June 30, 2015

Subject: RE: PGA-N May 2015 Monthly Summary - COG

Dear Mr. Holmes, Ms. Erwin, and Ms. Rode,

In accordance with the agreement between the City of Goodyear (COG) and Crane Co., please find relevant portions of the May 2015 Groundwater Monthly Report and Remediation System Performance Summary as it pertains to the Main Treatment System (MTS), and the portions of the Subunit A and Subunit C trichloroethylene (TCE) plumes in the vicinity of City of Goodyear Well No. 3 (COG-03) associated with the Phoenix-Goodyear Airport-North (PGA-North) Superfund Site in Goodyear, Arizona.

The MTS groundwater remediation systems consist of five Subunit A groundwater extraction wells (EA-01, EA-02, EA-03, EA-09, and PZ-01), one Subunit B extraction well (EB-01), and two Subunit C extraction wells (EC-01 and MW-20). The groundwater extracted from these wells is treated for perchlorate and TCE, and the treated water is injected into the MTS injection well field which consists of six Subunit A vadose zone wells (IA-01, IA-02, IA-03, IA-04, IA-05, and IA-06). The average groundwater extraction and injection rates for the MTS remediation system wells during May 2015 are summarized below:

Subunit A Extraction Wells

- EA-01 – 45 gallons per minute (gpm)
- EA-02 – 0 gpm
- EA-03 – 90 gpm
- EA-09 – 194 gpm
- PZ-01 – 92 gpm

Subunit B Extraction Well

- EB-01 – 36 gpm

Subunit C Extraction Wells

- EC-01 – 110 gpm
- MW-20 – 35 gpm

Injection Wells

- IA-01 – 7 gpm
- IA-02 – 1 gpm
- IA-03 – 115 gpm
- IA-04 – 190 gpm
- IA-05 – 122 gpm
- IA-06 – 3 gpm

Beneficial Reuse of Treated Groundwater

EA-06 GTS

Approximately 2,623,510 gallons of treated groundwater was sent from the EA-06 GTS to the COG Community Park for irrigation purposes during this monthly reporting period.

MTS

Approximately 7,093,045 gallons was sent to the infiltration gallery and a portion of the treated groundwater was also used to irrigate the Bermuda grass and Rye grass plots.

Main Treatment System TCE Mass Removal

During this reporting period, approximately 24.1 million gallons (Mgals) of groundwater was extracted and treated at the MTS, removing 35.5 pounds of TCE.

Subunit A:

TCE

The May 2015 TCE concentrations in Subunit A monitor wells EPA MW-5A (10 µg/L), EPA MW-7A (34 µg/L), EPA MW-10A (31 µg/L), EPA MW-11A (1.0 µg/L), EPA MW-14A (7.5 µg/L) and, EPA MW-58A (54 µg/l) exceeded the MCL of 5 µg/L (Figure 1). The May 2015 TCE concentrations in monitor well EPA MW-8A is <0.20 µg/L, EPA MW-1A is 3.3 µg/L, and TCE concentrations in MW-27 is 1.3 µg/L, which are less than the MCL. The current TCE mass in this area is related to the unintentional reinjection of untreated water that occurred at the MTS injection well field from approximately 1997 through 2001. This process of migration has been demonstrated by an evaluation of historic and current groundwater flow directions and TCE concentrations trends in the wells listed above (Figure 2). The MTS Expansion Work Plan which was submitted to EPA on April 30, 2014 includes the installation of one extraction well (EA-10) and one injection well (IA-09) that will help remove TCE from this area. Injection well IA-09 was installed in March 2015 and discharge of treated effluent to IA-09 at a rate of 100 gpm began on May 21, 2015. Extraction well EA-10 construction activities were completed on May 15, 2015, and well development activities were completed on May 26, 2015. These wells are expected to be operational by June 30, 2015.

The current injection of treated water at the MTS well field and infiltration gallery has created a groundwater mound in Subunit A at the southern portion of the Site that has resulted in local shifts in groundwater flow directions relative to pre-injection conditions. As such, the May 2015 groundwater flow direction in the COG-03 area is toward the northeast (Figure 1). Although the mound has created a localized northeast flow direction, the injection of treated water in this area is also providing dilution to the TCE mass that is present in the COG-03 area. This is evidenced by the TCE trend and current concentration in monitor well MW-27 (Figure 2). As we have discussed production well COG-03 is screened in Subunit C and, based on geochemical data, withdraws little to no groundwater from Subunit A.

Tetrachloroethene (PCE)

The presence of PCE in the COG-03 area is related to the Arizona Department of Environmental Quality (ADEQ) Western Avenue Water Quality Assurance Revolving Fund (WQARF) site and

not PGA-North. The May 2015, PCE concentrations in several key Subunit A monitor wells in the COG-03 Area, EPA MW-7A (0.57 J µg/L), EPA MW-10A (0.54 J µg/L), EPA MW-11A (0.59 J µg/L), EPA MW-8A (0.84 J µg/L), and EPA MW-58A (1.6 µg/L), indicate the detectable PCE concentrations that are currently below the MCL (Figure 3). Crane Co. will continue to monitor and evaluate PCE concentrations in this area on a monthly basis.

Subunit C:

TCE

The May 2015 Subunit C TCE concentrations in monitor wells MW-21 (3.6 µg/L), EPA MW-2C (<0.20 U), EPA MW-9C (3.0 µg/L), and EPA MW-10C (3.3 µg/L) show concentrations that are below the MCL. The TCE concentration EPA MW-1C (32.1 ug/L) indicate concentrations that is above the MCL (Figure 4). The increasing TCE in EPA MW-1C (32.1 µg/L) is more than likely a result of TCE in the area moving with the regional groundwater flow direction, toward the northwest, away from COG-03 (Figure 5). The Subunit C TCE mass in the COG-03 area is due to vertical migration that occurred into Subunit C due to the compromised structural integrity of former wells COG-02 and old COG-02 that acted as conduits.

The May 2015 Subunit C TCE concentration and potentiometric surface map (Figure 4) depicts the groundwater flow fields in upper Subunit C during a period when COG-03 was operational.

PCE

The May 2015 PCE concentrations in vicinity Subunit C monitor wells, EPA MW-9C and EPA MW-10C are below the laboratory detection limit of <0.23 µg/L. The May 2015 Subunit C monitor well EPA MW-8C indicated a detectable PCE concentration of 1.2 µg/L. Similar to Subunit A, the PCE in monitor well EPA MW-8C is also related to the Western Ave WQARF site. As a courtesy to COG, Crane Co. will continue to monitor and evaluate PCE concentrations in this area on a monthly basis.

Protection of COG-03

COG-03 continues to be sampled twice per month from May through October and monthly from November through April. TCE concentrations continue to be less than the laboratory detection limit of <0.20 µg/L. Subunit C Sentinel well EPA MW-2C was installed in the fourth quarter of 2011 to monitor TCE local concentrations in the COG-03 area. Additionally, Subunit A monitor wells EPA MW-10A, EPA MW-58A and Subunit C monitor wells EPA MW-9C and EPA MW-10C will continue to be sampled monthly from November through April and bi-monthly during the heavy pumping season May through October.

Extraction well EA-09, located south of I-10, west of Litchfield Road along Celebrate Life Way commenced operation on October 21, 2013 helps capture the Subunit A TCE plume in this area and shift the groundwater flow directions toward the north/northwest further enhancing the protection of COG-03. Injection well IA-09 has been operational since May 21, 2015 and extraction well EA-10 became operational on June 30, 2015. As these wells continue to work in concert with one another they will; 1) address and mitigate the northeastern migration of the

Subunit A TCE plume in the vicinity of COG-03 by shifting the groundwater flow fields toward the northwest; and 2) expedite the reduction of TCE mass in the area.

Activities Planned for July 2015

- Continued operation and maintenance of the existing treatment systems.
- Monthly groundwater sampling and water level measurements of key performance and plume delineation monitor wells in the COG-03 area.
- Continue to evaluate water levels, TCE and PCE concentrations, and groundwater flow directions in the COG-03 area.
- Evaluate aquifer response due to pumping from extraction well EA-10, and monitor TCE and perchlorate concentrations from pumped groundwater.
- Continue operation of injection well IA-09 and evaluate local water levels and TCE concentrations.

Please feel free to give me a call if you have any questions or if you need additional information.

Regards,

Harry

Harry Brenton, RG
Director of Hydrogeological Services

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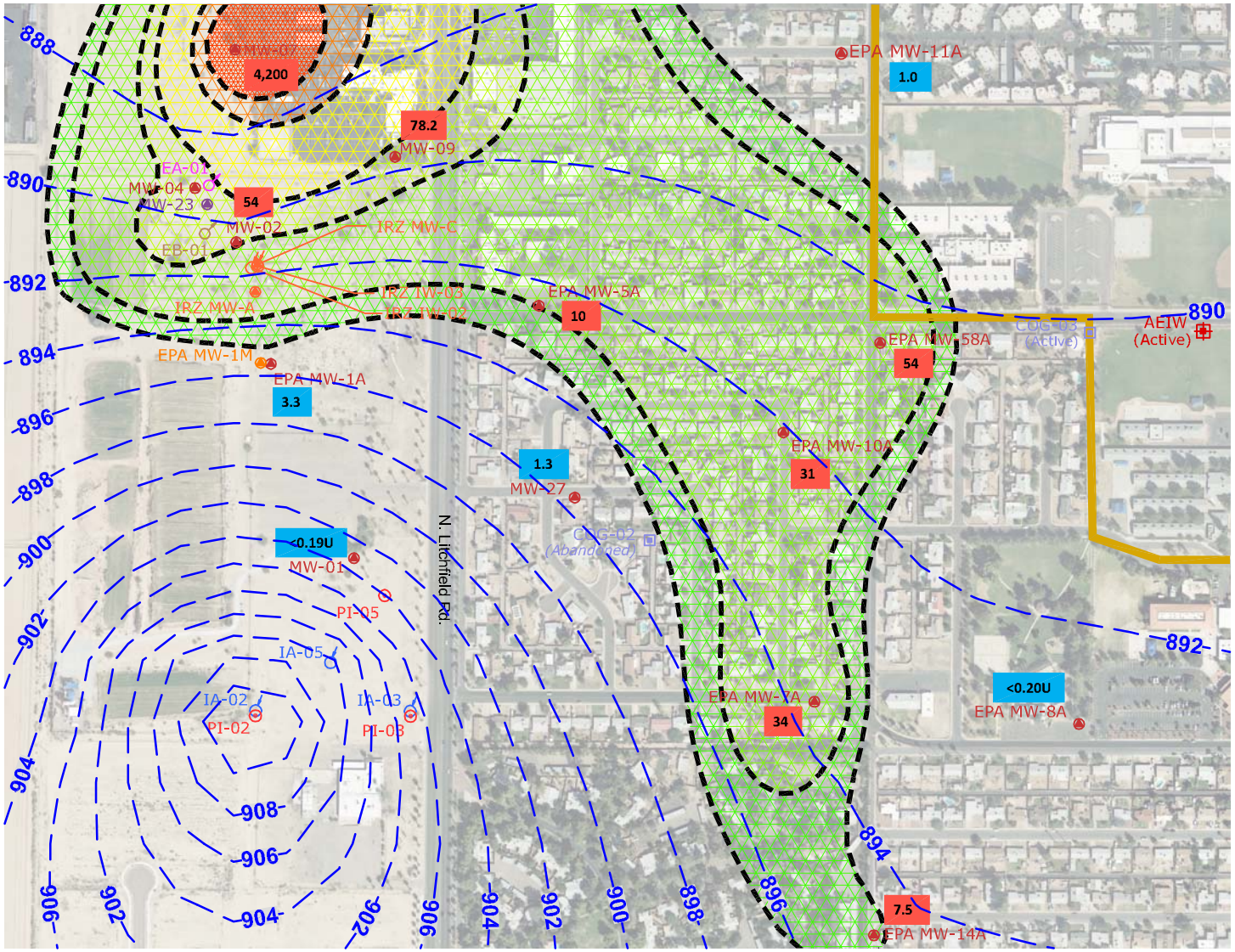

TCE concentration 5µg/L to 10µg/L

TCE concentration 10µg/L to 30µg/L

TCE concentration 30µg/L to 100µg/L

TCE concentration 100 µg/L to 500 µg/L

TCE concentration 500 µg/L to 1000 µg/L

TCE concentration > 1000 µg/L

Explanation

882 — Potentiometric Isocontour showing groundwater elevation in feet above MSL; dashed where inferred

– 5 – Isocontour showing TCE concentration in µg/L. dashed where inferred.

