

**Cooper and Commerce Water Quality Assurance Revolving Fund (WQARF) Site
Community Advisory Board (CAB) Meeting**

**Thursday, November 1, 2012 at 6 p.m.
McQueen Park Activity Center
510 N. Horne St., Gilbert, Arizona**

FINAL MINUTES

RPU #13-124

CAB members present: Pacer Udall, Carrie Lewis, Mike Evans, and Bruce Friedrich

CAB Members absent: Nyanganya (Joe) Maniga

ADEQ Staff in attendance: Scott Goodwin, Project Manager; Wendy Flood, Community Involvement Coordinator; and Andre Chiaradia, Manager

Members of the public present: Patricia Jordan, Town of Gilbert

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

1. Welcome and introductions

Mrs. Flood greeted all attendees and introductions were conducted. The meeting was then turned over to the Co-chair, Mr. Evans.

2. Acceptance and/or changes to March 22, 2012 - Mike Evans, Co-chair

Mr. Evans moved to accept the March 22, 2012 minutes and Mr. Friedrich seconded. The Board unanimously accepted the minutes.

3. Update on CAB presentation to the Environmental and Energy Conservation Board - CAB Co-Chair

Mr. Evans commented that there was a miscommunication on when the CAB was supposed to appear at the board meeting. The CAB agreed that they still want to attend the meeting. Ms. Flood was asked to contact the board member to find out when the next meeting will be held.

4. CAB Charter Discussion and Co-Chair Vote –

The CAB had nothing to update regarding the charter. Mrs. Flood asked the members to review to see if anything needs updating.

Mr. Evans and Mr. Udall agreed to continue as Co-Chairs. Mr. Friedrich moved and Ms. Lewis second the motion to have Mr. Udall and Mr. Evans continue as co-chairs.

5. Discussion of current status and activities at the Cooper and Commerce WQARF Site to include: Scott Goodwin, Project Manager

Mr. Goodwin initiated his presentation to the CAB with a discussion on current and future activities for the Cooper and Commerce Site.

See presentation below

Ms. Lewis inquired about the back fill needed if the dry well area was removed; she has dirt from her operations that perhaps the State could use.

Mr. Goodwin stated the plume still needs some characterization to the southwest since the groundwater flow direction has shifted from the northwest to the southwest. There are some existing wells that can be added to the sampling rounds, to aid in this process. Further discussion was held about surrounding wells, their usage and trends. Mr. Goodwin discussed the locations of the proposed new wells with the CAB.

Mr. Goodwin informed the CAB that once plume is characterized then in essence the RI will be completed and the site can move forward in the WQARF process. The WQARF process was briefly explained to the CAB.

Discussion was held regarding pumping and treating Town of Gilbert well G-10 and how the well would/would not aid in capturing the source area.

A CAB member asked about the budget and was told as of now the program has money to accomplish the planned activities for the year and hopes for full funding next year. If so then more progress can be made on the site.

6. Call to the Public -

The capture zone of well G -10 was discussed. Ms. Jordan informed the CAB that the well pump in G-10 was replaced.

7. Future Meeting and Agenda Discussion

The next CAB meeting will be held towards on February 25, 2012 and the following one will be June 3, 2012 at the McQueen Park Activity Center, 510 N. Horne St., Gilbert, Arizona at 6 p.m. Agenda items for the next meeting to include budget update regarding well installation, site update and Gilbert committee presentation update.

8. Adjournment

Mr. Evans adjourned the meeting.



Cooper and Commerce Water Quality Assurance Revolving Fund (WQARF) Site

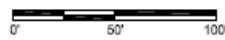
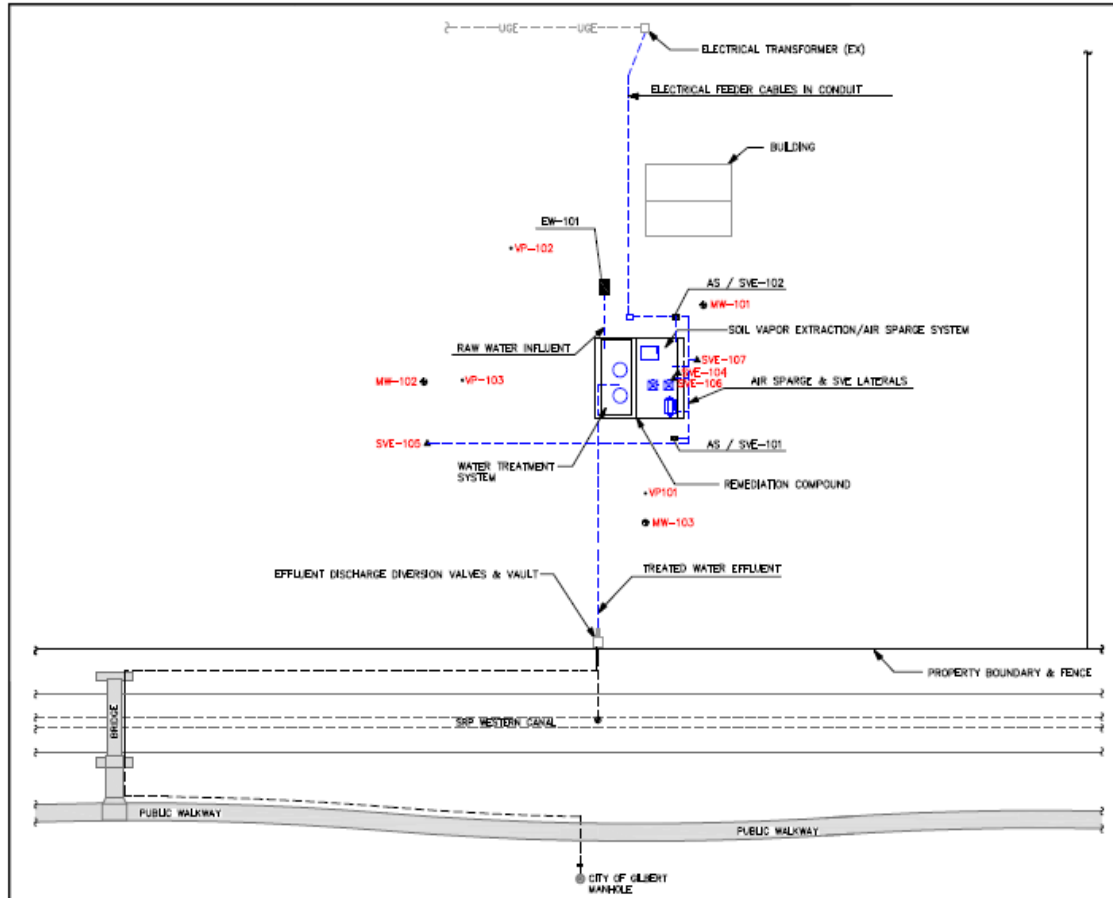
CAB Meeting

