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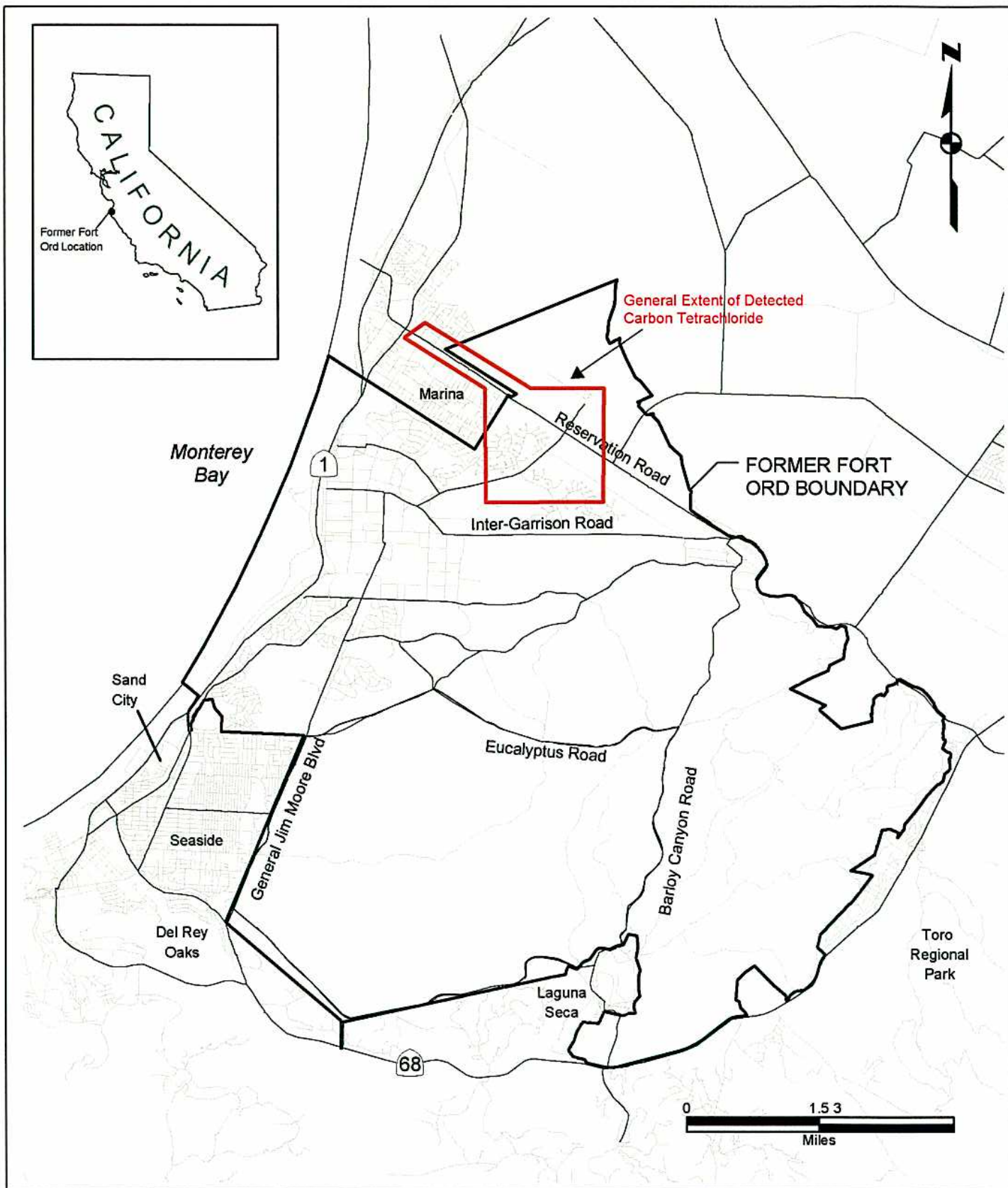
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June 2004



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PLATE



Map of Study Area

General Extent of Carbon Tetrachloride
OUCTP RI/FS
Former Fort Ord
Monterey County, California

E1

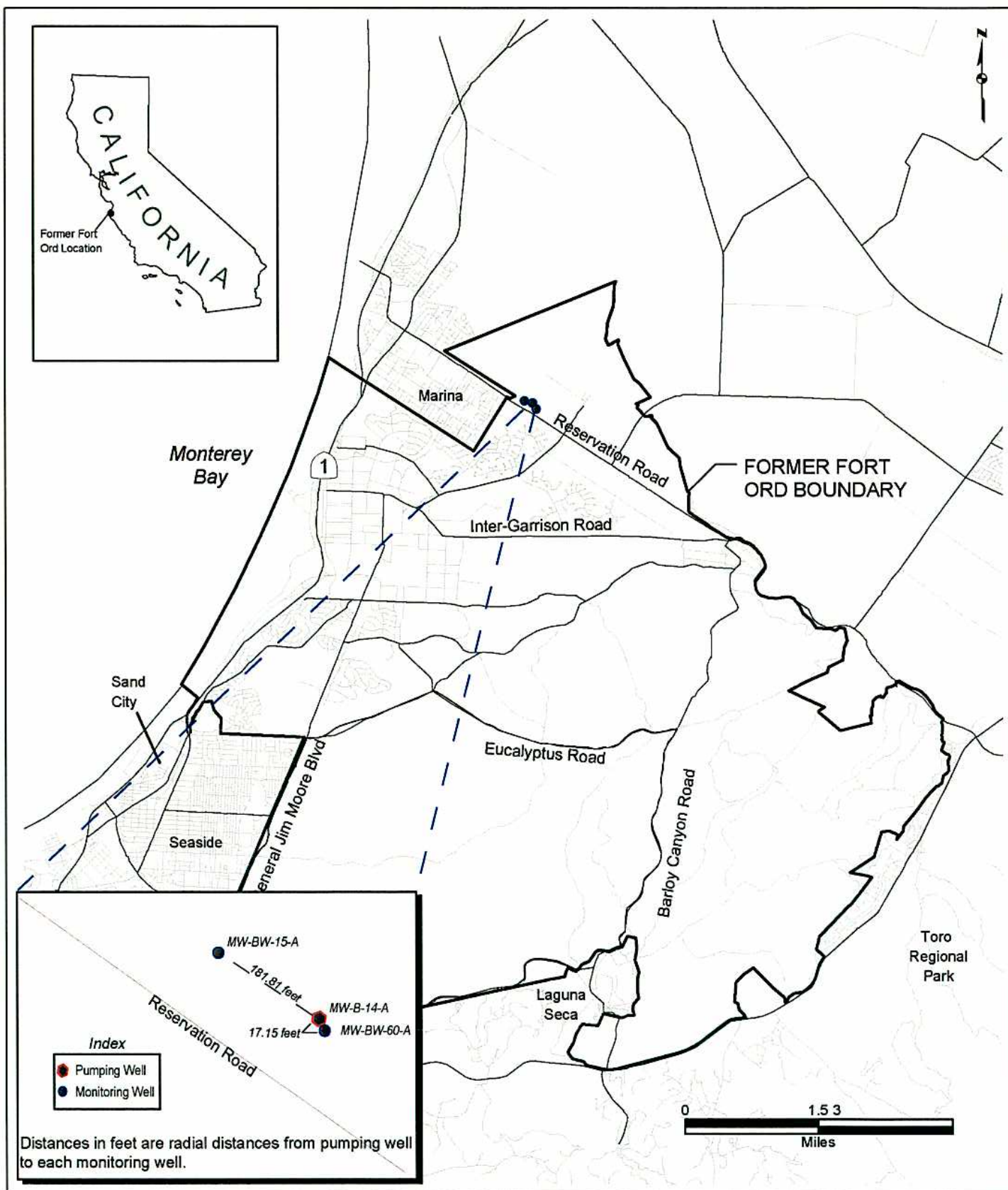
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MW-B-14-A Aquifer Test Site
 OUCTP RI/FS
 Former Fort Ord
 Monterey County, California

PLATE

E2-1

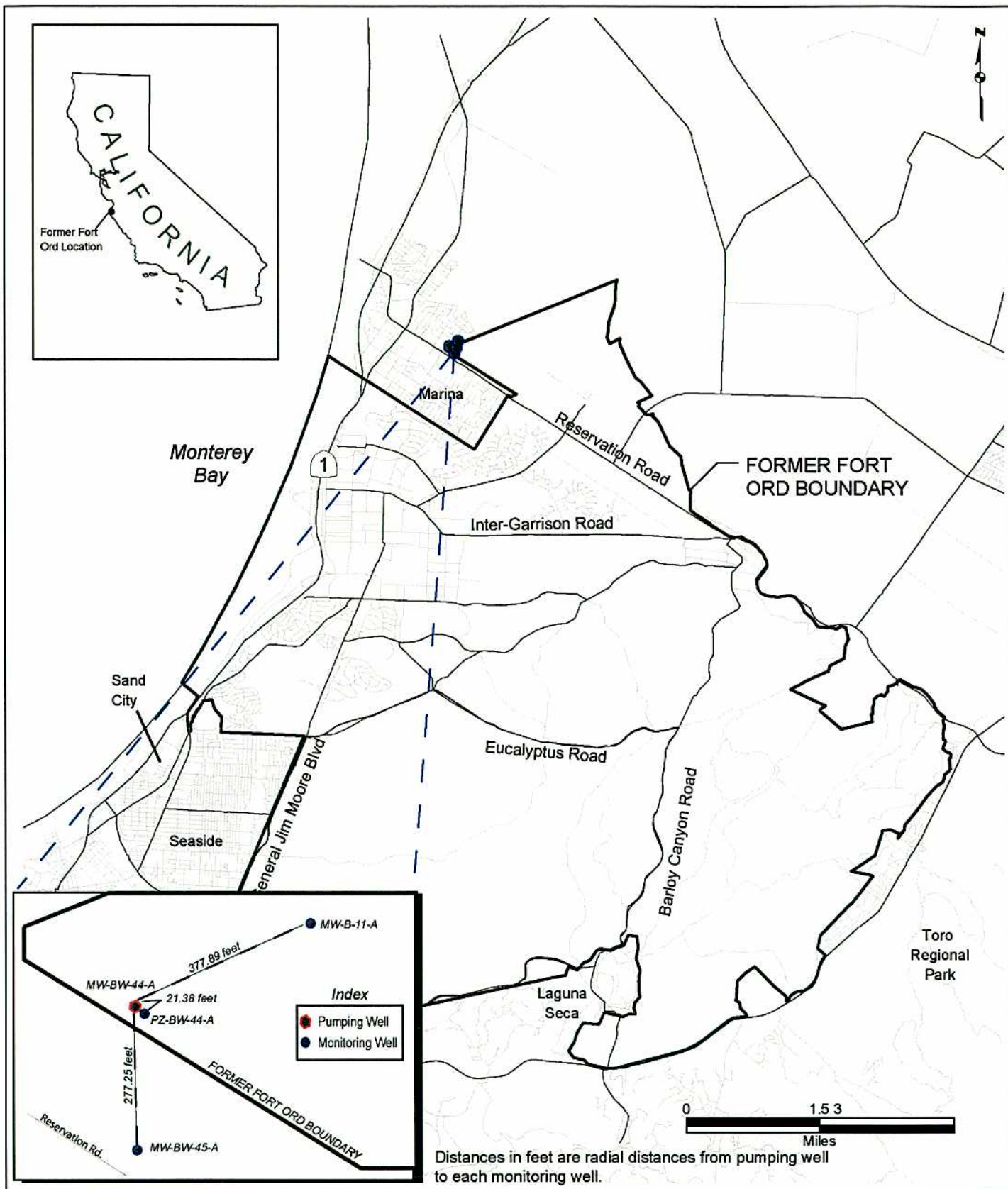
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MW-BW-44-A Aquifer Test Site
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 Monterey County, California

E2-2

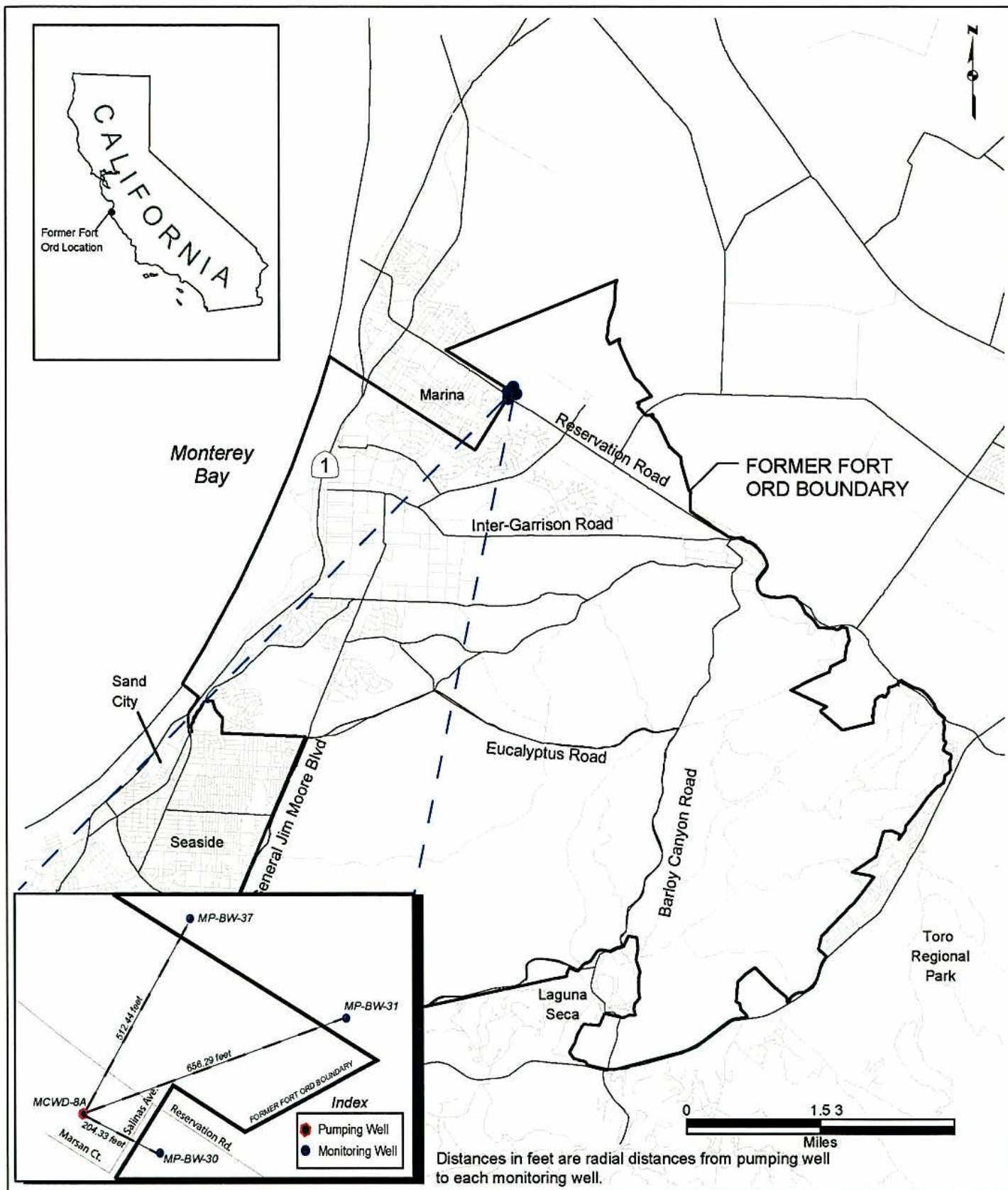
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MCWD-8A Aquifer Test Site
 OUCTP RI/FS
 Former Fort Ord
 Monterey County, California

E2-3

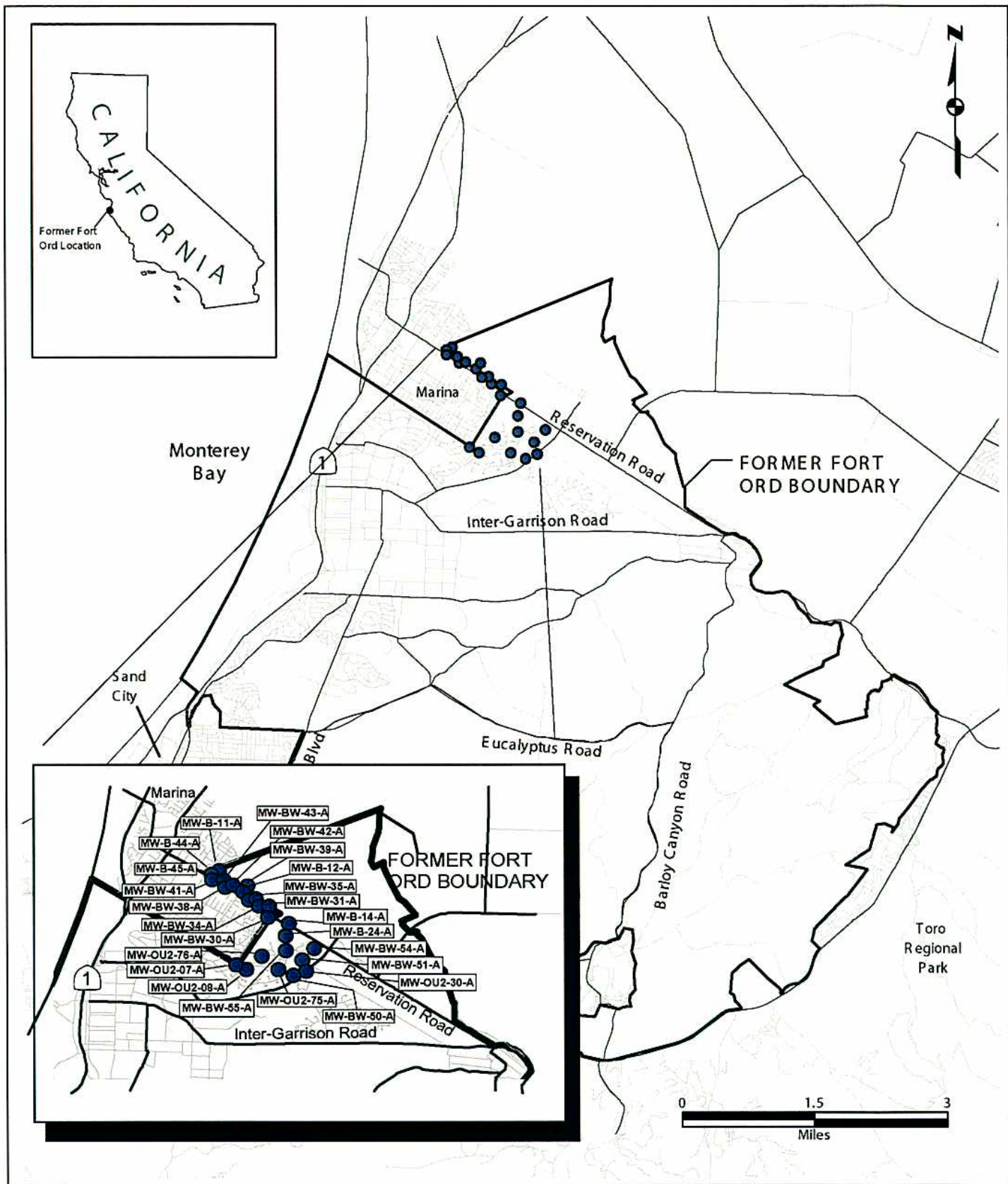
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PLATE



Slug Test Sites

Former Fort Ord
Monterey County, California

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Appendix E3. Summary of Aquifer Test Construction
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

Pump Test Construction:

Pumping Well	Observation Well	Pump Test Data							Test Date
		Saturated Aquifer Thickness (ft)	Screen Length (ft)	Boring Radius (ft)	Discharge Rate (U.S. gal/min)	Test Duration (min)	Observed Drawdown (ft)	Distance from Pumping Well to Observation Well (ft)	
MW-B-14-A	MW-BW-60-A	24	30	0.5	7	1837.7	0.7	17.15	7/22/2003
	MW-BW-15-A	24	30	0.5	7	1837.7	NA	181.81	
MW-BW-44-A	PZ-BW-44-A	18	30	0.5	15	437.75	0.17	21.38	7/31/2003
	MW-BW-45-A	18	30	0.5	15	437.75	NA	277.25	
	MW-BW-11-A	18	30	0.5	15	437.75	NA	377.89	
MCWD-8A	MP-BW-30-342	140	80	1	320	2880	1.6	204.33	5/6/2003
	MP-BW-31-332	140	80	1	320	2880	1.4	656.29	
	MP-BW-37-328	140	80	1	320	2880	0.8	512.44	

Slug Test Construction:

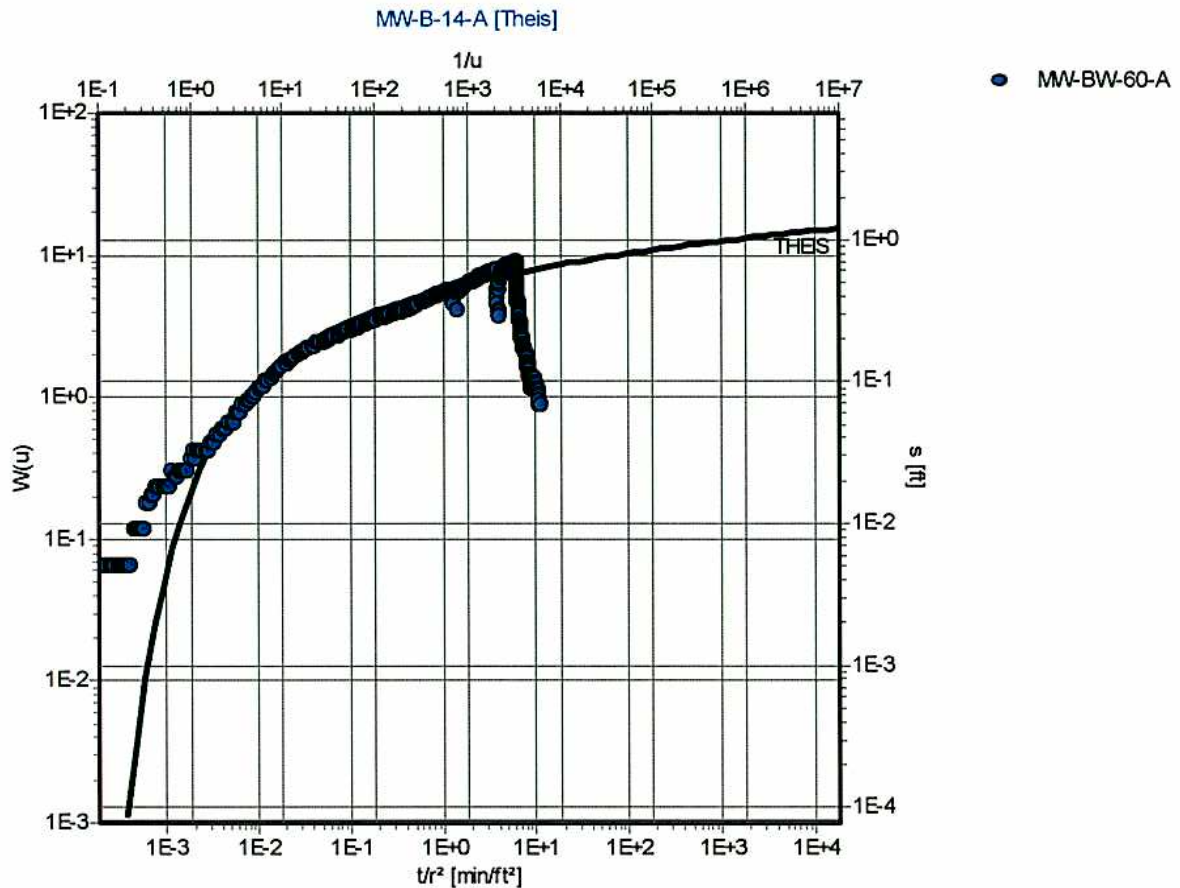
Well Name	Recovery	Slug Test Data			
		Saturated Aquifer	Screen Length (ft)	Test Duration (min)	Test Date
MW-B-11-A	Falling-Head	30	30	7.89	11/10/2004
MW-B-11-A	Rising-Head	30	30	4.97	11/11/2004
MW-B-12-A	Falling-Head	30	30	7.04	11/10/2004
MW-B-12-A	Rising-Head	30	30	5.58	11/10/2004
MW-B-14-A	Falling-Head	30	20	5.92	11/10/2004
MW-B-14-A	Rising-Head	30	20	5.92	11/10/2004
MW-BW-24-A	Falling-Head	30	30	5.92	11/10/2004
MW-BW-24-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-30-A	Falling-Head	30	30	6.27	11/10/2004
MW-BW-30-A	Rising-Head	30	30	4.43	11/10/2004
MW-BW-31-A	Falling-Head	30	30	6.27	11/10/2004
MW-BW-31-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-34-A	Falling-Head	30	30	4.97	11/10/2004
MW-BW-34-A	Rising-Head	30	30	3.13	11/10/2004
MW-BW-35-A	Falling-Head	30	30	7.89	11/10/2004
MW-BW-35-A	Rising-Head	30	30	7.45	11/10/2004
MW-BW-38-A	Falling-Head	30	30	3.32	11/10/2004
MW-BW-38-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-39-A	Falling-Head	30	30	2.95	11/10/2004
MW-BW-39-A	Rising-Head	30	30	3.52	11/10/2004
MW-BW-41-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-41-A	Rising-Head	30	30	3.52	11/10/2004
MW-BW-42-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-42-A	Rising-Head	30	30	3.52	11/10/2004
MW-BW-43-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-43-A	Rising-Head	30	30	5.27	11/10/2004
MW-BW-44-A	Falling-Head	30	30	2.09	11/10/2004
MW-BW-44-A	Rising-Head	30	30	4.43	11/10/2004
MW-BW-45-A	Falling-Head	30	30	2.95	11/10/2004
MW-BW-45-A	Rising-Head	30	30	3.73	11/10/2004

Appendix E3. Summary of Aquifer Test Construction
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

