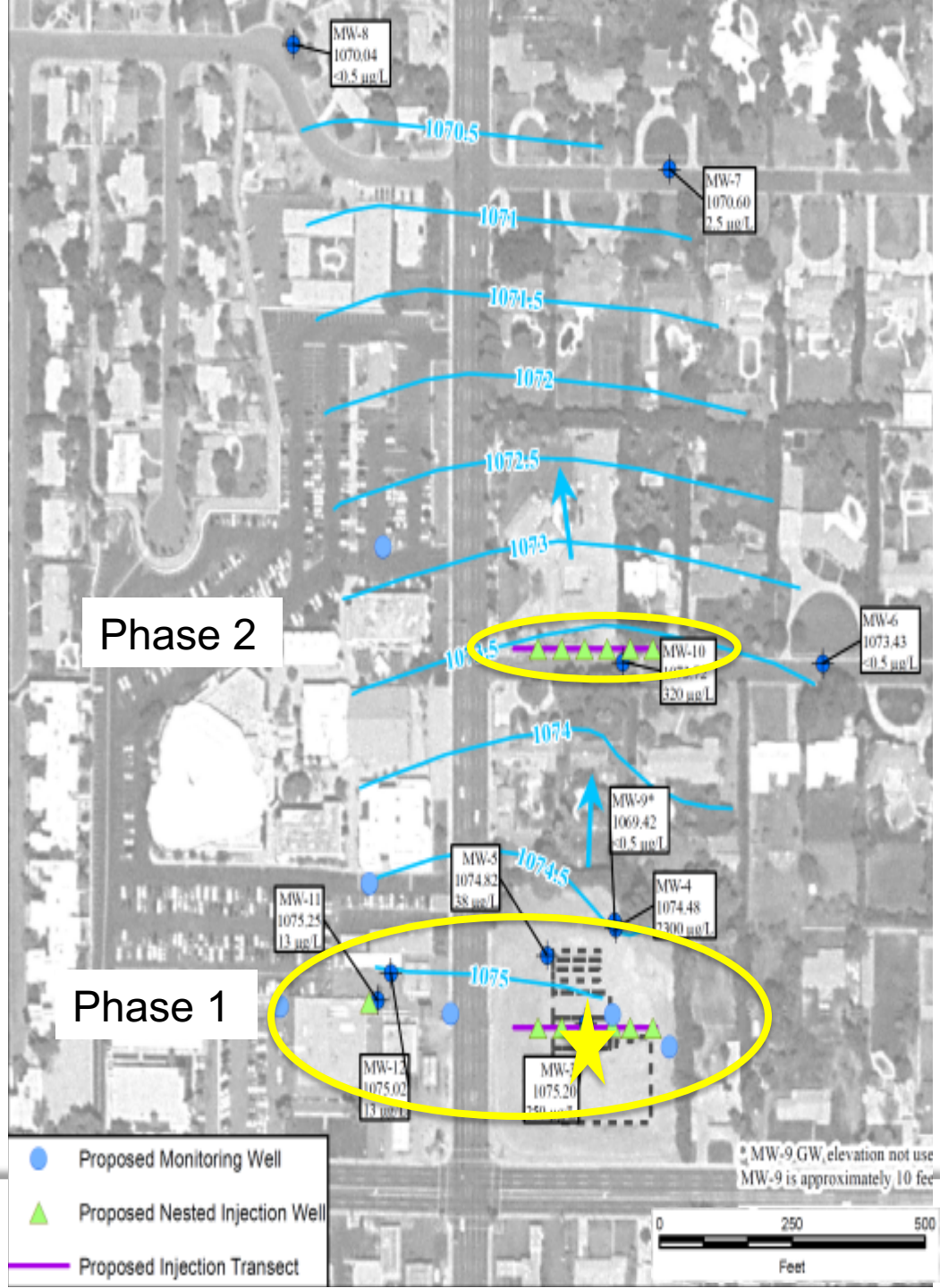




Alternative 1 from FFS

- Implement Alternative 1 in phases
  - Phase 1, vacant lot and Former Dry Cleaner across 7th Avenue
  - Phase 2 downgradient

