

**South Mesa Water Quality Assurance Revolving Fund (WQARF) Site
Community Advisory Board (CAB) Meeting**

**Wednesday, July 20, 2011 at 5:00 p.m.-7:00 p.m.
City of Mesa Fire Station #201
360 E. First St., Mesa, Arizona**

DRAFT MINUTES

OU #12-006

CAB members present: Jay Clapp, and Karl Kohlhoff

CAB Members absent: Leland Frische; Scott Bouchie, Co-chair; and Bruce Robinson, Co-chair

ADEQ Staff in attendance: Jennifer Thies, Manager Remedial Projects Unit; Danita Hardy, Project Manager; and Delfina Olivarez, Project Manager

Members of the public present: Jim Clarke, ADEQ Consultant from MACTEC; and Jessica Koberna, Town of Gilbert

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

1. Welcome and Introductions

Ms. Olivarez introduced herself as the facilitator that evening for the South Mesa WQARF site. Introductions of CAB members, ADEQ staff, and members of the public were conducted. Since a quorum was not present among the CAB no official business could be conducted.

2. Acceptance and/or changes to April 2, 2008 Minutes-CAB Co-chair

Since no quorum was present this item was tabled to the next CAB meeting.

3. CAB Co-Chair discussion and vote- Ms. Olivarez, Project Manager

Since no quorum was present this item was tabled to the next CAB meeting.

4. Discussion and vote of new CAB member- Ms. Olivarez, Project Manager

Since no quorum was present Ms. Koberna was not able to be voted on as a new CAB member, to replace Ms. Moran from the Town of Gilbert, who resigned. This action was tabled to the next CAB meeting.

5. Discussion of current status and activities at the South Mesa WQARF Site-Danita Hardy, Project Manager

Ms. Hardy first presented key historic site activities, and then reviewed the draft RI report and gave an RO overview.

A. Review of draft Remedial Investigation (RI) report

See presentation below

Mr. Kohlhoff and Mr. Clarke discussed the pumping rates for a Salt River Project (SRP) well. Mr. Clapp shared knowledge of Arizona Department of Water Resources (ADWR) involvement in the installation of well#14. Mr. Clapp stated his concern with the Town of Gilbert (TOG) and City of Mesa pumping particular wells which could spread the contaminant of Tetrachloroethylene (PCE) from the site. Ms. Thies stated that ADEQ could not mandate TOG or City of Mesa not to pump any of their wells. Ms. Thies explained that standard practice before a well is pumped includes a well sampling. Ms. Thies added that if a City of Mesa well, in connection to the site, did test positive for PCE, the Project Manager, Danita Hardy would be one of the first people contacted with the result. Ms. Thies explained to Mr. Kohlhoff the remaining WQARF milestones for the site after the RO phase.

B. Remedial Objectives (RO) overview

See presentation below

Mr. Kohlhoff expressed his concerns over the protection of the environment and acknowledged that there was no one remedy to clean up the site that would guard every aspect of the environment.

6. CAB discussion and comments to draft RI and/or RO-CAB Co-Chair

Since there was not a quorum present, CAB members Mr. Kohlhoff and Mr. Clapp submitted individual RO as stated below.

Mr. Kohlhoff

- 1) No additional action is necessary for the South Mesa WQARF site. The site needs to be closed.
- 2) Clean the source area (Applied Metallics – 1545 W. McQueen) so that a business center can be built on it.

Mr. Clapp

- 1) Although ADEQ is close to “No additional action” at the site, Mr. Clapp expressed his concern about Salt River Project (SRP) and the City of Mesa pumping their wells in the future. He would like assurance that the wells are not going to be pumped. He would like to see SRP and City of Mesa plug their wells closest to the plume to prevent them from being turned on and the water that is 12 parts per billion PCE served as drinking water.

7. Solicitation of RO and/or comments to draft RI report from the public- Ms. Olivarez, Project Manager

No comments were received.