November 1, 2012

Soil vapor extraction/ air sparge system

- The soil vapor extraction, air sparge (SVE/AS) system continues to operate normally at the site.
- During the second quarter of 2012 the system continues to cycle for a two week on and a two week off period.
- The SVE/AS system removes an average of 0.4 pounds of tetrachloroethene (PCE) per day when in operation. To date, the system has removed approximately 4,470 pounds of PCE or approximately 331 gallons since operations began in December 2008.
- In an effort to increase the efficiency of the SVE/AS system, in June 2012, ADEQ installed an additional deep SVE well near the drywell. SVE-106 was installed with a screen from 50-60 feet. Soil and soil vapor samples collected during the installation indicate significant contamination, 3,900 mg/kg, still exists at this depth.

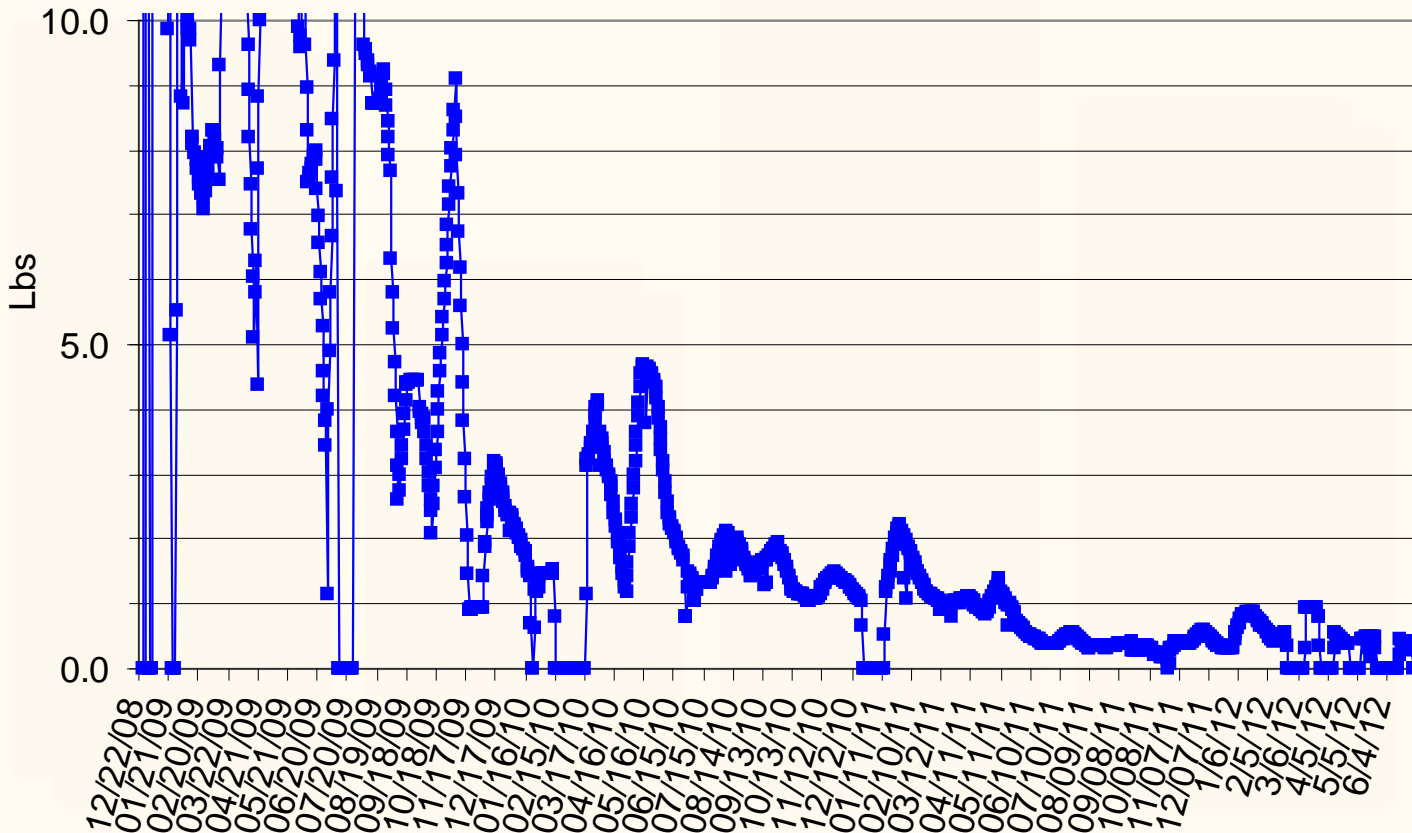
Soil vapor extraction/ air sparge system