Location of Pilot



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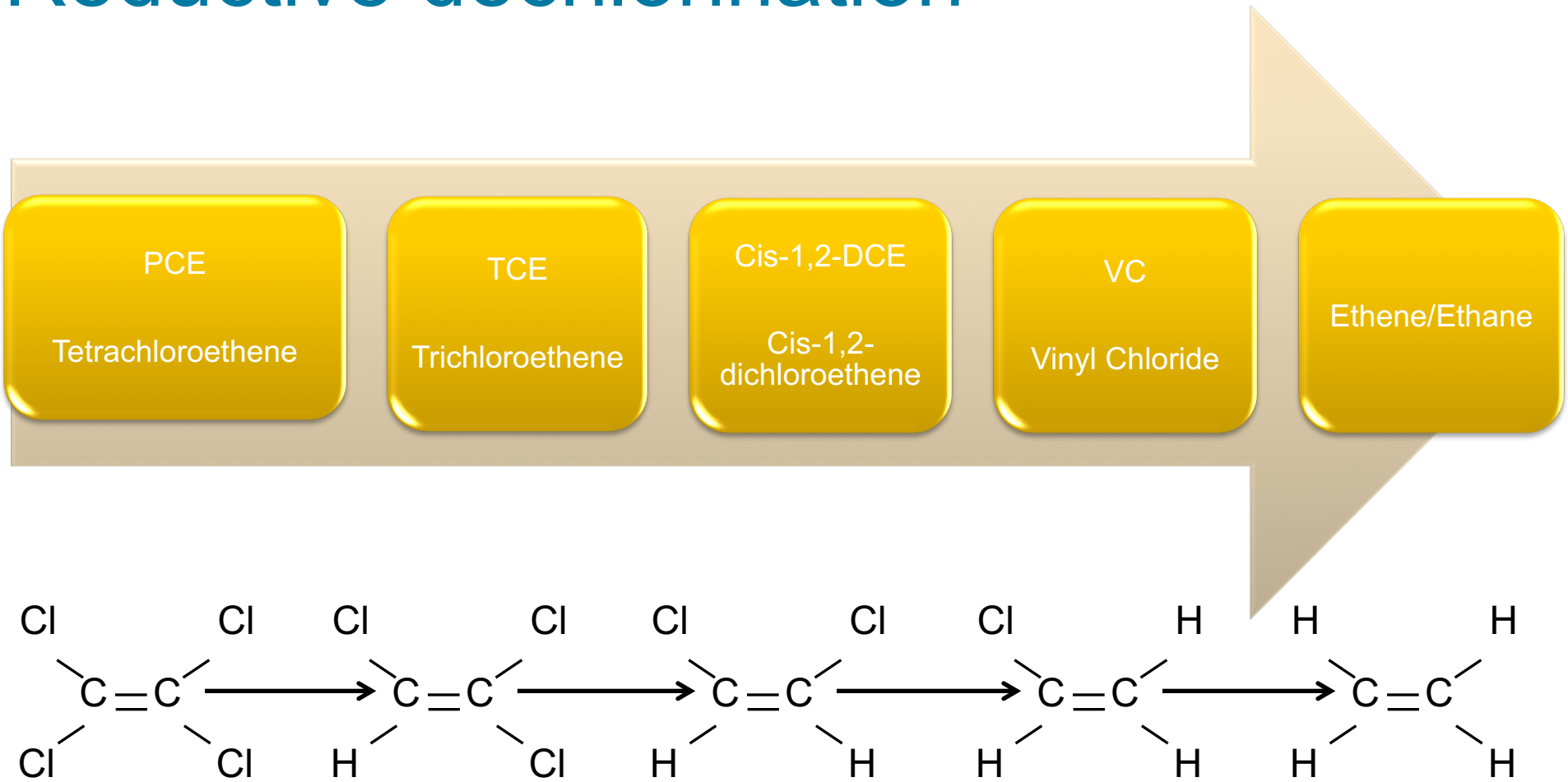
Reductive dechlorination



Dominant pathway for reductive dechlorination of chlorinated ethenes. Other compounds may include trans-1,2-dichloroethene or 1,1-dichloroethene