Well Name	Recovery	Saturated Aquifer	Screen Length (ft)	Test Duration (min)	Test Date
MW-BW-50-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-50-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-51-A	Falling-Head	30	30	5.27	11/10/2004
MW-BW-51-A	Rising-Head	30	30	6.27	11/10/2004
MW-BW-54-A	Falling-Head	30	30	2.34	11/10/2004
MW-BW-54-A	Rising-Head	30	30	4.97	11/10/2004
MW-BW-55-A	Falling-Head	30	30	5.92	11/10/2004
MW-BW-55-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-07-A	Falling-Head	30	30	6.27	11/10/2004
MW-OU2-07-A	Rising-Head	30	30	3.13	11/10/2004
MW-OU2-08-A	Falling-Head	30	30	5.27	11/10/2004
MW-OU2-08-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-30-A	Falling-Head	30	30	6.27	11/10/2004
MW-OU2-30-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-75-A	Falling-Head	30	30	5.27	11/10/2004
MW-OU2-75-A	Rising-Head	30	30	6.27	11/10/2004
MW-OU2-76-A	Falling-Head	30	30	6.27	11/10/2004
MW-OU2-76-A	Rising-Head	30	30	6.27	11/10/2004

Checked CWS

 Approved MST



Pumping Test: MW-B-14-A

Analysis Method: Theis

<u>Analysis Results:</u>	Transmissivity:	1.38E+3 [ft ² /d]	Conductivity:	5.76E+1 [ft/d]
	Storativity:	7.05E-3		

<u>Test parameters:</u>	Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
	Casing radius:	0.25 [ft]	Unconfined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	7 [U.S. gal/min]		



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MW-B-14-A Aquifer Test, Drawdown at MW-BW-60-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E4-1

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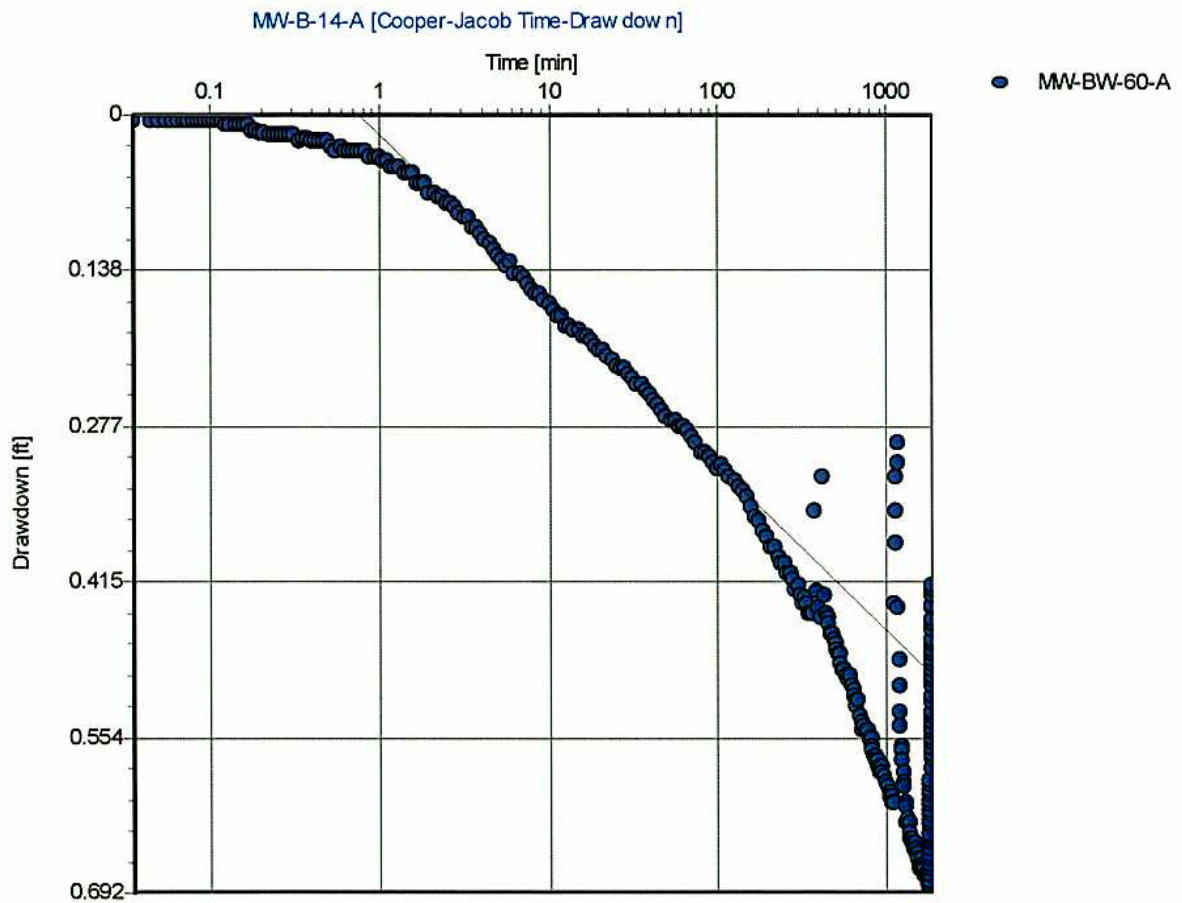
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Pumping Test: **MW-B-14-A**

Analysis Method: **Cooper-Jacob Time-Drawdown**

<u>Analysis Results:</u>	Transmissivity:	1.68E+3 [ft ² /d]	Conductivity:	7.01E+1 [ft/d]
	Storativity:	6.83E-3		

<u>Test parameters:</u>	Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
	Casing radius:	0.25 [ft]	Unconfined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	7 [U.S. gal/min]		



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MW-B-14-A Aquifer Test, Drawdown at MW-BW-60-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E4-2

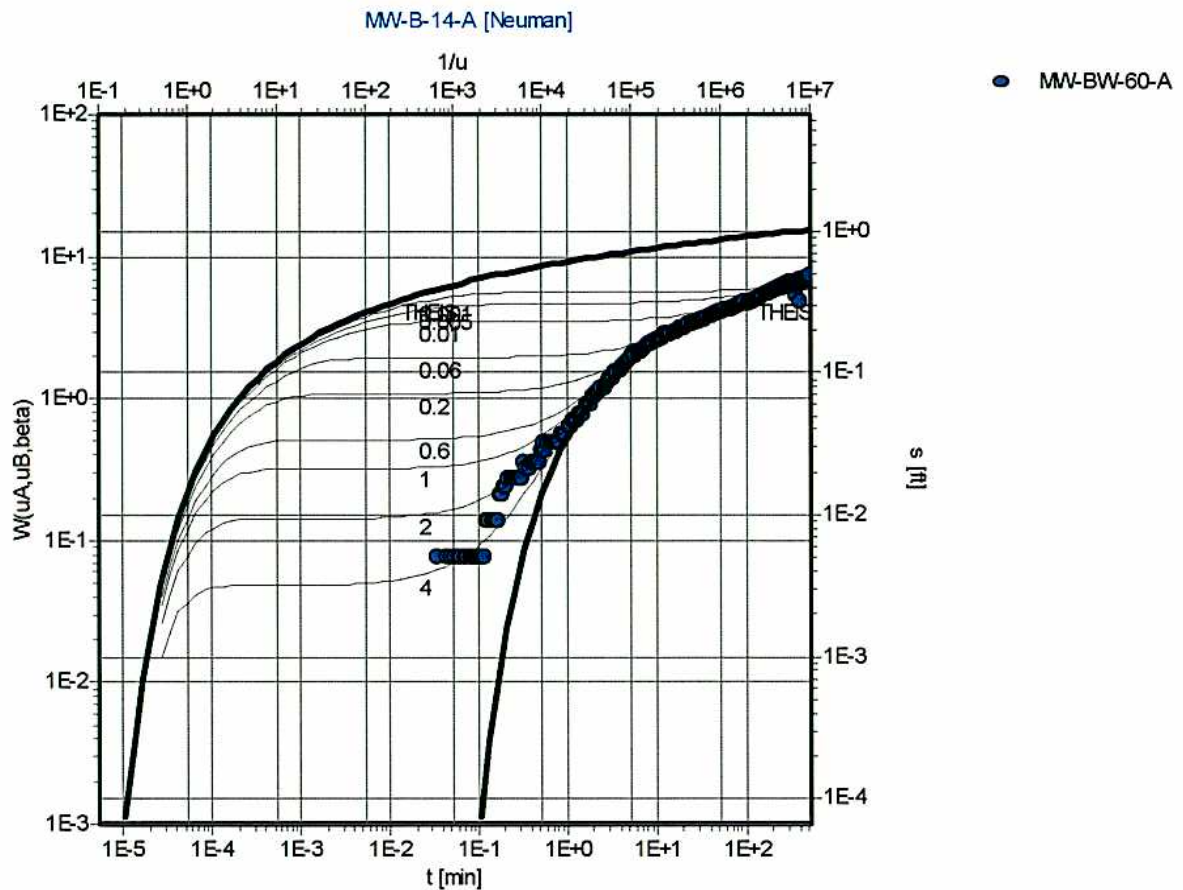
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Pumping Test: MW-B-14-A

Analysis Method: Neuman

<u>Analysis Results:</u>	Transmissivity:	1.63E+3 [ft ² /d]	Conductivity:	6.78E+1 [ft/d]
	Storativity:	8.30E-7	Specific Yield:	8.30E-3

<u>Test parameters:</u>	Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
	Casing radius:	0.25 [ft]	Beta:	0.005
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	7 [U.S. gal/min]		
	LOG(Sy/S):	4		



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MW-B-14-A Aquifer Test, Drawdown at MW-BW-60-A
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Former Fort Ord, California

FIGURE

E4-3

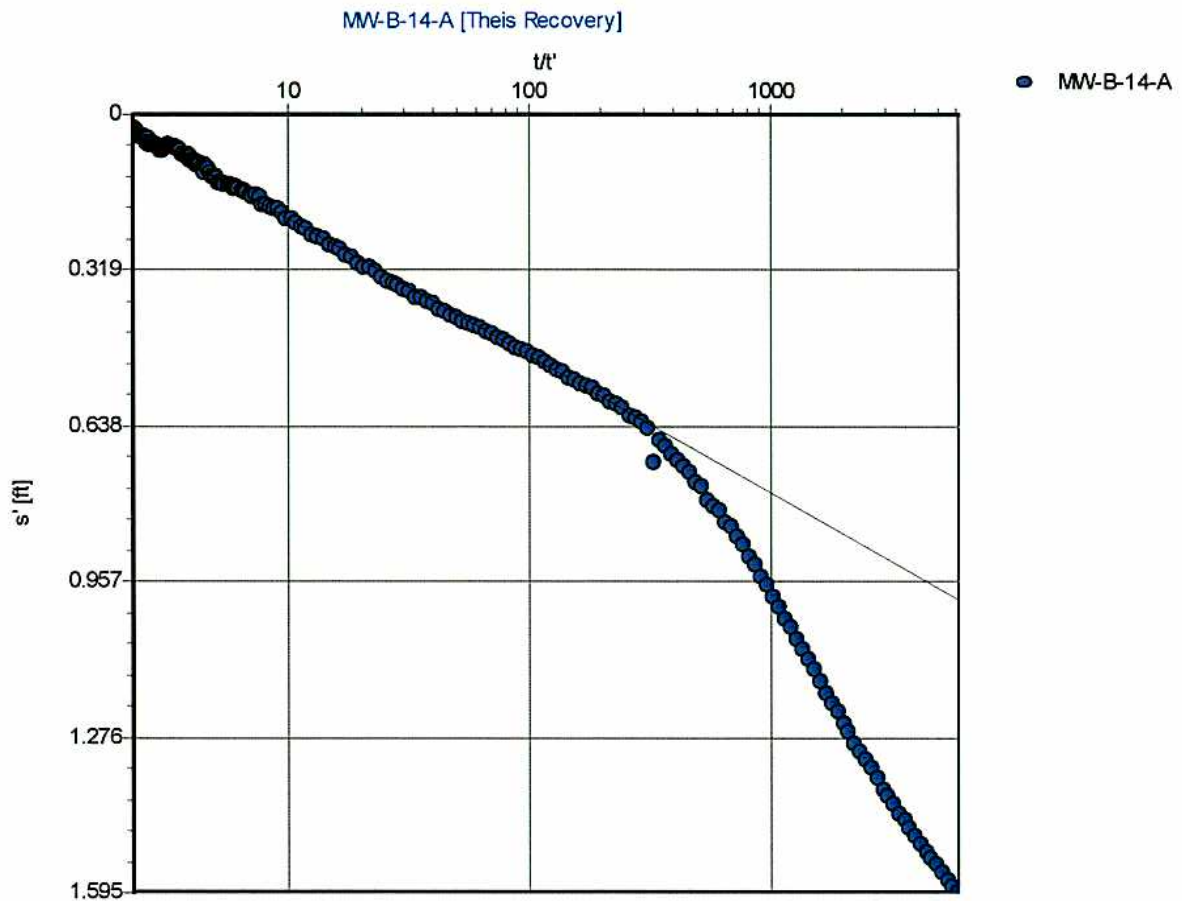
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Pumping Test: **MW-B-14-A**

Analysis Method: **Theis Recovery**

<u>Analysis Results:</u>	Transmissivity:	8.78E+2 [ft ² /d]	Conductivity:	3.66E+1 [ft/d]
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<u>Test parameters:</u>	Pumping Well:	MW-B-14-A	Aquifer Thickness:	24 [ft]
	Casing radius:	0.25 [ft]	Unconfined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	7 [U.S. gal/min]		
	Pumping Time	1837.7 [min]		



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MW-B-14-A Aquifer Test, Recovery at MW-B-14-A
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Former Fort Ord, California

FIGURE

E4-4

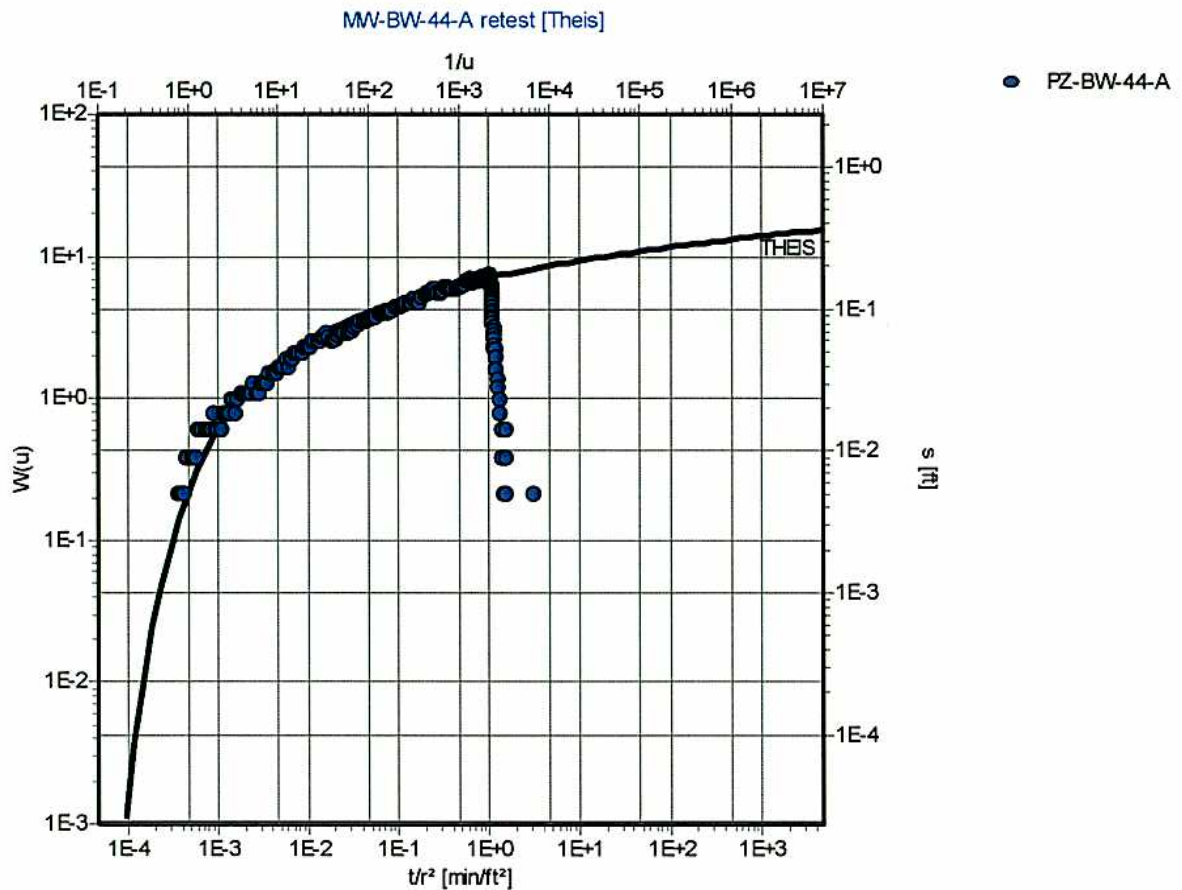
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Pumping Test: MW-BW-44-A retest

Analysis Method: Theis

<u>Analysis Results:</u>	Transmissivity:	9.80E+3 [ft ² /d]	Conductivity:	5.45E+2 [ft/d]
	Storativity:	1.27E-2		

<u>Test parameters:</u>	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Confined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		



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MW-BW-44-A Aquifer Test, Drawdown at PZ-BW-44-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E5-1

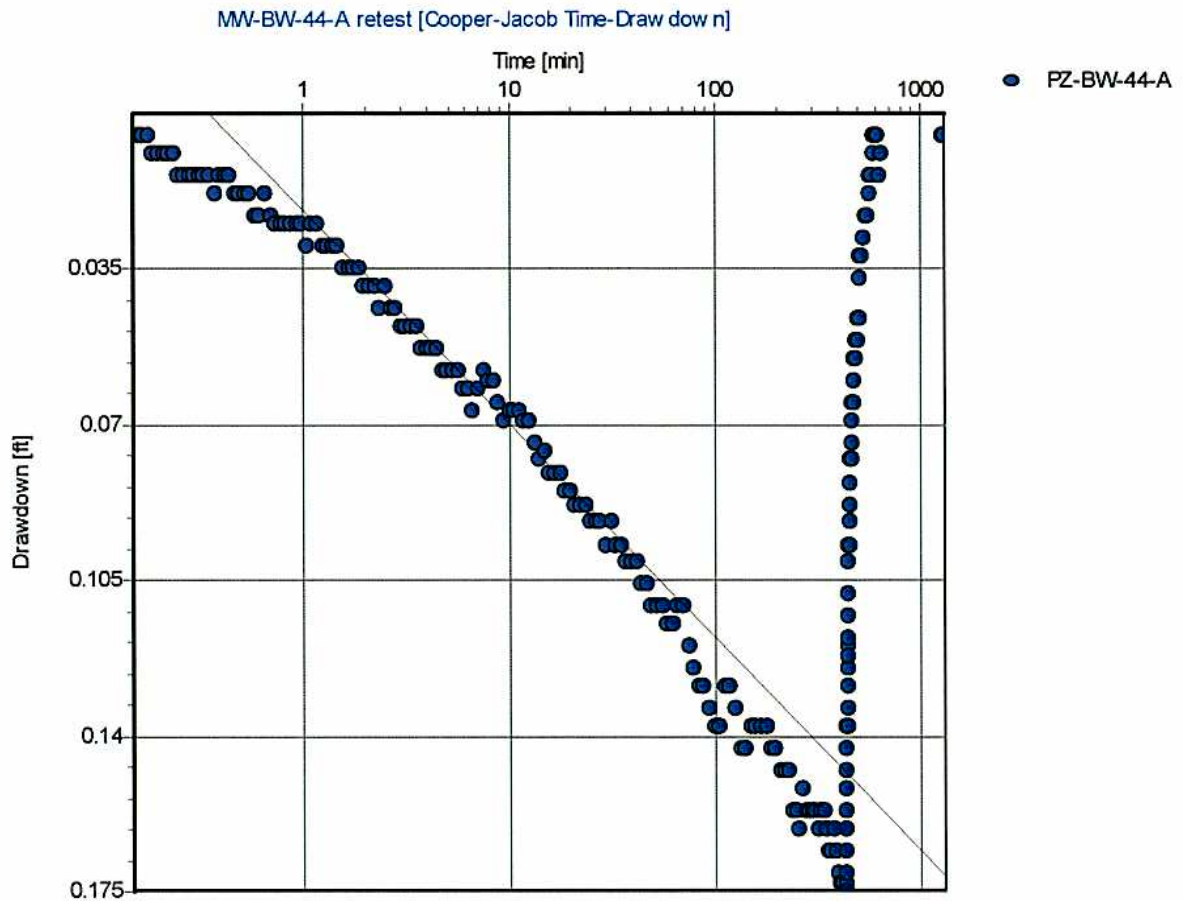
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Pumping Test: MW-BW-44-A retest

Analysis Method: Cooper-Jacob Time-Drawdown

<u>Analysis Results:</u>	Transmissivity:	1.10E+4 [ft ² /d]	Conductivity:	6.12E+2 [ft/d]
	Storativity:	1.49E-2		

<u>Test parameters:</u>	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Confined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		



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MW-BW-44-A Aquifer Test, Drawdown at PZ-BW-44-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E5-2

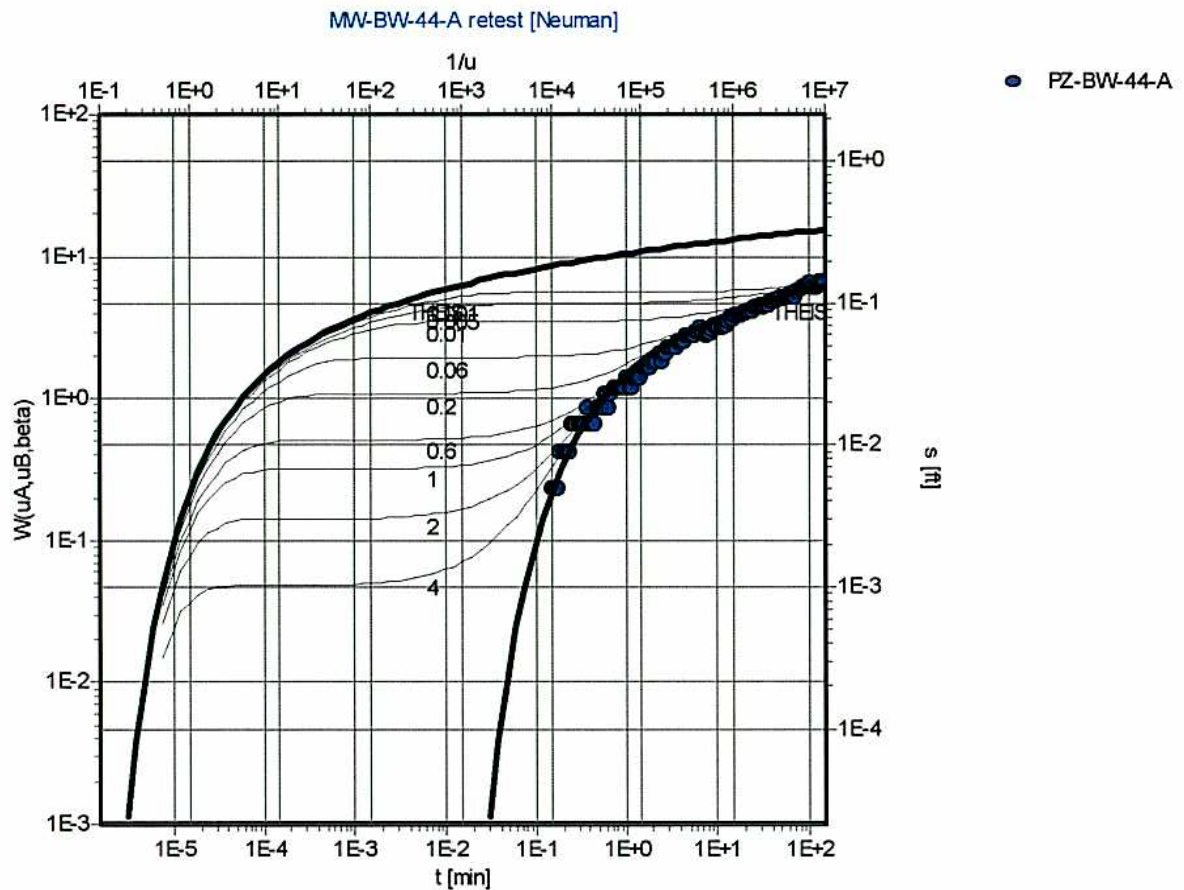
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Pumping Test: MW-BW-44-A retest

Analysis Method: Neuman

<u>Analysis Results:</u>	Transmissivity:	1.08E+4 [ft ² /d]	Conductivity:	5.99E+2 [ft/d]
	Storativity:	1.09E-6	Specific Yield:	1.09E-2

<u>Test parameters:</u>	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Beta:	0.005
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		
	LOG(Sy/S):	4		



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MW-BW-44-A Aquifer Test, Drawdown at PZ-BW-44-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E5-3