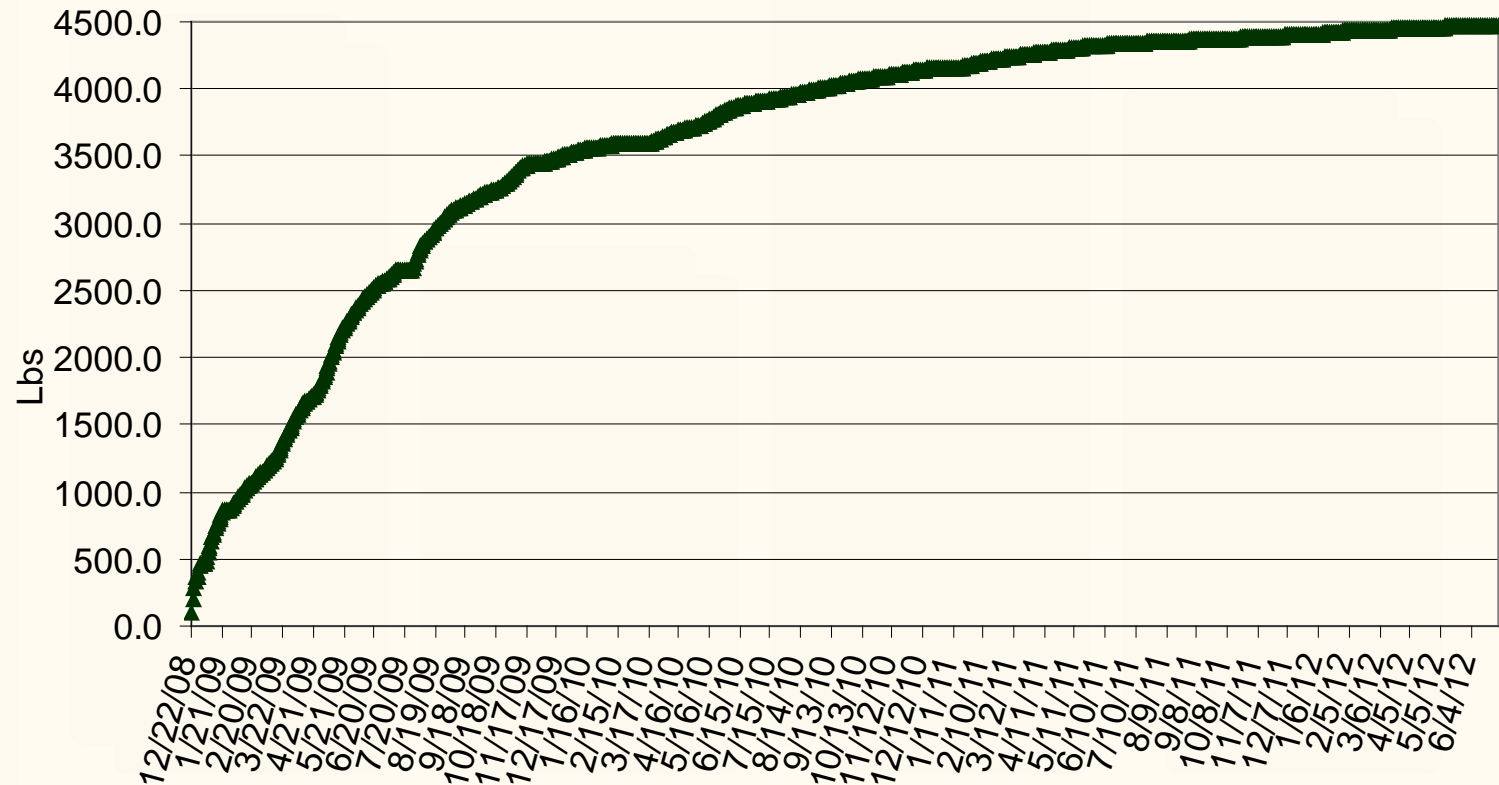
- AS = AIR SPARGE WELL
- EW = EXTRACTION WELL
- MW = MONITOR WELL
- SVE = SOIL VAPOR EXTRACTION WELL
- VP = VAPOR MONITOR WELL



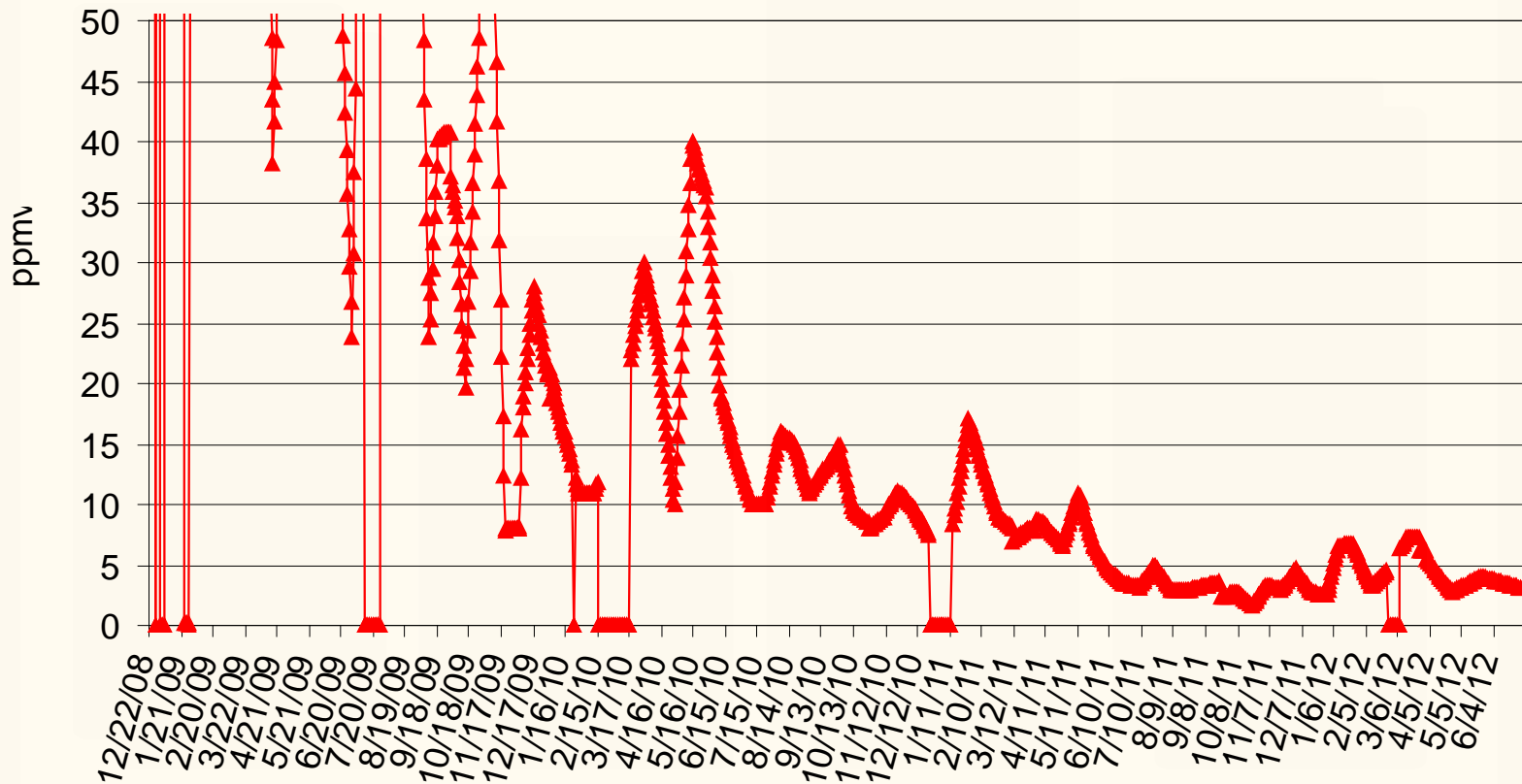
**Cooper and Commerce AS/SVE System
 Daily PCE/TCE Recovery (lbs/day)**