EPA MW-1C — Subunit C monitor well (Upper Unit)

EPA MW-2C — Subunit C monitor well (Middle Unit)

MW-10 — Subunit C monitor well (Lower Unit)

COG-02 — City of Goodyear supply well

OW-B — Observation well

AEIW — Avondale Elementary irrigation well

2.2 — TCE Concentration < 5 µg/L

5.8 — TCE Concentration > 5 µg/L

PHOENIX - GOODYEAR AIRPORT - NORTH SUPERFUND SITE
404 S. LITCHFIELD ROAD GOODYEAR
MARICOPA COUNTY, ARIZONA

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SUBUNIT A TCE CONCENTRATIONS and GROUNDWATER CONTOURS
MAY 2015

DRAWN BY: LM	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 06-15-15	DATE: 06-15-15	DATE: 6-15-15	SCALE: 1" = 500'

FIGURE NUMBER: 1

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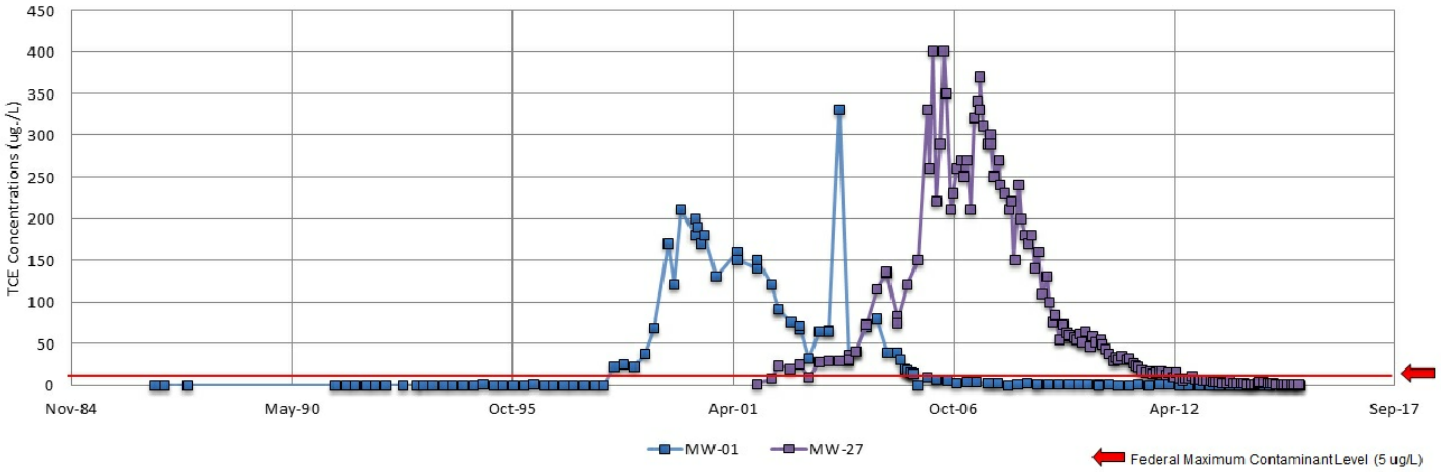
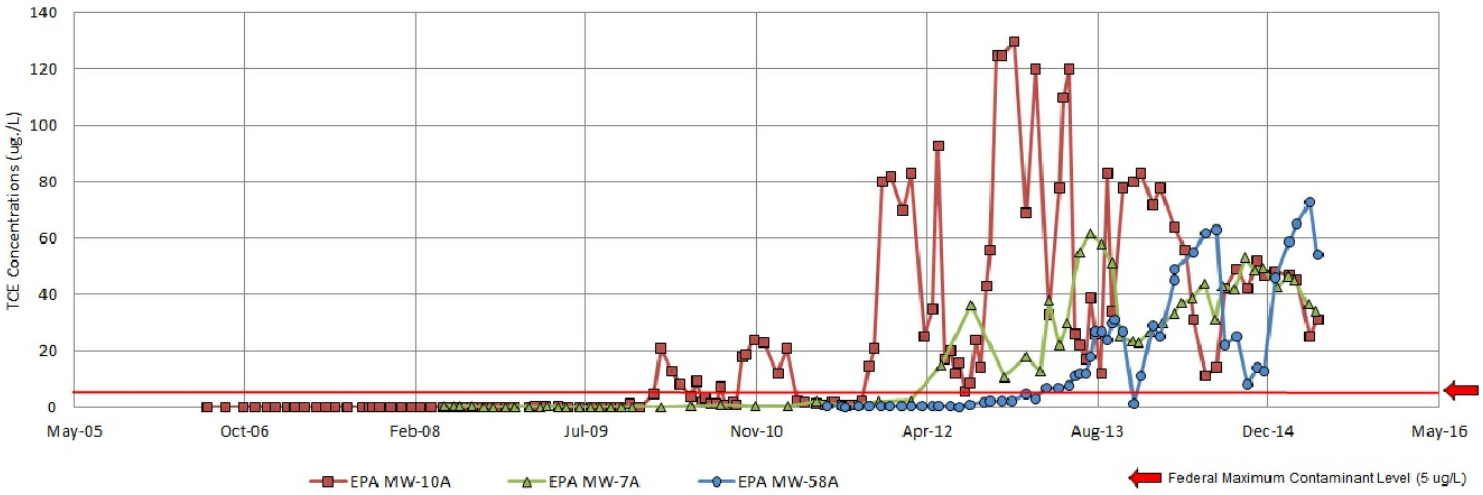
TCE Concentrations MW-01 and MW-27
Phoenix-Goodyear Airport-North
Goodyear, AZ



TCE Concentrations EPA MW-10A, EPA MW-7A, and EPA-MW 58A
Phoenix-Goodyear Airport-North
Goodyear, AZ



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TCE TREND GRAPHS
SUBUNIT A
COG-03 Area

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	LM	HB	15-100E
DATE:	DATE:	DATE:	SCALE:
6-15-15	6-15-15	6-15-15	NONE

FIGURE NUMBER:
2

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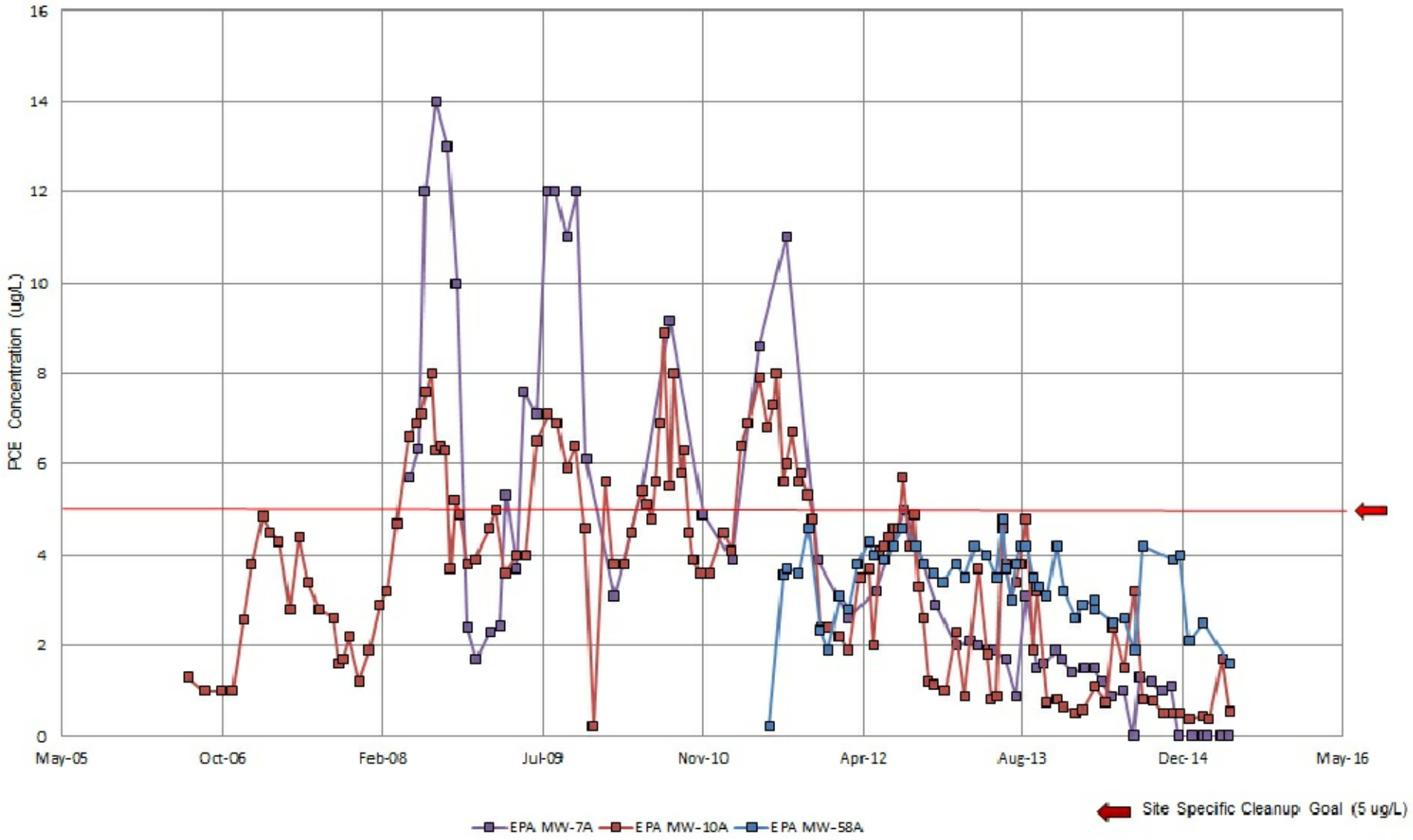
PCE Concentrations EPA MW-10A, EPA MW-7A, and EPA MW-58A
Phoenix-Goodyear Airport-North
Goodyear, AZ



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PCE TREND GRAPHS
SUBUNIT A
COG-03 Area