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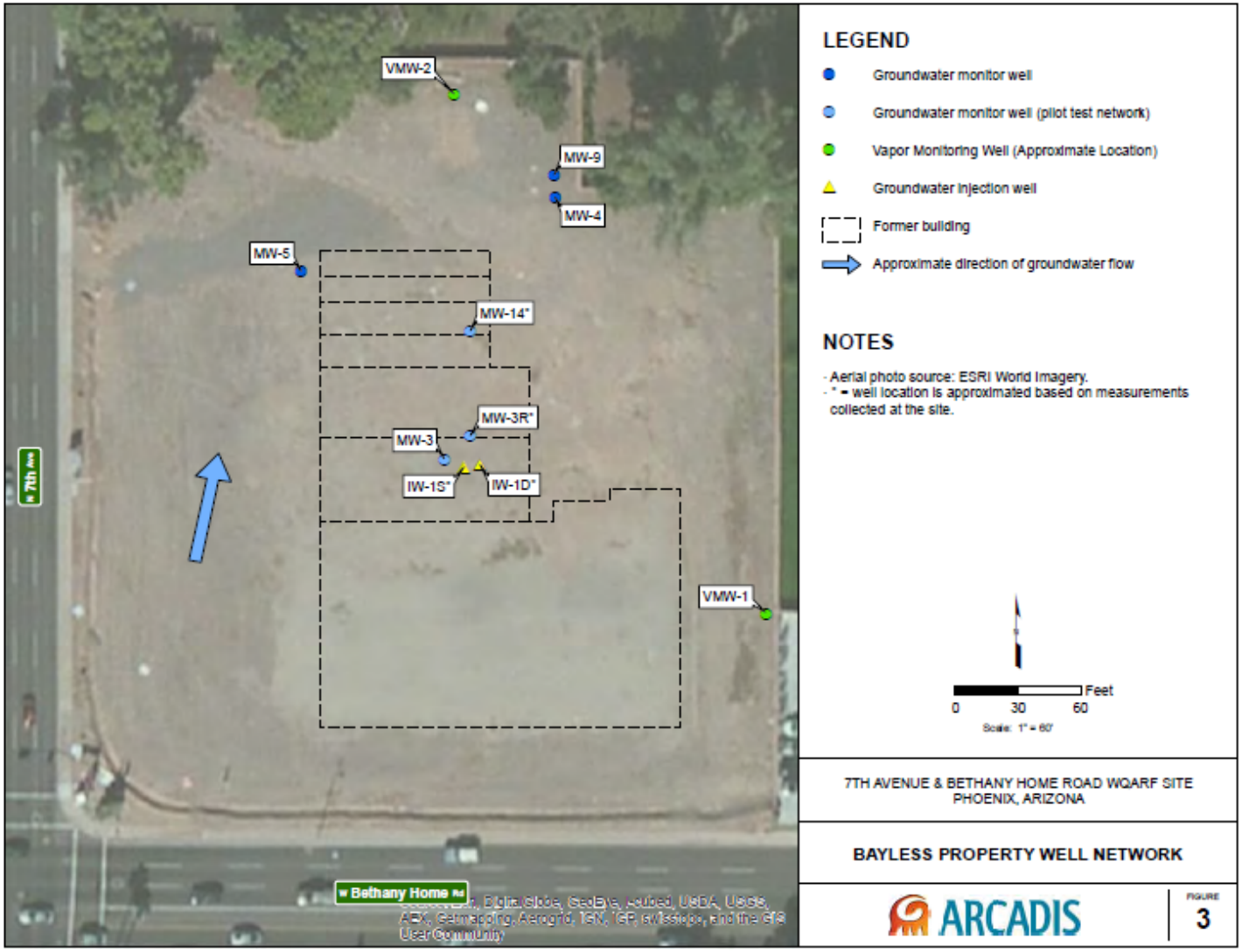
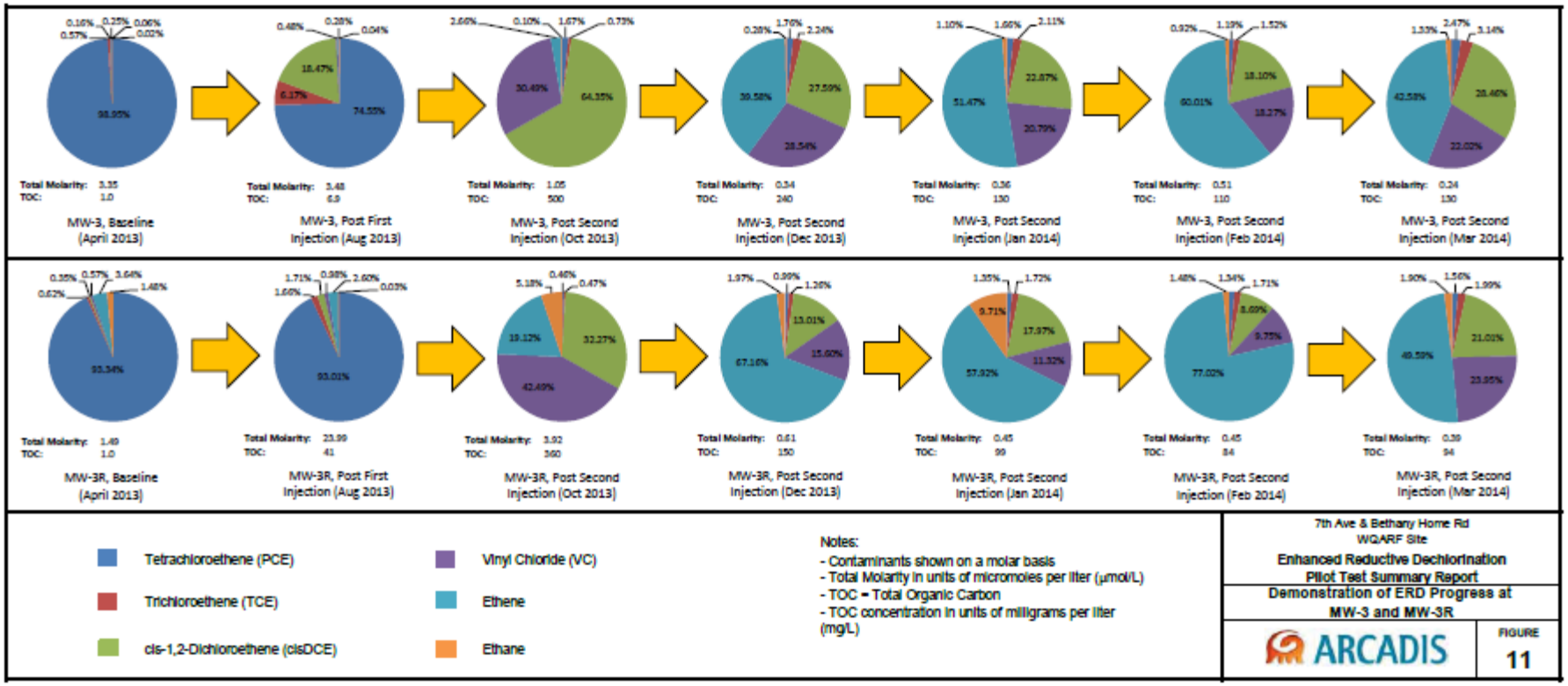
Pilot Test