**Cooper and Commerce AS/SVE System
 Cumulative PCE/TCE Recovery (lbs)**



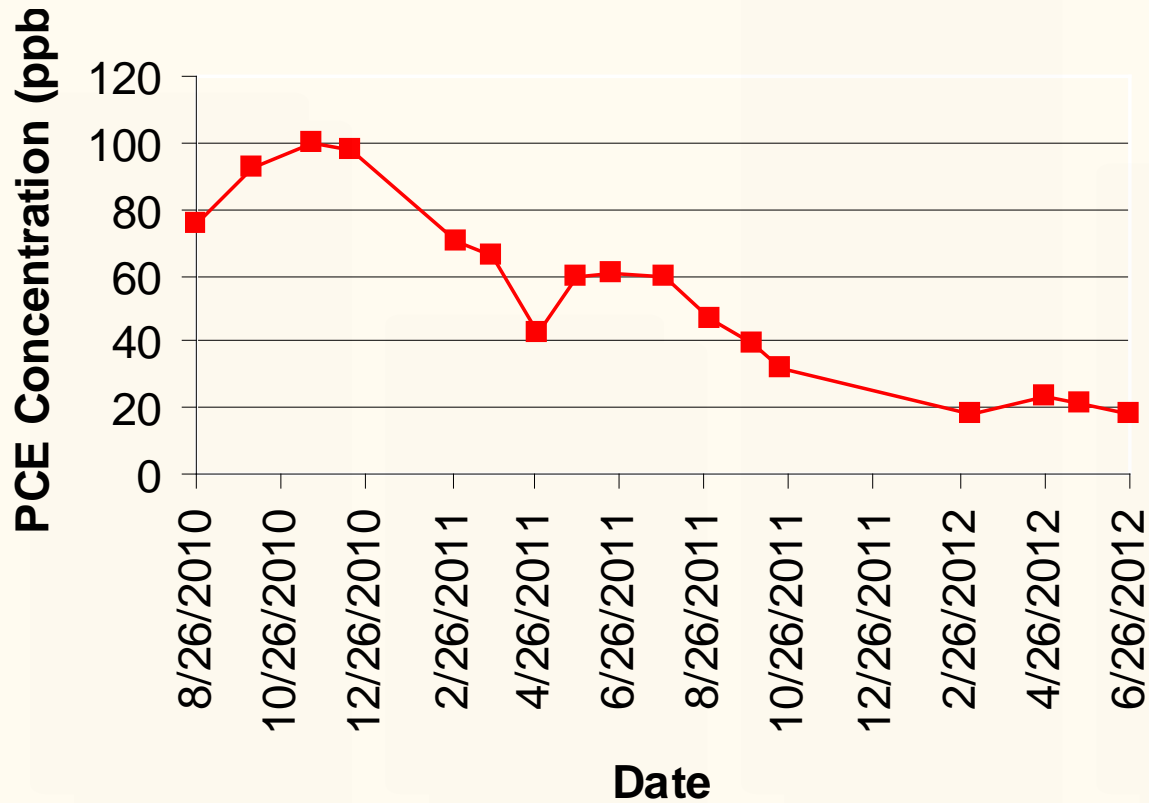
**Cooper and Commerce AS/SVE System
 Daily PCE/TCE Concentration (ppmv)**



Pump and treat system

- During the second quarter of 2012, the groundwater pump and treat system operated at a rate of approximately 131 gallons per minute (gpm) and pumped and treated 16,829,838 gallons during the quarter. PCE influent concentrations from the extraction well averaged 21 parts per billion (ppb) over the quarter. The Aquifer Water Quality Standard (AWQS) for PCE is 5 ppb.
- Based on these numbers, the pump and treat system recovered approximately 3.1 pounds of PCE during the second quarter of 2012. Since operations began in August 2010, the pump and treat system has recovered approximately 36 pounds of PCE.

