

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

**Wednesday, April 2, 2008 at 5 p.m.  
Mesa Main Library Saguaro Room  
64 East First St., Mesa, Arizona**

**DRAFT MINUTES**

OU #08-137

CAB members present: Jay Clapp, Karl Kohlhoff, Leland Frische, Scott Bouchie, and Donna Moran

CAB Members absent: None

ADEQ Staff in attendance: Julie Riemenschneider, Manager Remedial Projects Unit; Danita Hardy, Project Manager; and Felicia Calderon, Community Involvement Coordinator

Members of the public present: Jim Clarke, ADEQ Consultant from MACTEC, and Bruce Robinson

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

**1. Welcome and Introductions**

Felicia Calderon introduced herself as the Community Involvement Coordinator for the South Mesa WQARF site. Introductions of Community Advisory Board (CAB) members, ADEQ staff, and members of the public were conducted. Mr. Bouchie requested the reversal of agenda items 5 and 6.

**2. Acceptance and/or Changes to July 26, 2005 Minutes**

Mr. Kohlhoff asked for a motion to accept the minutes from July 26, 2005 CAB meeting. Mr. Clapp made this motion, and it was seconded by Mr. Bouchie. The motion passed.

**3. Discussion of Current Status and Activities at the South Mesa WQARF Site**

**A. Remedial Investigation (RI) Report Update**

Ms. Hardy initiated her presentation to the CAB with an RI update for the South Mesa WQARF site.

**See presentation below**

Ms. Moran asked about a release date for the RI Report. In response Ms. Riemenschneider stated that the targeted release for this report was May of this fiscal year.

## **B. Indoor Air Quality (IAQ) & Soil Vapor Extraction (SVE)**

Ms. Hardy proceeded with her presentation to the CAB with historic and current updates on Indoor Air Quality (IAQ) Assessments and soil vapor extraction (SVE) at the former Applied Metallics facility.

**See presentation below**

Mr. Clapp questioned the IAQ calculated levels of cancer risks ADEQ observed as compared to Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) standards. In response to Mr. Clapp, Ms. Riemenschneider reported that every cleanup is based on a health risk level. Ms. Riemenschneider also noted that Arizona does not have a standard established for IAQ. ADEQ was therefore following EPA's risk assessment program. Mr. Clarke further detailed to the CAB how MACTEC used EPA's Region 9 Preliminary Remediation Goals (PRG) for residential uses and applied those numbers and calculated risks for commercial operations. Lastly, Ms. Riemenschneider reminded the CAB that the IAQ cancer risk levels and the processes that MACTEC followed to determine these levels would be detailed in the RI Report.

Regarding the SVE shutdown in April 2008, Mr. Bouchie inquired if there was any chance that the contaminant concentrations pulled from the soil could return. In response Ms. Riemenschneider added that in anticipation of a possible contaminant concentration rebound, this system had been turned off and on for the last six months to a year. However, no rebound had occurred.

## **C. Bi-Annual Groundwater Sampling**

Ms. Hardy discussed the 2005 – 2007 bi-annual groundwater sampling results.

**See presentation below**

Mr. Clarke discussed how the alluvial plume dimensions were determined using soil gas, soil, and groundwater sample data to get vertical profiles of tetrachloroethene (PCE) concentrations. Mr. Clarke added that zones were categorized as areas that produced water (aquifers) and had the highest PCE concentrations separated by low yield layers (aquitards).

Ms. Hardy inquired if there were any questions regarding her presentation. Mr. Bouchie asked what the next steps for this site were. Ms. Riemenschneider advised that the draft RI Report will be released and out for public comment. After that there would be a public meeting to solicit remedial objectives (ROs). Ms. Riemenschneider explained to the CAB that the ROs are used to assess how and to what level remediation at the South Mesa WQARF Site will be completed.

## **4. Distribution of 2007 WQARF Registry Report**

Ms. Calderon explained that state law required ADEQ to produce and publish an annual registry report of all the WQARF sites in Arizona and their remedial status. Currently, there are 35 WQARF sites in Arizona. All attendees were encouraged to take a report. A copy of the WQARF 2007 Annual Registry Report is located within the repositories as well. Mr. Clapp questioned the

relationship between the WQARF site score and the completion of each site on the Registry. Ms. Riemenschneider responded that the site score does not necessarily correspond to a priority level. In addition she added that there are several factors that can delay remediation of a WQARF site, including property access. Lastly Ms. Riemenschneider reminded the CAB that public health and the environment are always high priorities.