8. Call to the Public

None

9. Future Meeting and Agenda Discussion

It was decided that the date of the next CAB meeting would be determined at a later date and scheduled by the Community Involvement Coordinator for the site, Felicia Calderon.

10. Adjournment

Ms. Olivarez adjourned the meeting.



South Mesa Water Quality Assurance Revolving Fund Site

July 20, 2011

- **Arizona Administrative Code (AAC) R18-16-406(D)** specifies that:
 - Reasonably foreseeable uses of land are those likely to occur at the site.
 - Reasonably foreseeable uses of water are those likely to occur within 100 years.
- **Remedial Objectives (ROs) AAC R18-16-406(I)(4)** are established for the
 - current and reasonably foreseeable uses of land &
 - beneficial uses of waters of the state.
- **ROs are clean-up goals** determined for a specific site.
- **ROs will be framed** as:
 - uses of a resource to be protected,
 - when the use needs to be available and
 - how long a specific use might be needed by the affected public.
- ROs must be **determined with input and discussion** with:
 - land owners,
 - local governments,
 - water providers, and the
 - public including **CAB members** for the site.

- ROs are accepted by the Department both **verbally** (in the context of the public meeting) and **written**.
- ROs shall be generally **consistent with water management plans & general land use plan**.
- After the comment period ends, ADEQ will prepare a **preliminary RO report** that may have a **public comment period**.
- ADEQ will **finalize the RO report** with the public input & a responsiveness summary.
- ADEQ will then **complete the Final RI report** which will include the ROs & a responsiveness summary for the South Mesa WQARF site.
- **Comments must be received by July 28, 2011.**

- The ROs chosen for the site will be evaluated in the **feasibility study (FS) phase** of the WQARF process [R18-16-407(A)].
- The FS is a process to:
 - Identify a **reference remedy and alternative remedies** that appear to be capable of achieving ROs and
 - Evaluate them based on **comparison criteria** included in Arizona Revised Statutes (A.R.S.) §49-282.06.
- A.R.S. §49-282.06 (A) indicates that **remedial actions shall**:
 - **Assure the protection of public health and welfare and the environment,**
 - To the extent practicable, **provide for the control, management or cleanup of the hazardous substances** in order to allow the maximum beneficial use of the waters of the state.
 - Be **reasonable, necessary, cost-effective & technically feasible.**

- A.R.S. §49-282.06 (4)(b) indicates:
 - **For remediation of waters of the state**, the selected remedial action shall address, at a minimum, any well that at the time of selection of the remedial action either **supplies water for municipal, industrial, irrigation or agricultural uses or**
 - **Is part of a public water system** if the well would now or in the reasonably foreseeable future produce water that would not be fit for its current or reasonably foreseeable end uses without treatment due to the release of hazardous substances.
- A.R.S. §49-282.06 (D) indicates:
 - ...the **director may approve a remedial action** that may result in **water quality exceeding water quality standards** after the completion of the remedy if the director finds that the remedial action meets the requirements of this section.

- The **FS will evaluate specific remedial strategies and remedial measures capable of achieving all of the remedial objectives** and propose a reference remedy and at least two alternative remedies.
- A.C.C. 18-16-407 indicates the **reference remedy and an alternative remedy** may incorporate different strategies for different aquifers or portions of aquifers.
- Possible remedial strategies are discussed in A.C.C. 18-16-407(F) and include (high cost to lower cost):
 - **Plume remediation** is a strategy to achieve water quality standards for contaminants of concern throughout the site.
 - **Physical containment** is a strategy to contain contaminants within definite boundaries.
 - **Controlled migration** is a strategy to control the direction or rate of migration.

- **Source control** is a strategy to eliminate or mitigate a continuing source of contamination.
- **Monitoring** is a strategy to observe and evaluate the contamination at the site through the collection of data.
- **No action** is a strategy that consists of no action at the site.

Example RO comment: “ I would like the site cleaned so that a business center can be built on site.