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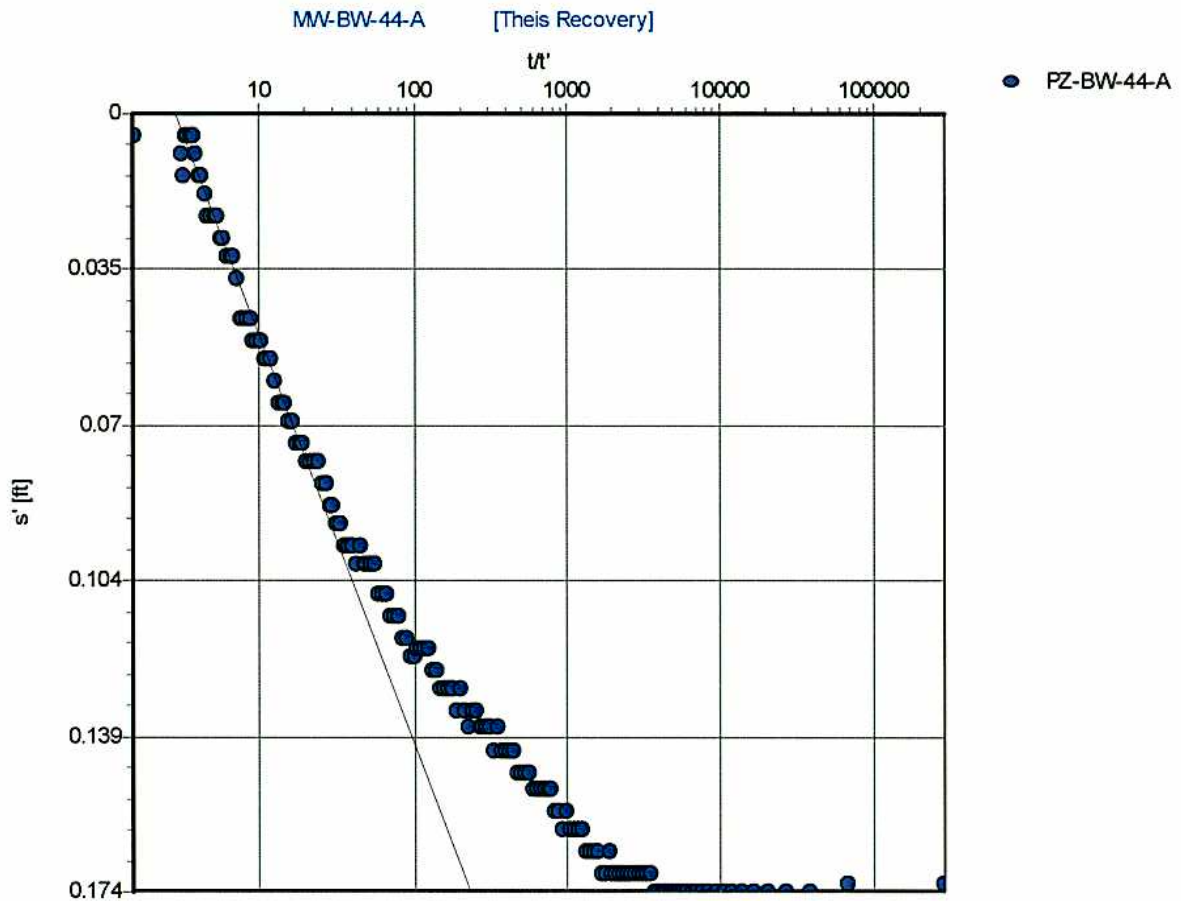
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Pumping Test: MW-BW-44-A

Analysis Method: Theis Recovery

Analysis Results: Transmissivity: 5.76E+3 [ft²/d] Conductivity: 3.20E+2 [ft/d]

Test parameters:

Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
Casing radius:	0.21 [ft]	Unconfined Aquifer	
Screen length:	30 [ft]		
Boring radius:	0.5 [ft]		
Discharge Rate:	15 [U.S. gal/min]		
Pumping Time	437.75 [min]		



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MW-BW-44-A Aquifer Test, Recovery at PZ-BW-44-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E5-4

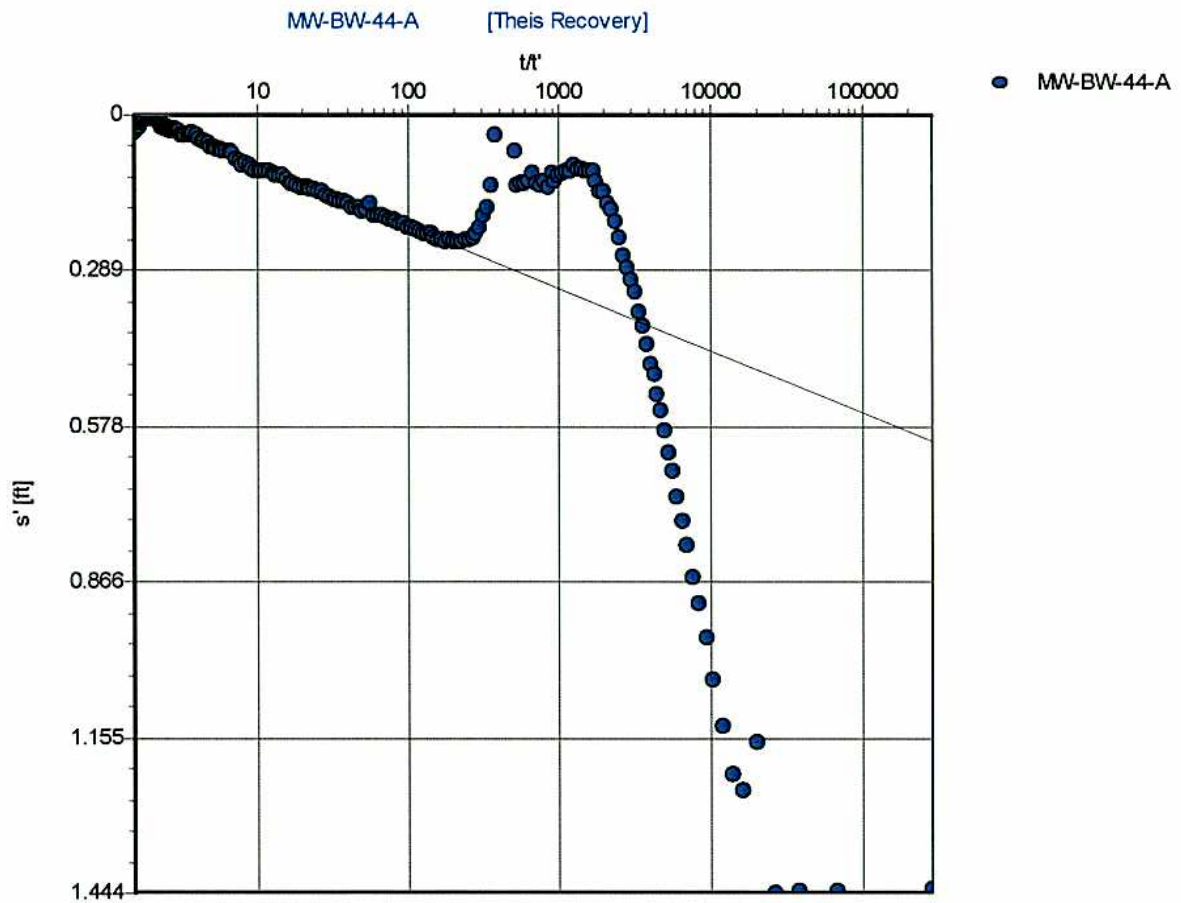
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Pumping Test: **MW-BW-44-A**

Analysis Method: **Theis Recovery**

Analysis Results: Transmissivity: 4.60E+3 [ft²/d] Conductivity: 2.55E+2 [ft/d]

<u>Test parameters:</u>	Pumping Well:	MW-BW-44-A	Aquifer Thickness:	18 [ft]
	Casing radius:	0.21 [ft]	Confined Aquifer	
	Screen length:	30 [ft]		
	Boring radius:	0.5 [ft]		
	Discharge Rate:	15 [U.S. gal/min]		
	Pumping Time	437.75 [min]		



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MW-BW-44-A Aquifer Test, Recovery at MW-BW-44-A
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E5-5

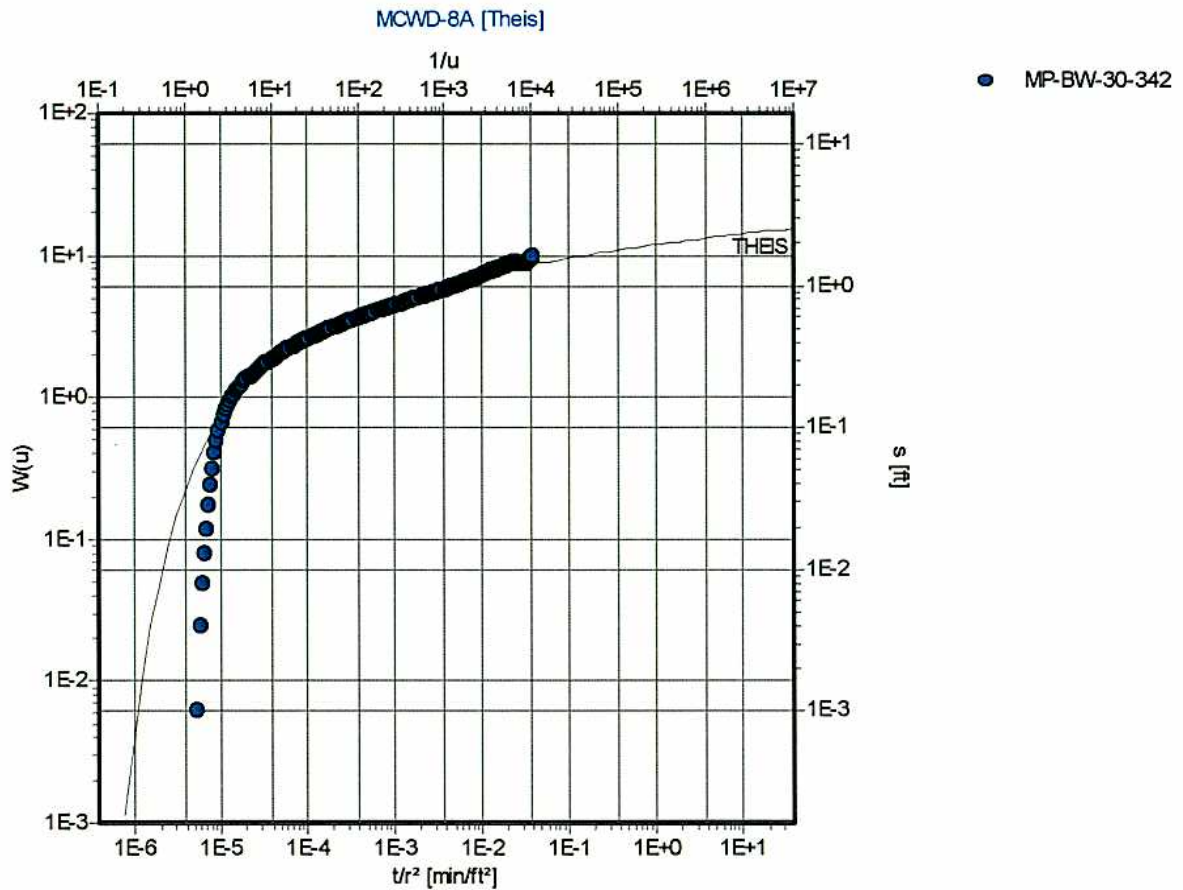
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Pumping Test: MCWD-8A

Analysis Method: Theis

<u>Analysis Results:</u>	Transmissivity:	3.00E+4 [ft ² /d]	Conductivity:	2.15E+2 [ft/d]
	Storativity:	3.19E-4		

<u>Test parameters:</u>	Pumping Well:	MCWD-8a	Aquifer Thickness:	140 [ft]
	Casing radius:	0.5833 [ft]	Confined Aquifer	
	Screen length:	80 [ft]		
	Boring radius:	1 [ft]		
	Discharge Rate:	320 [U.S. gal/min]		



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MCWD-8A Aquifer Test, Drawdown at MP-BW-30-342
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E6-1

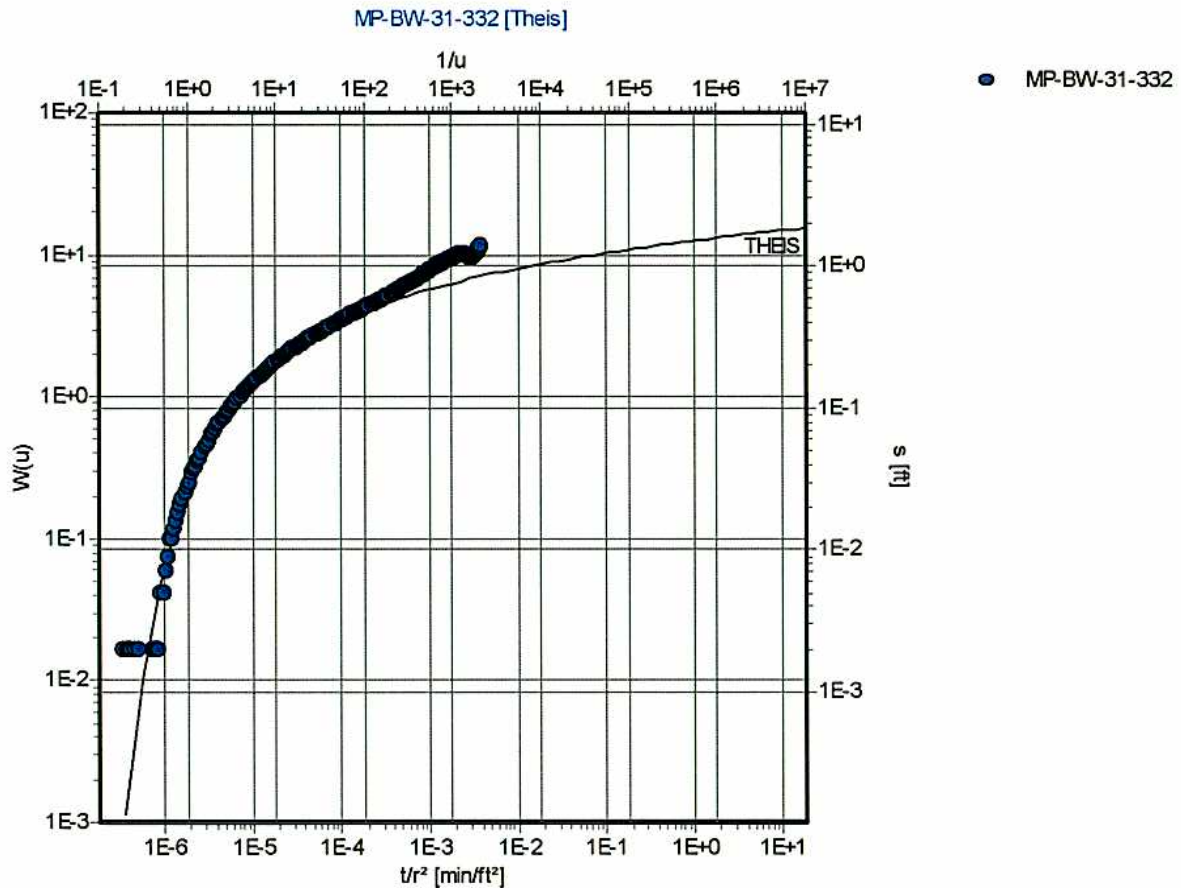
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Pumping Test: MCWD-8A

Analysis Method: Theis

<u>Analysis Results:</u>	Transmissivity:	4.09E+4 [ft ² /d]	Conductivity:	2.92E+2 [ft/d]
	Storativity:	2.07E-4		

<u>Test parameters:</u>	Pumping Well:	MCWD-8a	Aquifer Thickness:	140 [ft]
	Casing radius:	0.5833 [ft]	Confined Aquifer	
	Screen length:	80 [ft]		
	Boring radius:	1 [ft]		
	Discharge Rate:	320 [U.S. gal/min]		



MACTEC

MCWD-8A Aquifer Test, Drawdown at MP-BW-31-332
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E6-2

DRAWN
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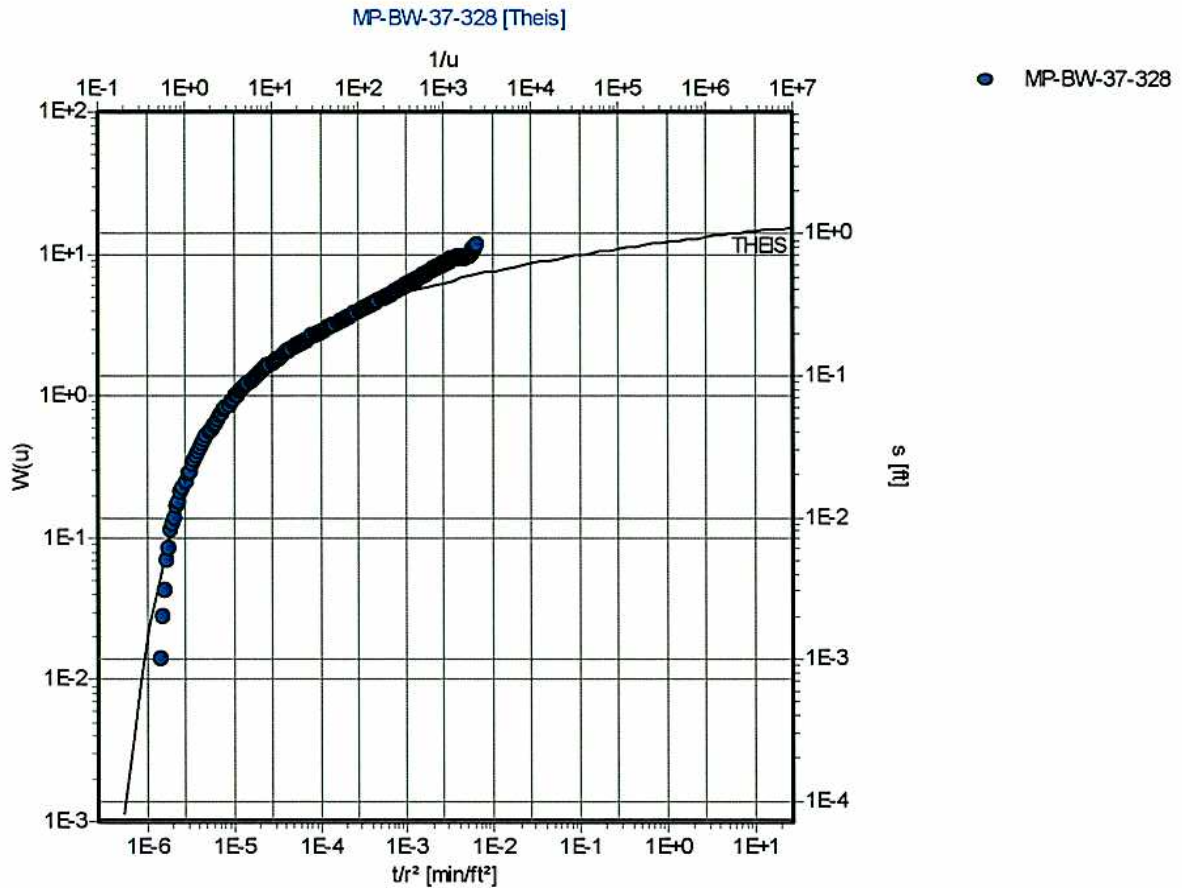
JOB NUMBER
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Pumping Test: MCWD-8A

Analysis Method: Theis

<u>Analysis Results:</u>	Transmissivity:	6.85E+4 [ft ² /d]	Conductivity:	4.89E+2 [ft/d]
	Storativity:	5.18E-4		

<u>Test parameters:</u>	Pumping Well:	MCWD-8a	Aquifer Thickness:	140 [ft]
	Casing radius:	0.5833 [ft]	Confined Aquifer	
	Screen length:	80 [ft]		
	Boring radius:	1 [ft]		
	Discharge Rate:	320 [U.S. gal/min]		



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MCWD-8A Aquifer Test, Drawdown at MP-BW-37-328
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E6-3

DRAWN
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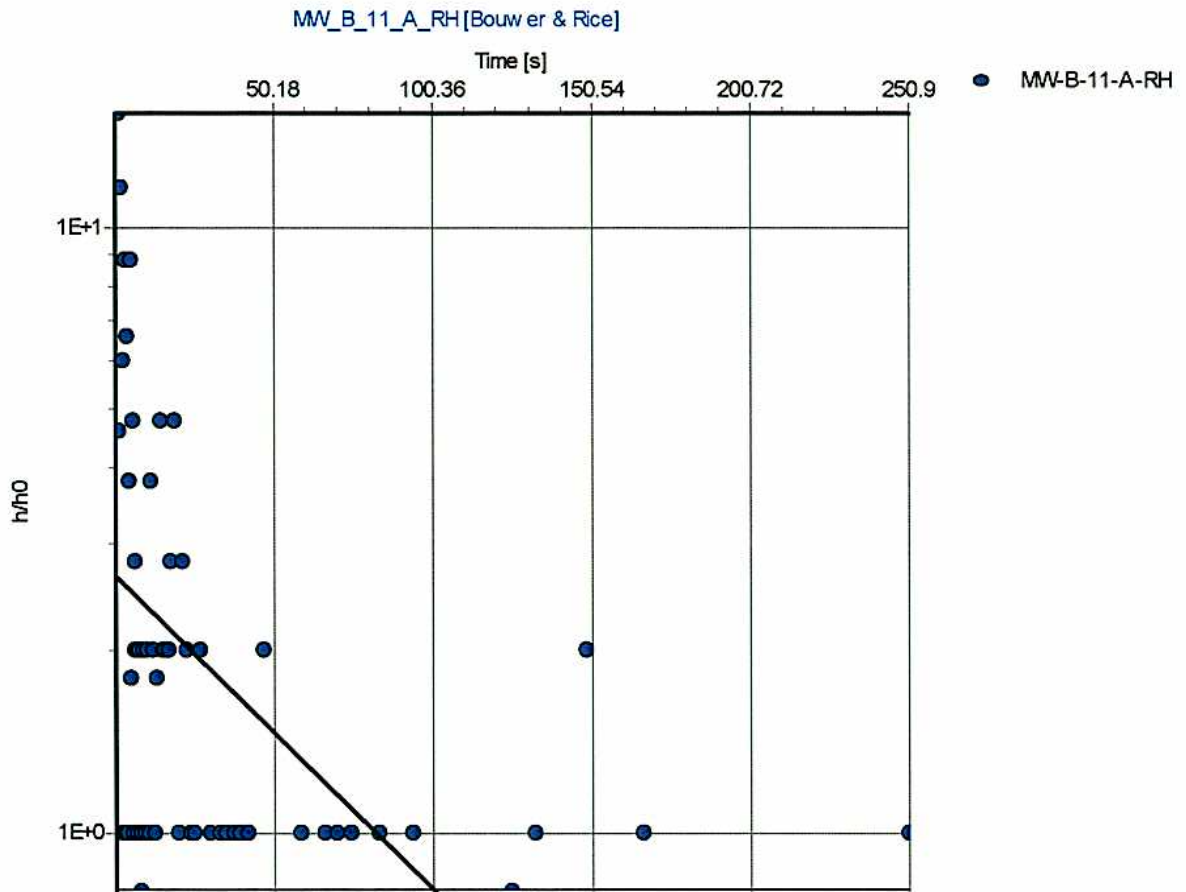
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Slug Test: MW_B_11_A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.61E+1 [ft/d]

Test parameters:

Test Well:	MW-B-11-A-RH	Aquifer Thickness:	30 [ft]
Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
Screen length:	20 [ft]		
Boring radius:	1 [ft]		
$r(\text{eff})$:	0.661 [ft]		



MACTEC

MW-B-11-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-1

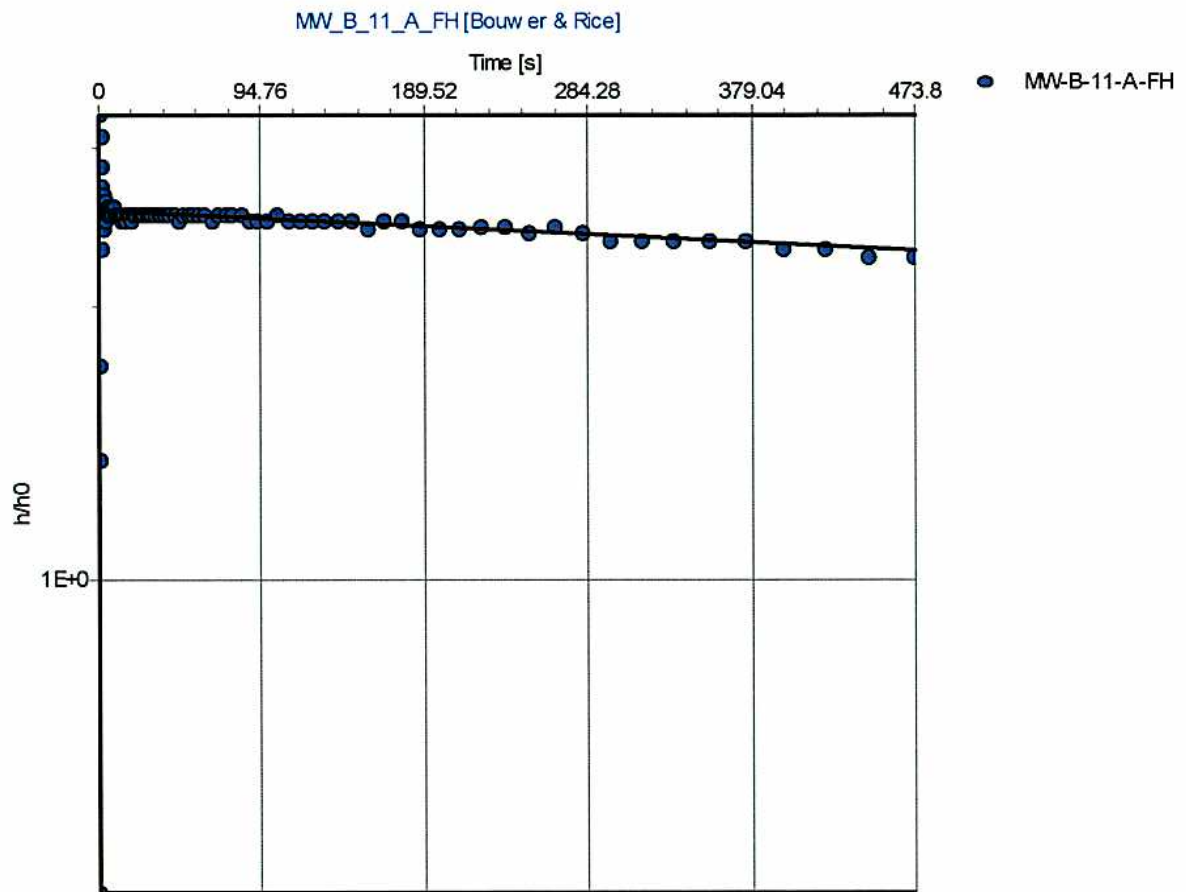
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Slug Test: MW_B_11_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.06E-1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-B-11-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	20 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.661 [ft]		



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MW-B-11-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-2