**5. Discussion and Voting on CAB Application**

Mr. Robinson introduced himself to the CAB. Mr. Clapp requested a motion to accept Mr. Robinson as a new CAB member. Mr. Bouchie made the motion, and Ms. Moran seconded. Mr. Robinson was voted onto the South Mesa WQARF Site CAB.

**6. New CAB Co-Chair Voting and Nominations**

Mr. Clapp declared his resignation as a co-chair to the CAB. Mr. Bouchie requested a motion to nominate Mr. Robinson as Mr. Clapp's replacement. Mr. Clapp made the motion, and Mr. Frische seconded. Mr. Robinson was voted as the new co-chair.

**7. Call to the Public** None

**8. Future Meeting and Agenda Discussion**

It was decided that the date of the next CAB meeting would be determined at a later date and it would parallel the release of the draft RI Report. Agenda discussions would include contents of the draft RI Report.

**9. Adjournment**

Mr. Robinson requested a motion to adjourn. Mr. Bouchie made the motion, and Mr. Frische seconded. The meeting was adjourned.

# **South Mesa WQARF Site**

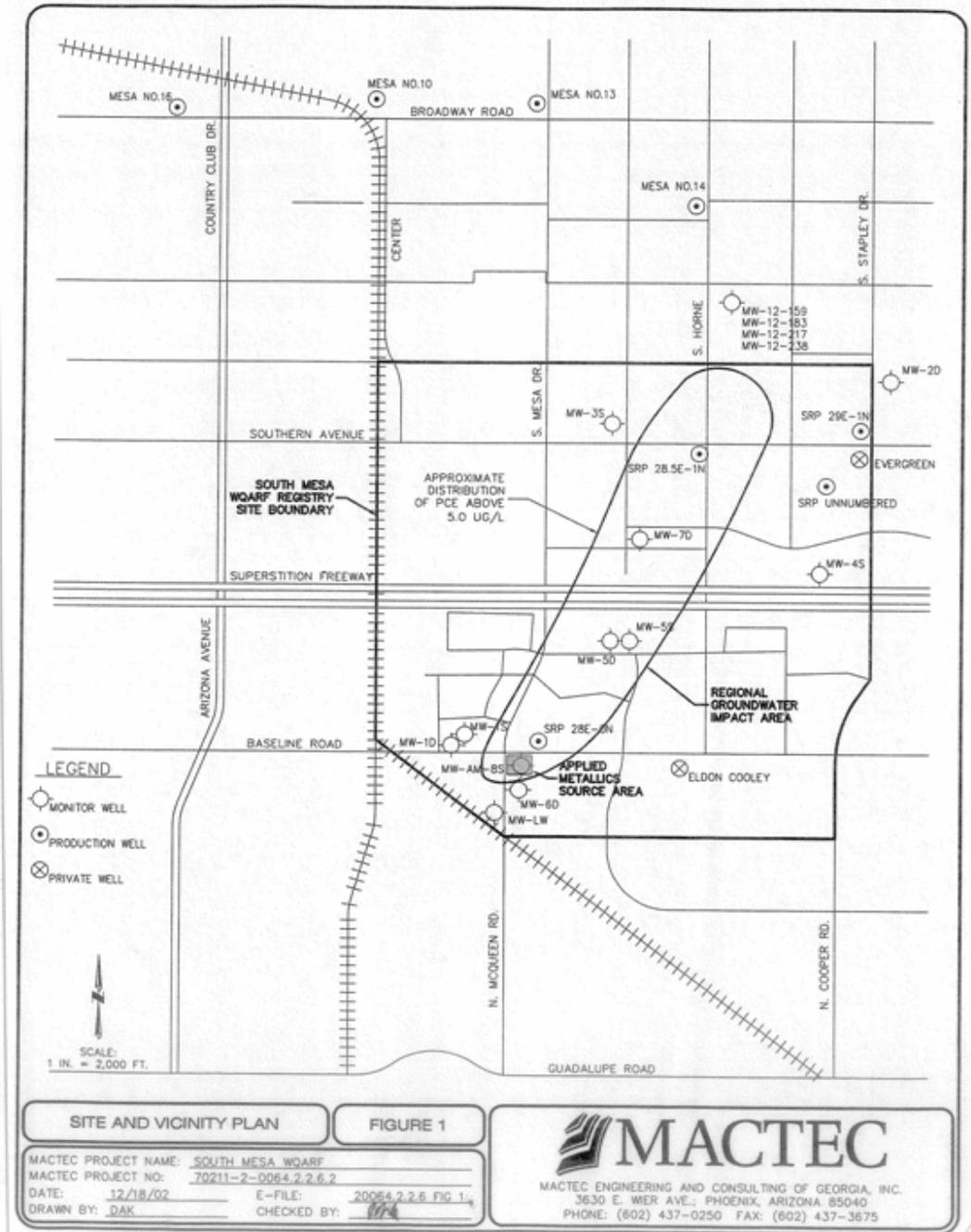
**CAB Meeting**

**April 2, 2008**

**Danita Hardy – ADEQ Project Manager**



# South Mesa WQARF Site



# Contents

- Remedial Investigation Report
- Indoor Air Quality Sampling
- Soil Vapor Extraction (SVE) System
- Groundwater Sampling & Results

- Draft RI report is currently undergoing ADEQ review.