VMW-2
MW-9
MW-4
MW-5
MW-14"
MW-3R"
MW-3
IW-1S"
IW-1D"
VMW-1
7th Ave
Bethany Home Rd
LEGEND
Groundwater monitor well
Groundwater monitor well (pilot test network)
Vapor Monitoring Well (Approximate Location)
Groundwater injection well
Former building
Approximate direction of groundwater flow
NOTES
- Aerial photo source: ESRI World Imagery.
- " = well location is approximated based on measurements collected at the site.
Feet
0
30
60
Scale: 1" = 60'
7TH AVENUE & BETHANY HOME ROAD WQARF SITE
PHOENIX, ARIZONA
BAYLESS PROPERTY WELL NETWORK
ARCADIS
FIGURE
3

Pilot Test


MW-3, Baseline (April 2013)
Total Molarity: 3.35
TOC: 1.0
MW-3, Post First Injection (Aug 2013)
Total Molarity: 3.48
TOC: 6.9
MW-3, Post Second Injection (Oct 2013)
Total Molarity: 1.05
TOC: 500
MW-3, Post Second Injection (Dec 2013)
Total Molarity: 0.54
TOC: 240
MW-3, Post Second Injection (Jan 2014)
Total Molarity: 0.36
TOC: 130
MW-3, Post Second Injection (Feb 2014)
Total Molarity: 0.51
TOC: 110
MW-3, Post Second Injection (Mar 2014)
Total Molarity: 0.24
TOC: 130
MW-3R, Baseline (April 2013)
Total Molarity: 1.49
TOC: 1.0
MW-3R, Post First Injection (Aug 2013)
Total Molarity: 23.99
TOC: 41
MW-3R, Post Second Injection (Oct 2013)
Total Molarity: 3.92
TOC: 360
MW-3R, Post Second Injection (Dec 2013)
Total Molarity: 0.61
TOC: 150
MW-3R, Post Second Injection (Jan 2014)
Total Molarity: 0.45
TOC: 99
MW-3R, Post Second Injection (Feb 2014)
Total Molarity: 0.45
TOC: 84
MW-3R, Post Second Injection (Mar 2014)
Total Molarity: 0.39
TOC: 94
Tetrachloroethene (PCE)
Trichloroethene (TCE)
cis-1,2-Dichloroethene (cisDCE)
Vinyl Chloride (VC)
Ethene
Ethane
Notes:
- Contaminants shown on a molar basis
- Total Molarity in units of micromoles per liter (µmol/L)
- TOC = Total Organic Carbon
- TOC concentration in units of milligrams per liter (mg/L)
7th Ave & Bethany Home Rd
WQARF Site
Enhanced Reductive Dechlorination
Pilot Test Summary Report
Demonstration of ERD Progress at
MW-3 and MW-3R
ARCADIS
FIGURE
11