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER:
3

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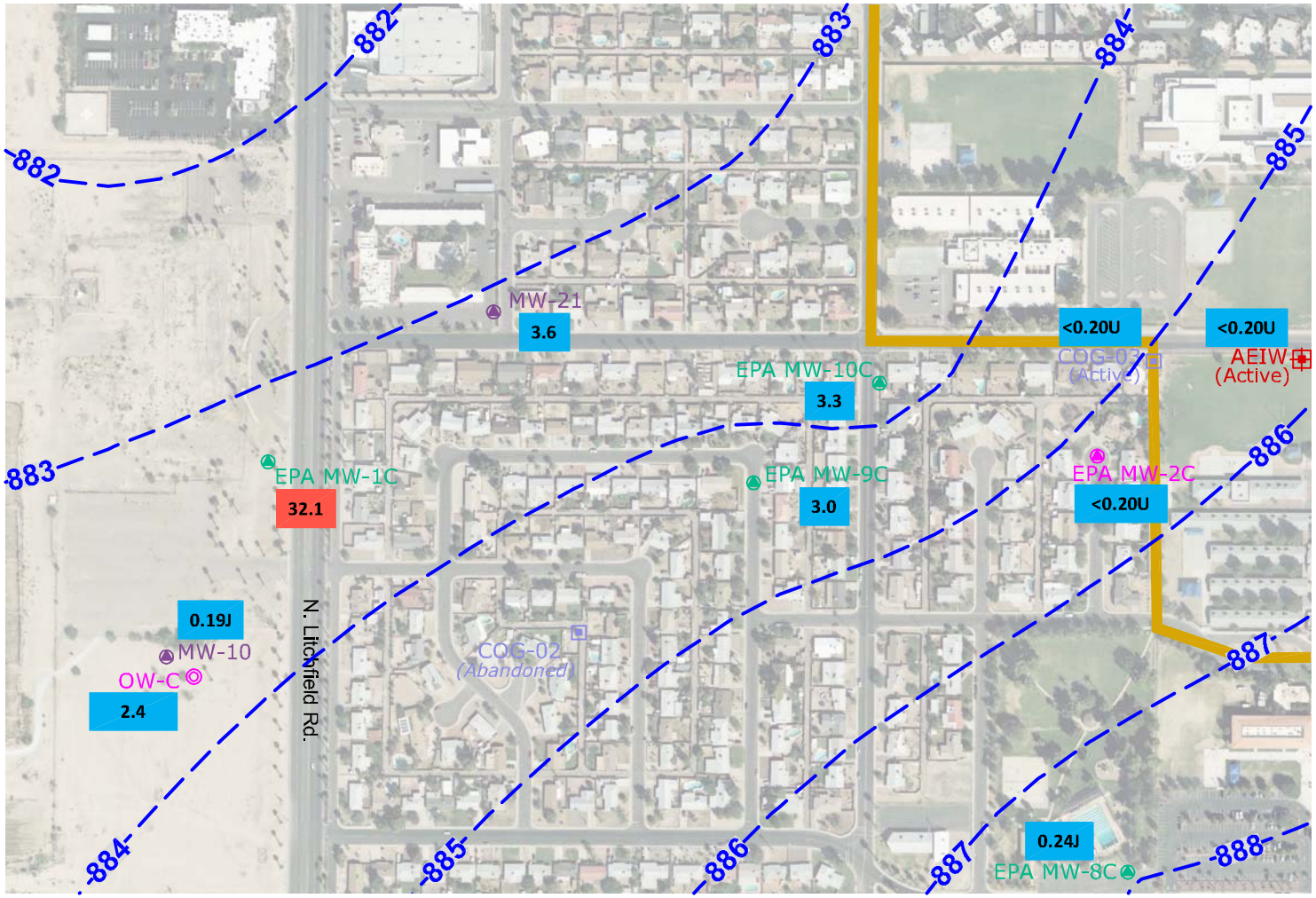

Explanation

882 — Upper Subunit C Potentiometric Isocontour showing groundwater elevation in feet above MSL; dashed where inferred

EPA MW-1C — Subunit C monitor well (Upper Unit)

EPA MW-2C — Subunit C monitor well (Middle Unit)

MW-10 — Subunit C monitor well (Lower Unit)

COG-02 — City of Goodyear supply well

OW-B — Observation well

AEIW — Avondale Elementary irrigation well

4.0 — TCE Concentration < 5 µg/L

5.2 — TCE Concentration > 5 µg/L

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UPPER, MIDDLE, & LOWER SUBUNIT C
TCE CONCENTRATIONS
MAY 2015

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
LM	LM	HB	15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: 1" = 400'

FIGURE NUMBER:
4

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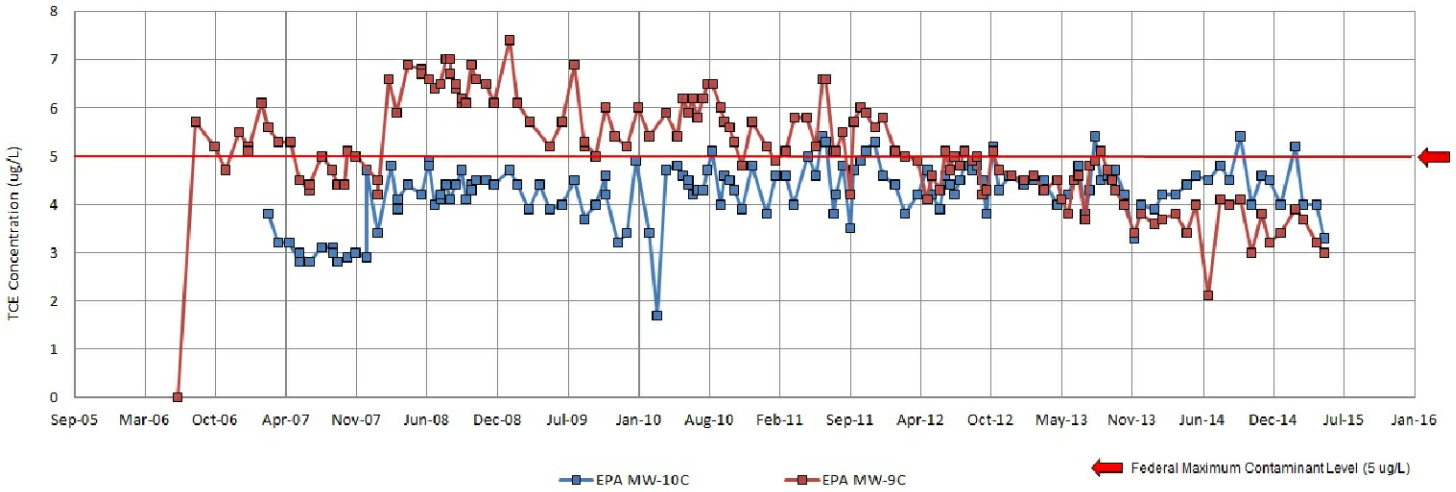
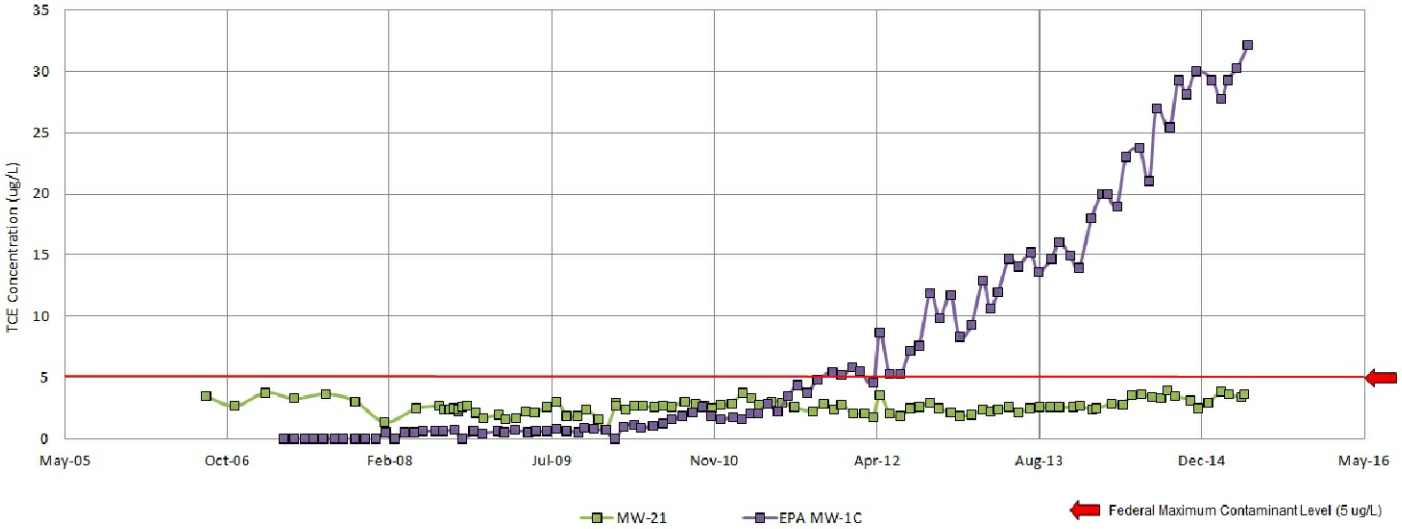
TCE Concentrations EPA MW-9C and EPA MW-10C
Phoenix-Goodyear Airport-North
Goodyear, AZ



TCE Concentrations EPA MW-1C and MW-21
Phoenix-Goodyear Airport-North
Goodyear, AZ



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TCE TREND GRAPHS
UPPER & MIDDLE SUBUNIT C
COG-03 Area