- Will go out for public comment on the RI when completed (FY 08).
- Public meeting will be held to solicit comments for the Remedial Objectives (RO) report.
- RO Report will go out for public comment.
- Final RI will include the RO report as Appendix.

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# South Mesa SVE & Indoor Air Quality

- **Indoor Air Quality (IAQ) Assessment** originally done in 2002
- In June & December 2002, PCE concentrations ranged from non-detect to 180 ppbv
- WQARF initiated an **Early Response Action (ERA) SVE** system in 2004 to remediate subsurface soils.

# Soil Vapor Extraction System



- Soil Vapor Extraction (SVE) system (5 vapor wells) installed in 1995 – 1997 by Earth Tech & EMCON.
- 1,107 pounds of VOCs extracted from subsurface by June 1997.
- Vapor wells VW-5A/B/C hooked up to SVE system in 2004.
- New vapor well VEW 7A/B/C installed in 2004.
- Then as a WQARF ERA, SVE system started back up in 2004.
- An additional 168 pounds of VOCs removed from subsurface soils.

- By October 2007, SVE system removing less than 0.1 pound per day.
- Indoor Air Quality (IAQ) samples collected on 11/21/07.
- PCE concentrations less than 0.85 ppbv.
- IAQ samples well below Commercial Incidental Lifetime Cancer Risk (CILCR).
- $CILCR = 1 \times 10^{-06}$

- Per National Contingency Plan (NCP), no further action is required.
- SVE system shut down
- SVE system will be removed from site in April 2008.