When you are called on, please state the following:

Name

Organization/Company

Address

Phone and email

Summarize your Comment

Please remember, all comments must be received by 5:00pm on July 28, 2011.

Questions?

Contact Information

Danita Hardy, Project Manager
Remedial Projects Section

dh2@azdeq.gov

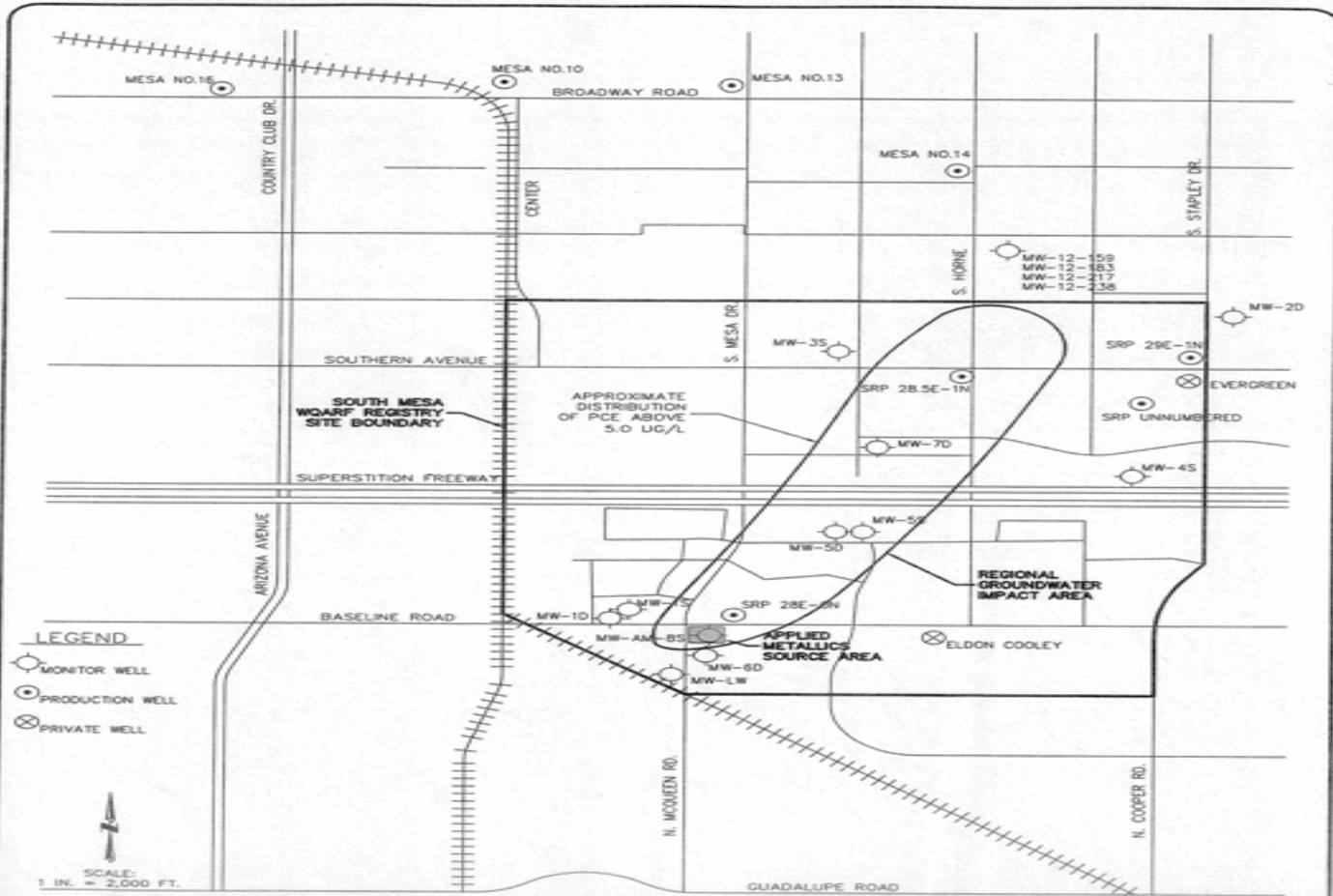
(602) 771-4191, 1-800-234-5677 ext 771-4191