Well ID	Sample Date	Sample Depth	Dissolved Gasses			Volatile Organic Compounds												
			Methane	Ethane	Ethene	PCE	MTBE	TCE	1,2-DCA	cis-1,2-DCE	trans-1,2-DCE	VC	MEK	Naphthalene	Benzene	Toluene	Ethylbenzene	Xylenes
	AWQS		NA	NA	NA	5	NA	5	5	70	100	2	NA	NA	5	1000	700	10000
IW-1S	4/9/2013	88	1.8	0.3	0.50	240	2	2.5	ND	ND	ND	ND	ND	ND	ND	0.65	ND	ND
	8/1/2013	85	10000	0.028	0.018J	<1.0	<1.0	1.5	<1.0	2.2	<1.0	<1.0	2,600	<5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	90	13000	0.039	0.016J	<1.0	<1.0	1.4	<1.0	2.2	<1.0	<1.0	3,100	<5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	95	13000	0.032	0.012J	<5	<5	<5	<5	<5	<5	<5	3,800	<25	<5.0	<25	<5.0	<15
	10/30/2013	85	7200	0.051	0.36	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	430	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	90	6000	0.036	0.039	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	420	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	95	7400	0.043	0.12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	440	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	85	14000	0.018J	0.019J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2,100	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	90	15000	0.013J	0.013J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2,000	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	95	17000	0.021J	0.016J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2,000	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	85	11000	0.0047J	0.068	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	190	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	90	16000	0.014J	0.034	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	180	<5.0	<1.0	<5.0	<1.0	<3.0
	2/19/2014	90	12000	0.012J	0.024J	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<10	<5.0	<1.0	5.2	<1.0	<3.0
	3/20/2014	85	11000	0.0082J	0.0078J	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<10	<5.0	<1.0	12	<1.0	<3.0
IW-1D	4/9/2013	103	4.2	0.34	0.45	14	1.8	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/1/2013	85	12000	0.14	0.038	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1,500	<5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	95	12000	0.14	0.033	<1.0	<1.0	1	<1.0	<1.0	<1.0	<1.0	1,700	5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	105	15000	0.17	0.041	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1,600	5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	85	10000	0.069	0.18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	300	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	95	8900	0.049	0.041	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	290	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	105	9000	0.056	0.093	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	300	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	85	17000	0.025U	0.016J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	930	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	95	19000	0.05	0.043	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	850	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	105	22000	0.025U	0.020J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	930	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	85	11000	0.0099J	0.080	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	450	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	95	16000	0.0098J	0.039	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	450	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	105	18000	0.011J	0.032	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	430	<5.0	<1.0	<5.0	<1.0	<3.0
	2/19/2014	95	16000	0.017J	0.030	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	42	<5.0	<1.0	8.4	<1.0	<3.0
	3/20/2014	95	13000	0.024J	0.025	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	13	<1.0	<3.0
MW-3	4/9/2013	95	0.29	0.016J	0.047	550	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/1/2013	85	7000	0.011J	0.022J	170	<1.0	8.4	<1.0	61	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	90	9600	0.056	0.19	430	<1.0	14	<1.0	45	<1.0	<1.0	<10	7.4	<1.0	<5.0	<1.0	<3.0
	8/1/2013	95	9200	0.065	0.23	350	<1.0	28	<1.0	57	<1.0	<1.0	<10	7.3	<1.0	<5.0	<1.0	<3.0
	10/30/2013	85	12000	0.034	0.42	2.9	<1.0	<1.0	<1.0	63	<1.0	16	760	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	90	12000	0.030	0.67	2.4	<1.0	<1.0	<1.0	64	<1.0	19	730	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	85	12000	0.015J	3.1	<1.0	<1.0	<1.0	<1.0	8.7	<1.0	5.6	340	<5.0	1.0	<5.0	<1.0	<3.0
	12/16/2013	90	14000	0.029	3.4	<1.0	<1.0	<1.0	<1.0	9.2	<1.0	6.0	310	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	85	13000	0.091	4.5	<1.0	<1.0	<1.0	<1.0	7.9	<1.0	4.5	600	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	90	14000	0.120	3.3	<1.0	<1.0	<1.0	<1.0	7.9	<1.0	4.2	370	<5.0	<1.0	<5.0	<1.0	<3.0
	2/19/2014	91	16000	0.14	7.3	<1.0	<1.0	<1.0	<1.0	8.7	<1.0	5.5	93	<5.0	<1.0	<5.0	<1.0	<3.0
	3/20/2014	90	19000	0.10	2.5	<1.0	<1.0	<1.0	<1.0	6.6	<1.0	3.2	200	<5.0	<1.0	<5.0	<1.0	<3.0
MW-3R	4/9/2013	96	4.9	0.66	1.3	230	ND	1.2	ND	ND	ND	ND	ND	ND	ND	0.61	ND	ND
	8/1/2013	85	10000	0.13	11	3,100	<1.0	48	<1.0	36	<1.0	12	<10	<5.0	1.8	<5.0	<1.0	<3.0
	8/1/2013	95	13000	0.20	15	3,700	<1.0	52	<1.0	39	<1.0	14	<10	<5.0	<1	<5.0	<1.0	<3.0
	8/1/2013	105	13000	0.092	15	3,500	<1.0	52	<1.0	39	<1.0	14	<10	<5.0	1.0	<5.0	<1.0	<3.0
	10/30/2013	85	14000	6.1	14	2.7	<1.0	2.4	<1.0	120	<1.0	96	240	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	95	11000	4.60	12	1.1	<1.0	2.3	<1.0	110	<1.0	95	270	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	105	14000	6.0	18	<1.0	<1.0	1.5	<1.0	100	<1.0	99	250	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	85	15000	0.99	11	<1.0	<1.0	<1.0	<1.0	8.1	<1.0	6.1	200	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	95	19000	1.30	11	<1.0	<1.0	<1.0	<1.0	8.3	<1.0	6.3	220	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	105	16000	1.0	7.4	<1.0	<1.0	<1.0	<1.0	6.1	<1.0	4.5	150	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	85	11000	0.20	5.2	<1.0	<1.0	<1.0	<1.0	7.6	<1.0	3.0	620	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	95	17000	0.36	6.0	<1.0	<1.0	<1.0	<1.0	7.4	<1.0	3.0	690	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	105	24000	0.36	6.2	<1.0	<1.0	<1.0	<1.0	5.9	<1.0	2.9	490	<5.0	<1.0	<5.0	<1.0	<3.0
	2/19/2014	95	17000	0.20	8.3	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	2.6	190	<5.0	<1.0	<5.0	<1.0	<3.0
	3/20/2014	95	15000	0.22	4.6	<1.0	<1.0	1.0	<1.0	7.7	<1.0	5.5	200	<5.0	<1.0	<5.0	<1.0	<3.0
MW-14	4/9/2013	98	2.4	0.83	1.6	310	ND	1.4	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND
	8/1/2013	85	1.9	0.13	0.53	92	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	95	2.4	0.087	0.67	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	8/1/2013	105	2.5	0.15	0.84	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	85	1.1	0.065	1.0	49	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	8.4	<1.0	10
	10/30/2013	95	1.3	0.044	0.38	170	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	10/30/2013	105	1.3	0.032	0.38	59	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	7	1.6	9.1
	12/16/2013	85	8.2	0.037	0.3	110	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	95	6.5	0.022J	0.15	110	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	12/16/2013	105	4.1	0.027	0.27	54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	85	2.9	0.014J	0.2	200	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	95	2.0	0.031	0.091	410	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	1/27/2014	105	7.3	0.030	0.24	28	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	2/19/2014	95	4.3	0.040	0.48	390	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<1.0	<5.0	<1.0	<3.0
	3/20/2014	95	5.5	0.028	0.42	500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<25.0	<5.0	<25	<5.0	<15