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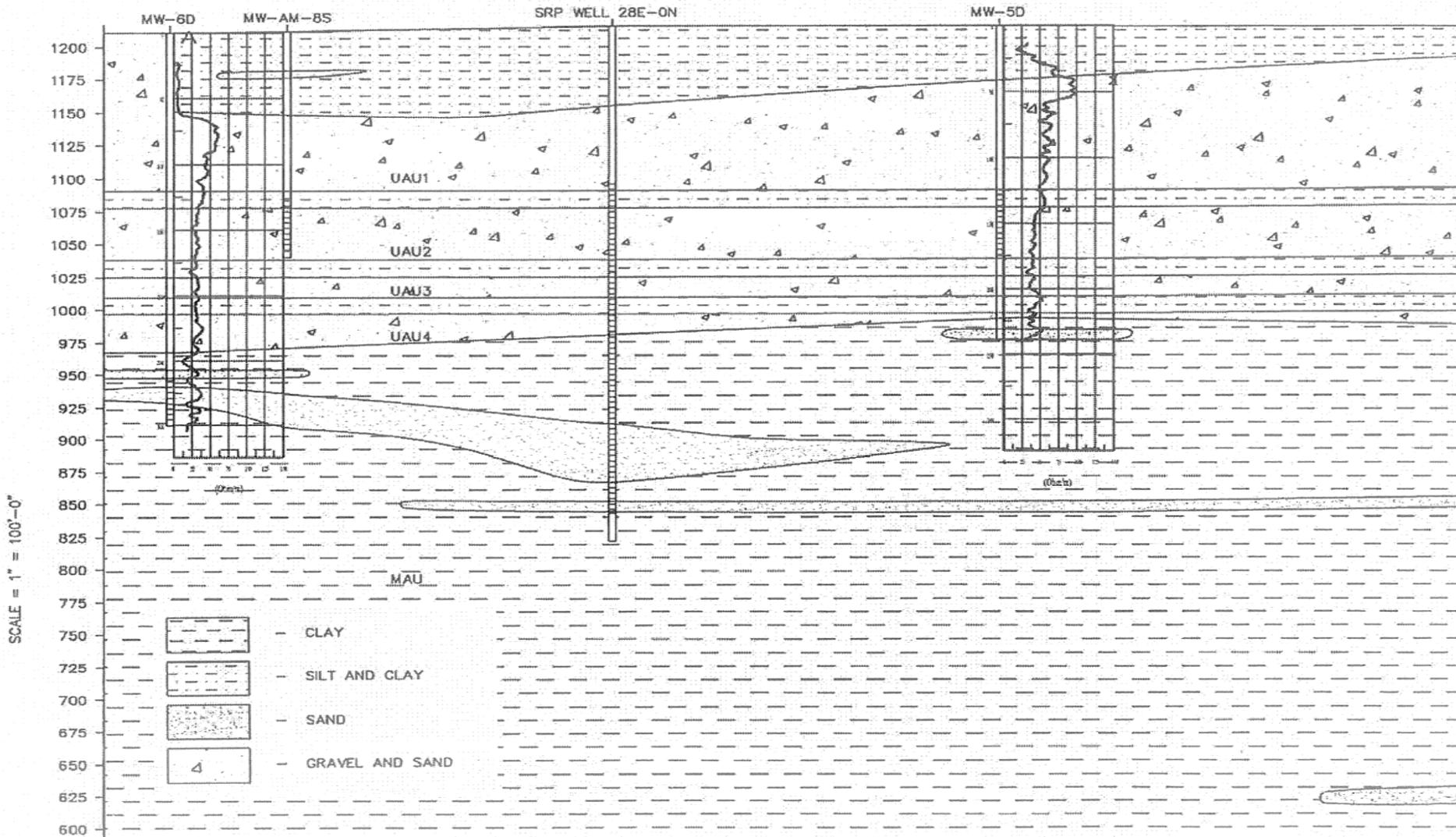
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# Bi-Annual Groundwater Sampling



SCALE = 1" = 500'-0"



Well Name	Zone Sampled	PCE CONCENTRATIONS (µg/L)					
		Jun-05	Dec-05	May-06	Dec-06	May-07	Dec-07
MW-9-130	UAU1	14	15	13	12	12	9.4
MW-10-130	UAU1	3	9.6	8.9	8.6	<10.0	5.3
MW-12-159	UAU1	<1.0	<1.0	<1.0	NS	NS	NS
MW-AM-8S	UAU2	8.3	18	16	14	17	4.4
MW-9-175	UAU2	5.6	5	6.9	6	5.2	9.2
MW-10-170	UAU2	2.9	8.3	2.7	4.5	<10.0	1.8
MW-11-170	UAU2	3.7	3.4	3.7	3.7	3.7	4.8
MW-12-183	UAU2	<1.0	<1.0	<1.0	NS	NS	NS
MW-5D	UAU3	2.1	8.7	7.9	11	6.6	3
MW-7D	UAU3	12	NS	15	18	13	6.9
MW-9-205	UAU3	1.1	5.3	<1.0	<1.0	1.2	1
MW-11-200	UAU3	1.8	2.6	3.1	4.3	3.1	2.9
MW-12-217	UAU3	1.0	<1.0	1.5	NS	NS	NS
MW-9-235	UAU4	13	5.6	3.1	8	9.8	5.6
MW-10-235	UAU4	1.3	<1.0	<1.0	1.1	1.2	2.2
MW-11-240	UAU4	1.1	2.4	<1.0	1.9	1.4	1.6
MW-12-238	UAU4	<1.0	1.1	<1.0	NS	NS	NS
<b>PCE AWQS = 5.0 ppb</b>							

