

SIBW Monitored Natural Attenuation Monitoring Report - First Semi-annual Sampling Event 2012
 South Indian Bend Wash Superfund Site, US EPA Region 9
 Tempe, Arizona

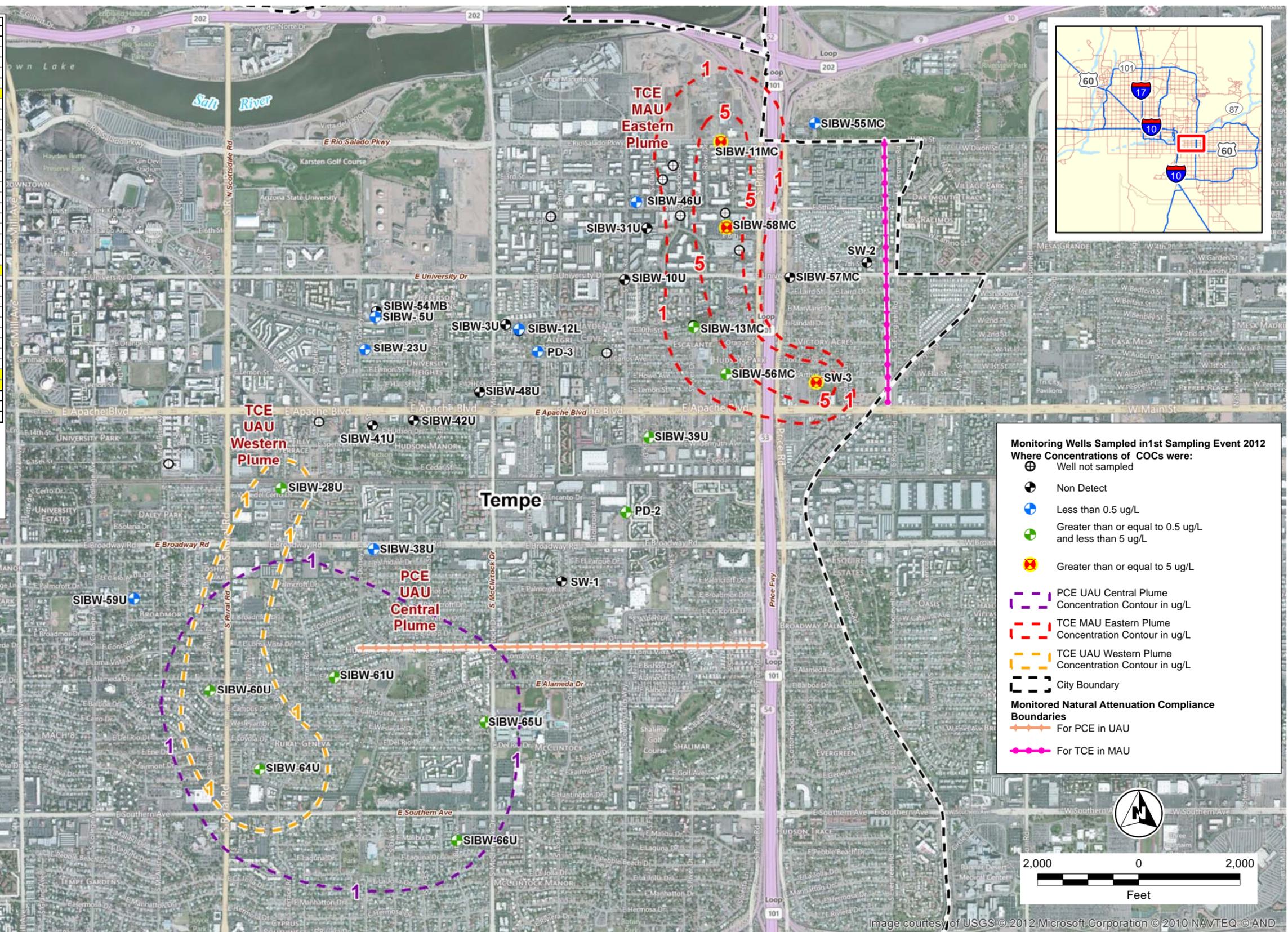
FIGURE 1
 Well Location Map

WELL	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene
PD-2	<0.50	0.69	<0.50
PD-3	<0.50	<0.50	0.27 J
SIBW- 3U	<0.50	<0.50	<0.50
SIBW- 5U	0.46 J	<0.50	0.48 J
SIBW- 10U	<0.50	<0.50	<0.50
SIBW-11MC	1.0	0.46 J	5.3
SIBW-12L	<0.50	<0.50	0.29 J
SIBW-13MC	0.30 J	0.26 J	2.0
SIBW-23U	<0.50	0.10 J	0.15 J
SIBW-28U	<0.50	0.23 J	0.75
SIBW-31U	<0.50	<0.50	<0.50
SIBW-38U	<0.50	0.21 J	<0.50
SIBW-39U	<0.50	0.63	<0.50
SIBW-39U DUP	<0.50	0.63	<0.50
SIBW-41U	<0.50	<0.50	<0.50
SIBW-42U	<0.50	<0.50	<0.50
SIBW-46U	<0.50	0.34 J	<0.50
SIBW-48U	<0.50	<0.50	<0.50
SIBW-54MB	<0.50	<0.50	<0.50
SIBW-55MC	<0.50	0.14 J	<0.50
SIBW-56MC	0.52	0.32 J	2.9
SIBW-57MC	<0.50	<0.50	<0.50
SIBW-58MC	1.3	0.54	5.7
SIBW-59U	<0.50	<0.50	0.18 J
SIBW-60U	0.32 J	1.2	1.6
SIBW-61U	<0.50	4.2	<0.50
SIBW-64U	<0.50	4.7	1.0
SIBW-65U	<0.50	1.2	<0.50
SIBW-66U	<0.50	1.2	<0.50
SW-1	<0.50	<0.50	<0.50
SW-1 DUP	<0.50	0.82	<0.50
SW-2	<0.50	<0.50	<0.50