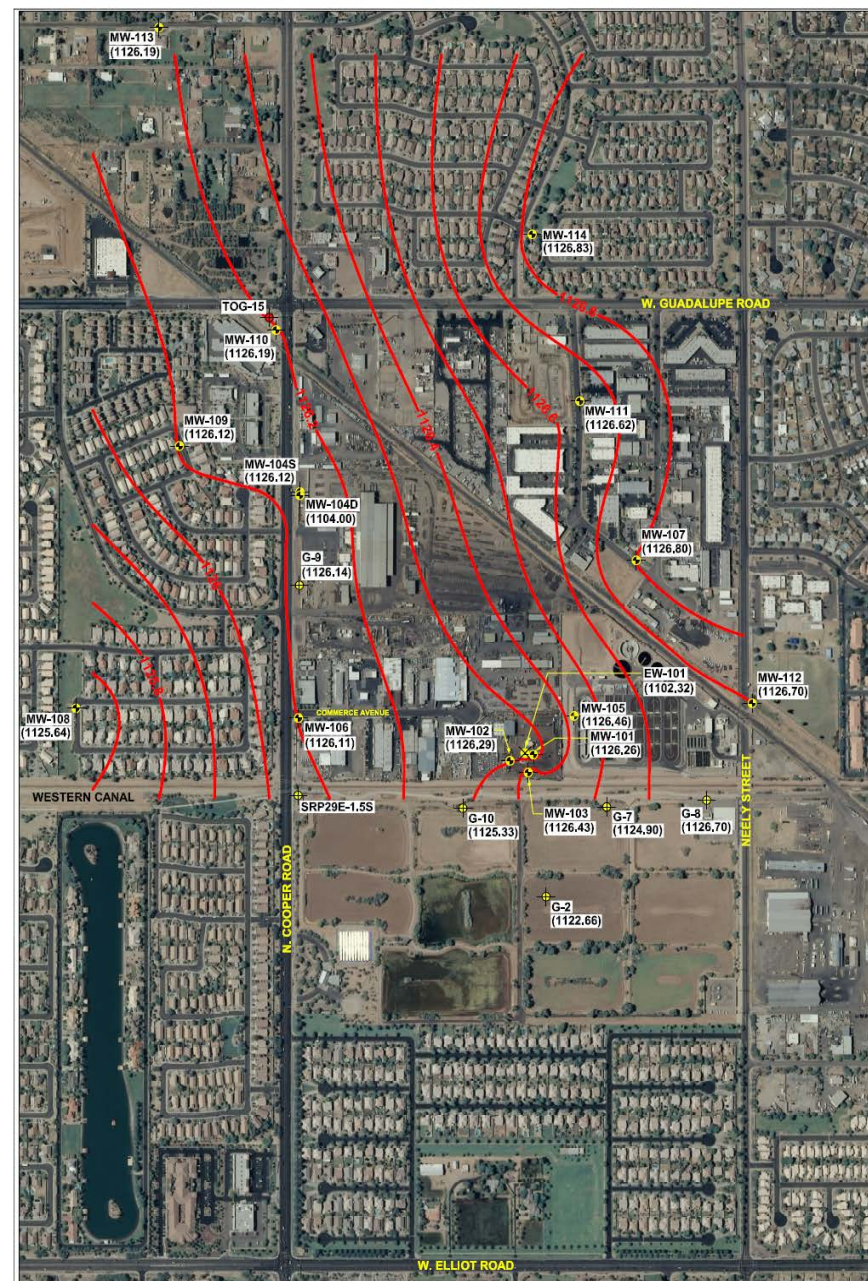
Influent PCE Concentration



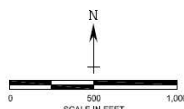
2nd Quarter 2012 Groundwater Sampling

- During April 2012, ADEQ conducted a round of groundwater sampling from the entire monitoring well network.
- PCE concentrations in the on-site wells remained similar to first quarter 2012 concentrations. PCE concentrations in monitor wells MW-101 and MW-103 remained near 20 ppb and MW-102 remained near 140 ppb.
- The pump in well G-10 was not functional and no sample could be collected during the second quarter of 2012. The concentration of PCE in G-10 during the first quarter of 2012 was 66 ppb. PCE concentrations in most other wells also remained stable.

2nd Quarter 2012 Groundwater Sampling



- Legend**
- MW-102 (1126.29) Monitor Well and Groundwater Elevation (ft amsl)
 - G-7 Well With Dedicated Pump (Not Currently Pumping)
 - TOG-15 Well With Dedicated Pump (Currently Pumping)
 - EW-101 Extraction Well (EW-101 Well Pump Operating at Time of Measurement)
 - Groundwater Contour (ft amsl)
 - (NM) Not Measured



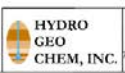
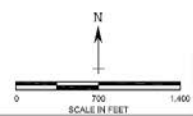
Note: Wells MW-104D, EW-101, G-2, G-7, G-8 and G-10 not used for contouring.
Contour Interval: 0.1 Foot
Well measurements taken between 4/24/12 and 4/28/12.

		GROUNDWATER ELEVATIONS APRIL 2012 COOPER AND COMMERCE WQARF SITE			
		Approved CLJ	Date 5/29/12	By JAA	Revision 5/29/12