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER:
5

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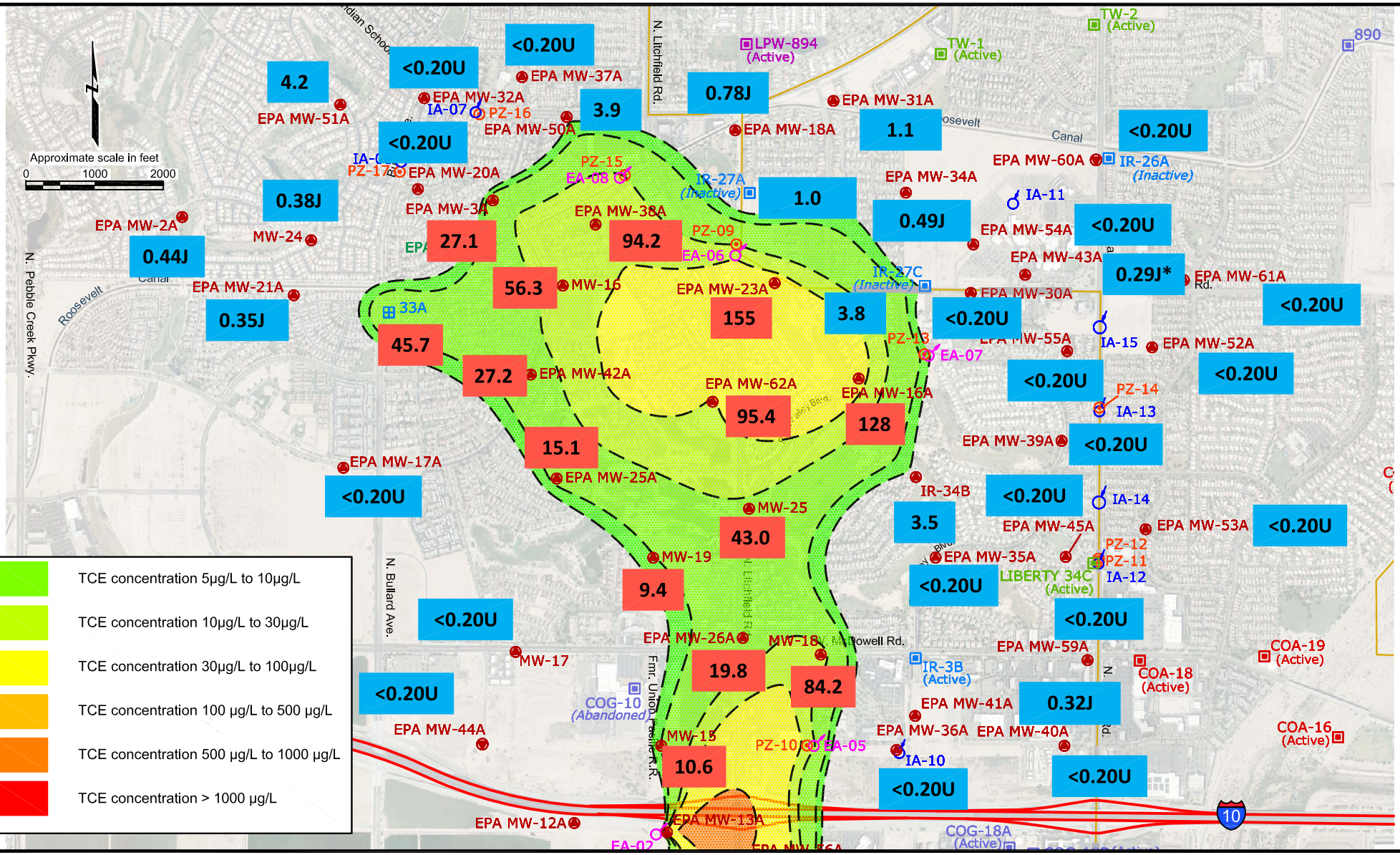

Explanation

— — Isocontour showing TCE concentration in µg/L. dashed where inferred. Based on May 2015 data.

0.20U TCE Concentration < 5 µg/L

9.9 TCE Concentration ≥ 5 µg/L

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SUBUNIT A TCE CONCENTRATIONS
NORTH OF I-10
MAY 2015

DRAWN BY: AH	DESIGNED BY: AH	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 06-15-15	DATE: 06-15-15	DATE: 06-15-15	SCALE: 1" = 2000'

FIGURE NUMBER: 1

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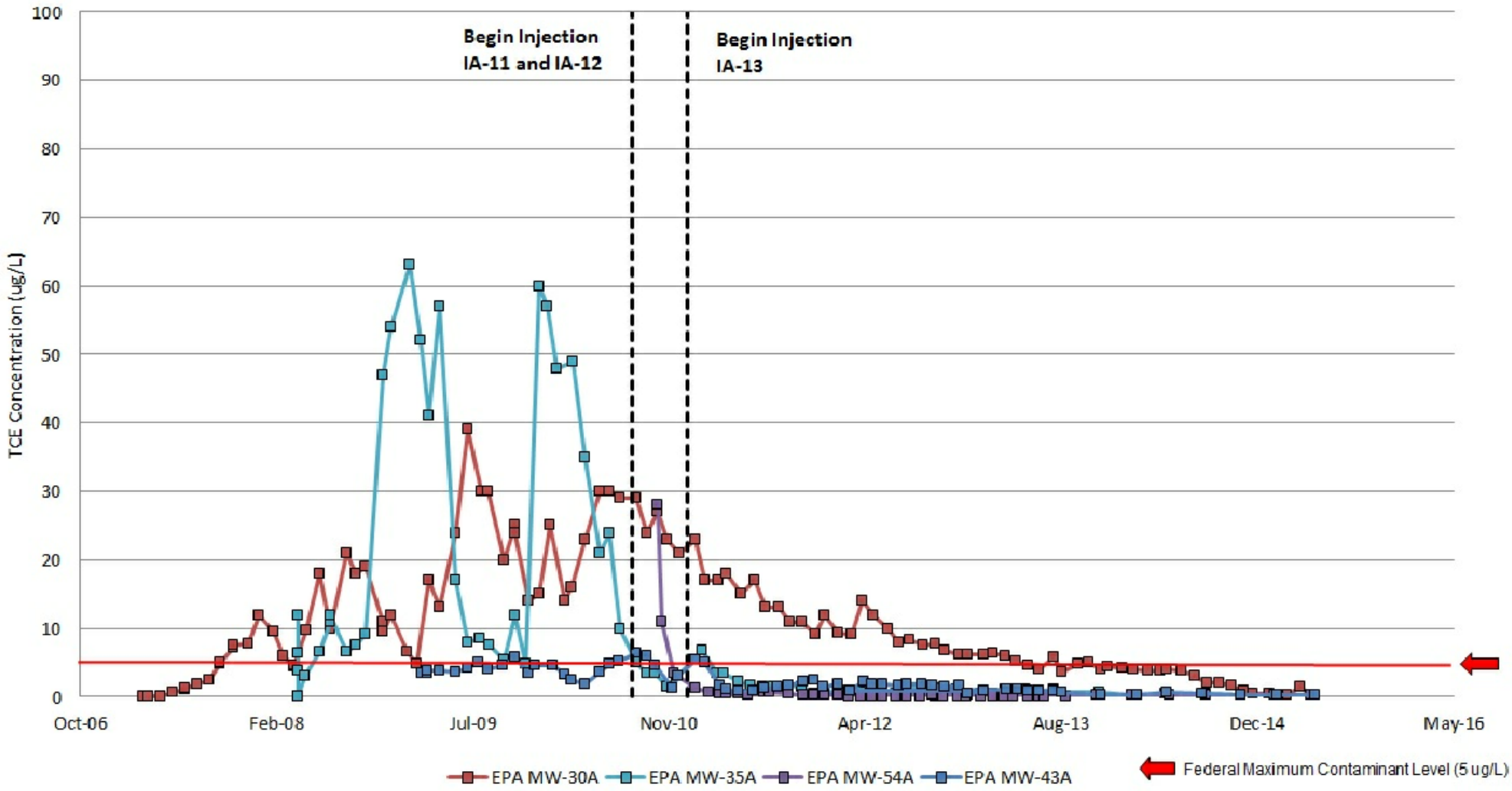
TCE Concentrations EPA MW-30A, EPA MW-35A, EPA MW-43A, and EPA MW-54A
Phoenix-Goodyear Airport-North
Goodyear, AZ



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TCE TREND GRAPHS-PERFORMANCE MONITOR WELLS - SUBUNIT A NORTHEAST AREA

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	AH	HB	15-100E
DATE:	DATE:	DATE:	SCALE:
6-15-15	6-15-15	6-15-15	NONE

FIGURE NUMBER:
2

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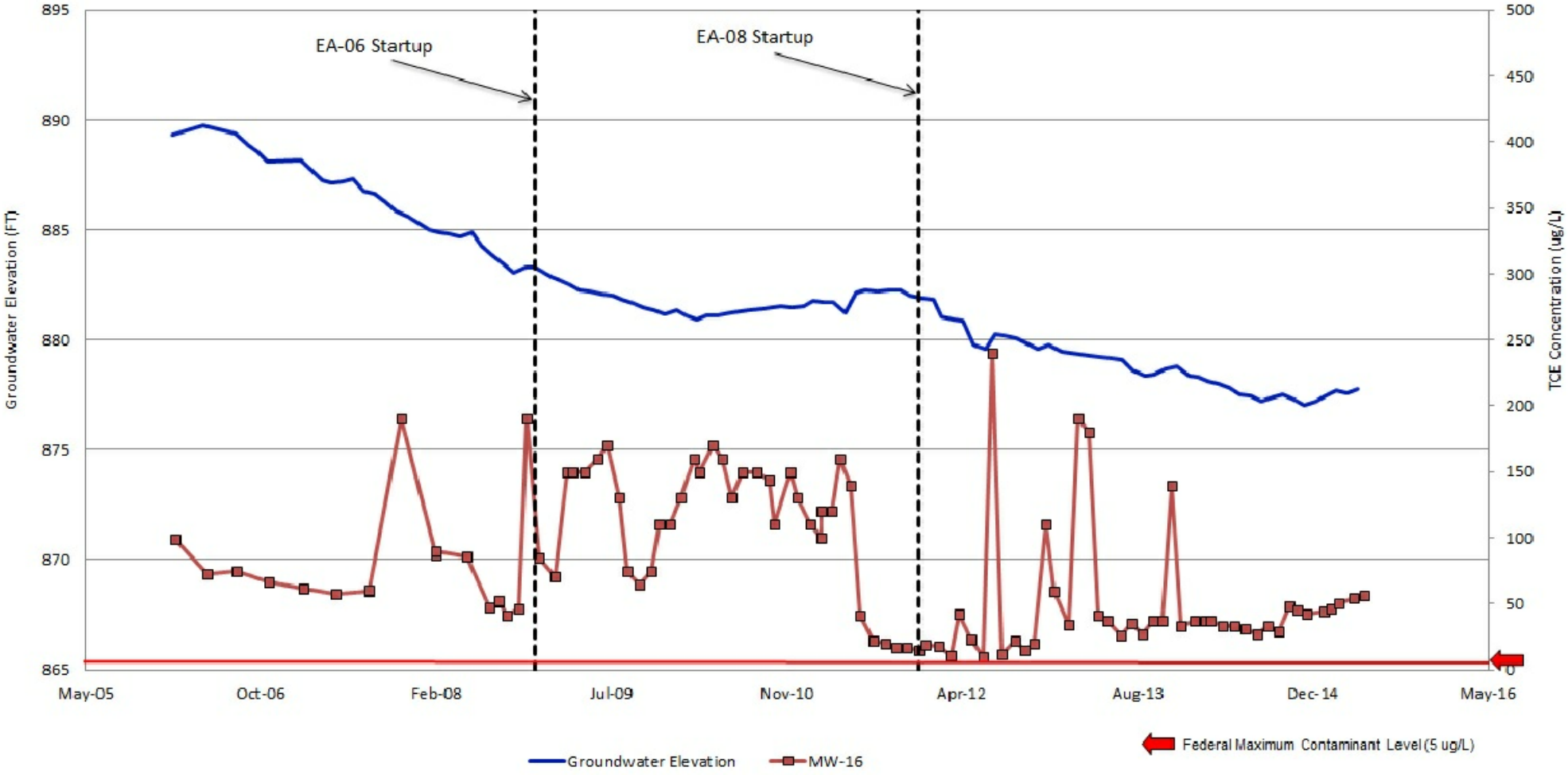
MW-16 GROUNDWATER LEVELS and TCE CONCENTRATIONS (2006 - 2015)
Phoenix-Goodyear Airport-North
Goodyear, AZ



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GROUNDWATER ELEVATION & TCE CONCENTRATION TRENDS
MW-16

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	AH	HB	15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER: 3