SW-3	1.6	0.67	7.1
SW-3 DUP	1.4	0.63	5.5
Criteria (ug/L)			
MCL	70	5	5
Arizona AWQS	70	5	5

All results are in micrograms per liter (ug/L)
 <0.50 = result below the laboratory reporting limit (non-detect)
 AWQS = Aquifer Water Quality Standard
 J = estimated Value
 MCL = maximum contaminant level
 NA = not analyzed (not sampled)
 Well screened in the middle alluvial unit (MAU)
 Result above the maximum contaminant level.

Notes:
 Service Layer Credits: Image courtesy of USGS 2012, Microsoft Corporation 2010, and NAVTEC

AWQ aquifer water quality standard
 COC contaminant of concern
 UAU upper alluvial unit
 MAU middle alluvial unit
 MCL maximum contaminant level
 ND not detected
 PCE tetrachloroethene
 TCE trichloroethene
 ug/L micrograms per liter
 J indicates estimated result
 * indicates not detected at the reporting limit



Monitoring Wells Sampled in 1st Sampling Event 2012 Where Concentrations of COCs were:

- ⊕ Well not sampled
- ⊖ Non Detect
- ⊕ Less than 0.5 ug/L
- ⊕ Greater than or equal to 0.5 ug/L and less than 5 ug/L
- ⊕ Greater than or equal to 5 ug/L

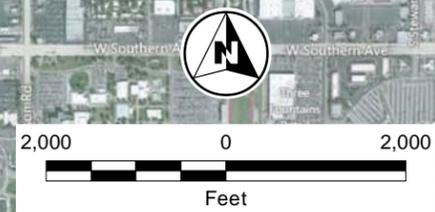
Concentration Contours in ug/L:

- PCE UAU Central Plume
- TCE MAU Eastern Plume
- TCE UAU Western Plume

City Boundary

Monitored Natural Attenuation Compliance Boundaries

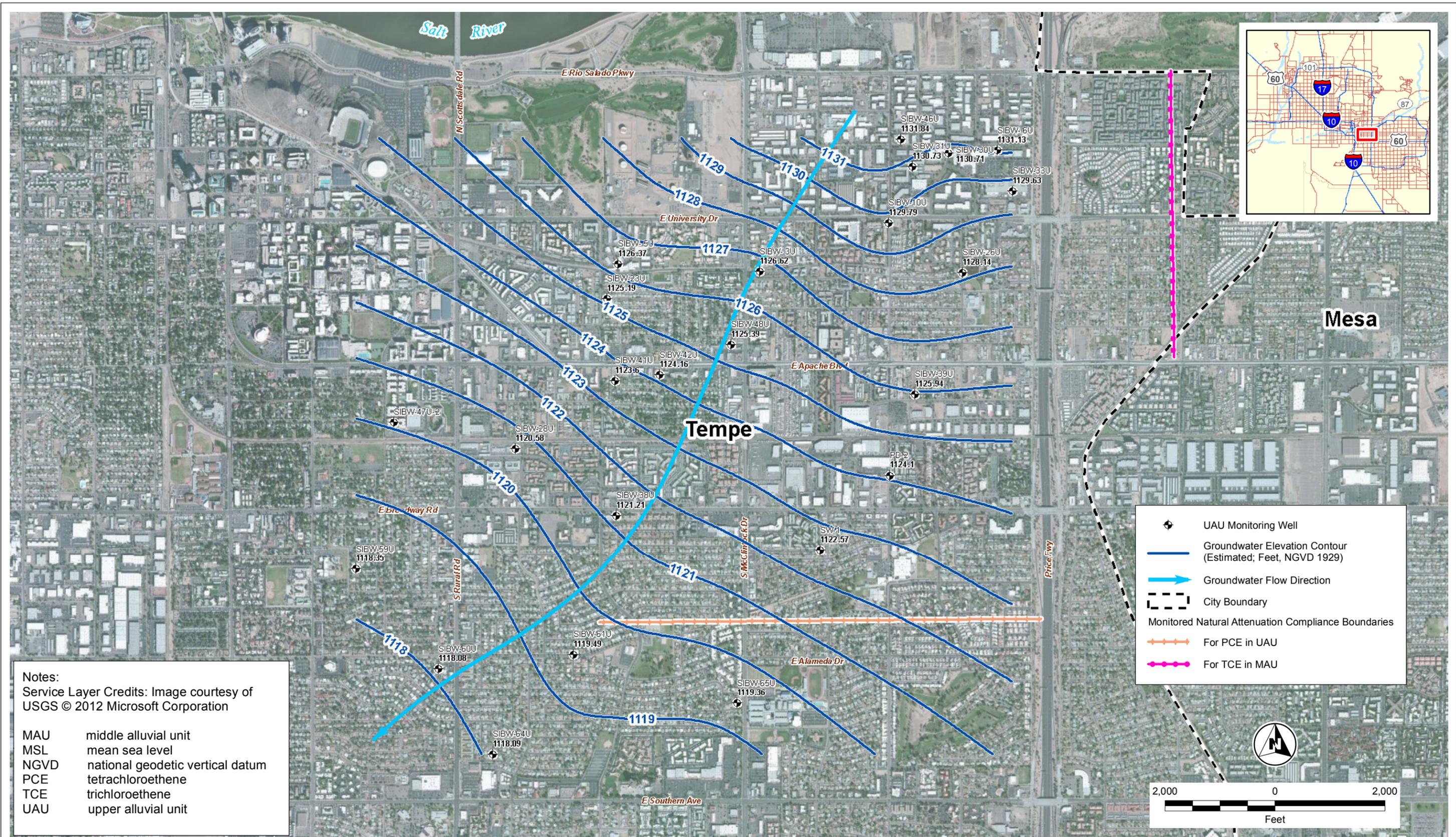
- For PCE in UAU
- For TCE in MAU



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FIGURE 2
 Groundwater Contamination Concentrations Map