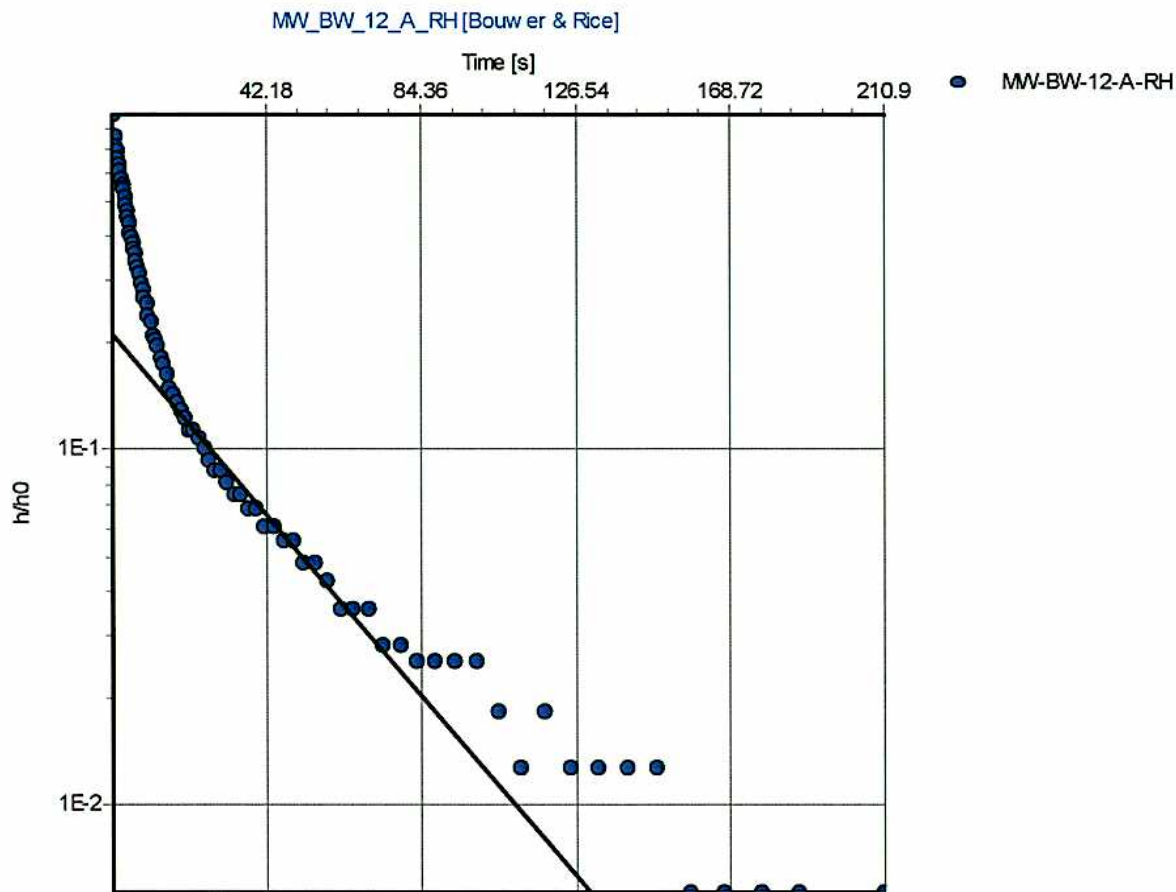
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Slug Test: MW_BW_12_A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.40E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-12-A-RH	Aquifer Thickness:	30 [ft]
Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
Screen length:	20 [ft]		
Boring radius:	1 [ft]		
$r(\text{eff})$:	0.661 [ft]		



MACTEC

MW-B-12-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-3

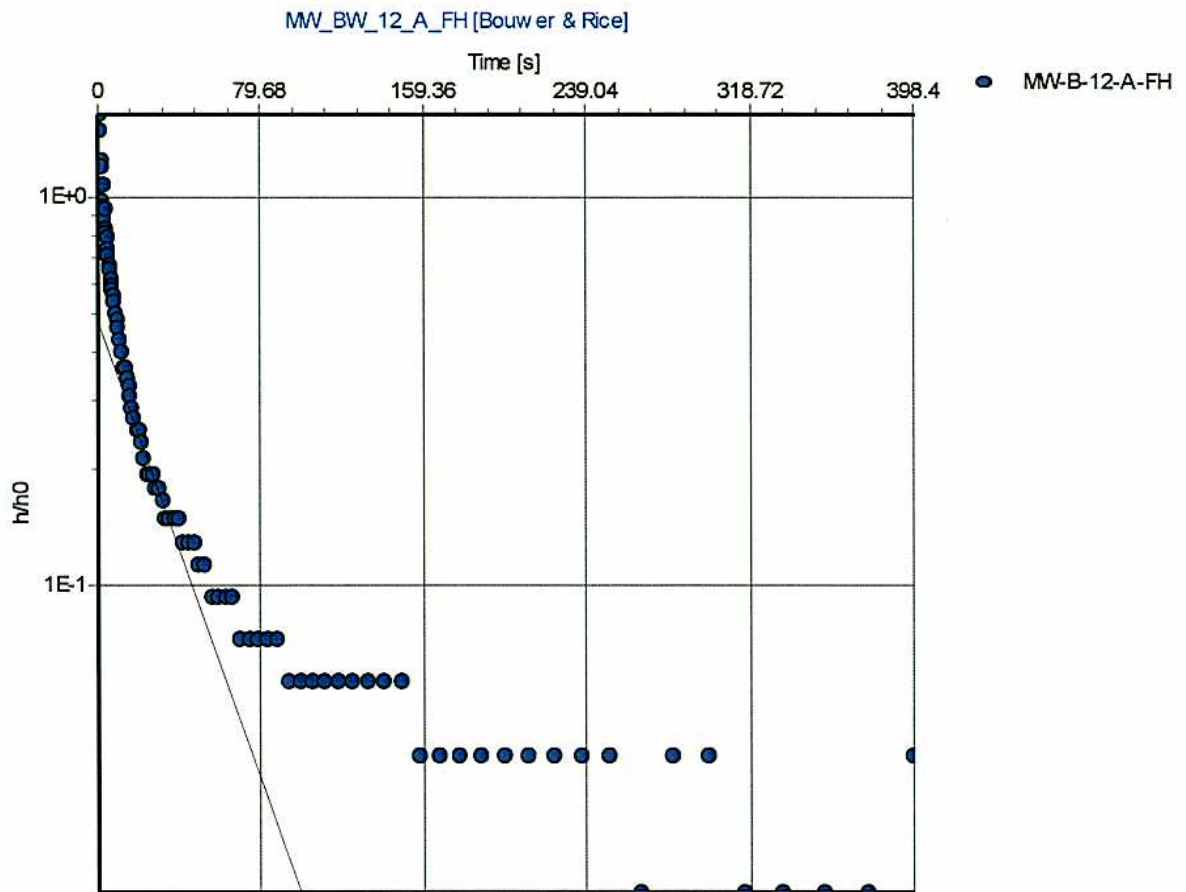
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Slug Test: MW_BW_12_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 4.16E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-B-12-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	20 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.661 [ft]		



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MW-B-12-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-4

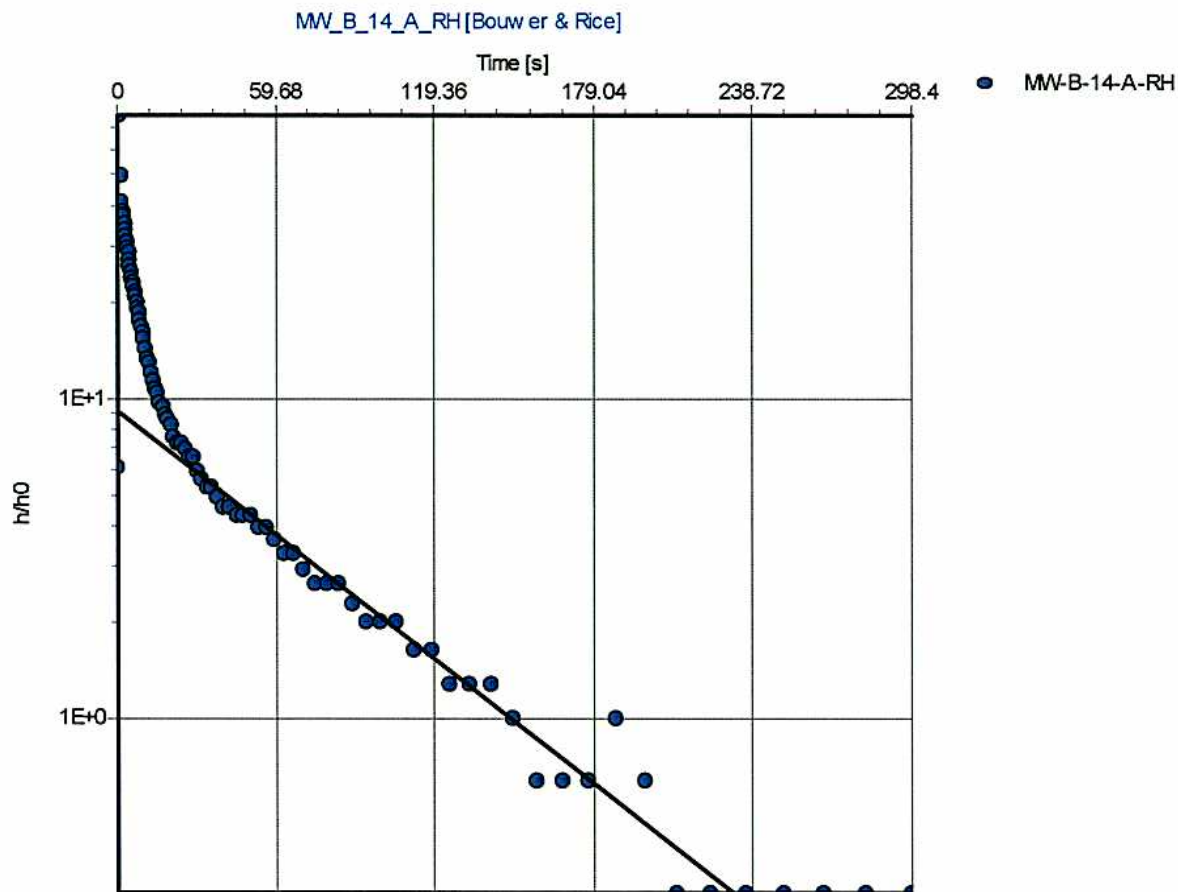
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Slug Test: MW_B_14_A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.82E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-B-14-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	20 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.661 [ft]		



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MW-B-14-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-5

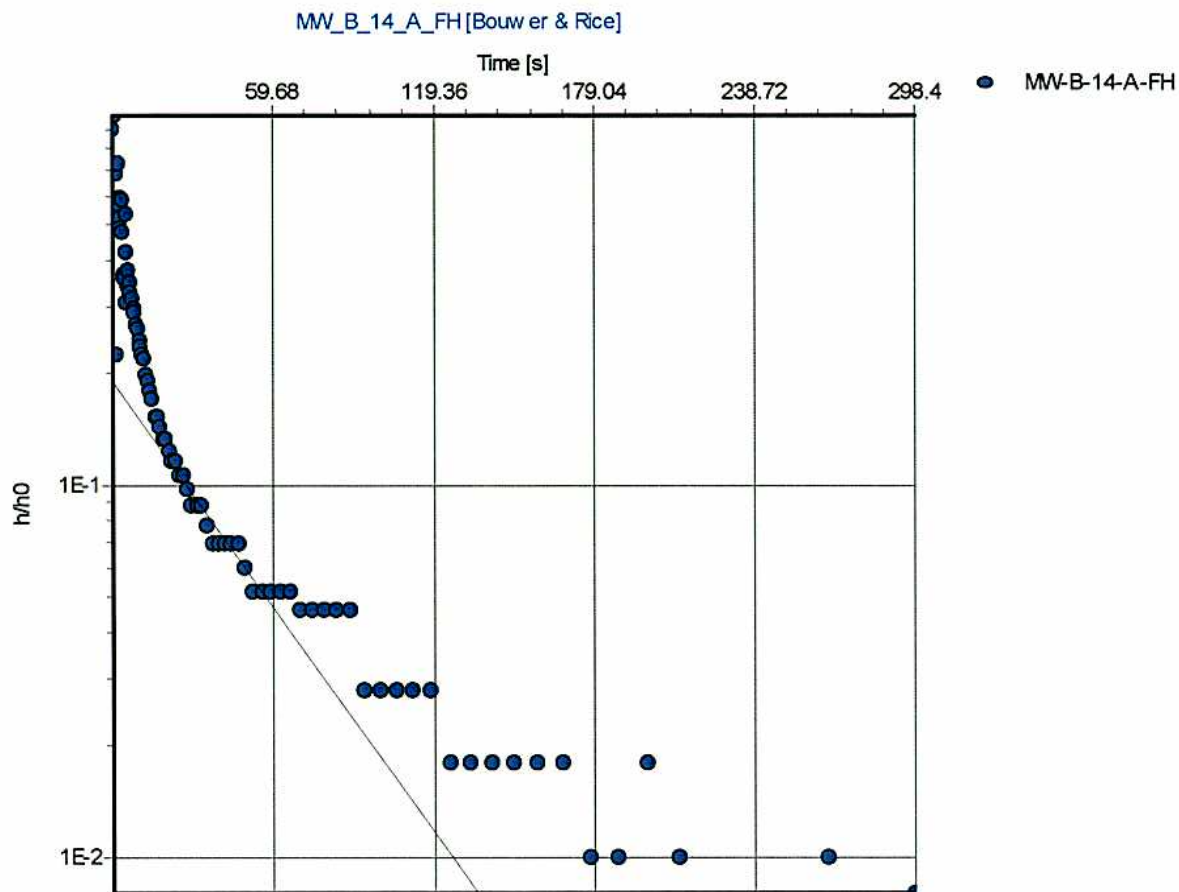
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Slug Test: MW_B_14_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.87E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-B-14-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	20 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.661 [ft]		



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MW-B-14-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-6

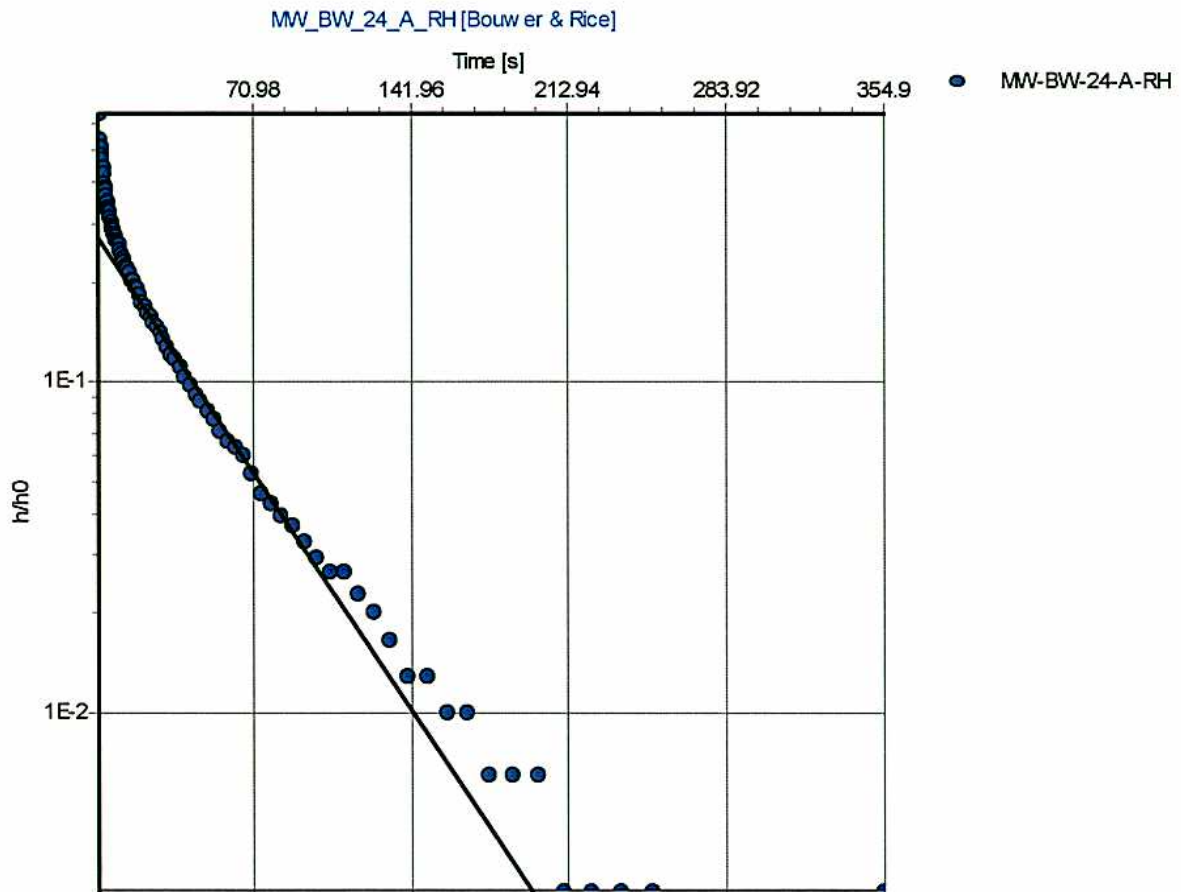
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Slug Test: MW_BW_24_A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.51E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-24-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-24-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-7

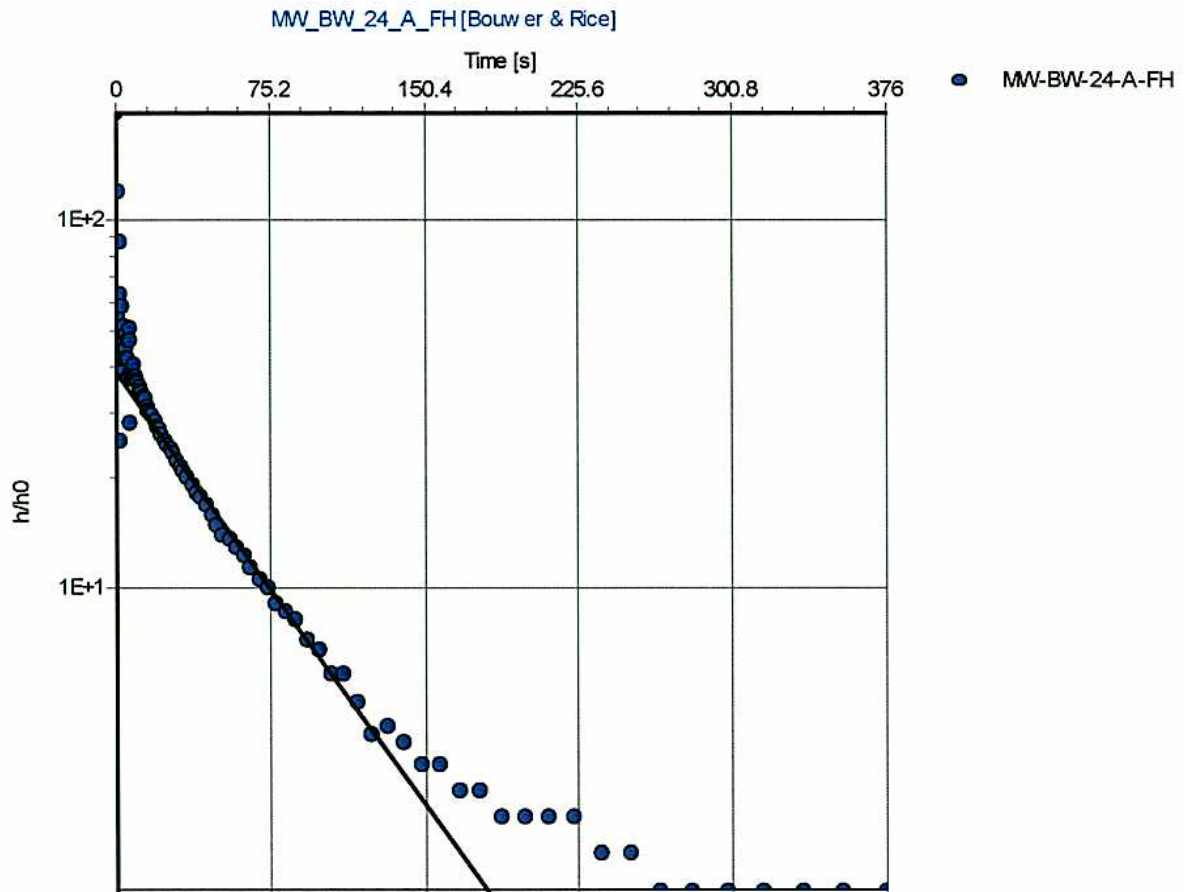
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Slug Test: MW_BW_24_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.17E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-24-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-24-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-8

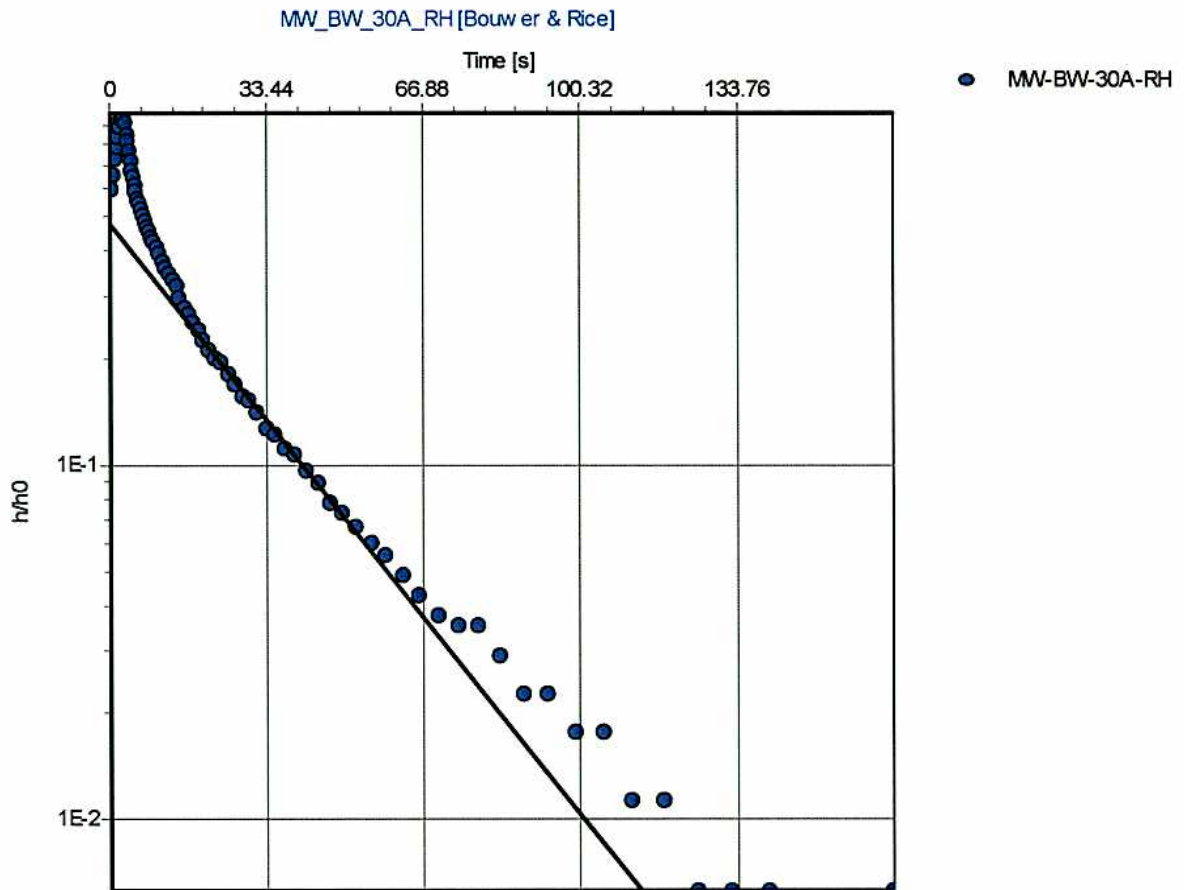
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Slug Test: MW_BW_30A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.48E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-30A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-30-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-9

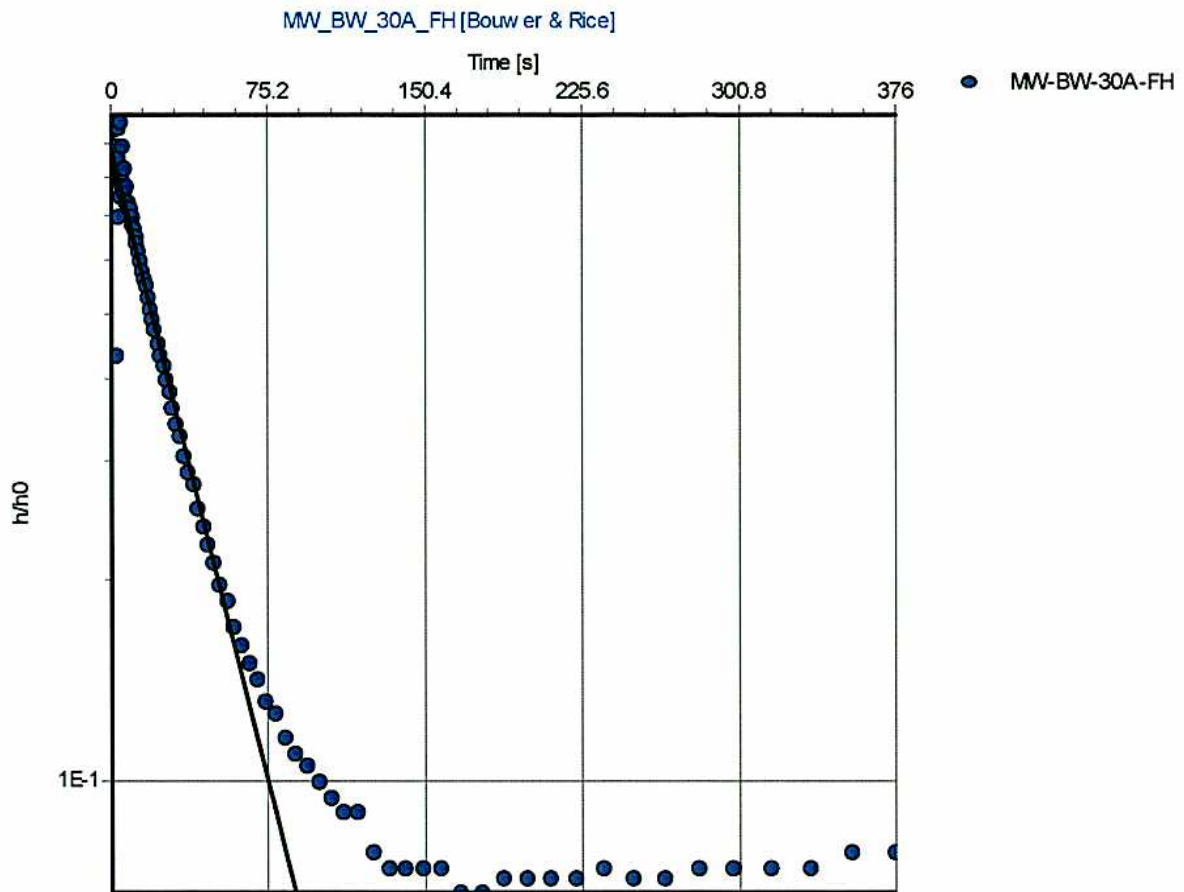
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Slug Test: MW_BW_30A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.88E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-30A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
$r(\text{eff})$:	0.617 [ft]		