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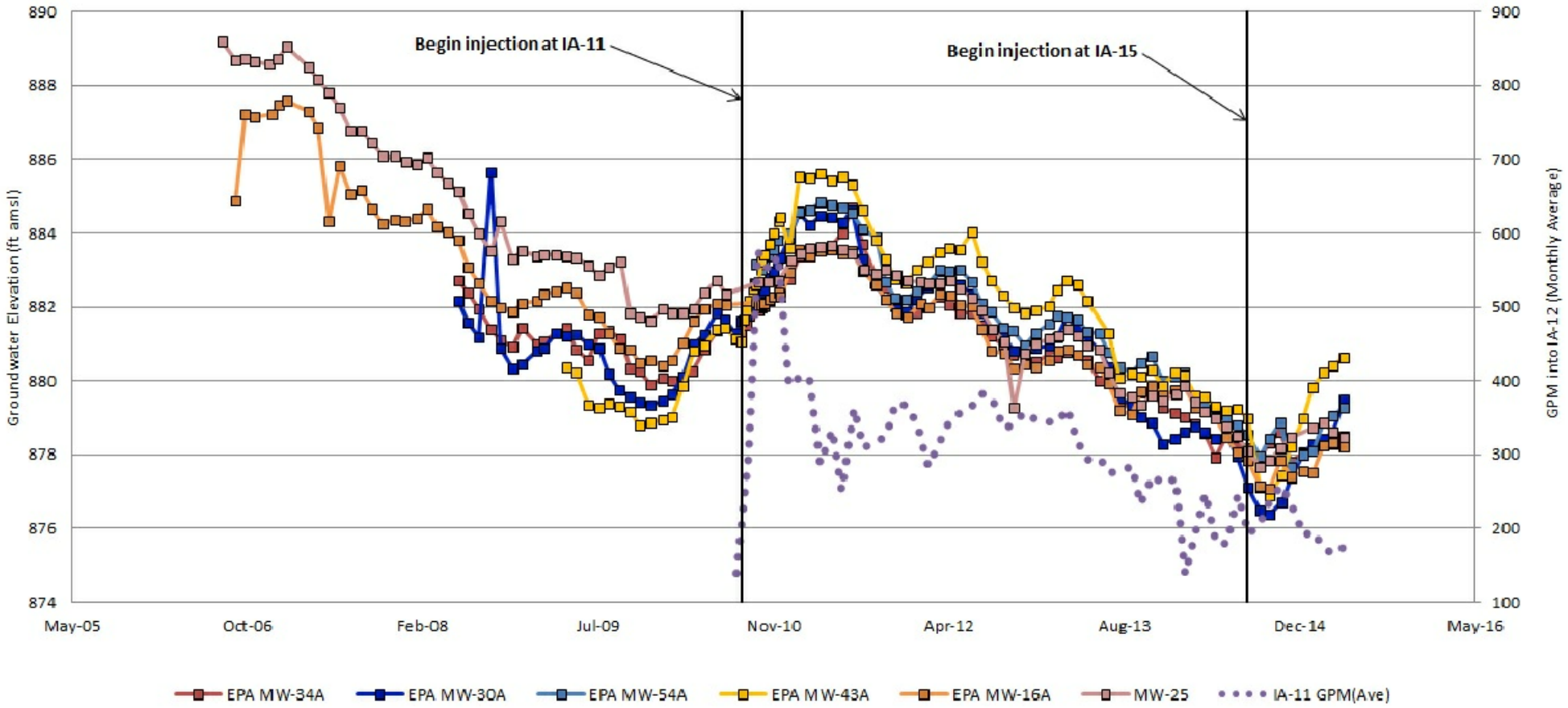
Hydrograph - IA-11 Area Wells
Phoenix-Goodyear Airport-North
Goodyear, AZ



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NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS
INJECTION WELL IA-11 AREA

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER: 4

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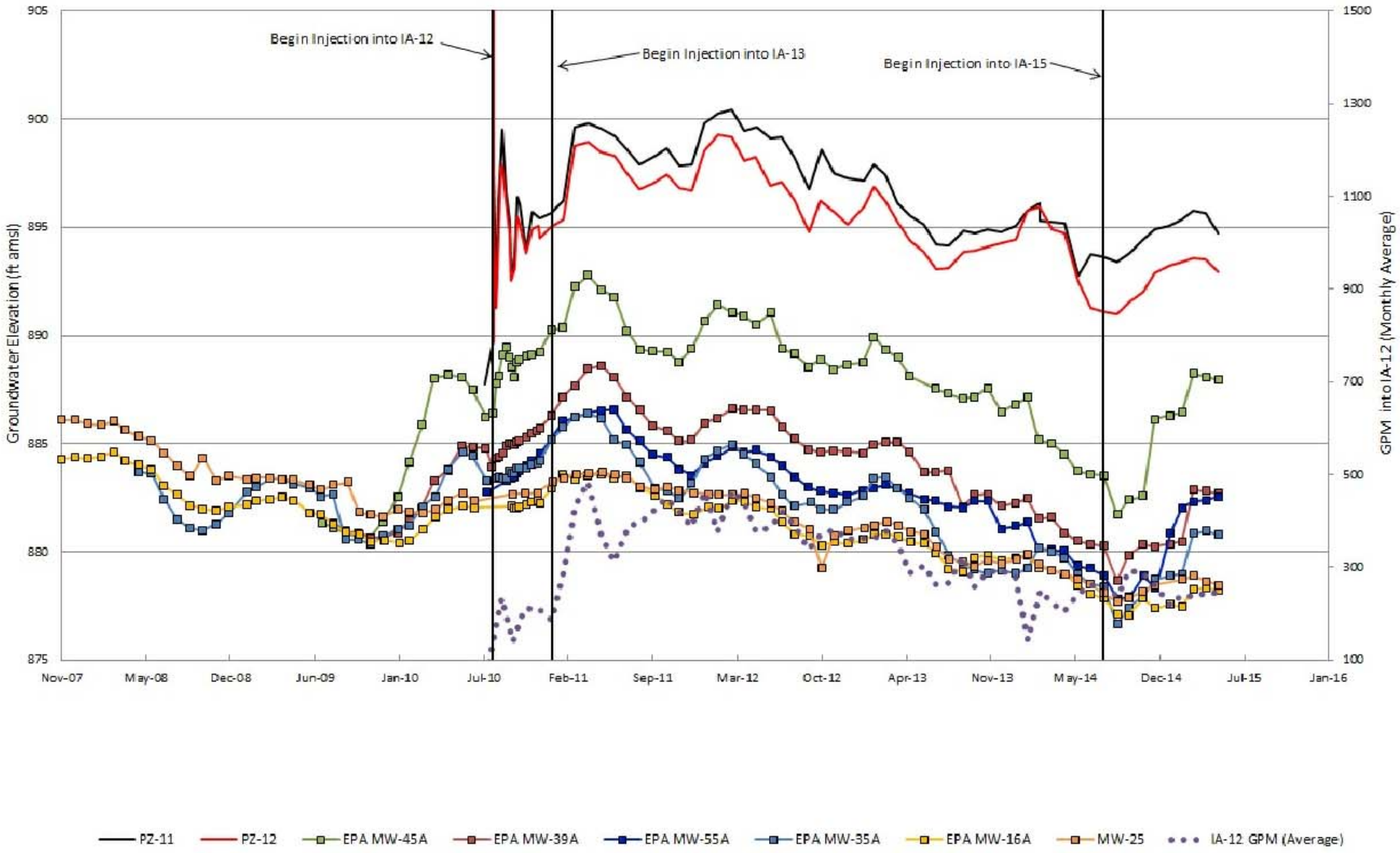
Hydrograph - IA-12 and IA-13 Area Wells
Phoenix-Goodyear Airport-North
Goodyear, AZ



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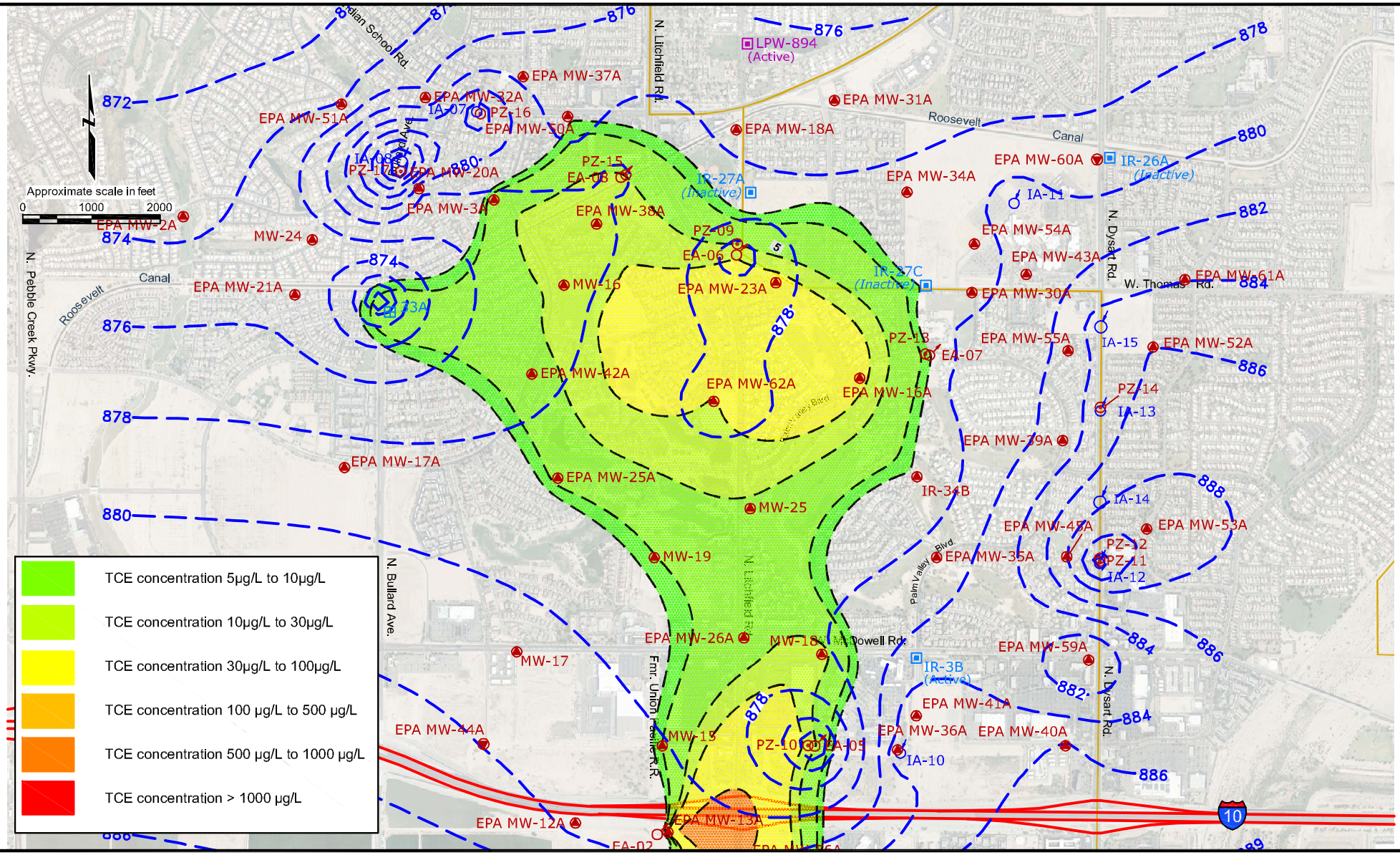
NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS
INJECTION WELL IA-12 and IA-13 AREA

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER:
5

© MATRIXNEWORLD\F:\2015\15-100 PGA-North\CAD\City Summaries\05-May\COA-COLP\COA-CLP Figure 5_May 2015.dwg



Explanation

882 — Potentiometric Isocontour showing groundwater elevation in feet above MSL; dashed where inferred

— — Isocontour showing TCE concentration in µg/L. dashed where inferred. Based on April 2015 data.