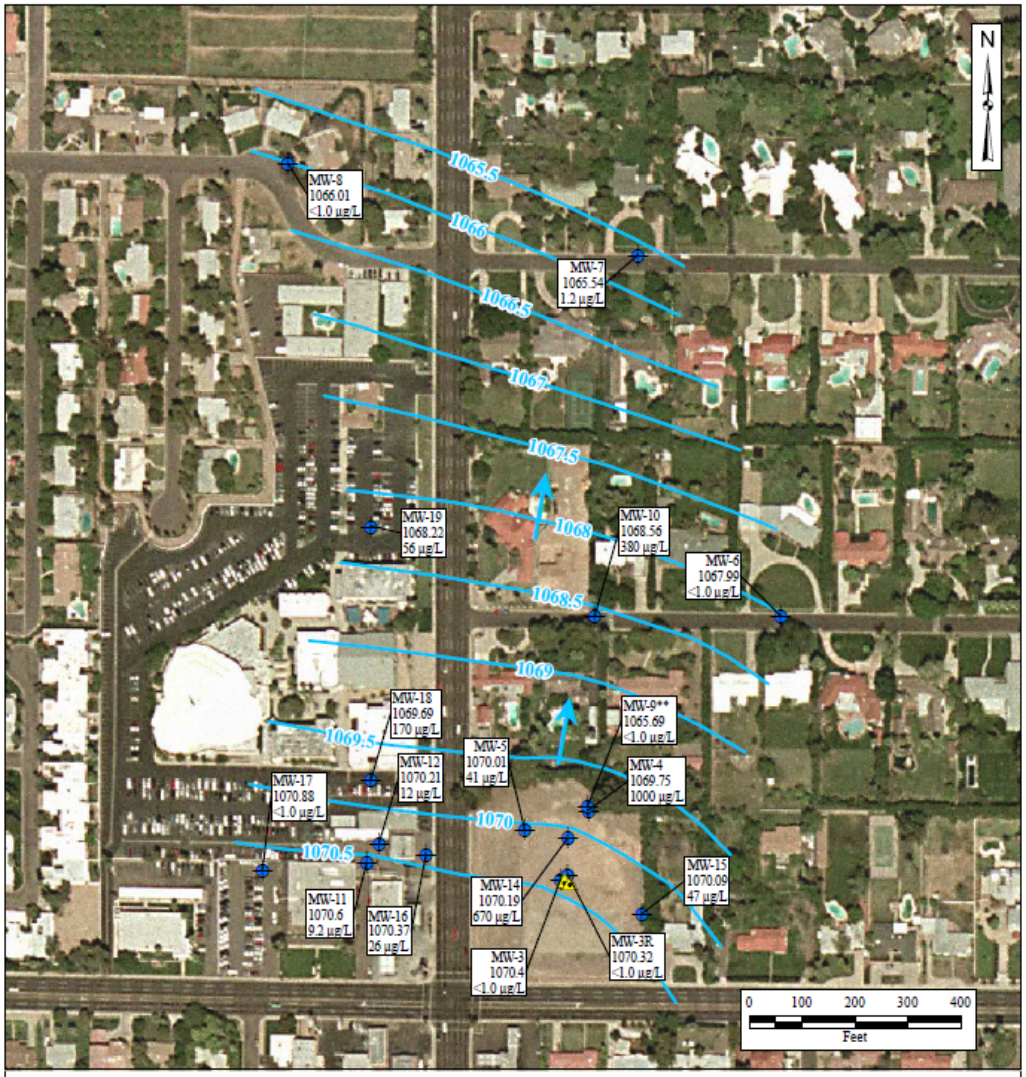
Notes:
All concentrations are in micrograms per liter (ug/L).
Samples collectd on 8-1-13 were done by Passive Diffusion Bags.
AWQS = Arizona Aquifer Water Quality Standards
1,2-DCA = 1,2-Dichloroethane
cis-1,2-DCE = cis-1,2-Dichloroethene
MEK = 2-Butanone
MTBE = Methyl-tert-butyl Ether