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MW-BW-30-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-10

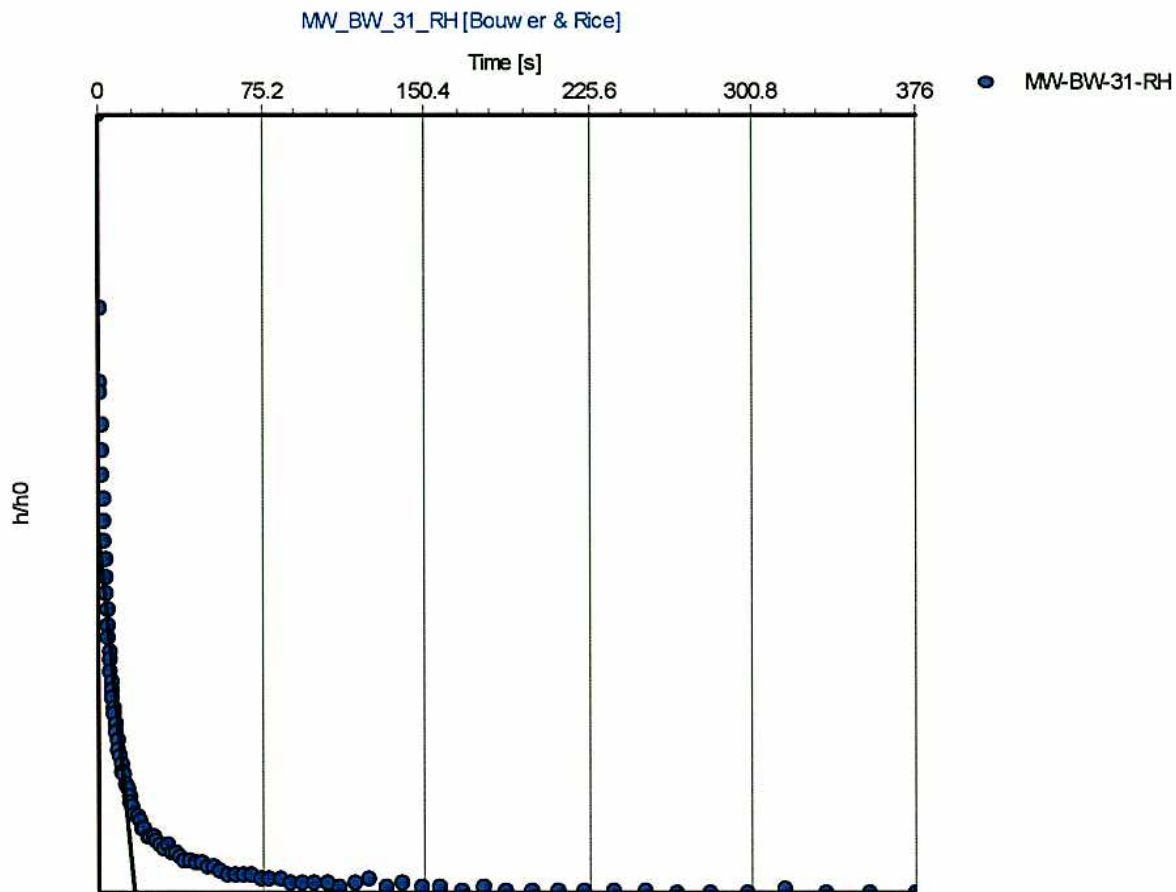
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Slug Test: MW_BW_31_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.51E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-31-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(\text{eff})$:	0.661 [ft]		



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MW-BW-31 Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-11

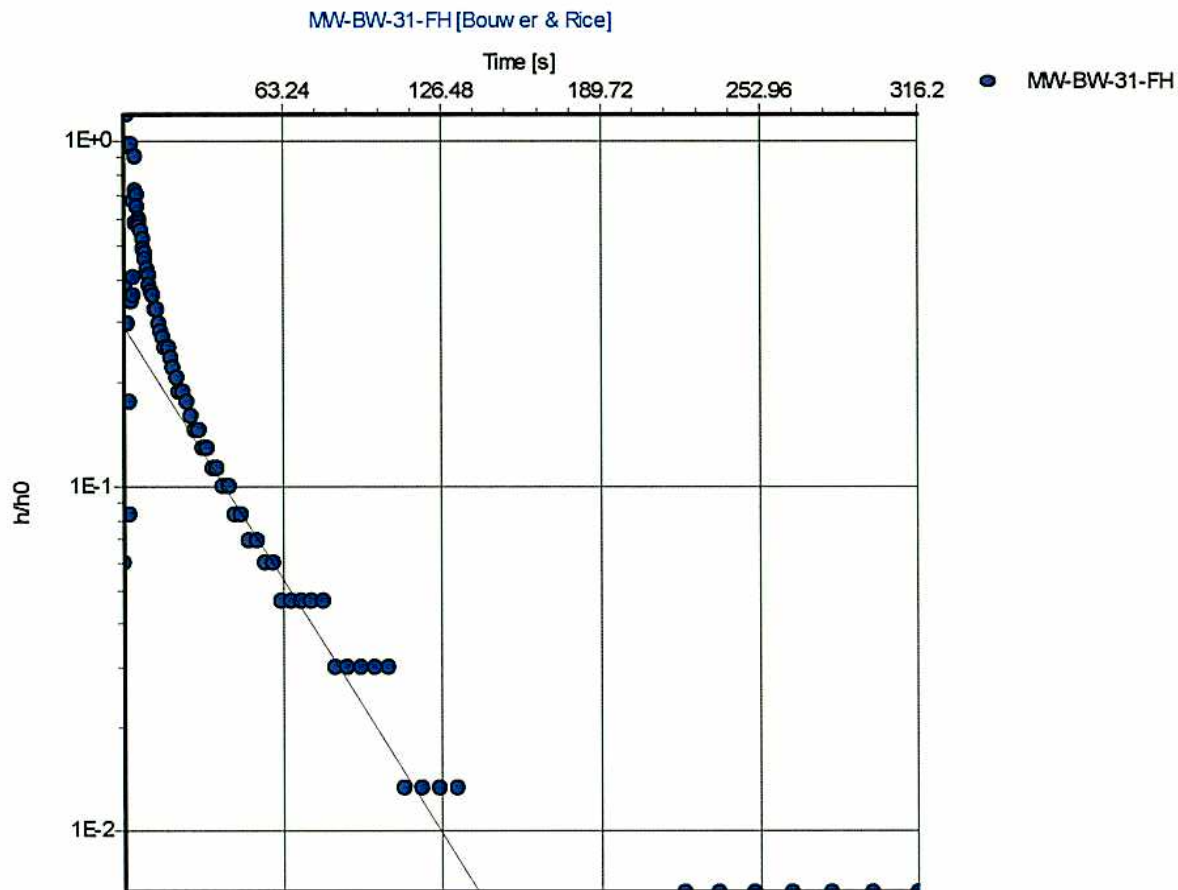
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Slug Test: MW-BW-31-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.51E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-31-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.5 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.661 [ft]		



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MW-BW-31-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-12

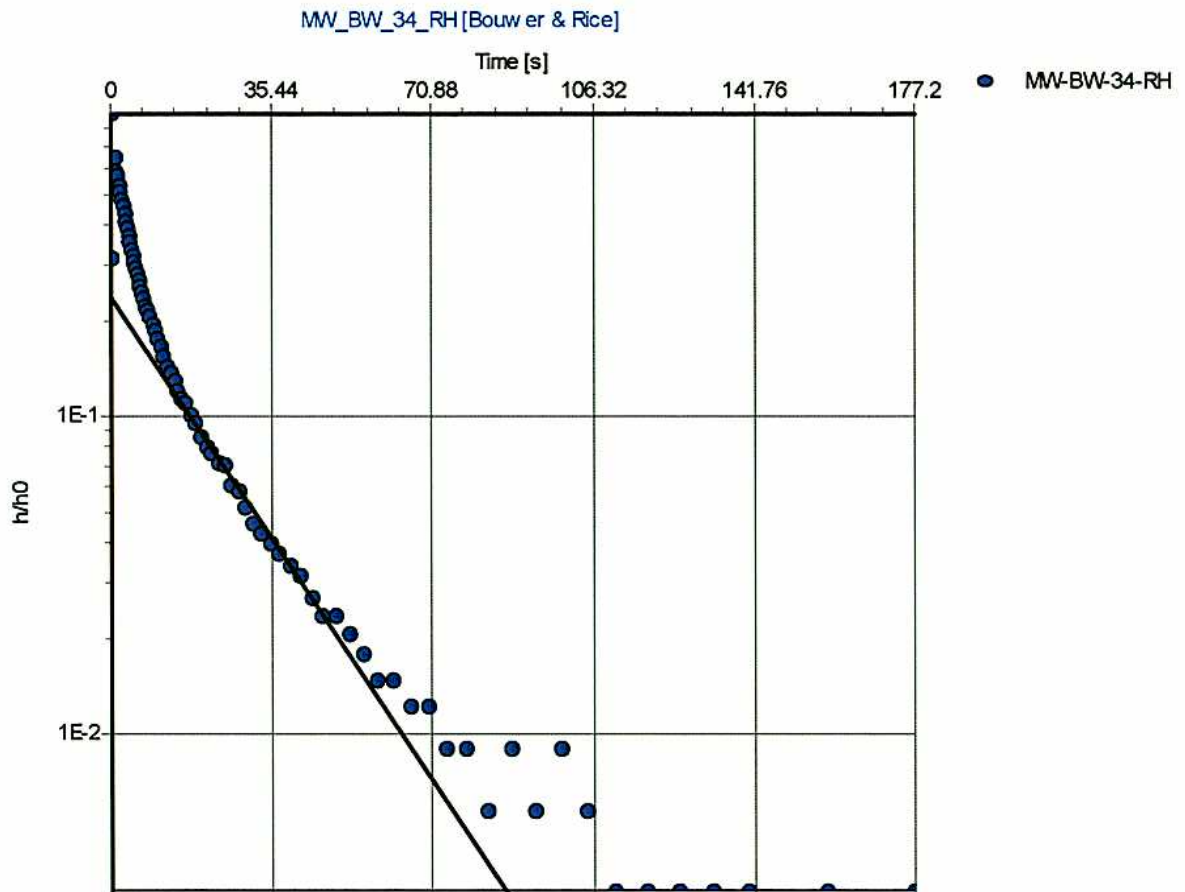
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Slug Test: MW_BW_34_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.21E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-34-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-34 Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-13

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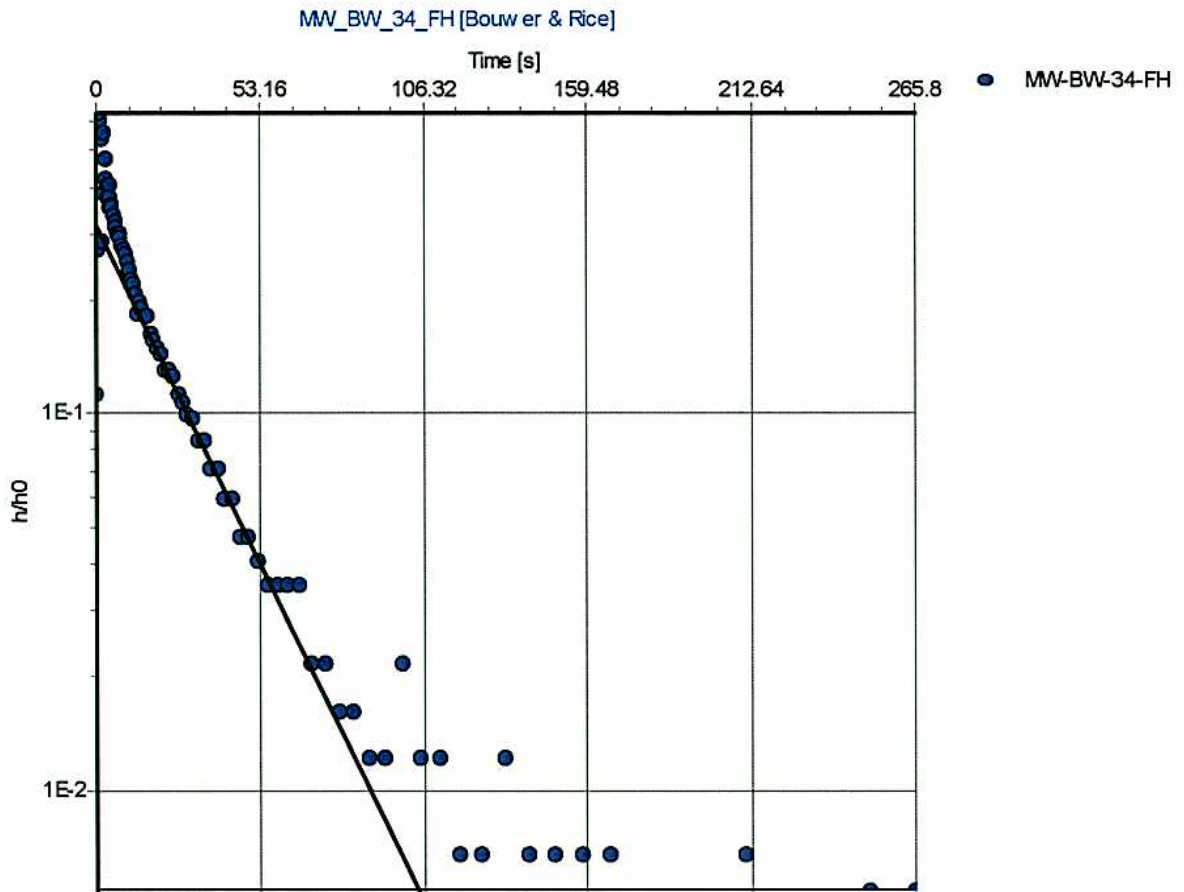
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Slug Test: MW_BW_34_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.53E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-34-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-34 Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-14

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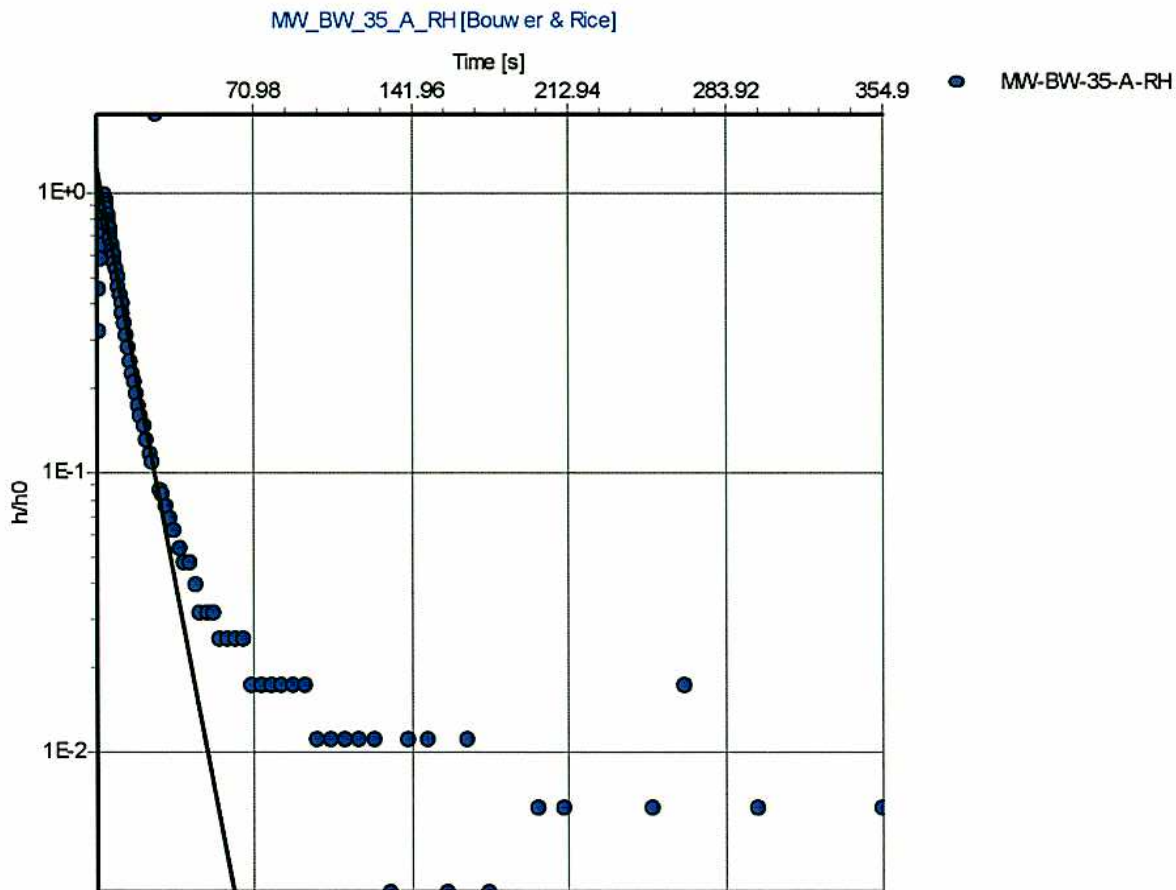
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Slug Test: MW_BW_35_A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 6.25E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-35-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-35-A Rising Head Slug Test
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Former Fort Ord, California

FIGURE

E7-15

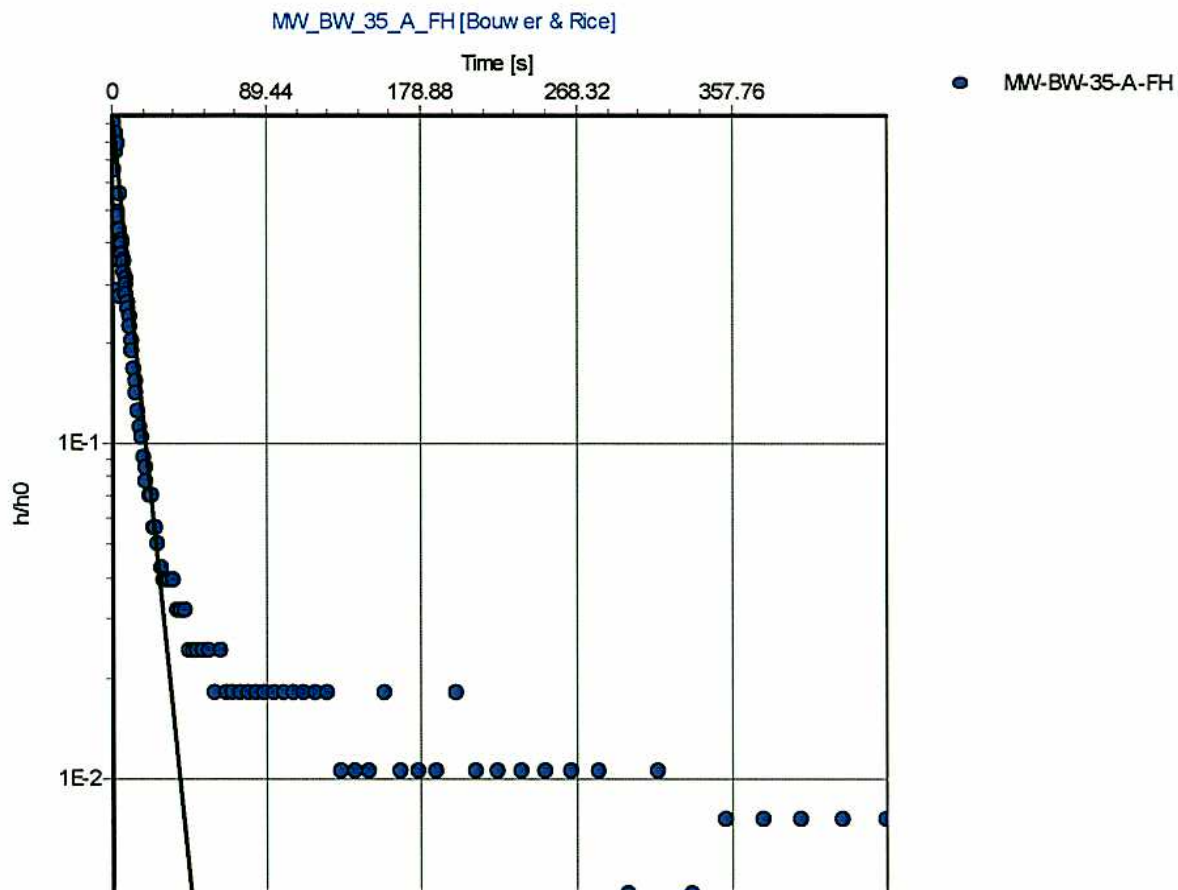
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Slug Test: MW_BW_35_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 7.66E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-35-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
r(eff):	0.617 [ft]		



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MW-BW-35-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-16

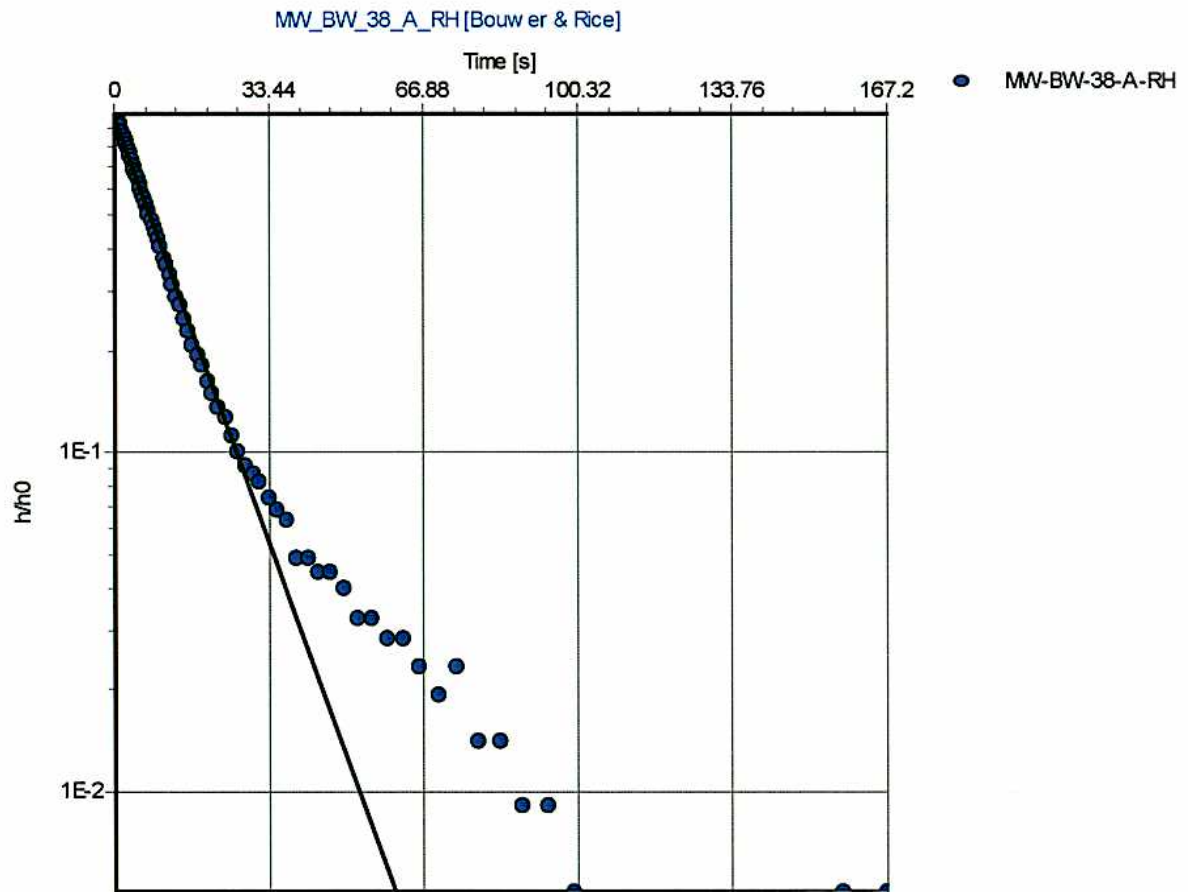
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Slug Test: MW_BW_38_A_RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 5.49E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-38-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1.06 [ft]		
	r(eff):	0.641 [ft]		



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MW-BW-38-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-17