2nd Quarter 2012 Groundwater Sampling

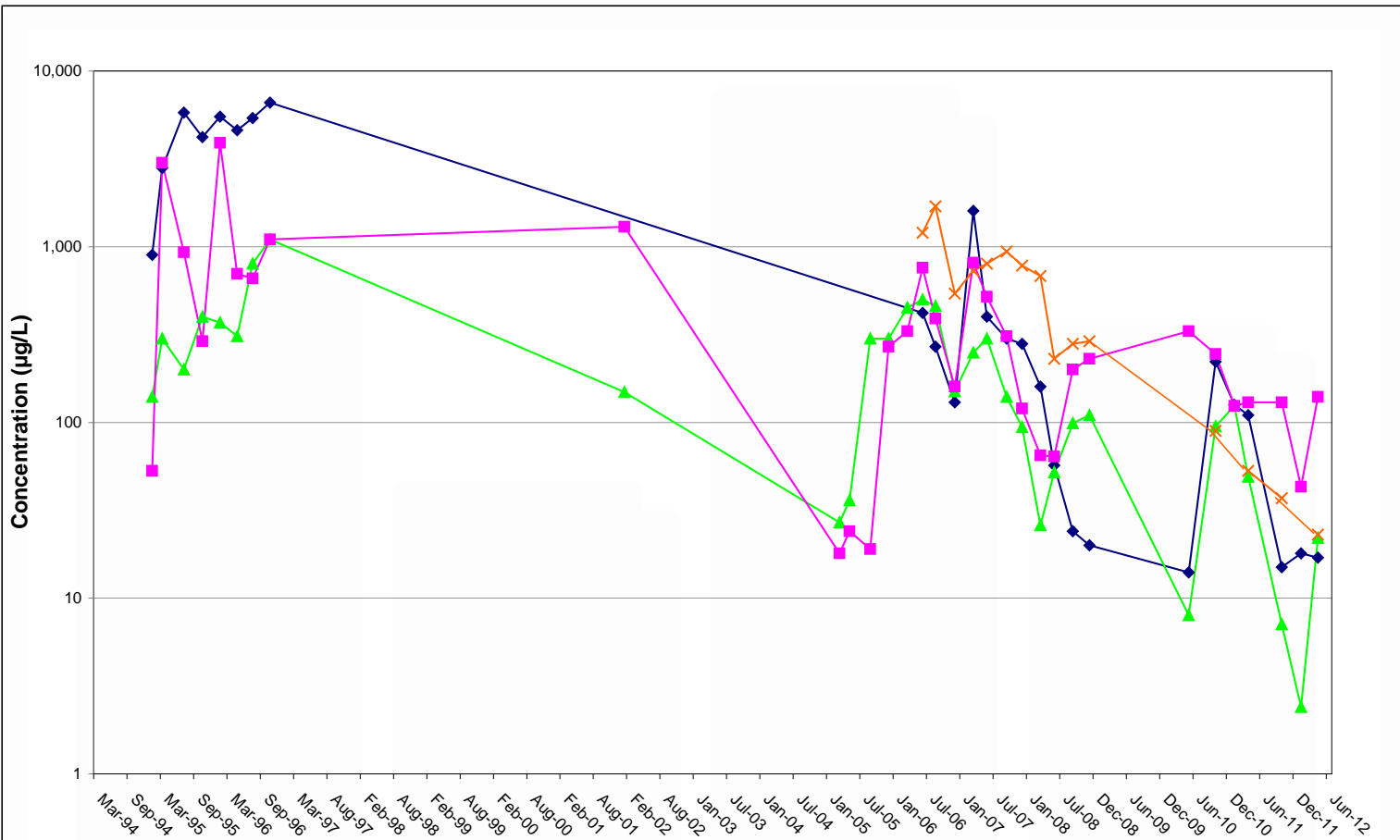


- Legend**
- MW-102 (1126.28) Monitor Well and PCE Conc. Level in (µg/l)
 - G-7 Well With Dedicated Pump (Not Currently Pumping)
 - TOG-15 Well With Dedicated Pump (Currently Pumping)
 - EW-101 Extraction Well
 - PCE Conc. Contour In (µg/l) (observed the where Interim)
 - (NS) Not Sampled
 - <0.50 Below Detected Limits



**PCE CONCENTRATIONS IN GROUNDWATER
BASED ON APRIL 2012 EVENT TEST RESULTS
COOPER AND COMMERCE WQARF SITE**

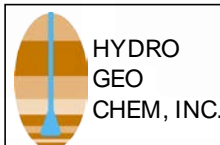
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EXPLANATION

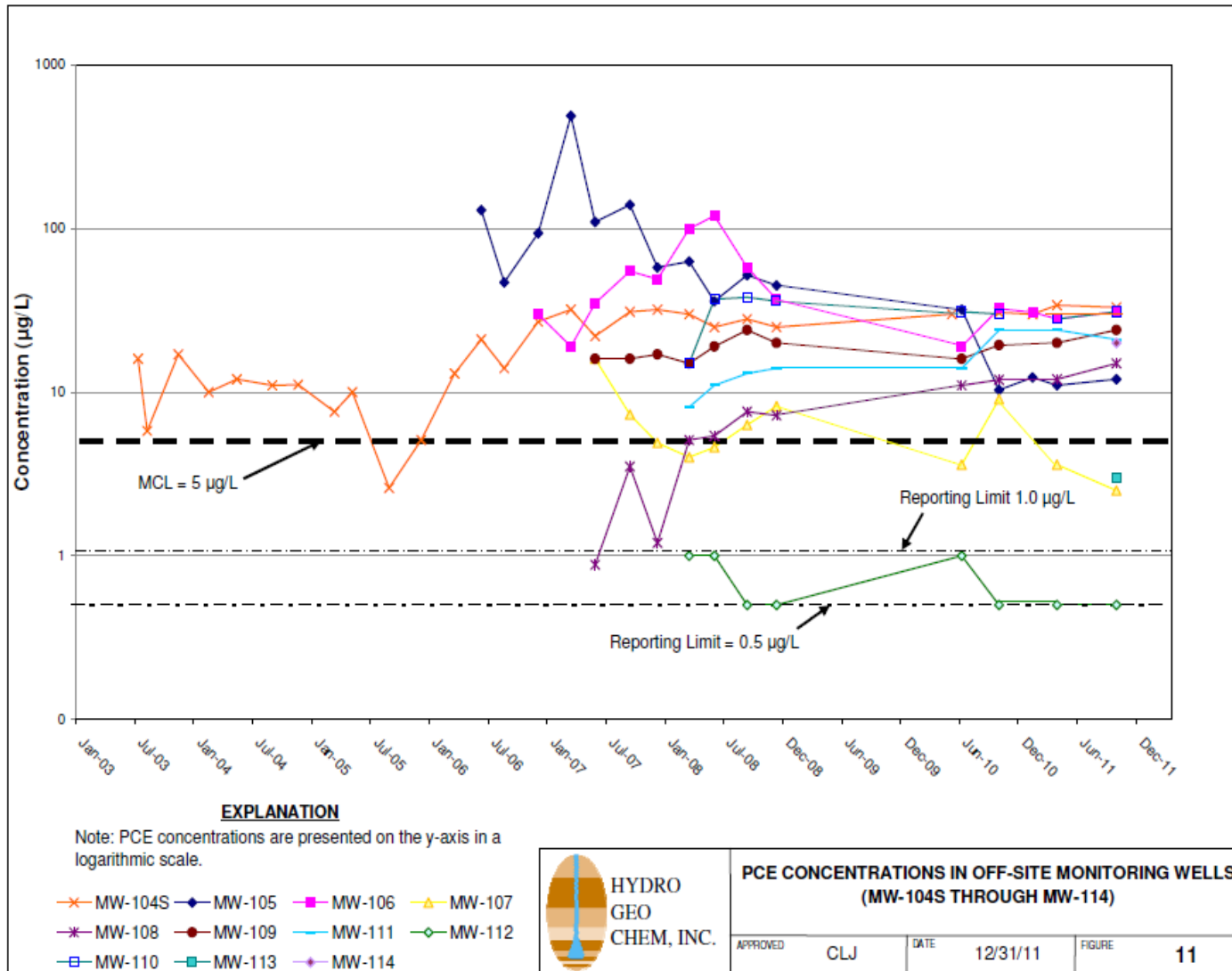
Note: Due to range of PCE concentrations detailed, y-axis is in a logarithmic scale.