South Mesa Water Quality Assurance Revolving Fund Site

July 20, 2011

Danita Hardy, Project Manager
ADEQ



SITE AND VICINITY PLAN **FIGURE 1**

MACTEC PROJECT NAME: SOUTH MESA WQARF
 MACTEC PROJECT NO: 70211-2-0064.2.2.6.2
 DATE: 12/18/02 E-FILE: 20064.2.2.6 FIG 1
 DRAWN BY: DAK CHECKED BY: [Signature]

MACTEC

MACTEC ENGINEERING AND CONSULTING OF GEORGIA, INC.
 3630 E. WIER AVE., PHOENIX, ARIZONA 85040
 PHONE: (602) 437-0250 FAX: (602) 437-3675

- **1987-1990: South Mesa WQARF Phase I and Phase II site investigations**
- **1998: S Mesa site was placed on WQARF registry, score of 26 out of a possible 120**
- **2004: Early Response Action (ERA) of SVE wells to address subsurface (soils) PCE contamination**
- **2008: SVE system operated from 1995-1997 and Sept through October 2007. The system had remediated the soils and was shut down and removed from the site in May 2008.**
- **Groundwater sampling of entire well network (20 wells) was done in September 2008. Highest concentration of PCE was 12 ppb.**
- **Remedial Investigation (RI) report finalized in March 2011**
- **Draft RI report sent out to CAB members (May 30, 2011)**



Sept 2008 Groundwater Sample Results

Well Name	Zone	Dec-05	Dec-06	May-07	Dec-07	May-08	Sep-08
MW-9-130	UAU1	15	12	12	9.4	9.3	12
MW-10-130	UAU1	9.6	8.6	<10.0	5.3	6.6	6.4
MW-12-159	UAU1	<1.0	NS	NS	NS	NS	NS
MW-14-130	UAU1	Constructed October 2008					<1.0
MW-AM-8S	UAU2	18	14	17	4.4	6.7	11 / 10
MW-9-175	UAU2	5	6	5.2	9.2	8.4	10
MW-10-170	UAU2	8.3	4.5	<10.0	1.8	3.0	3.8
MW-11-170	UAU2	3.4	3.7	3.7	4.8	4.3	4.4
MW-12-183	UAU2	<1.0	NS	NS	NS	NS	NS
MW-14-163	UAU2	Constructed October 2008					<1.0
MW-5D	UAU3	8.7	11	6.6	3	3.5	5.8
MW-7D	UAU3	NS	18	13	6.9	6.8	1.1
MW-9-205	UAU3	5.3	<1.0	1.2	1	0.99	1.4
MW-11-200	UAU3	2.6	4.3	3.1	2.9	6.2	6.1
MW-12-217	UAU3	<1.0	NS	NS	NS	NS	NS
MW-14-186	UAU3	Constructed October 2008					<1.0
MW-9-235	UAU4	5.6	8	9.8	5.6	14	7.6
MW-10-235	UAU4	<1.0	1.1	1.2	2.2	1.2	1.4
MW-11-240	UAU4	2.4	1.9	1.4	1.6	1.4	<1.0



- ADEQ released the draft RI report on May 30, 2011 for a 60 day public comment period as required by R18-16-406(E).
- The draft RI report was provided to the Community Advisory Board (CAB), affected water providers, and the Department of Water Resources. The draft RI report was also made available to the public at the site repository, the Mesa library.
- No public comments have been received to date.
- The **public comment period for the draft RI ends on July 28, 2011.**