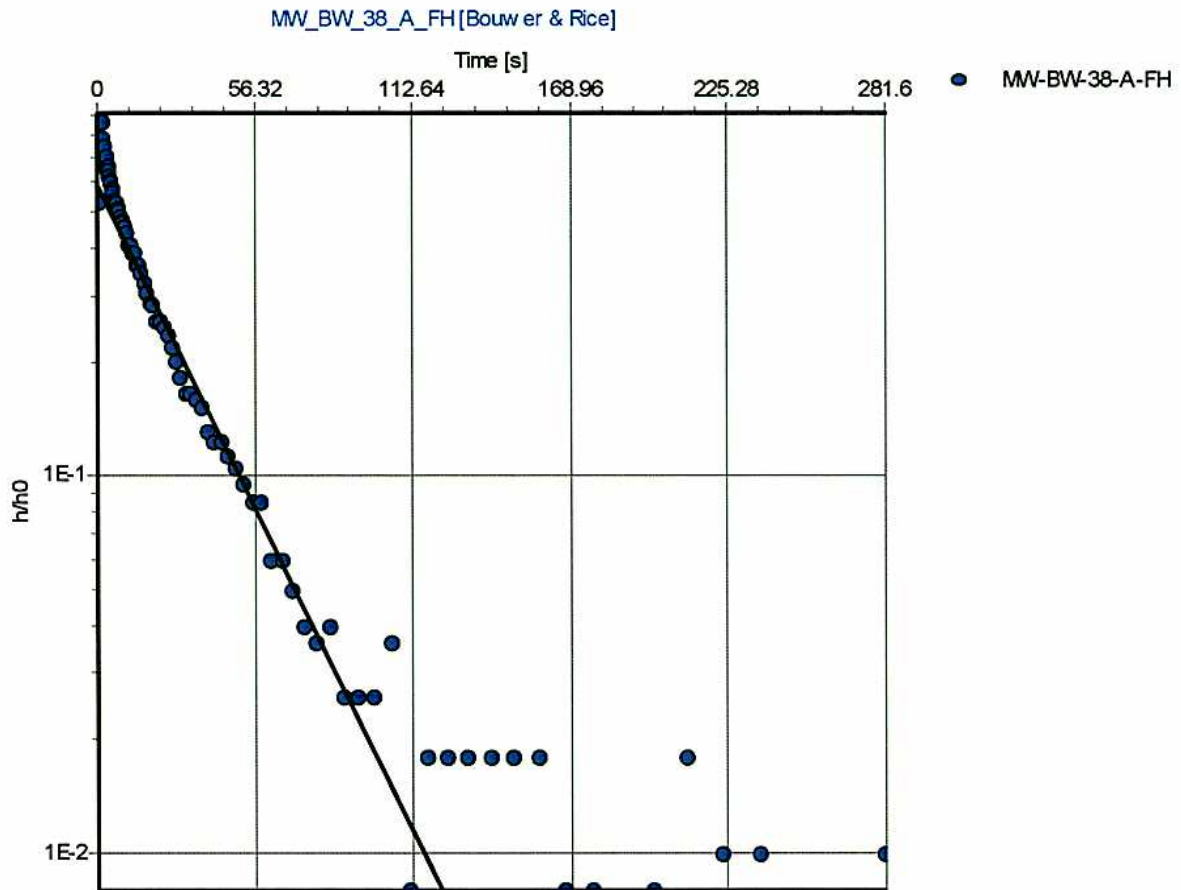
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Slug Test: MW_BW_38_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.24E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-38-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1.06 [ft]		
	r(eff):	0.641 [ft]		



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MW-BW-38-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-18

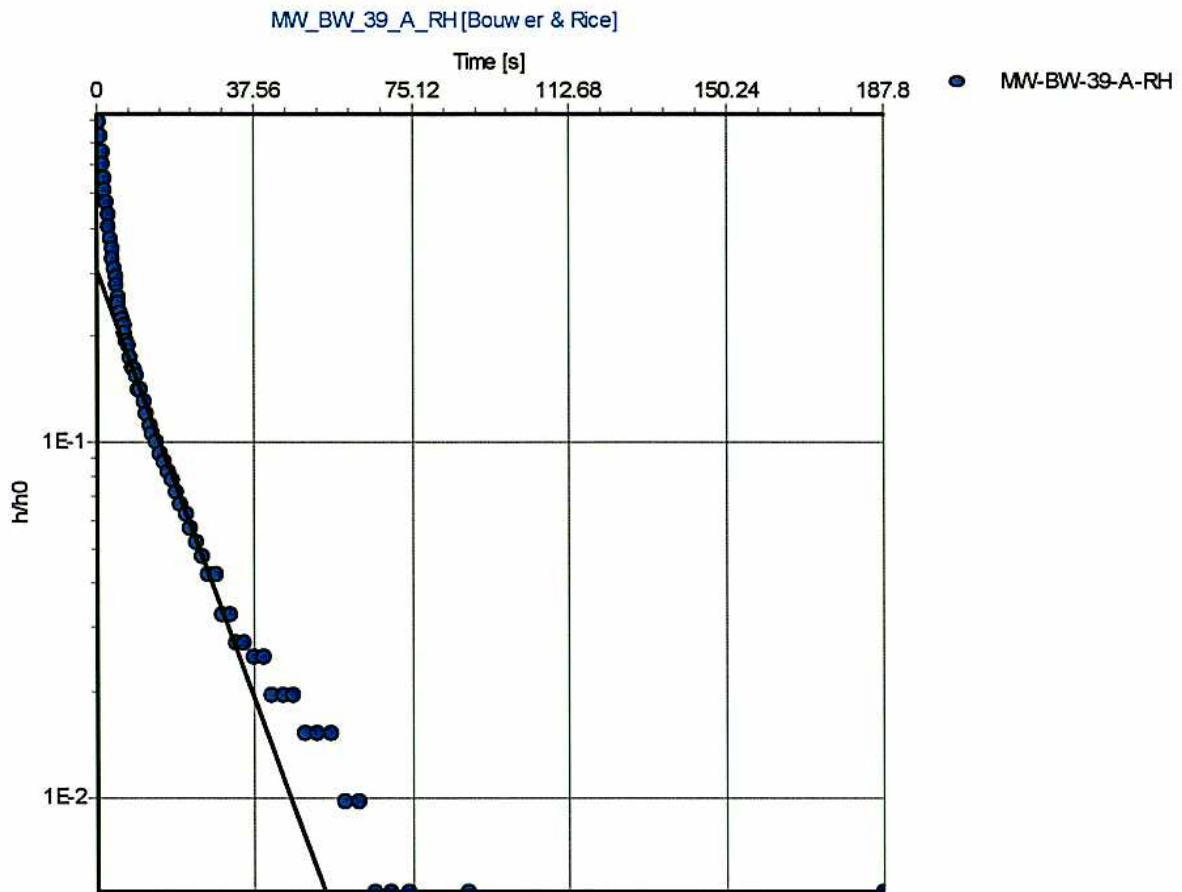
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Slug Test: MW_BW_39_A_RH

Analysis Method: Bouwer & Rice

Analysis Results: Conductivity: 4.82E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-39-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



MACTEC

MW-BW-39-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-19

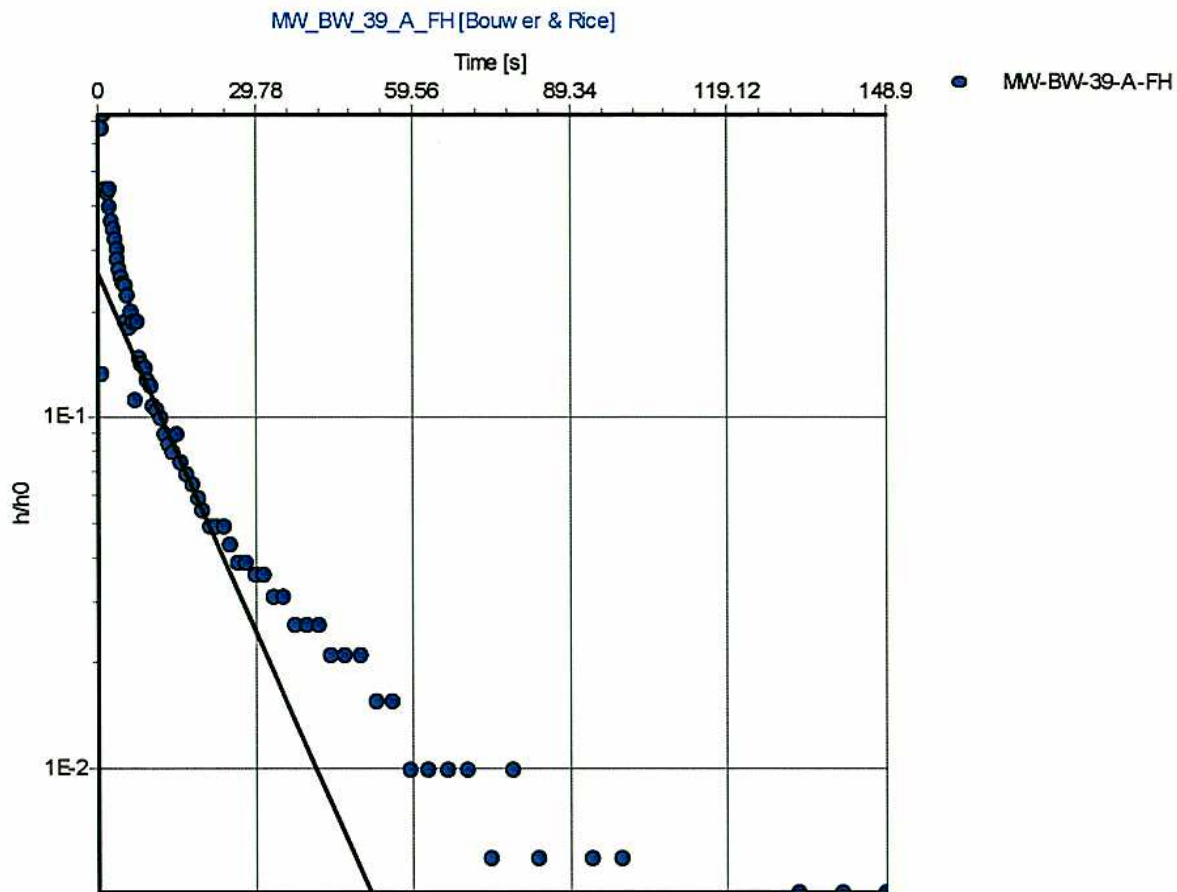
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Slug Test: MW_BW_39_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 5.14E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-39-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
 r(eff):	 0.617 [ft]		



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MW-BW-39-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-20

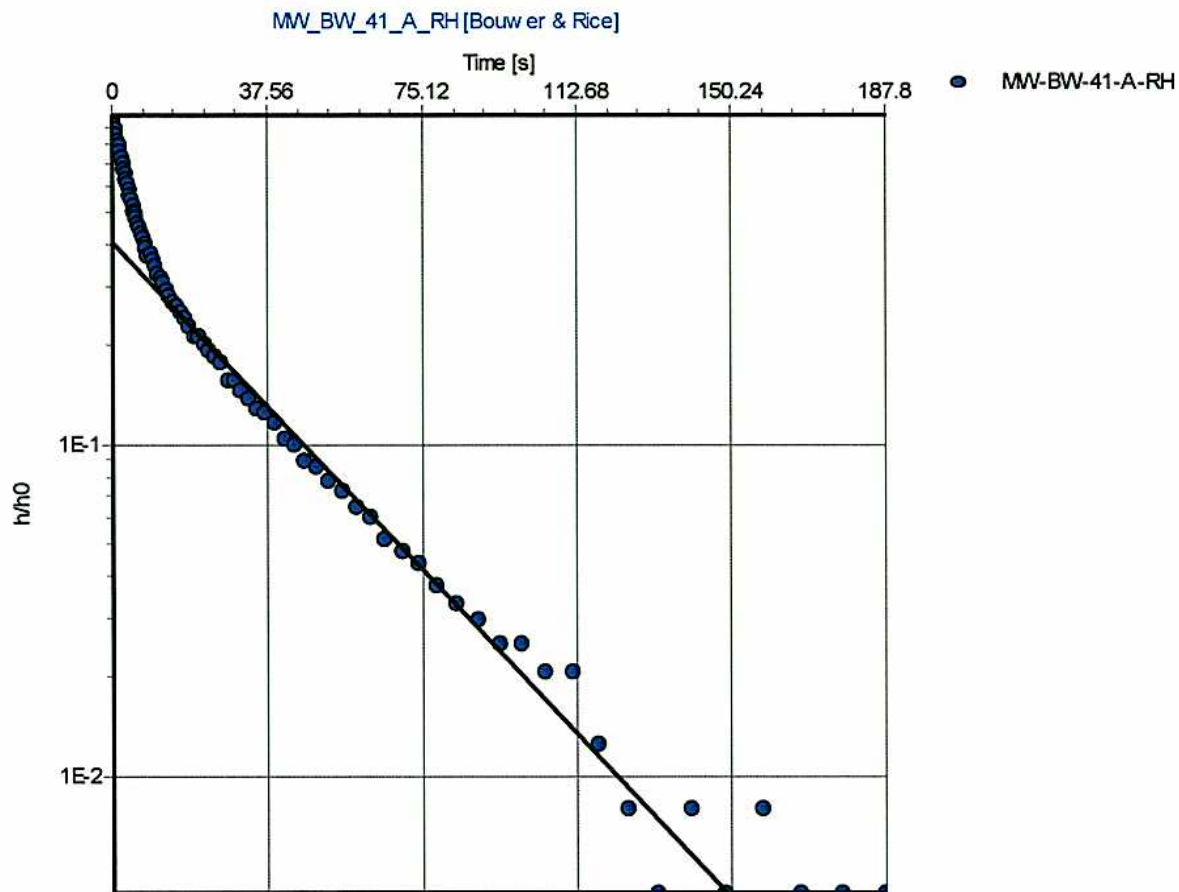
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Slug Test: MW_BW_41_A_RH

Analysis Method: Bouwer & Rice

Analysis Results: Conductivity: 1.93E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-41-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1.063 [ft]		
	$r(eff)$:	0.643 [ft]		



MACTEC

MW-BW-41-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-21

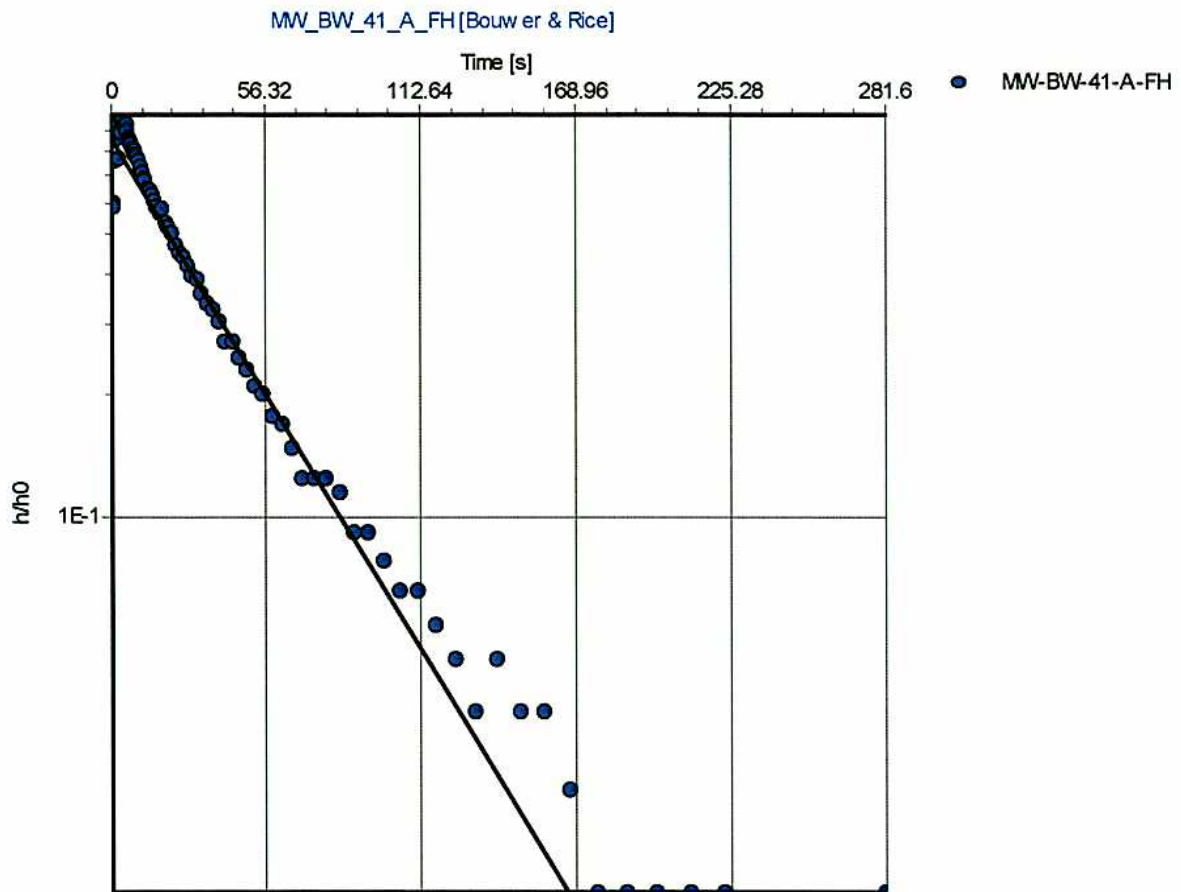
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Slug Test: MW_BW_41_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.65E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-41-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1.063 [ft]		
$r(\text{eff})$:	0.643 [ft]		



MACTEC

MW-BW-41-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-22

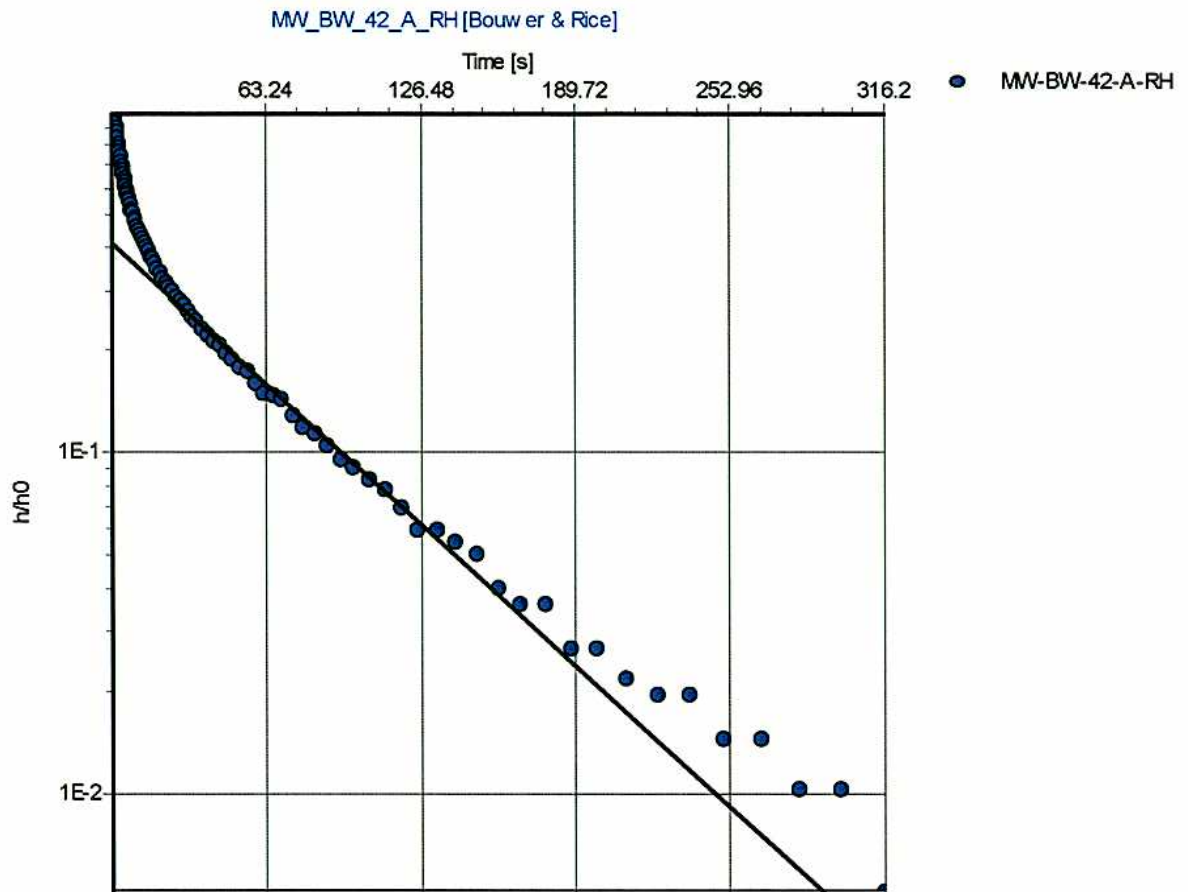
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Slug Test: MW_BW_42_A_RH

Analysis Method: Bouwer & Rice

Analysis Results: Conductivity: 9.83E+0 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-42-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(\text{eff})$:	0.617 [ft]		



MACTEC

MW-BW-42-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-23

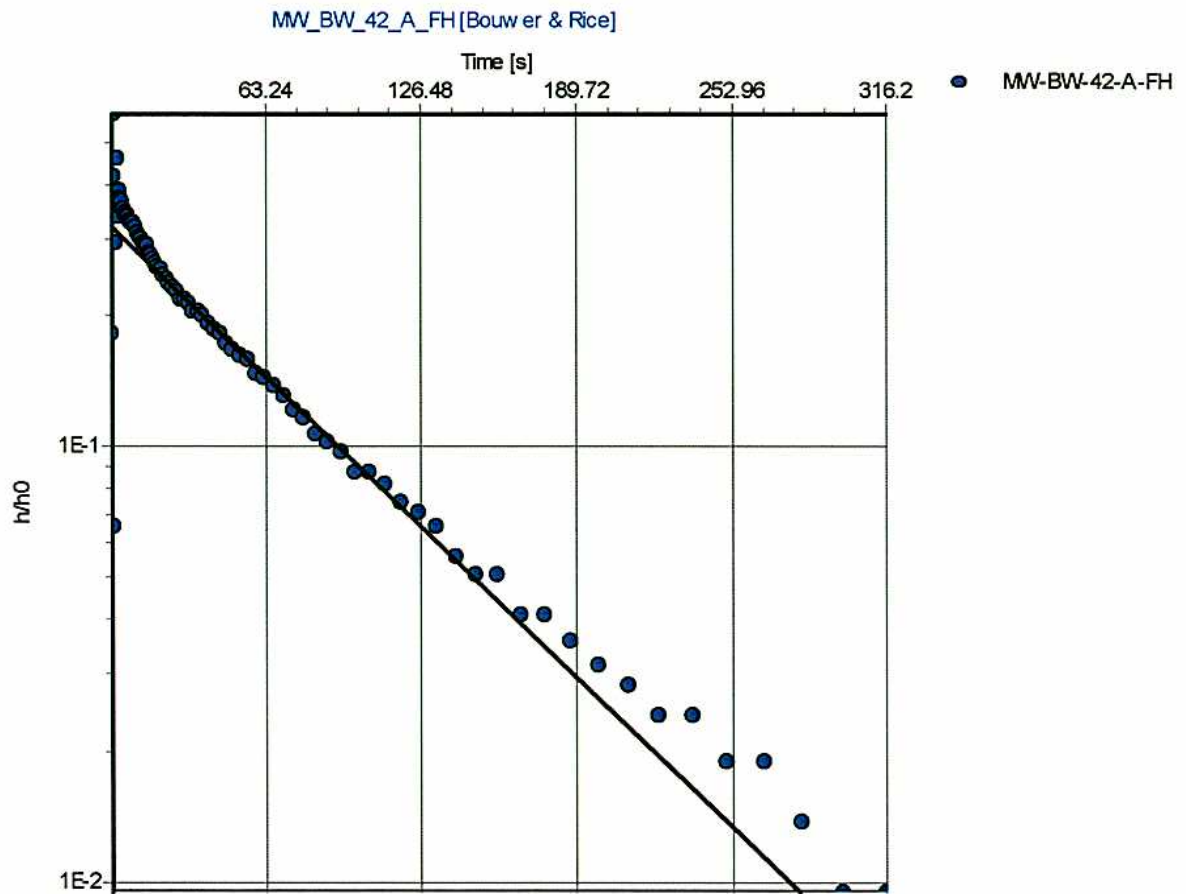
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Slug Test: MW_BW_42_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 8.15E+0 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-42-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



MACTEC

MW-BW-42-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-24

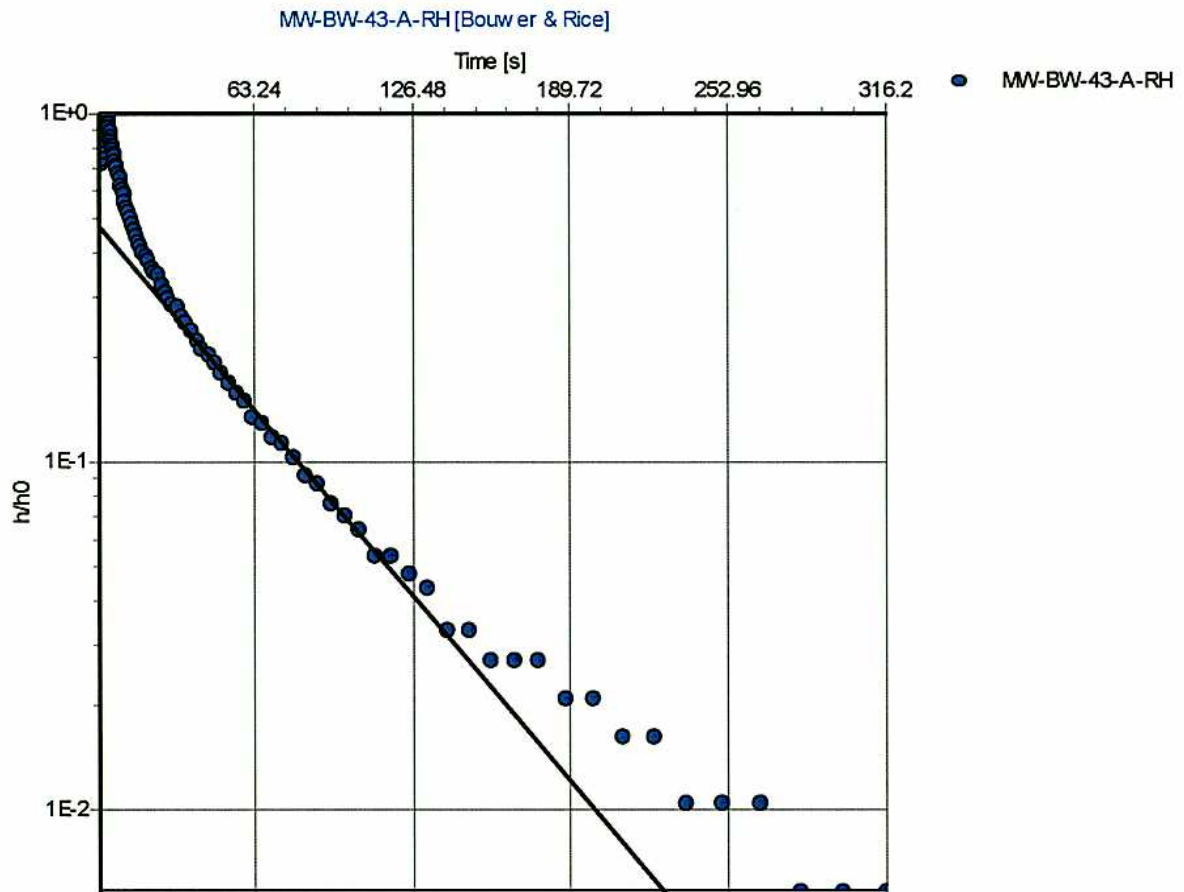
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Slug Test: MW-BW-43-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.64E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-43-A-RH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	20 [ft]		
Boring radius:	1 [ft]		
 r(eff):	 0.617 [ft]		