NA = Not Applicable
ND = Non Detect
NS = Constituent Not Sampled For
PCE = Tetrachloroethene
TCE = Trichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride

< = Not detected at or above analyte specific reporting limit.
Qualifiers:
J = Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).

Italics = Baseline data (April 2012 data)
Bold = Detection
= Shaded cell exceeds AWQS.

2014 ground water quality and flow direction



* MW-9 GW elevation not used for contouring. MW-9 is approximately 10 feet north of MW-4

Legend

- Injection Well
- Monitor Well
- March 2014 Groundwater Elevation Contours (ft amsl)
- MW-3 / 1070.32 / <1.0 µg/L — Monitor Well Name; March 18, 2014 Groundwater Elevation (ft amsl); PCE Concentration (µg/L)
- General Groundwater Direction

Note: ft amsl - feet above mean sea level
Aerial Photo Copyright of Landiscor, flown in March 2004.

ARCADIS

Groundwater Elevations
March 18, 2014
7th Ave & Bethany Home Rd
WQARF Site

April 2014 | **Figure 2**

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ADEQ Arizona Department of Environmental Quality

Select 2014 ground water quality

Table 3
Summary of Detected Constituents
7th Avenue and Bethany Home Road WQARF Site

Sample ID	Date Collected	CFC-12 (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TCE (µg/L)	PCE (µg/L)	Chloroform (µg/L)
MW-10	5/19/2014	<0.5	<1.0	<1.0	<1.0	380	<0.5
	4/12/2013	<0.5	<0.5	0.7	1.1	410	<0.5
	1/18/2012	<0.5	<0.5	<0.5	0.53	320	<0.5
	9/30/2010	<0.5	<0.5	<0.5	<0.5	130	<0.5
	11/11/2008	< 0.5	< 0.5	< 0.5	0.64	140	0.84
	8/28/2008	< 0.5	< 0.5	< 0.5	0.50	170	0.76
	4/16/2008	< 0.5	< 0.5	< 0.5	< 0.5	110	0.66
	1/31/2008	< 4.0	< 1.0	< 5.0	< 1.0	130	< 0.5
	11/16/2007	< 5.0	< 2.0	< 5.0	< 2.0	150	< 0.5
	8/14/2007	< 5.0	< 2.0	< 5.0	< 2.0	150	< 0.5
	5/16/2007	< 5.0	< 2.0	< 5.0	< 2.0	94	< 0.5
MW-3R	3/20/2014	< 0.5	<1.0	< 1.0	< 1.0	< 1.0	< 0.5
	4/9/2013	1.0	< 0.5	< 0.5	1.2	230	< 0.5
MW-14	3/20/2014	< 0.5	<1.0	< 1.0	2.0	670	< 0.5
	4/9/2013	1.2	< 0.5	< 0.5	1.4	310	< 0.5
MW-15	3/19/2014	< 0.5	<1.0	1.5	<1.0	47	< 0.5
	4/9/2013	0.8	4.3	2.6	< 0.5	28	0.9
MW-19	3/18/2014	< 0.5	<1.0	<1.0	<1.0	56	< 0.5
	4/12/2013	< 0.5	< 0.5	< 0.5	< 0.5	28	1.4
TRIP BLANK[1]	3/20/2014	< 0.5	<1.0	<1.0	<1.0	<1.0	< 0.5
TRIP BLANK[1]	5/19/2014	< 0.5	<1.0	<1.0	<1.0	<1.0	< 0.5
TB01[1]	4/10/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TB[1]	4/9/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TB[1]	4/12/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TB01[1]	4/12/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DUP[2]	3/18/2014	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5
DUP[3]	3/20/2014	<0.5	<1.0	3.0	2.3	930	<0.5
DUP01[4]	4/9/2013	1.2	<0.5	<0.5	1.8	310	<0.5
	AWQS	NE	5	NE	5	5	NE