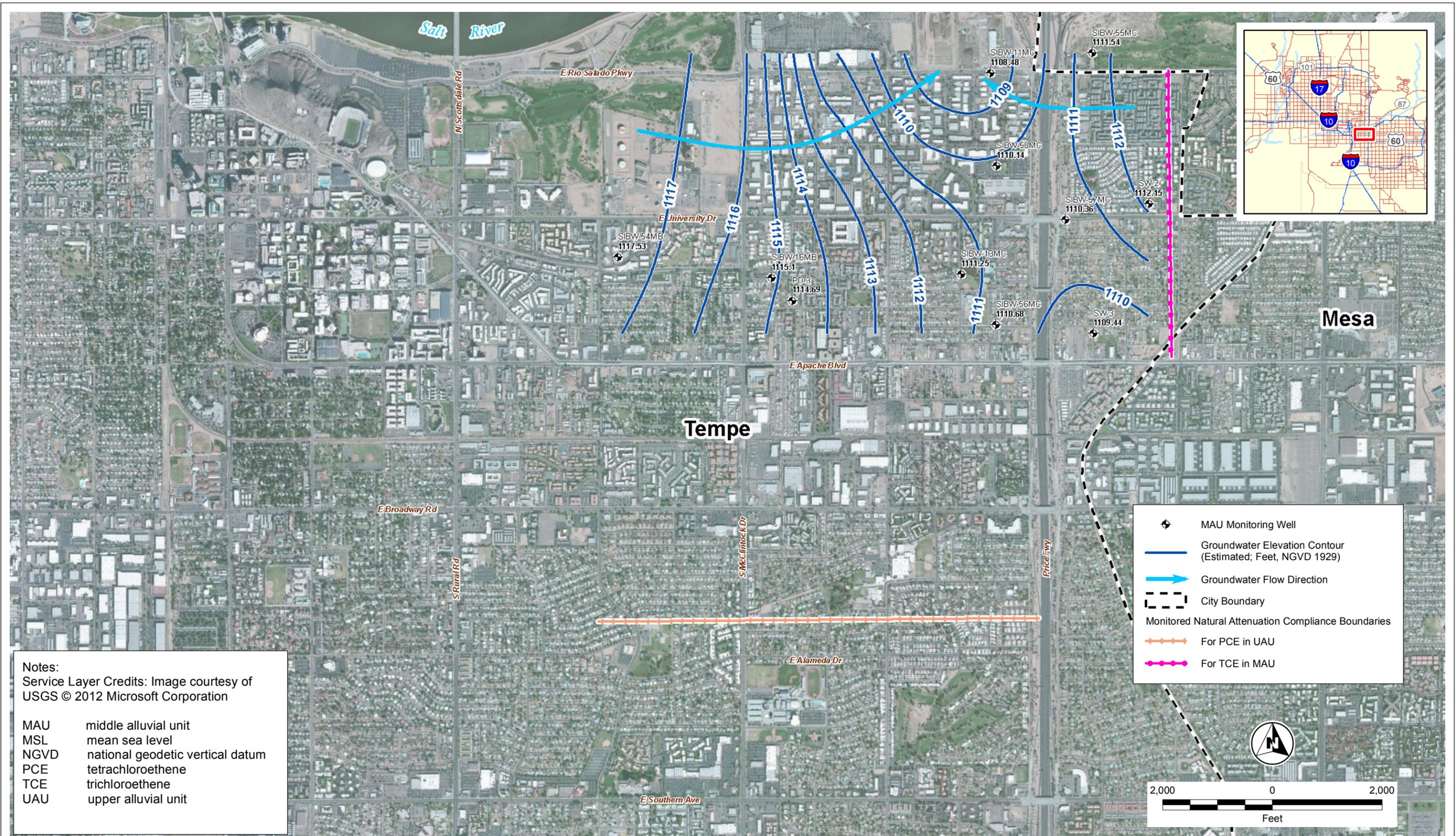
Notes:
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MAU	middle alluvial unit
MSL	mean sea level
NGVD	national geodetic vertical datum
PCE	tetrachloroethene
TCE	trichloroethene
UAU	upper alluvial unit

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FIGURE 3-A
 Groundwater Potentiometric Map,
 Upper Alluvial Unit

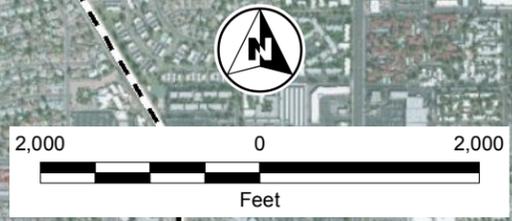




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MAU middle alluvial unit
 MSL mean sea level
 NGVD national geodetic vertical datum
 PCE tetrachloroethene
 TCE trichloroethene
 UAU upper alluvial unit

- ⊕ MAU Monitoring Well
- Groundwater Elevation Contour (Estimated; Feet, NGVD 1929)
- Groundwater Flow Direction
- - - City Boundary
- Monitored Natural Attenuation Compliance Boundaries
 - For PCE in UAU
 - For TCE in MAU



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FIGURE 3-B
 Groundwater Potentiometric Map,
 Middle Alluvial Unit