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MW-BW-43-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-25

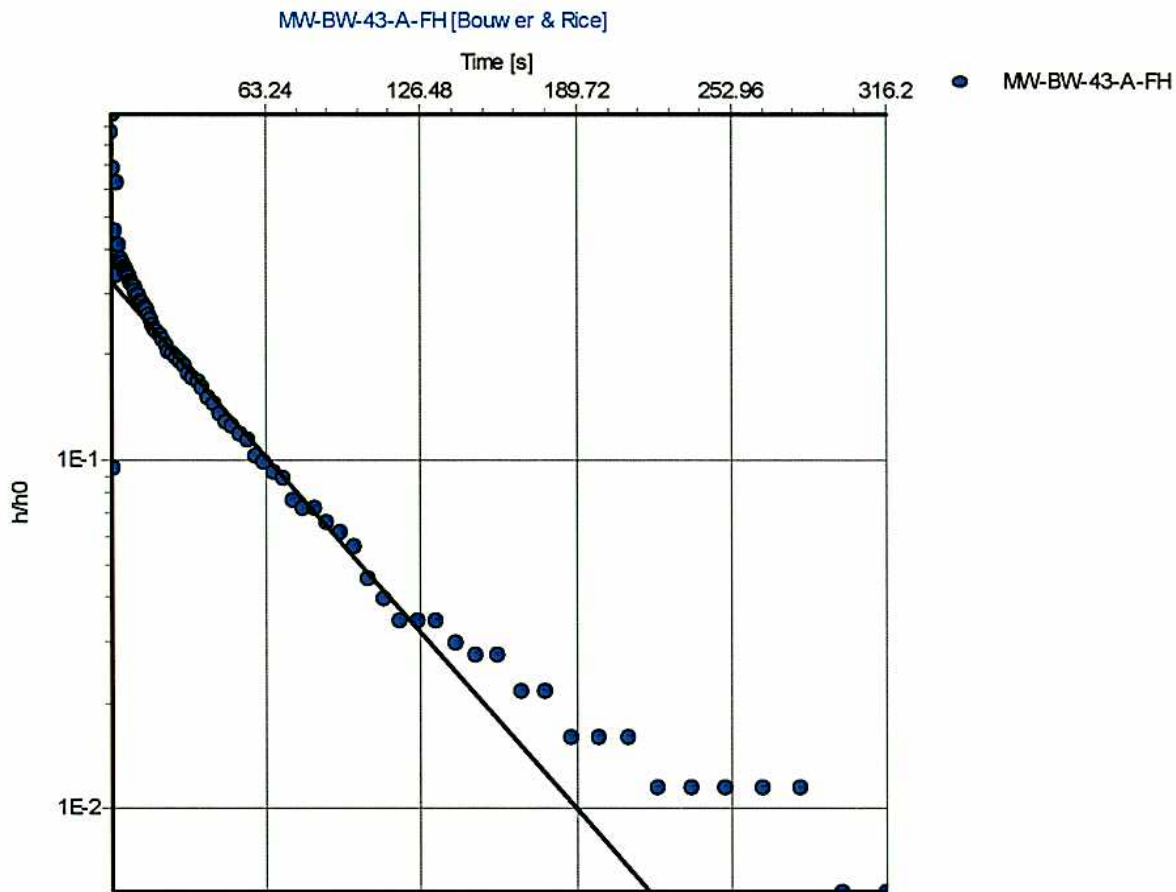
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Slug Test: MW-BW-43-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.56E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-43-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	20 [ft]		
Boring radius:	1 [ft]		
r(eff):	0.617 [ft]		



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MW-BW-43-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-26

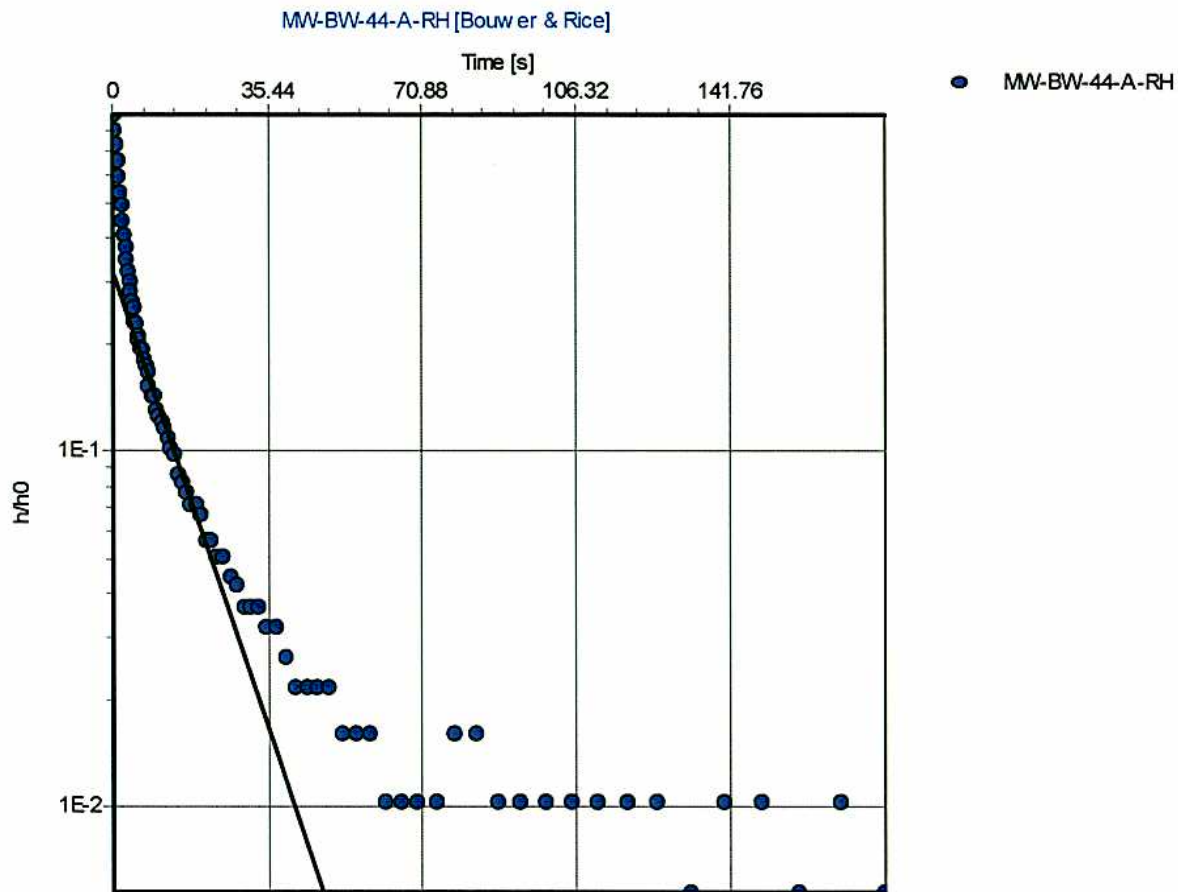
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Slug Test: MW-BW-44-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 5.47E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-44-A-RH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
 r(eff):	 0.617 [ft]		



MACTEC

MW-BW-44-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-27

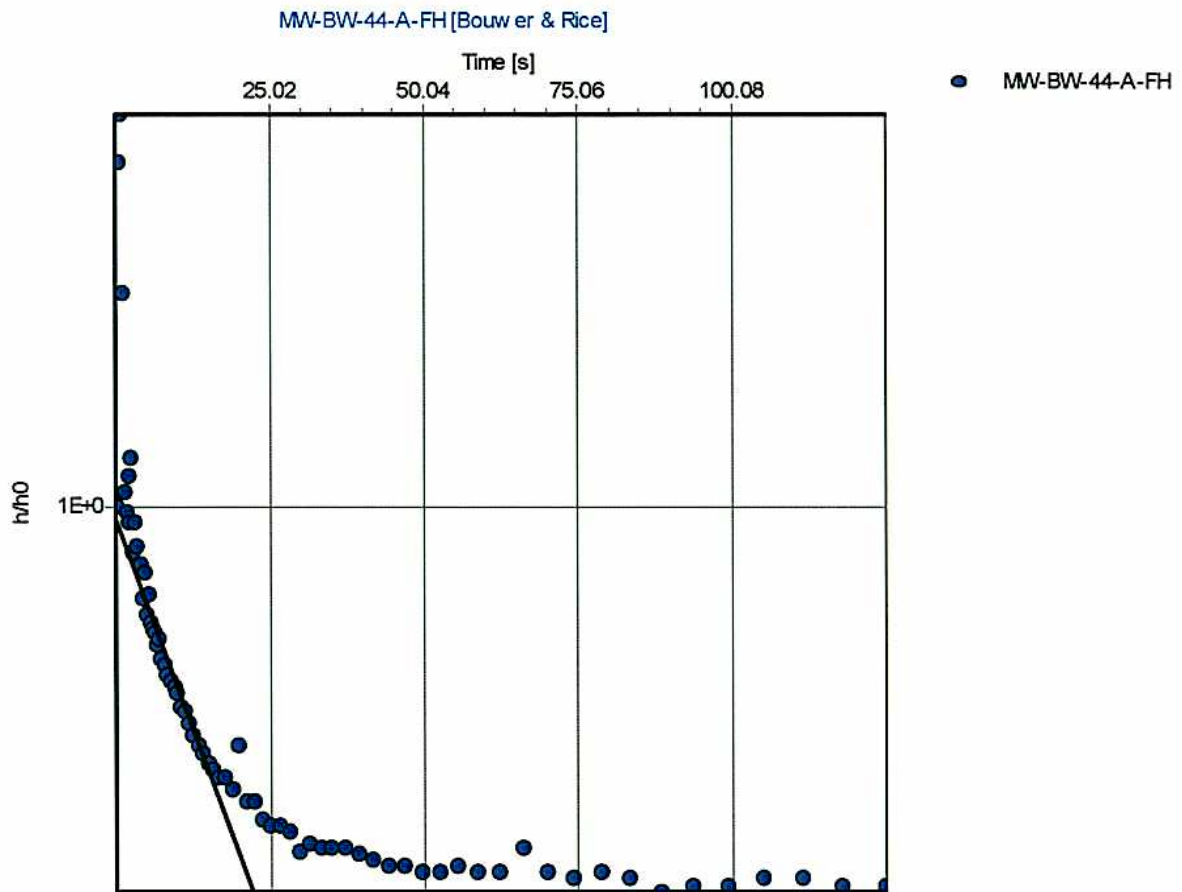
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55596.001701

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Slug Test: MW-BW-44-A-FH

Analysis Method: Bouwer & Rice

Analysis Results: Conductivity: 8.08E+0 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-44-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-44-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-28

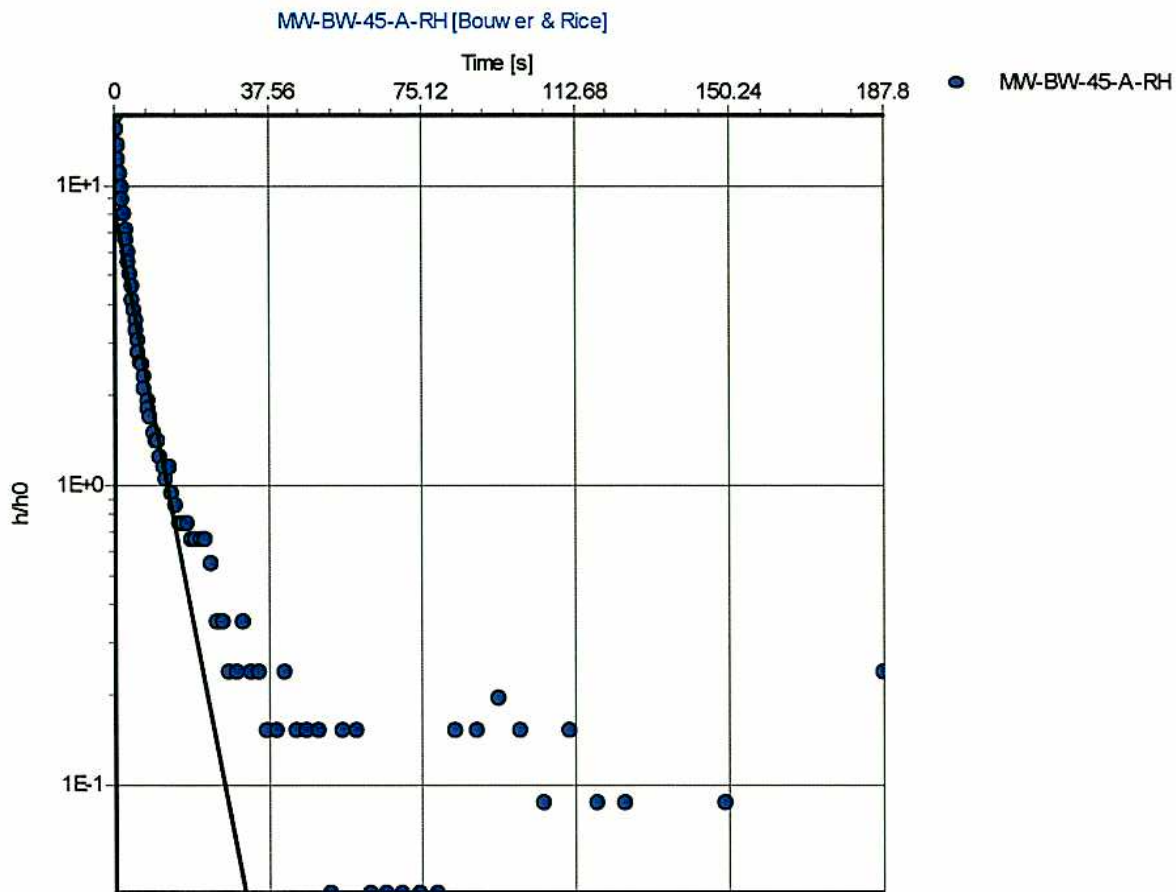
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Slug Test: MW-BW-45-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.07E+2 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-45-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-45-A Rising Head Slug Test
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Former Fort Ord, California

FIGURE

E7-29

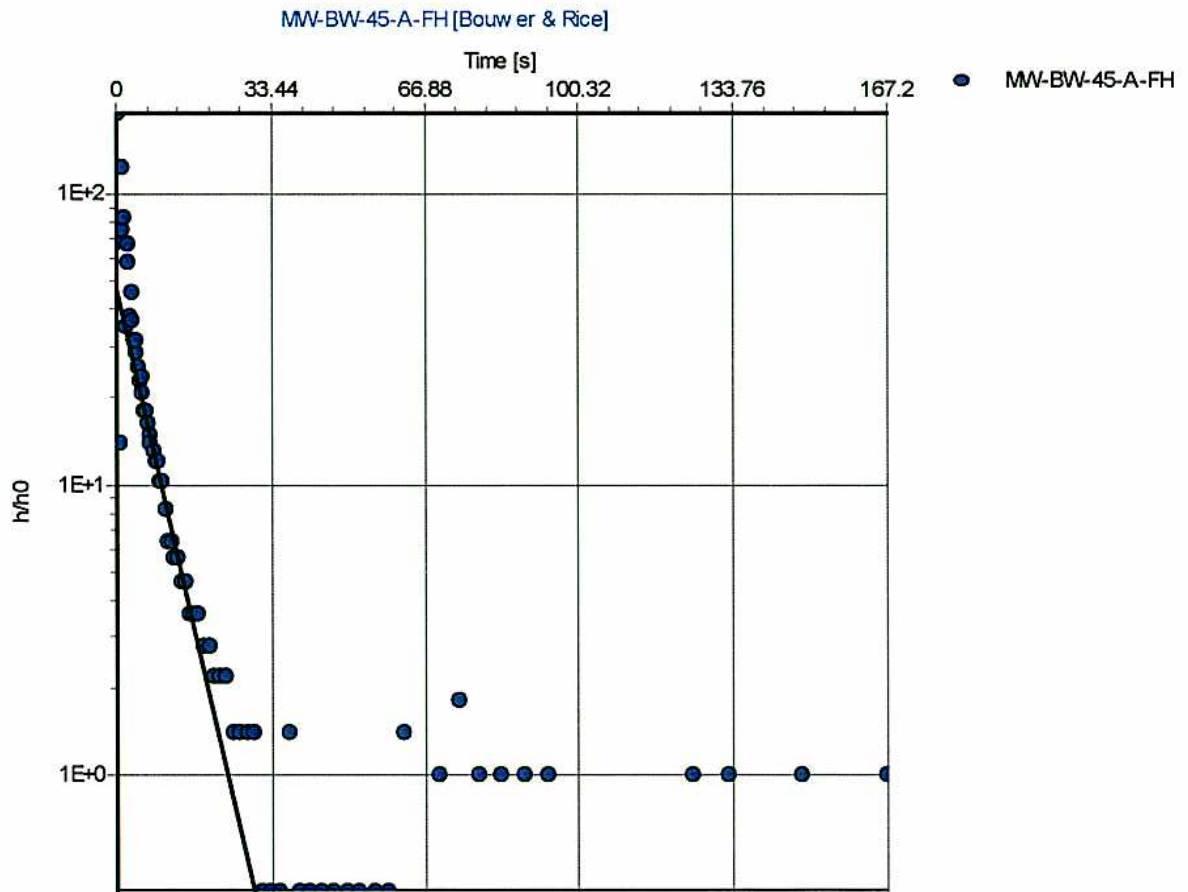
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55596.001701

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Slug Test: MW-BW-45-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.04E+2 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-45-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-45-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-30

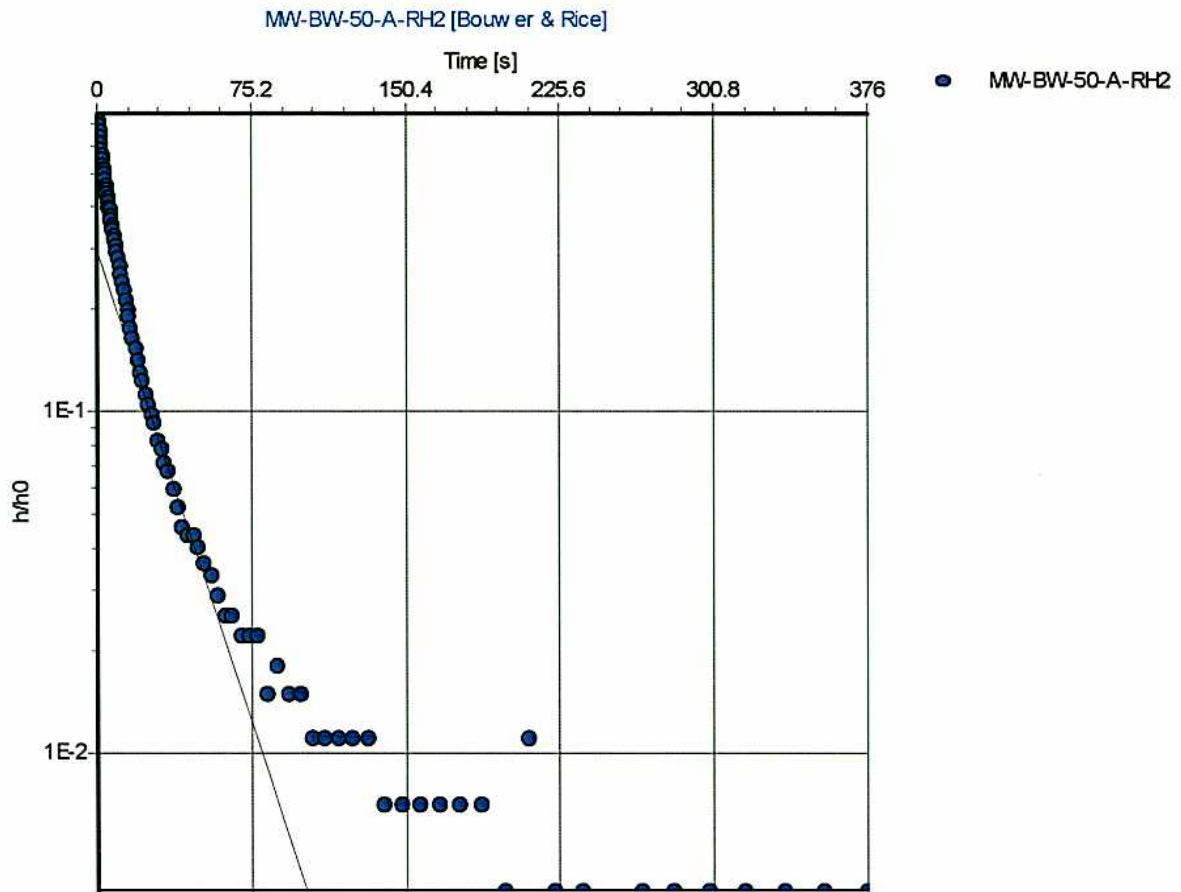
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Slug Test: MW-BW-50-A-RH2

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.76E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-50-A-RH2	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-50-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-31

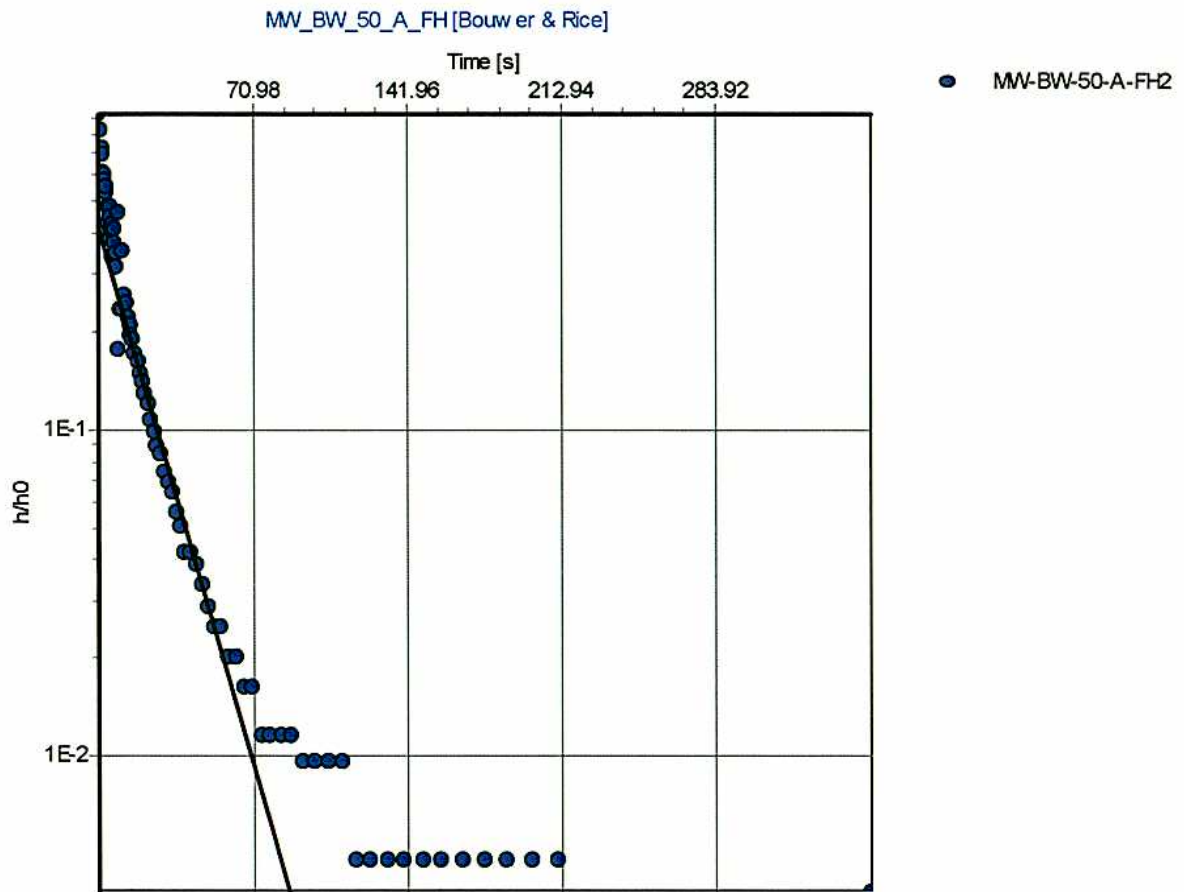
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Slug Test: MW_BW_50_A_FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.48E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-50-A-FH2	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(\text{eff})$:	0.617 [ft]		



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MW-BW-50-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-32

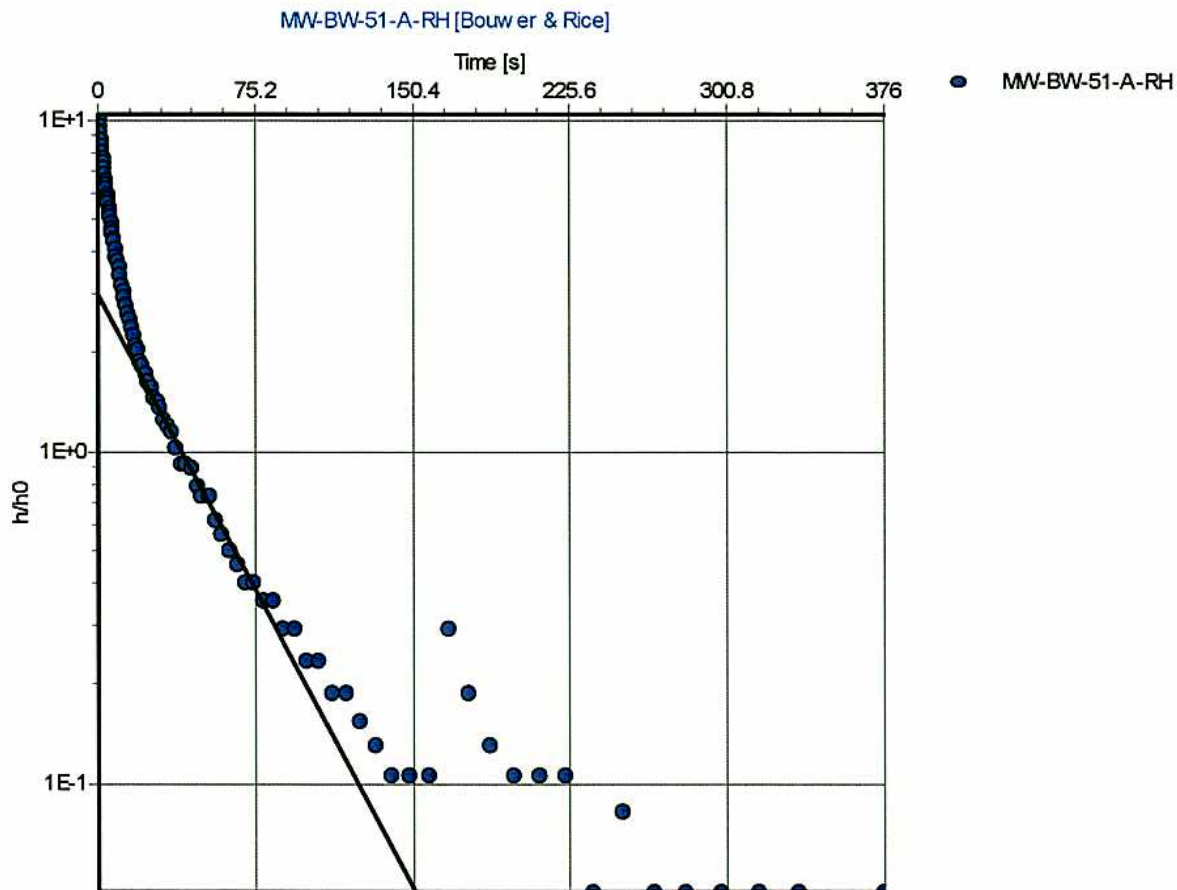
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Slug Test: MW-BW-51-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.77E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-51-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-51-A Rising Head Slug Test
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Former Fort Ord, California