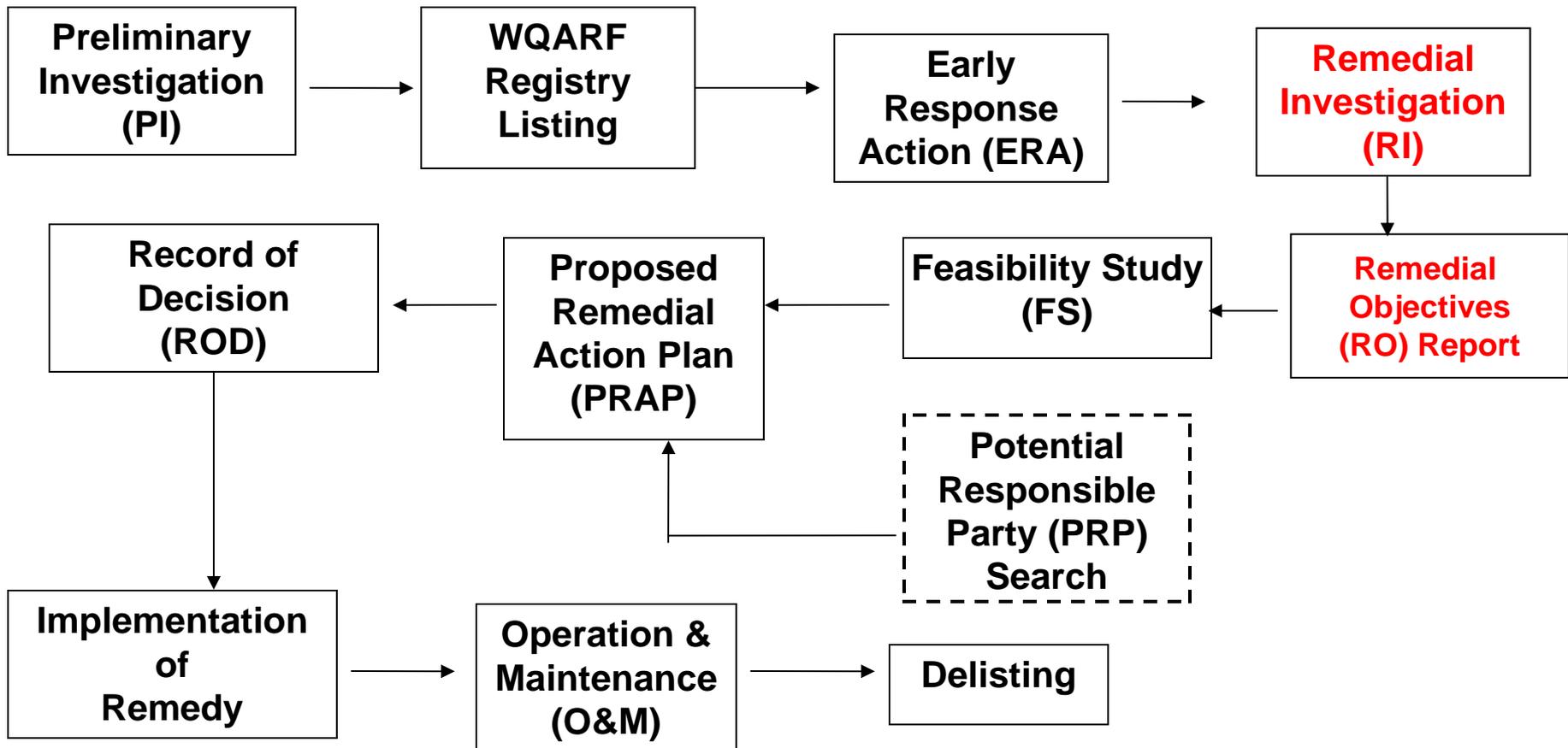
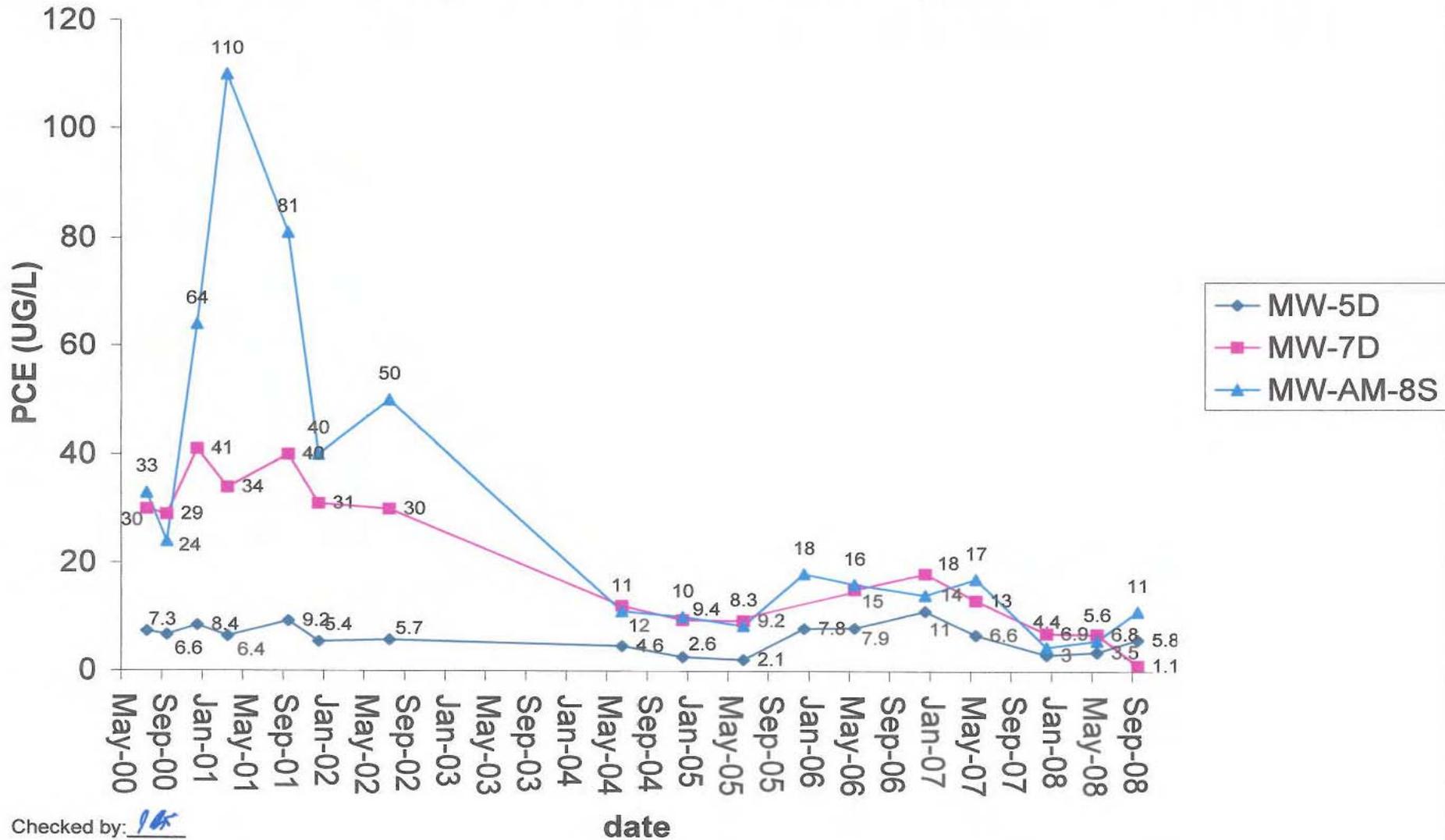


Figure 16. July 2000 - September 2008 PCE Versus Time for MW-5D, MW-7D, MW-AM-8S



Questions?

Contact Information

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