PHOENIX - GOODYEAR AIRPORT - NORTH SUPERFUND SITE
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MARICOPA COUNTY, ARIZONA

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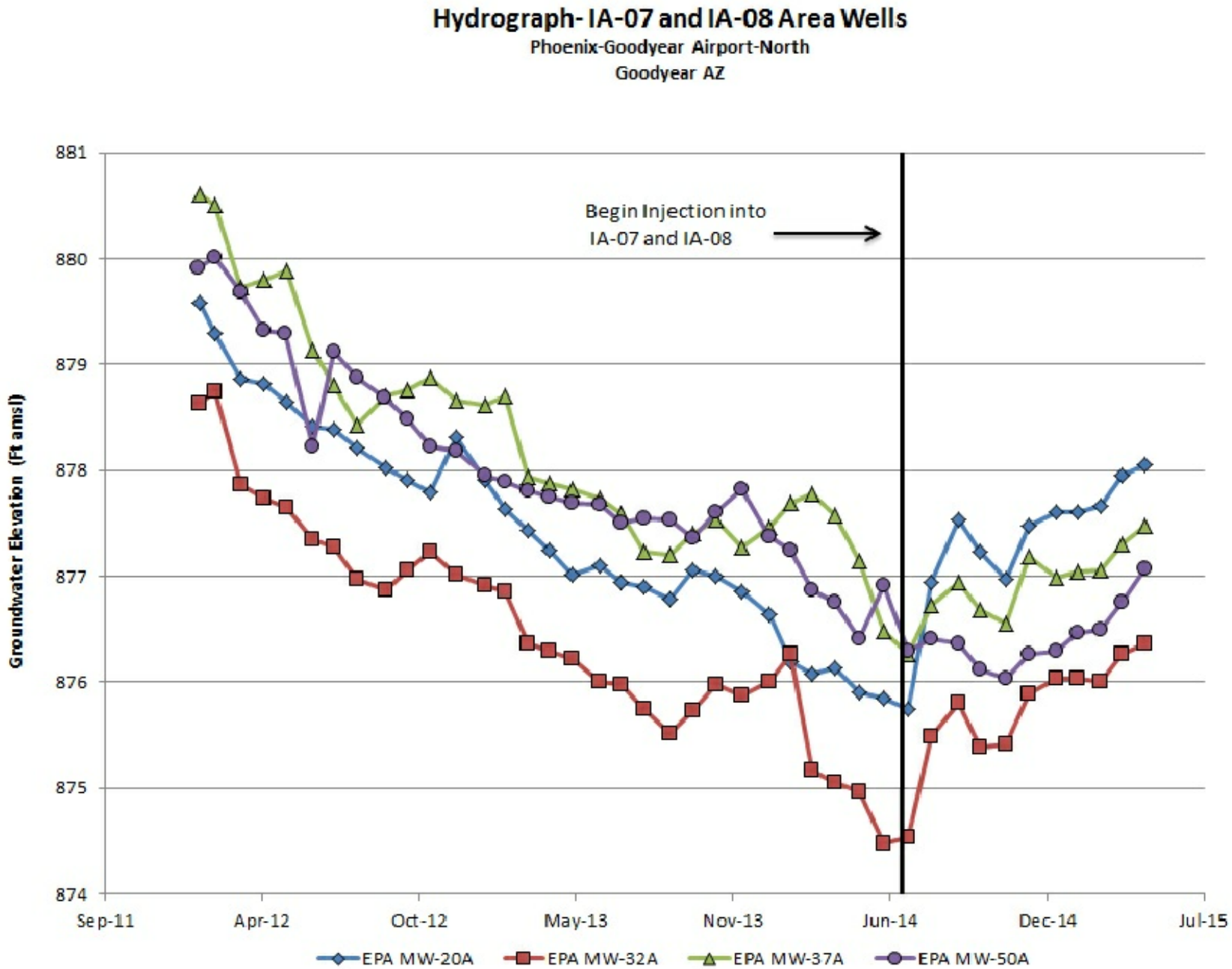
SUBUNIT A GROUNDWATER CONTOURS AND TCE PLUME NORTH OF I-10
MAY 2015

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	AH	HB	15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: 1" = 2000'

FIGURE NUMBER: 6

© MATRIXNEWORLD \F:\2015\15-100 PGA-North\CAD\City Summaries\05-May\COA-COLP\COA-CLP Figure 6_May 2015.dwg



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NW AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS
INJECTION WELL IA-07 and IA-08 AREA

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER:
7

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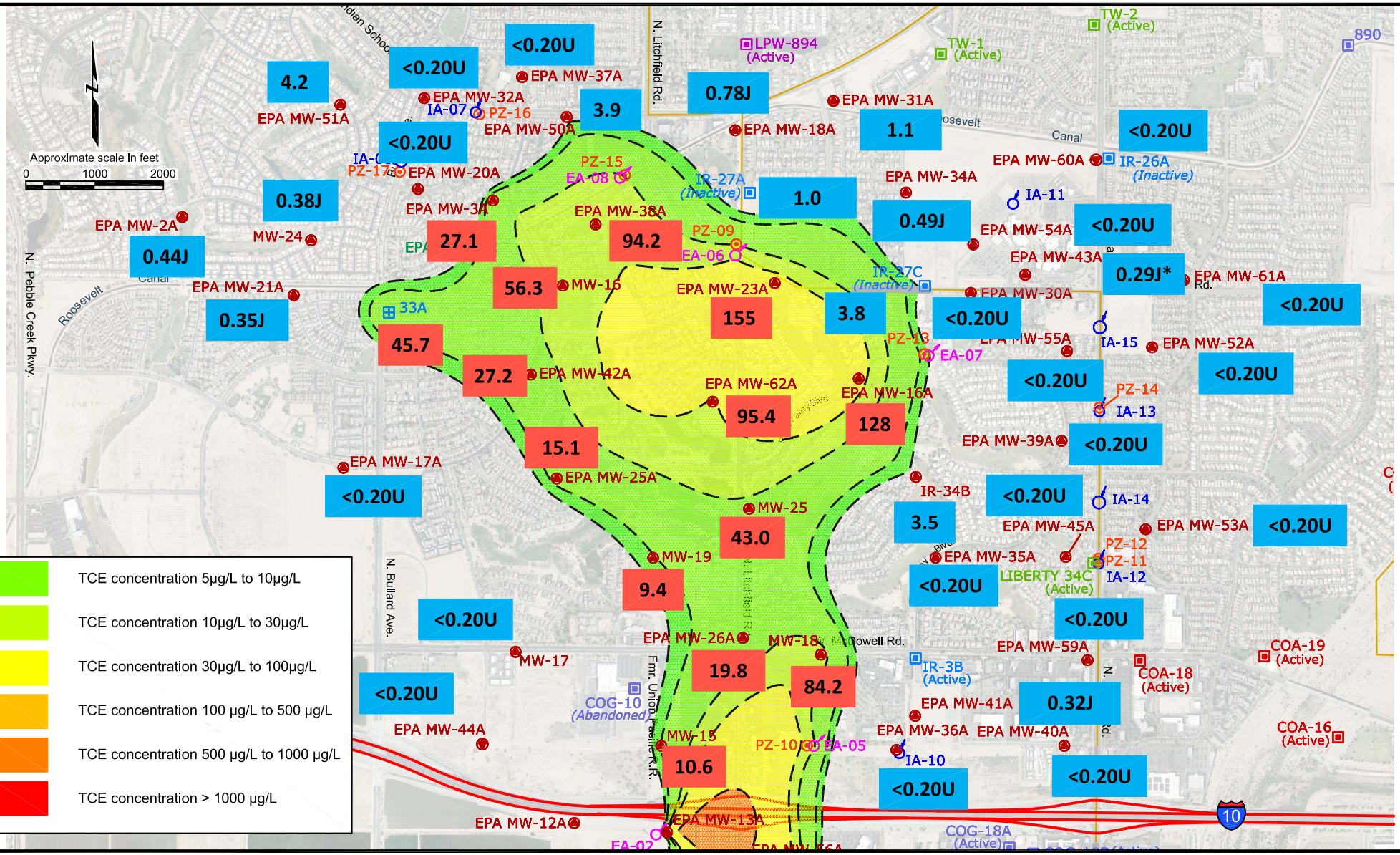

Explanation

— — Isocontour showing TCE concentration in µg/L. dashed where inferred. Based on May 2015 data.

0.20U TCE Concentration < 5 µg/L

9.9 TCE Concentration ≥ 5 µg/L

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MARICOPA COUNTY, ARIZONA

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SUBUNIT A TCE CONCENTRATIONS
NORTH OF I-10
MAY 2015

DRAWN BY: AH	DESIGNED BY: AH	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 06-15-15	DATE: 06-15-15	DATE: 06-15-15	SCALE: 1" = 2000'

FIGURE NUMBER: 1

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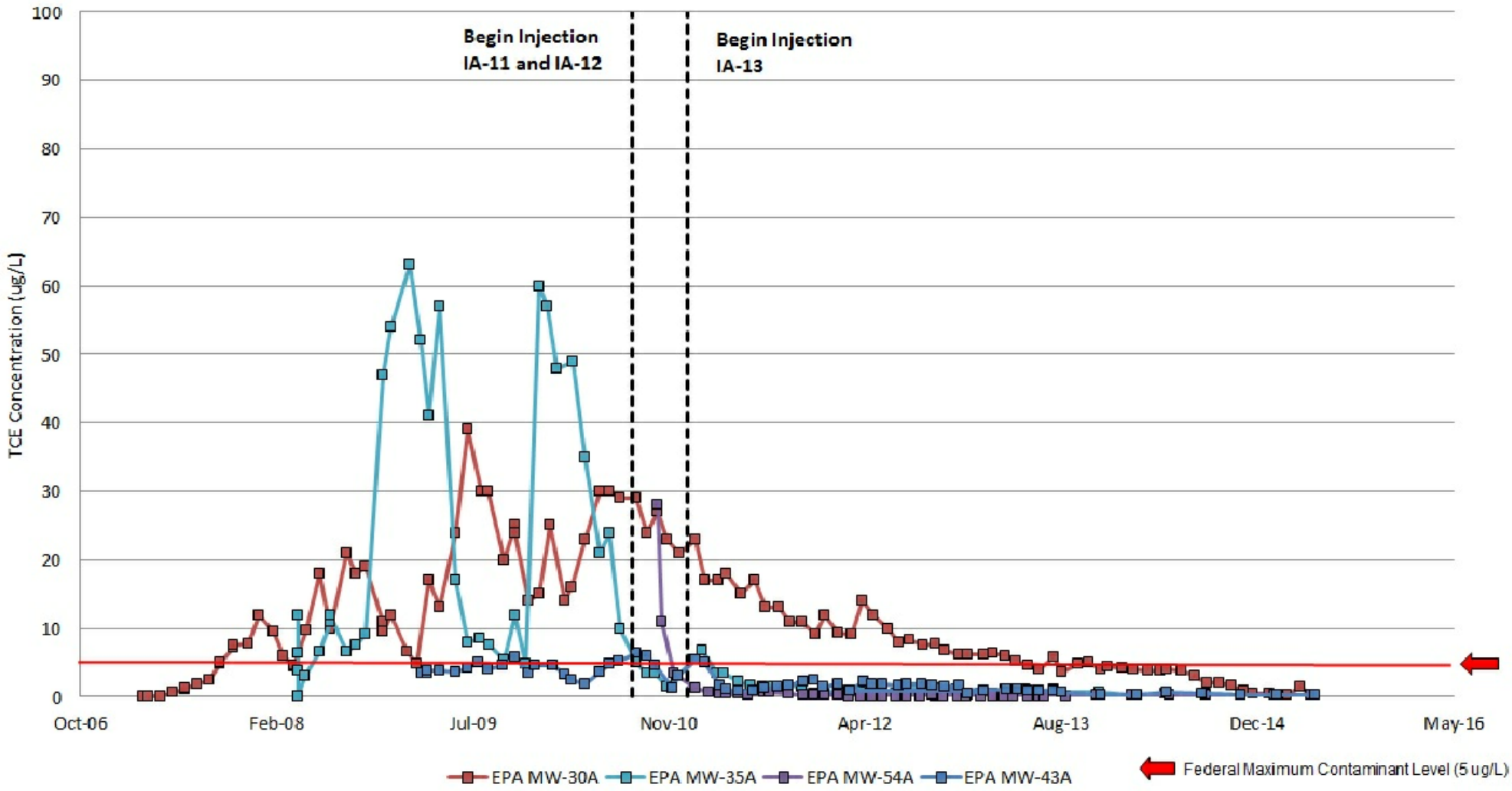
TCE Concentrations EPA MW-30A, EPA MW-35A, EPA MW-43A, and EPA MW-54A
Phoenix-Goodyear Airport-North
Goodyear, AZ