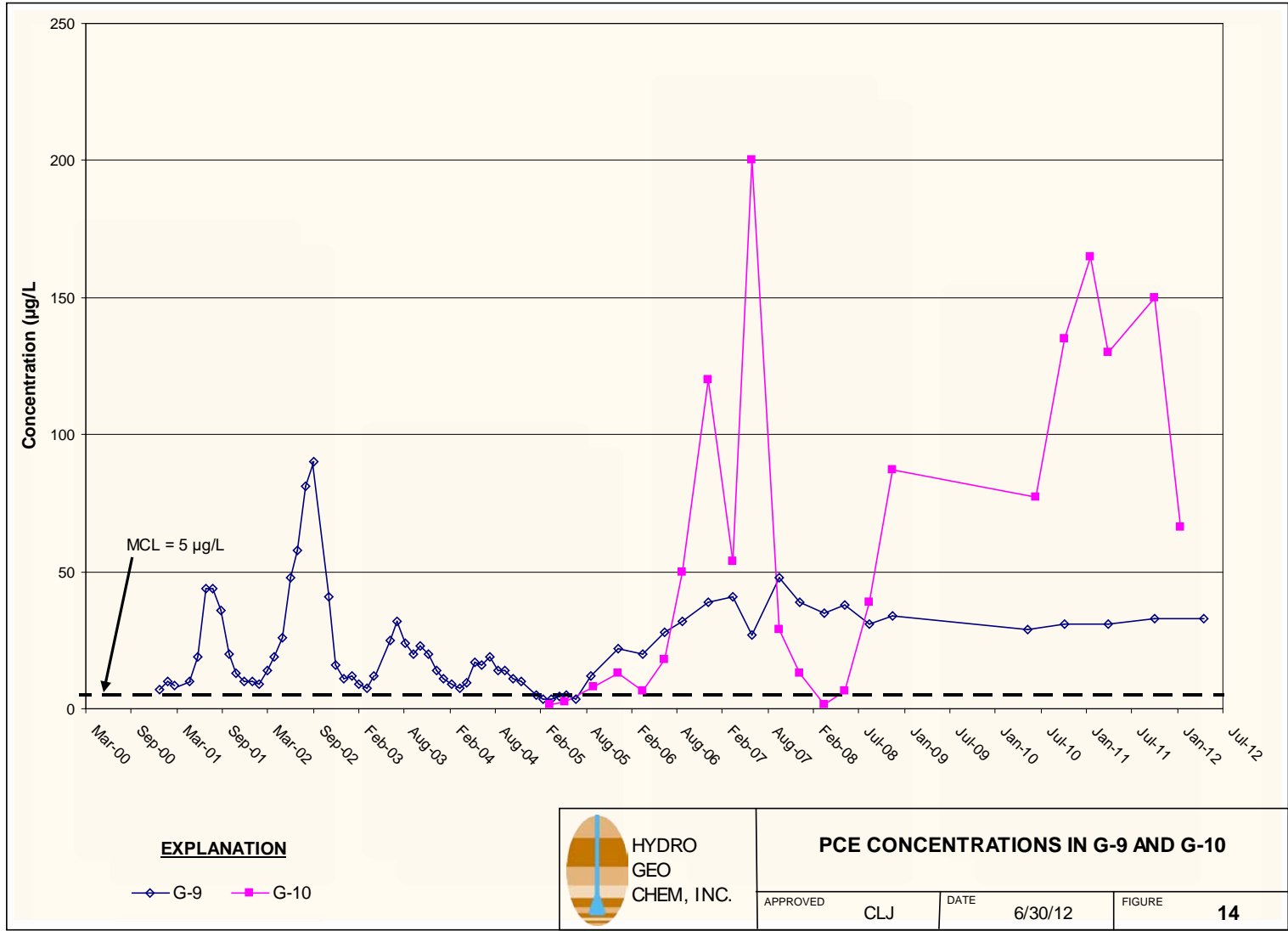
- ◆ MW-101
- ▲ MW-103
- ✕ EW-101
- MW-102



PCE CONCENTRATIONS IN ON-SITE MONITORING WELLS (MW-101 THROUGH MW-103 & EW-101)

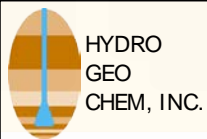
APPROVED	CLJ	DATE	6/30/12	FIGURE	10
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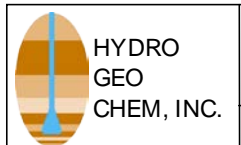
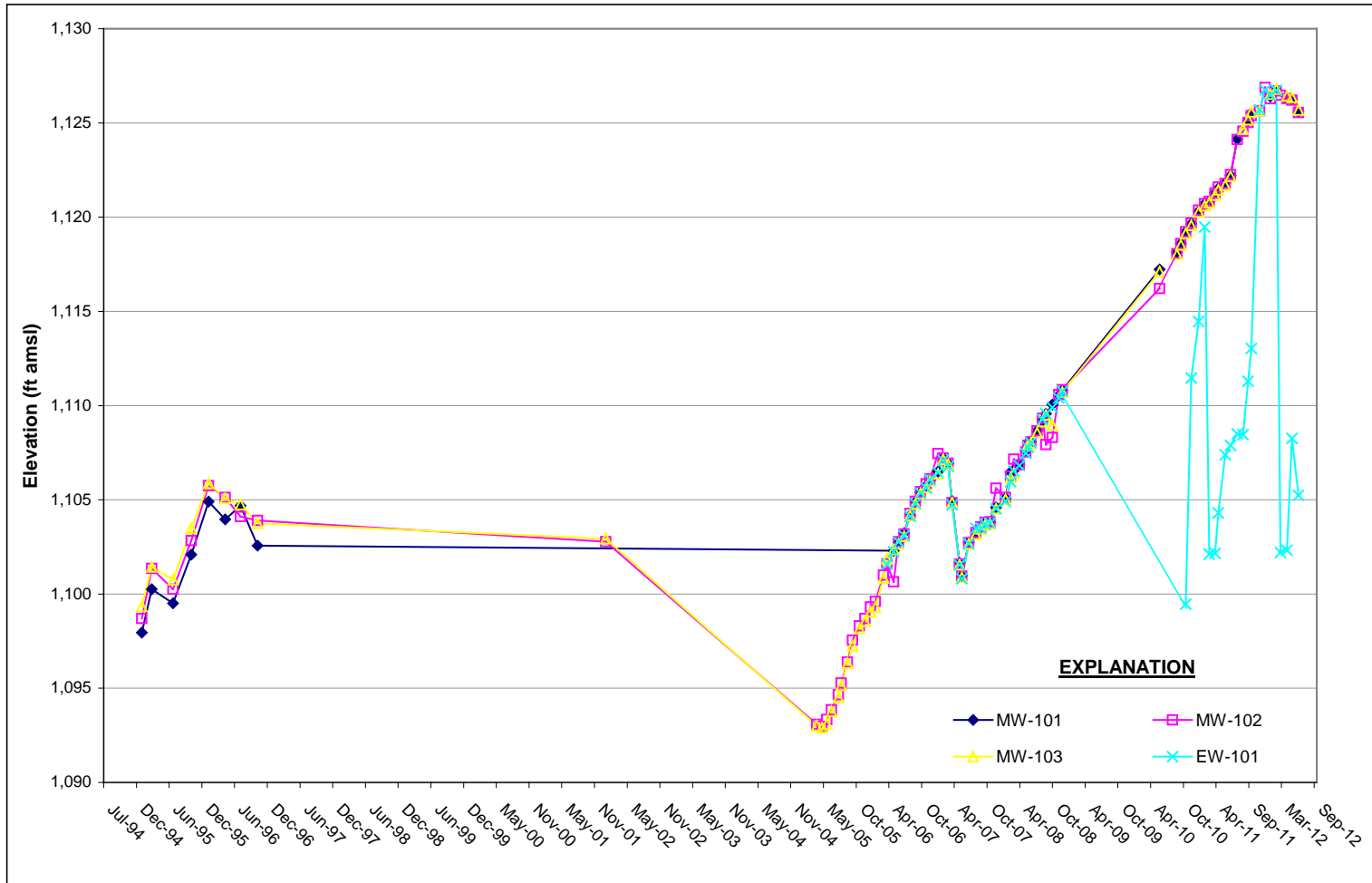
EXPLANATION