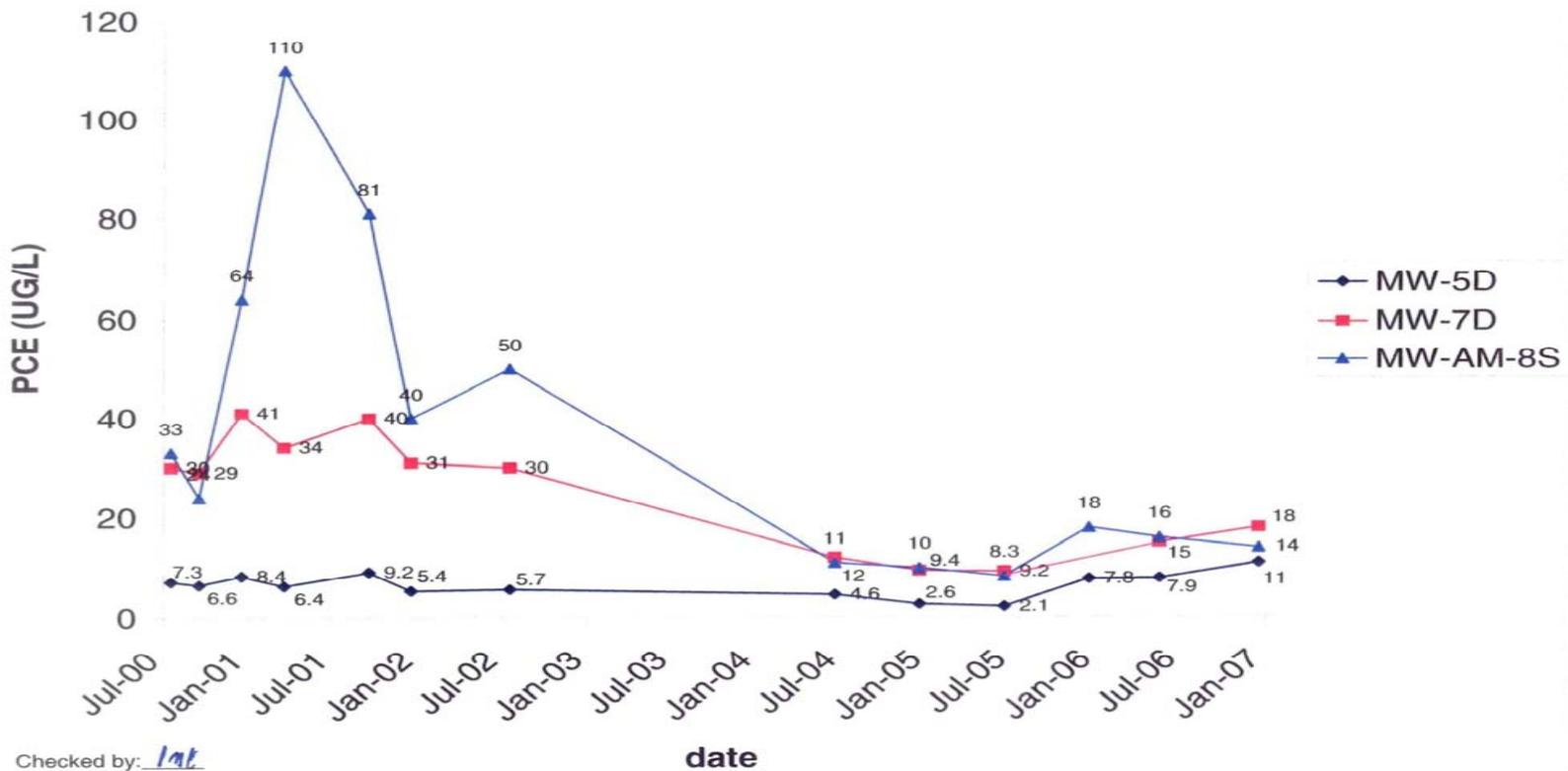
- In general, PCE concentrations are decreasing or staying about the same.**
- PCE concentrations (4.4 ppb) in the onsite well (MW-AM-8S) were below AWQS (5.0 ppb) in the December 2007 sampling event.**
- As of December 2007, the highest concentration of PCE was 9.4 ppb in monitor well MW-9-130.**

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### PCE Versus Time for MW-5D, MW-7D, MW-AM-8S



Checked by: lat

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**Questions?**

# Contact Information:

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