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TCE TREND GRAPHS-PERFORMANCE MONITOR WELLS - SUBUNIT A NORTHEAST AREA

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	AH	HB	15-100E
DATE:	DATE:	DATE:	SCALE:
6-15-15	6-15-15	6-15-15	NONE

FIGURE NUMBER:
2

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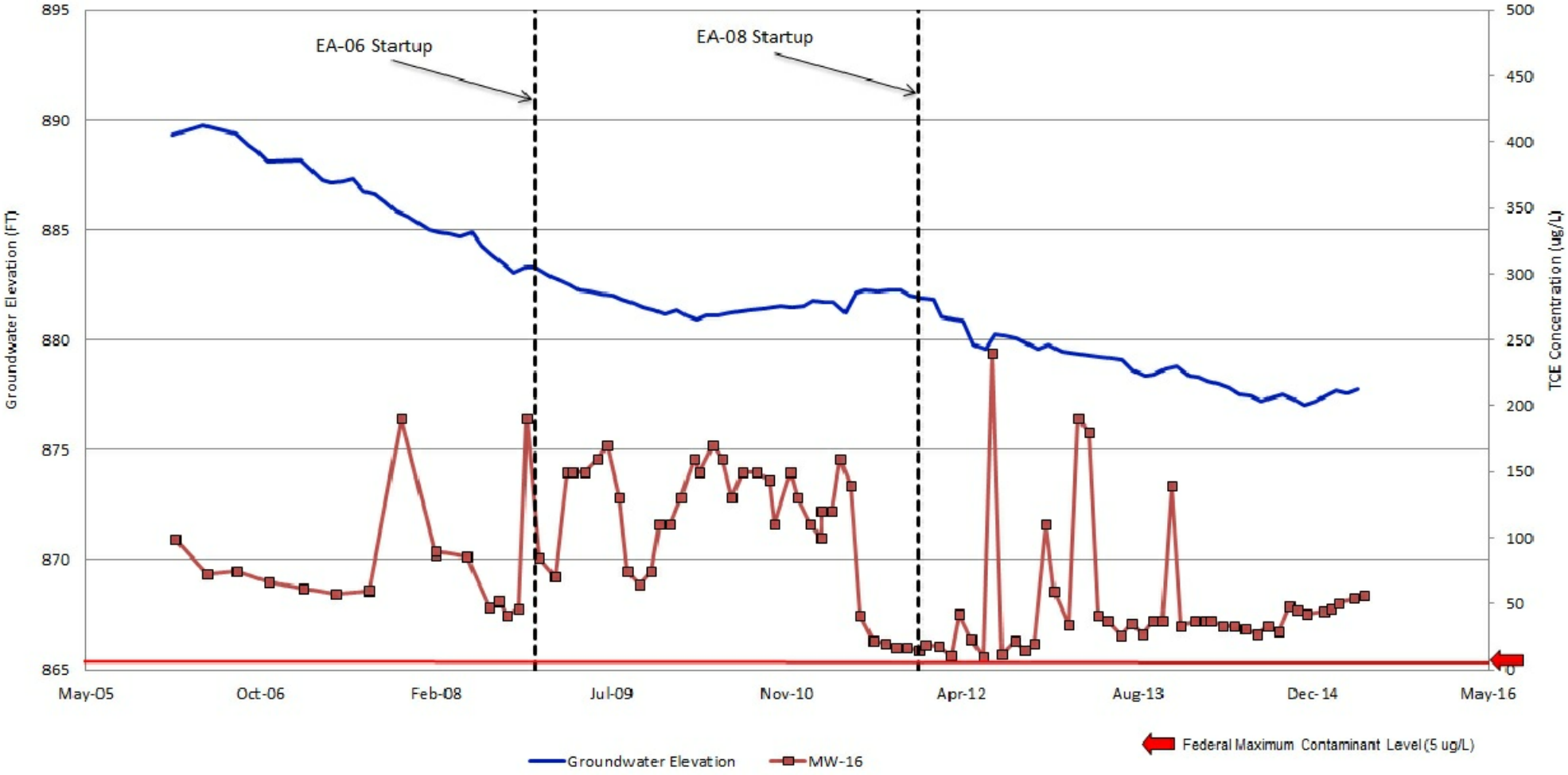
MW-16 GROUNDWATER LEVELS and TCE CONCENTRATIONS (2006 - 2015)
Phoenix-Goodyear Airport-North
Goodyear, AZ



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GROUNDWATER ELEVATION & TCE CONCENTRATION TRENDS
MW-16

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	AH	HB	15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER: 3

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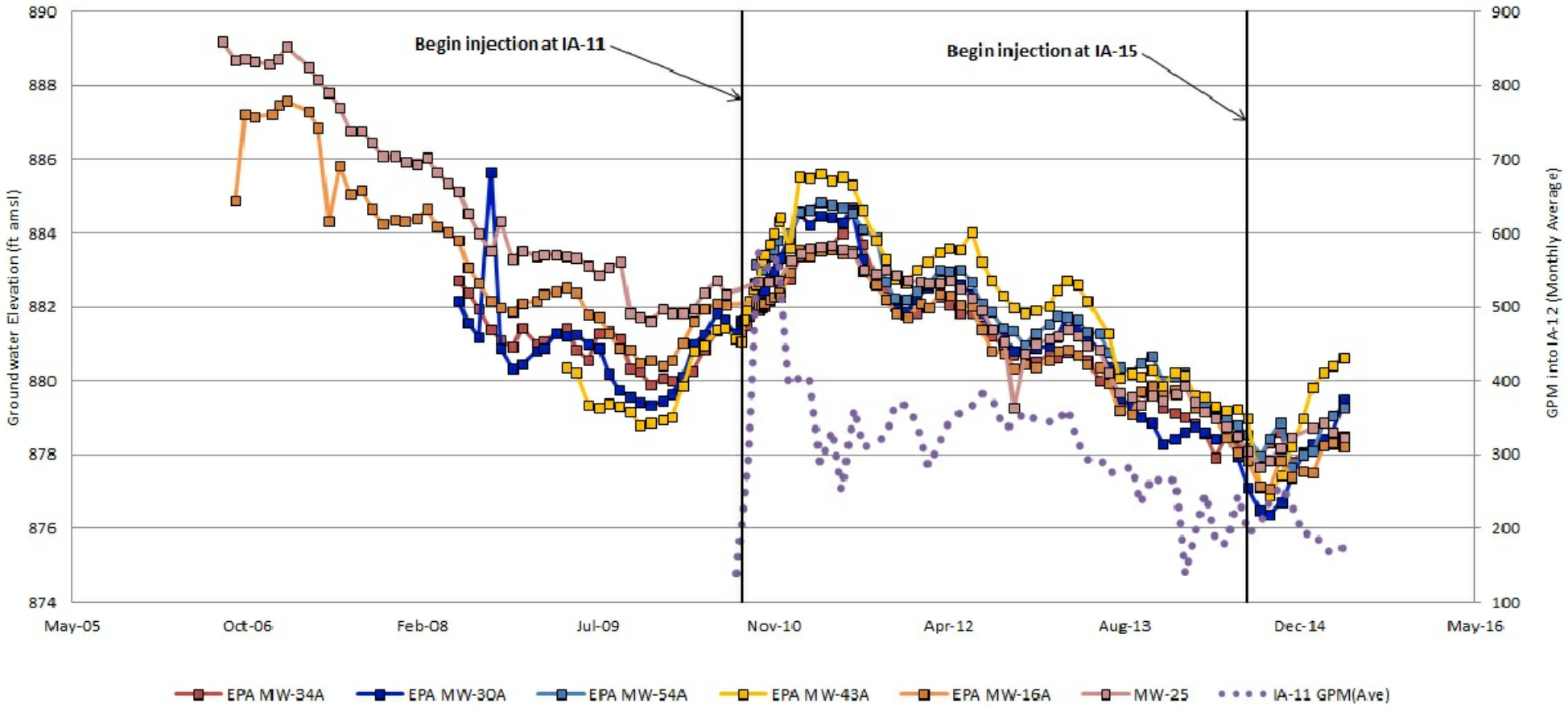
Hydrograph - IA-11 Area Wells
Phoenix-Goodyear Airport-North
Goodyear, AZ



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NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS
INJECTION WELL IA-11 AREA