—◇— G-9 —■— G-10

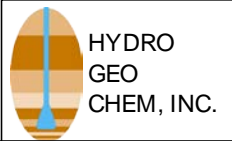
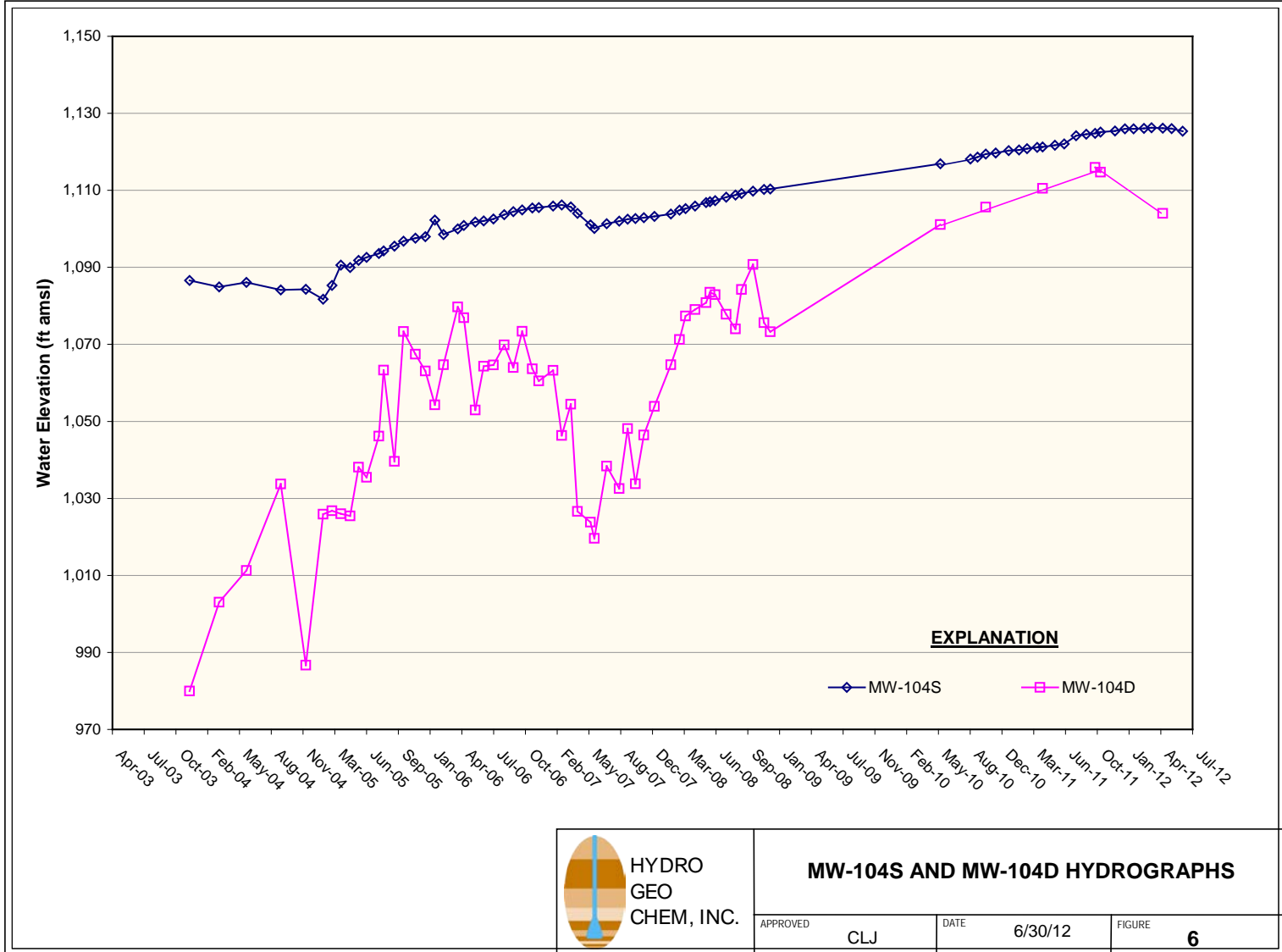


PCE CONCENTRATIONS IN G-9 AND G-10

APPROVED	CLJ	DATE	6/30/12	FIGURE	14
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MW-101 THROUGH MW-103 and EW-101 HYDROGRAPHS			
APPROVED	CLJ	DATE	6/30/12
		FIGURE	7



MW-104S AND MW-104D HYDROGRAPHS

APPROVED	CLJ	DATE	6/30/12	FIGURE	6
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- FY 12 budget is stable.
- Groundwater monitoring and remediation system operations will continue.
- ADEQ has requested a change order for drilling and installation of five shallow wells and one deep well to complete characterization of the plume.

Questions?

Contact Information

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