NOTES:

[1] Quality Assurance Sample
[2] Sample DUP is a blind duplicate sample of MW-17.
[3] Sample DUP is a blind duplicate sample of MW-4.
[4] Sample DUP01 is a blind duplicate sample of MW-14.
CFC 12 = Dichlorodifluoromethane
1,2-DCA = 1,2- Dichloroethane
NS = Not Sampled, due to pump malfunction

MTBE = Methyl-Tert-Butyl-Ether
TCE = Trichloroethene
PCE = Tetrachloroethene
µg/L = micrograms per liter
AWQS = Aquifer Water Quality Standard
NE = Not Established

Laboratory analytical report includes data for injection wells IW-1D and IW-1S which are not part of this report.

Select 2014 ground water quality

Table 4
Summary of Detected Constituents at SCI Arizona Funeral Services (SCI) Property
7th Avenue and Bethany Home Road WQARF Site

Sample ID	Date Collected	CFC-12 (µg/L)	1,2-DCA (µg/L)	MTBE (µg/L)	TCE (µg/L)	PCE (µg/L)	tDCE (µg/L)	VC (µg/L)	cDCE (µg/L)	Chloroform (µg/L)
MW-11	3/19/2014	< 0.5	<1.0	<1.0	<1.0	9.2	<1.0	<1.0	<1.0	< 0.5
	4/11/2013	< 0.5	< 0.5	< 0.5	< 0.5	6.2	< 0.5	< 0.5	< 0.5	2.8
	1/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	< 0.5	< 0.5	3.0
	9/29/2010	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 0.5	< 0.5	1.6
	11/11/2008	< 0.5	< 0.5	< 0.5	< 0.5	5.2	< 0.5	< 0.5	< 0.5	3.2
	8/28/2008	< 0.5	< 0.5	< 0.5	< 0.5	4.9	< 0.5	< 0.5	< 0.5	3.1
	4/17/2008	< 0.5	< 0.5	< 0.5	< 0.5	8.5	< 0.5	< 0.5	< 0.5	4.4
MW-12	3/19/2014	< 0.5	<1.0	<1.0	13	12	1.0	1.5	18	< 0.5
	4/11/2013	< 0.5	< 0.5	< 0.5	18	13	1.7	2.3	31	0.62
	1/17/2012	< 0.5	< 0.5	< 0.5	18	13	2.4	2.5	31	0.54
	9/29/2010	< 0.5	< 0.5	< 0.5	29	17	2.4	3.7	46	<0.5
	11/11/2008	< 0.5	< 0.5	< 0.5	32	25	4.5	2.7	44	0.65
	8/28/2008	< 0.5	< 0.5	< 0.5	26	14	3.2	2.7	23	< 0.5
	4/17/2008	< 0.5	< 0.5	< 0.5	27	24	2.9	2.6	33	0.76
MW-16	41716	< 0.5	<1.0	<1.0	<1.0	26	<1.0	<1.0	<1.0	6.6
	41376	< 0.5	< 0.5	< 0.5	< 0.5	6.3	< 0.5	< 0.5	< 0.5	3.0
MW-17	3/18/2014	< 0.5	< 0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5
	4/12/2013	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-18	3/18/2014	< 0.5	<1.0	<1.0	<1.0	170	<1.0	<1.0	<1.0	< 0.5
	4/12/2013	< 0.5	< 0.5	< 0.5	< 0.5	120	< 0.5	< 0.5	< 0.5	1.9
DUP[1]	4/12/2013	< 0.5	<0.5	<0.5	< 0.5	7.7	< 0.5	<0.5	< 0.5	3.5
	AWQS	NE	5	NE	5	5	100	2	70	NE

Notes:

[1] Sample DUP is a blind duplicate sample of MW-16.

CFC 12 = Dichlorodifluoromethane

1,2-DCA = 1,2- Dichloroethane

MTBE = Methyl-Tert-Butyl-Ether

tDCE = trans-1,2-Dichloroethene

cDCE = cis-1,2-Dichloroethene

TCE = Trichloroethene

PCE = Tetrachloroethene

VC = Vinyl chloride

µg/L = micrograms per liter

AWQS = Aquifer Water Quality Standard

NE = Not Established

Questions?

ADEQ Contacts:

Scott Goodwin, Project Manager
Remedial Projects Section
sdg@azdeq.gov
(602) 771-4452, 1-800-234-5677 ext. 771-4452

Caroline Oppleman, Community Involvement Coordinator
Remedial Projects Section
co2@azdeq.gov
(602) 771-6890, 1-800-234-5677 ext. 771-6890