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER: 4

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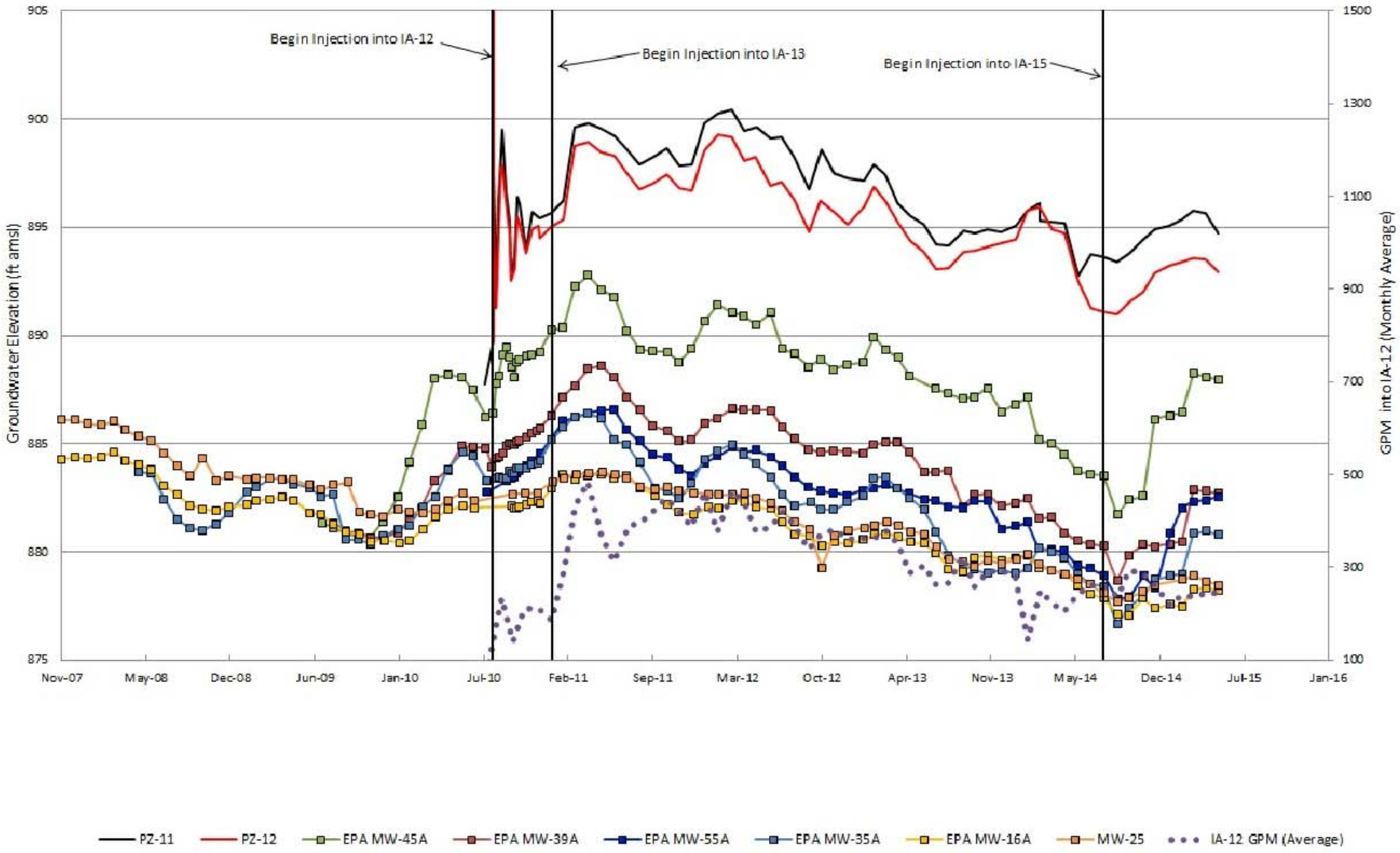
Hydrograph - IA-12 and IA-13 Area Wells
Phoenix-Goodyear Airport-North
Goodyear, AZ



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NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS
INJECTION WELL IA-12 and IA-13 AREA

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER:
5

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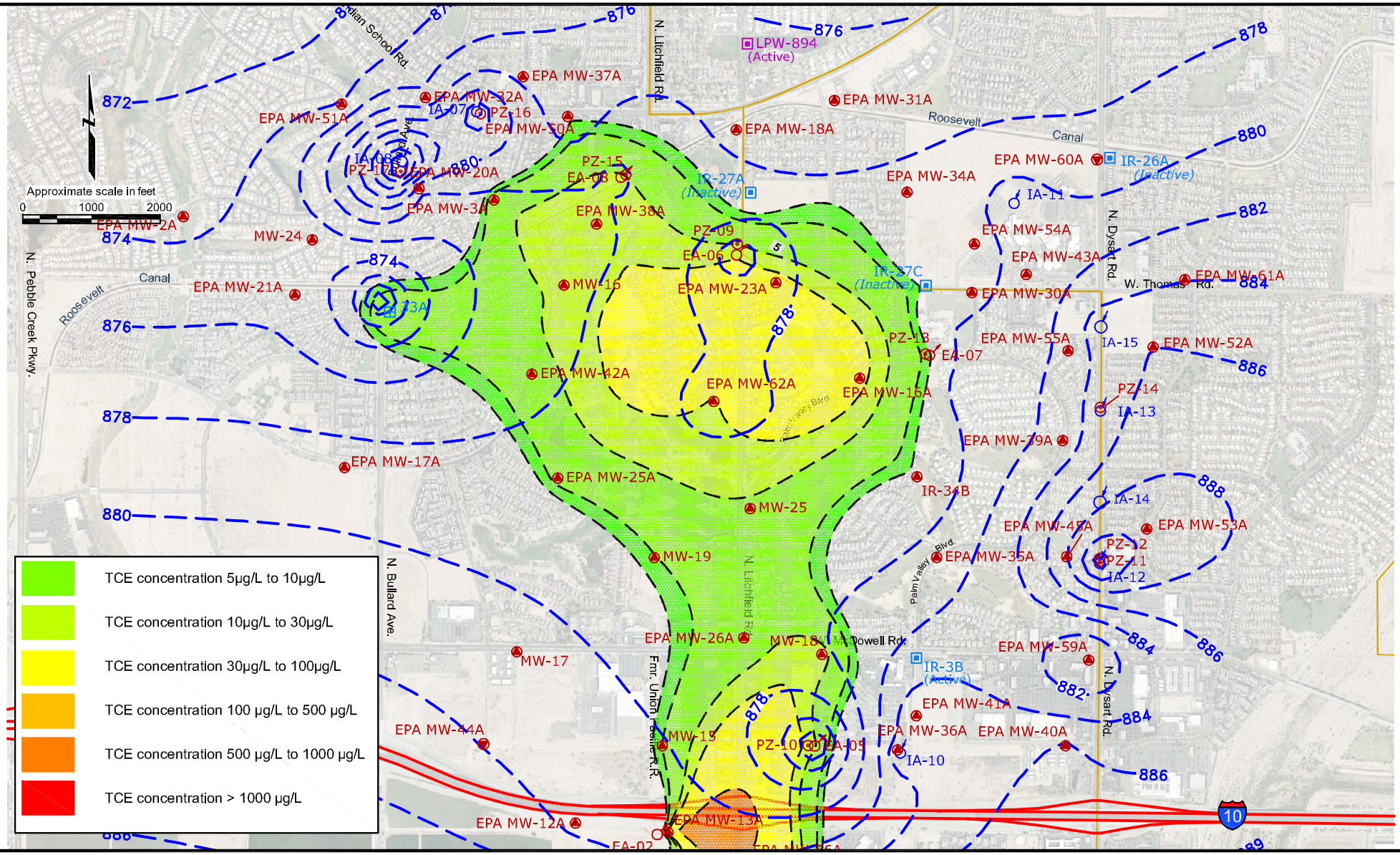

Explanation

882 — Potentiometric Isocontour showing groundwater elevation in feet above MSL; dashed where inferred

— — Isocontour showing TCE concentration in µg/L. dashed where inferred. Based on April 2015 data.

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SUBUNIT A GROUNDWATER CONTOURS AND TCE PLUME NORTH OF I-10
MAY 2015

DRAWN BY:	DESIGNED BY:	APPROVED BY:	PROJECT NUMBER:
AH	AH	HB	15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: 1" = 2000'

FIGURE NUMBER: 6

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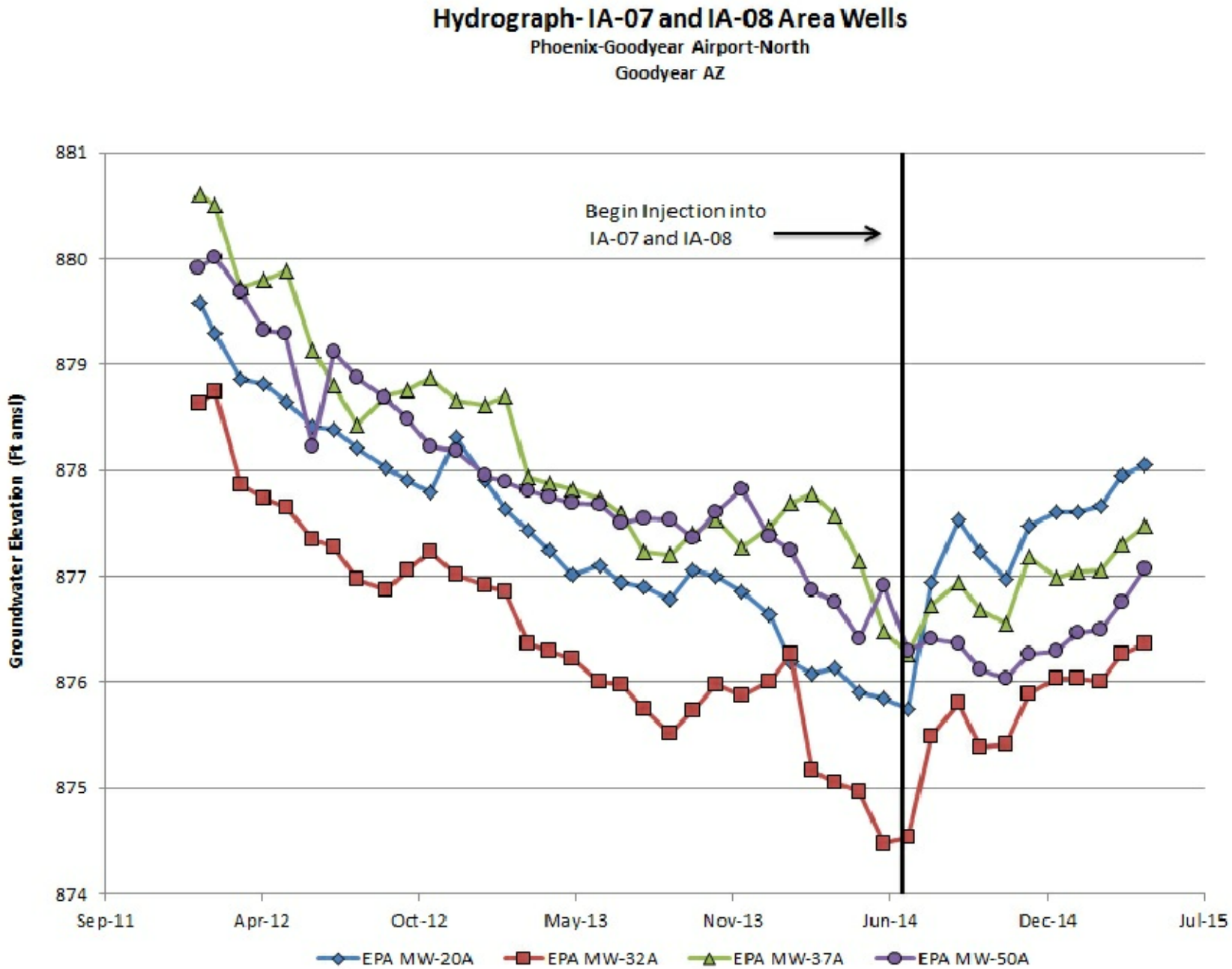

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NW AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS
INJECTION WELL IA-07 and IA-08 AREA

DRAWN BY: AH	DESIGNED BY: LM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 6-15-15	DATE: 6-15-15	DATE: 6-15-15	SCALE: NONE

FIGURE NUMBER:
7

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