FIGURE

E7-33

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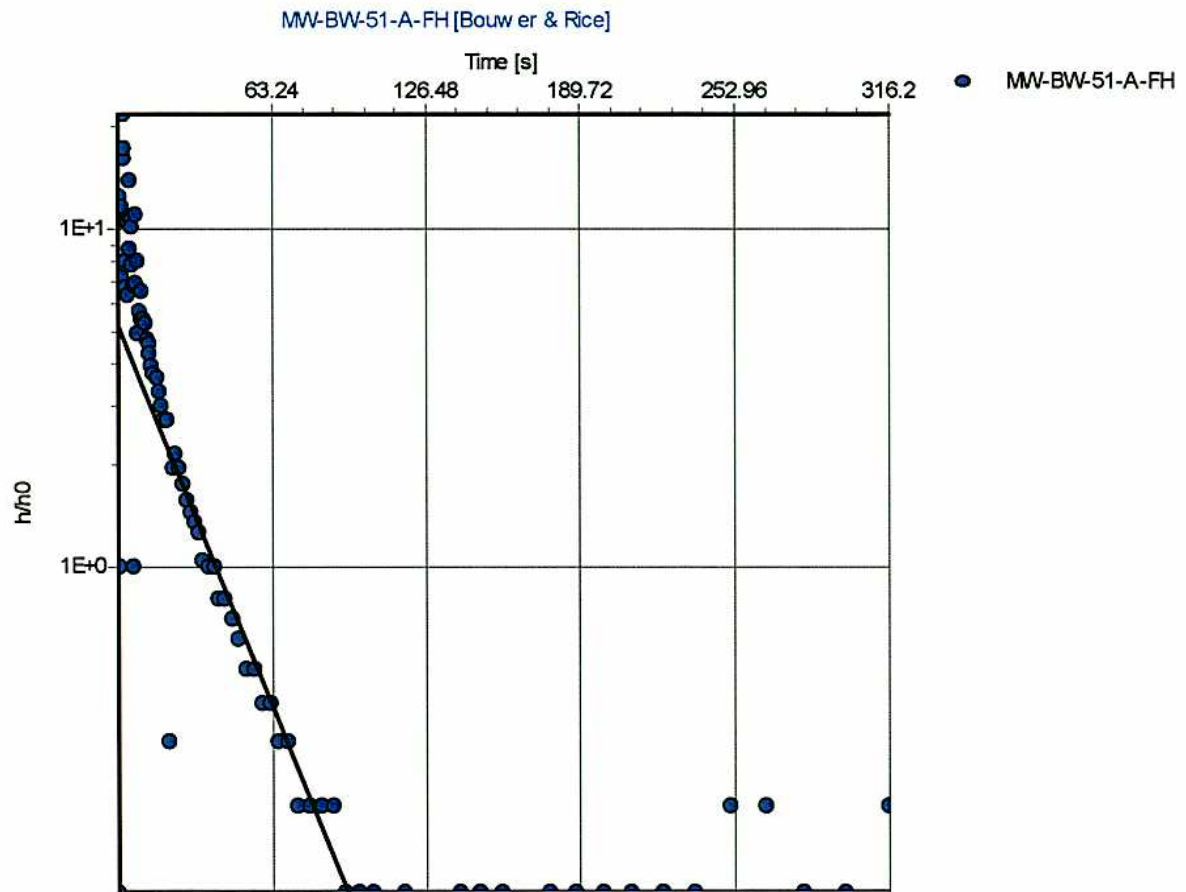
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Slug Test: MW-BW-51-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.67E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-51-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
$r(\text{eff})$:	0.617 [ft]		



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MW-BW-51-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-34

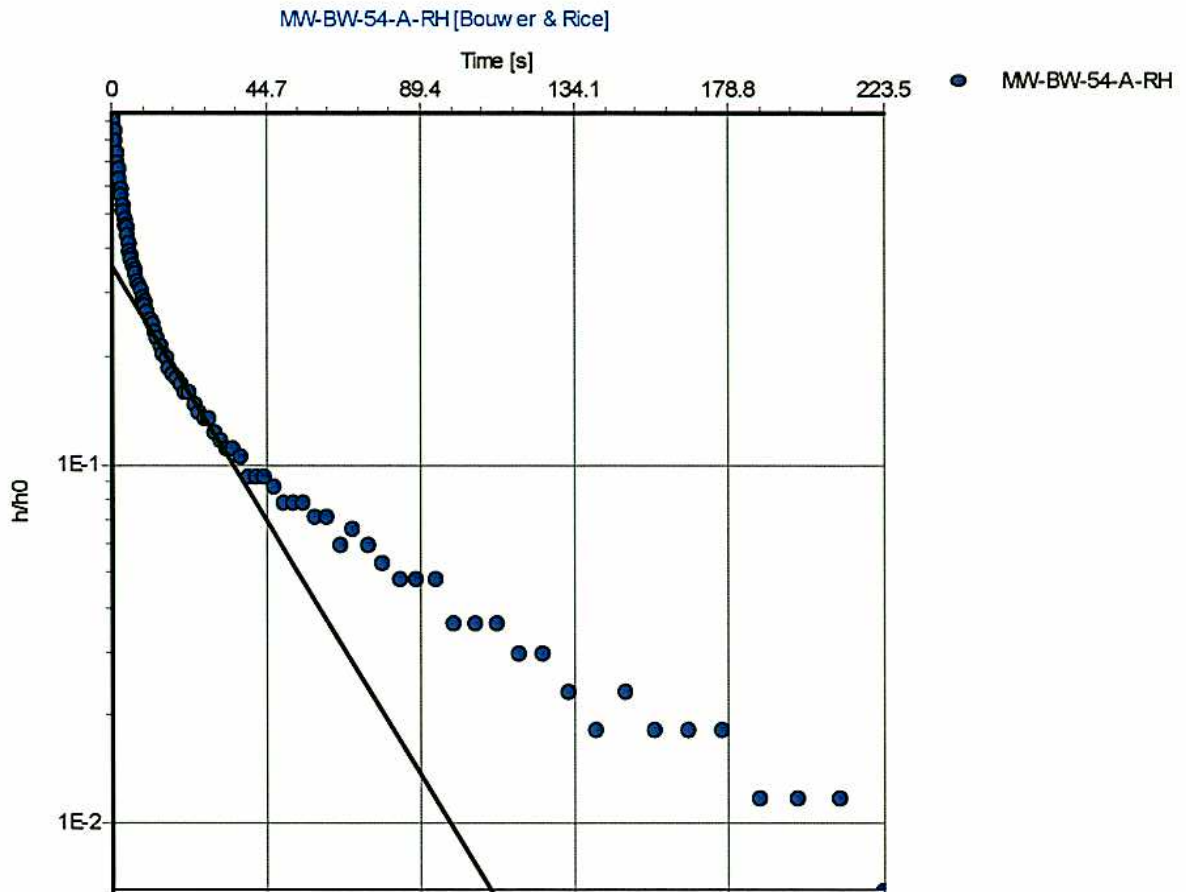
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Slug Test: MW-BW-54-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.37E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-54-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-54-A Rising Head Slug Test
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Former Fort Ord, California

FIGURE

E7-35

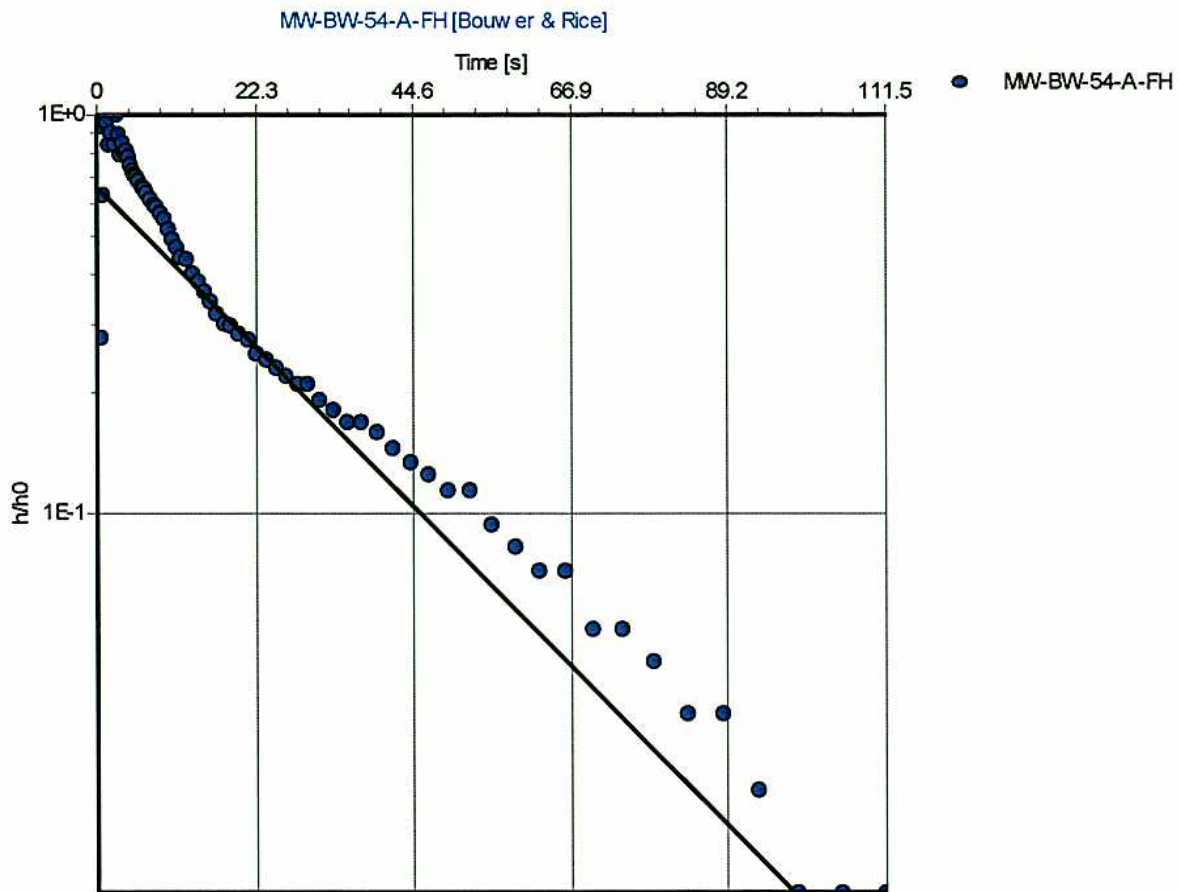
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55596.001701

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Slug Test: MW-BW-54-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.69E+1 [ft/d]

Test parameters:

Test Well:	MW-BW-54-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
$r(\text{eff})$:	0.617 [ft]		



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MW-BW-54-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-36

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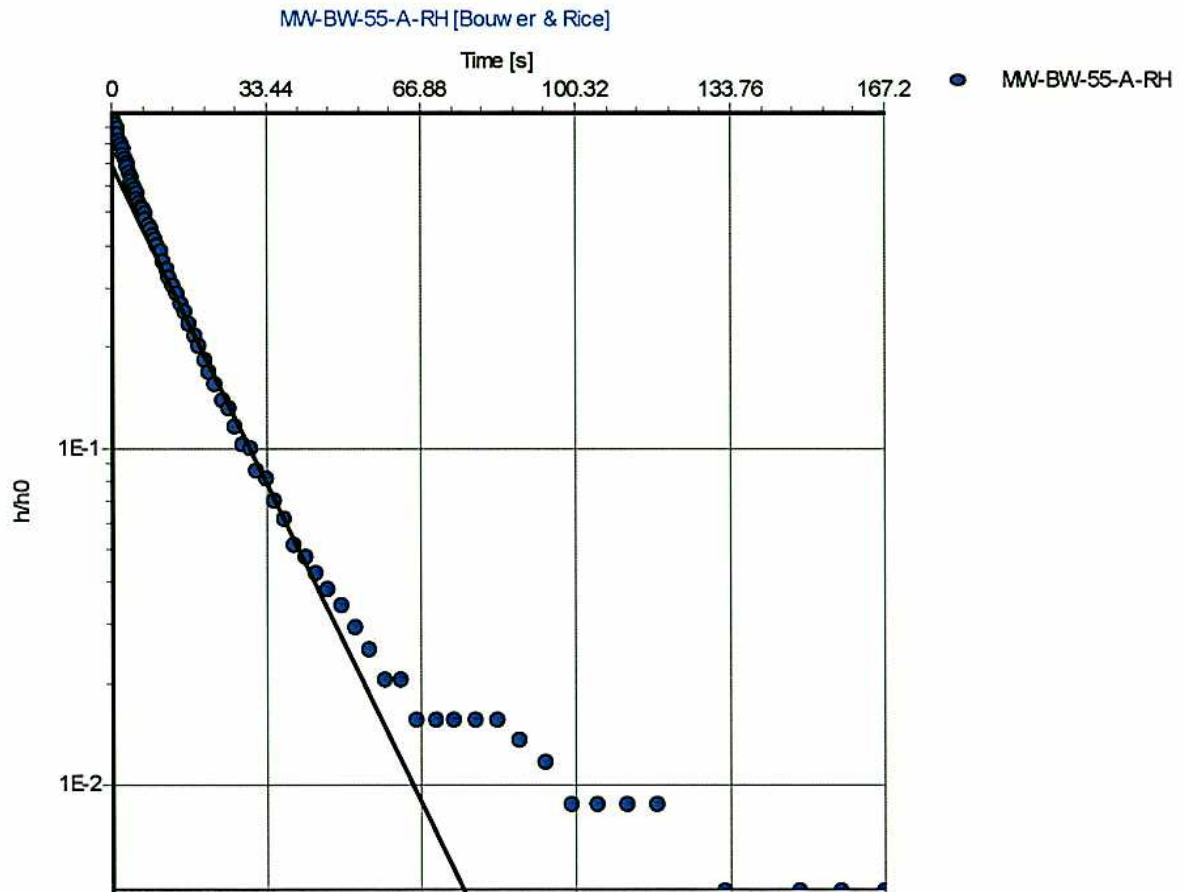
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55596.001701

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Slug Test: MW-BW-55-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.46E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-55-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	40 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-55-A Rising Head Slug Test
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FIGURE

E7-37

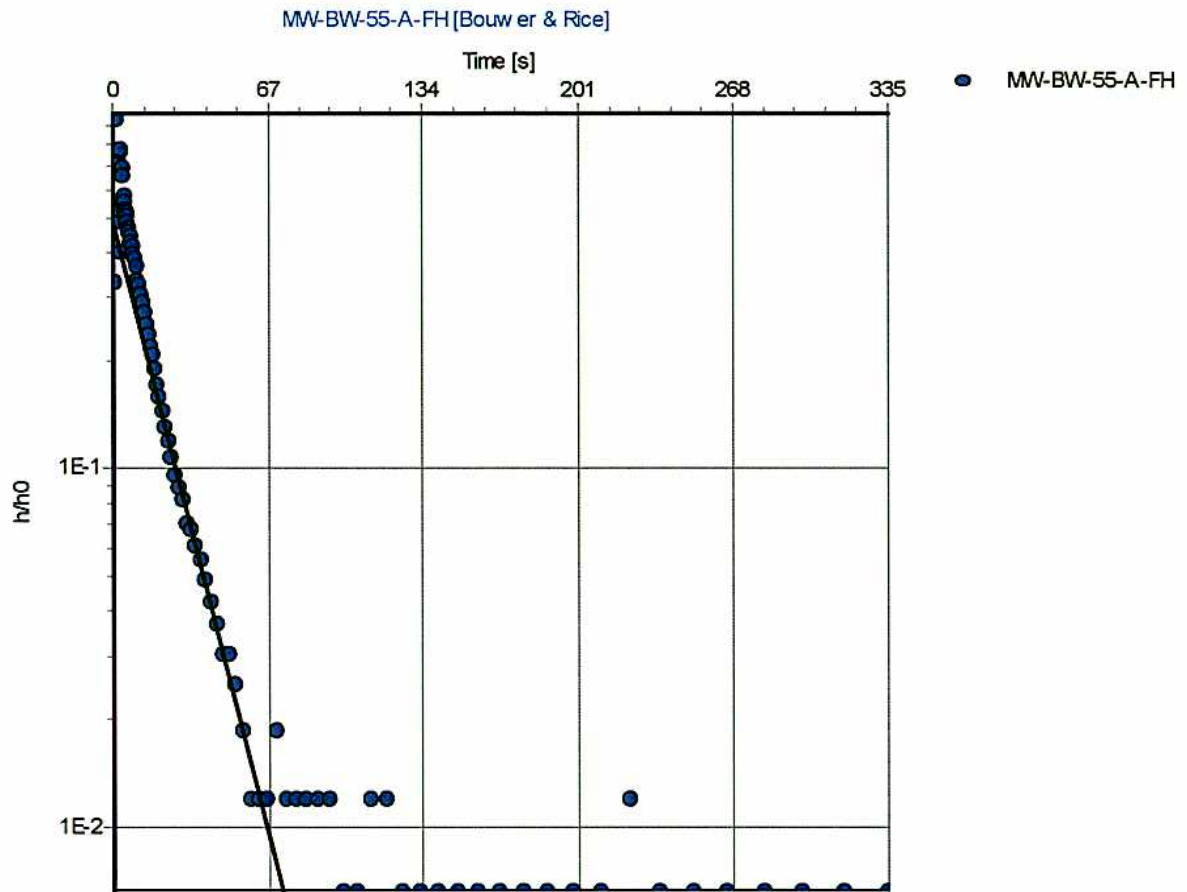
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Slug Test: MW-BW-55-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.13E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-BW-55-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	40 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-BW-55-A Falling Head Slug Test
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FIGURE

E7-38

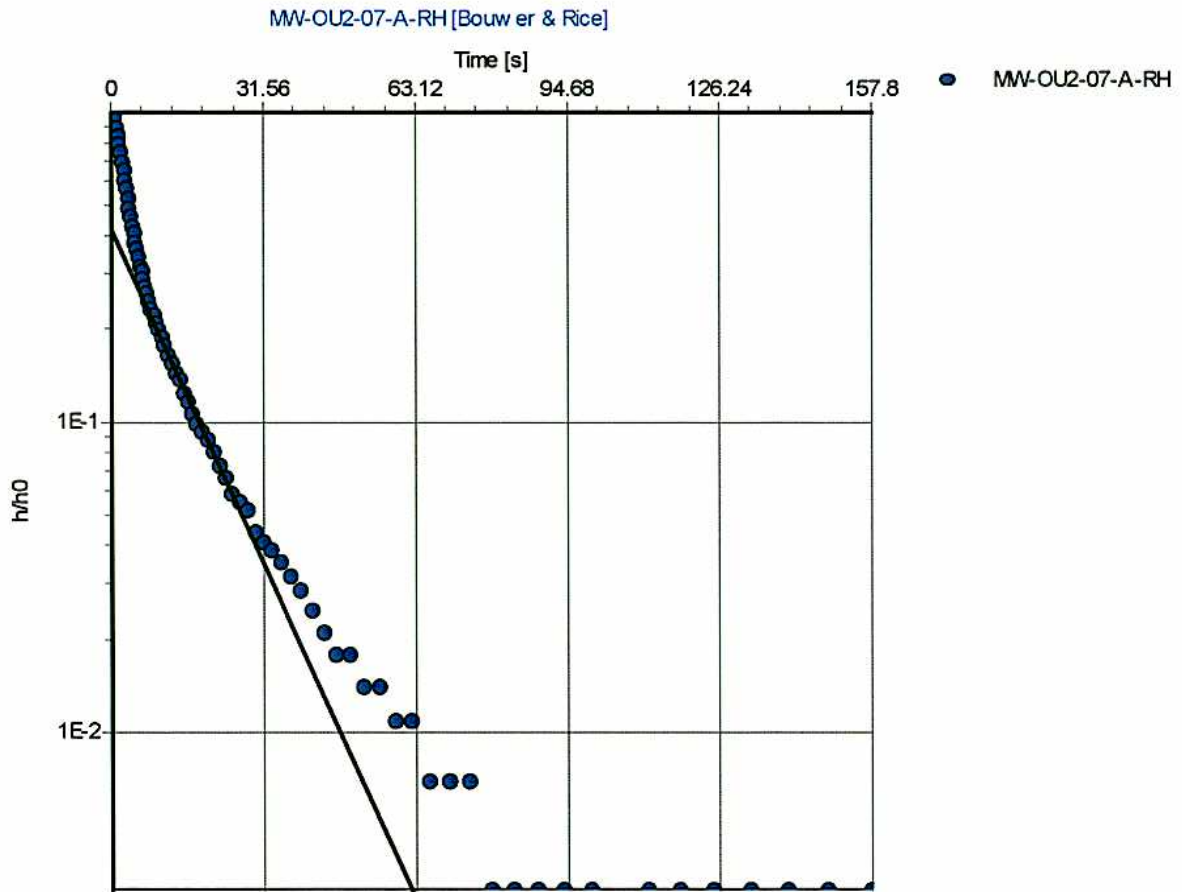
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Slug Test: MW-OU2-07-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 3.38E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-07-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.33 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	0.83 [ft]		
	r(eff):	0.504 [ft]		



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MW-OU2-07-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-39

DRAWN
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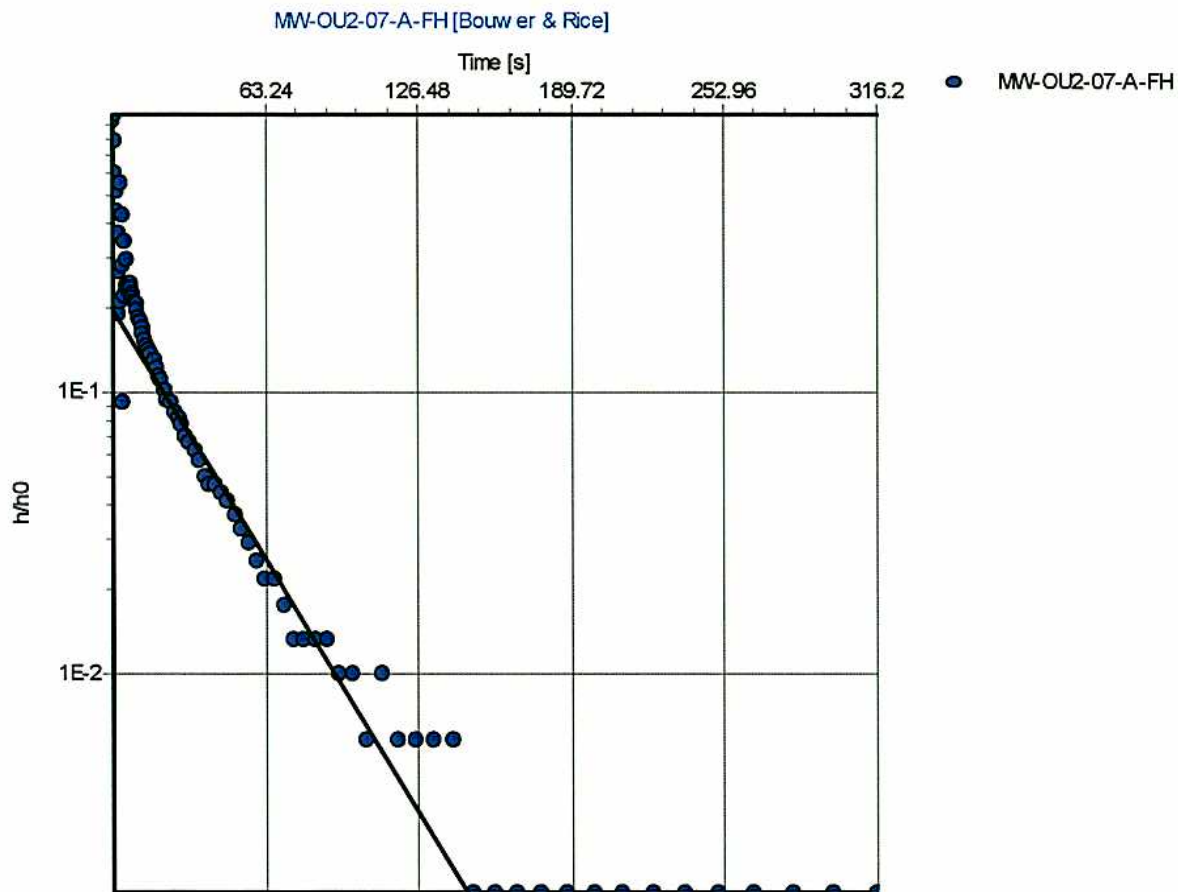
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Slug Test: MW-OU2-07-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.40E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-07-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.33 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	0.83 [ft]		
	$r(\text{eff})$:	0.504 [ft]		



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MW-OU2-07-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-40

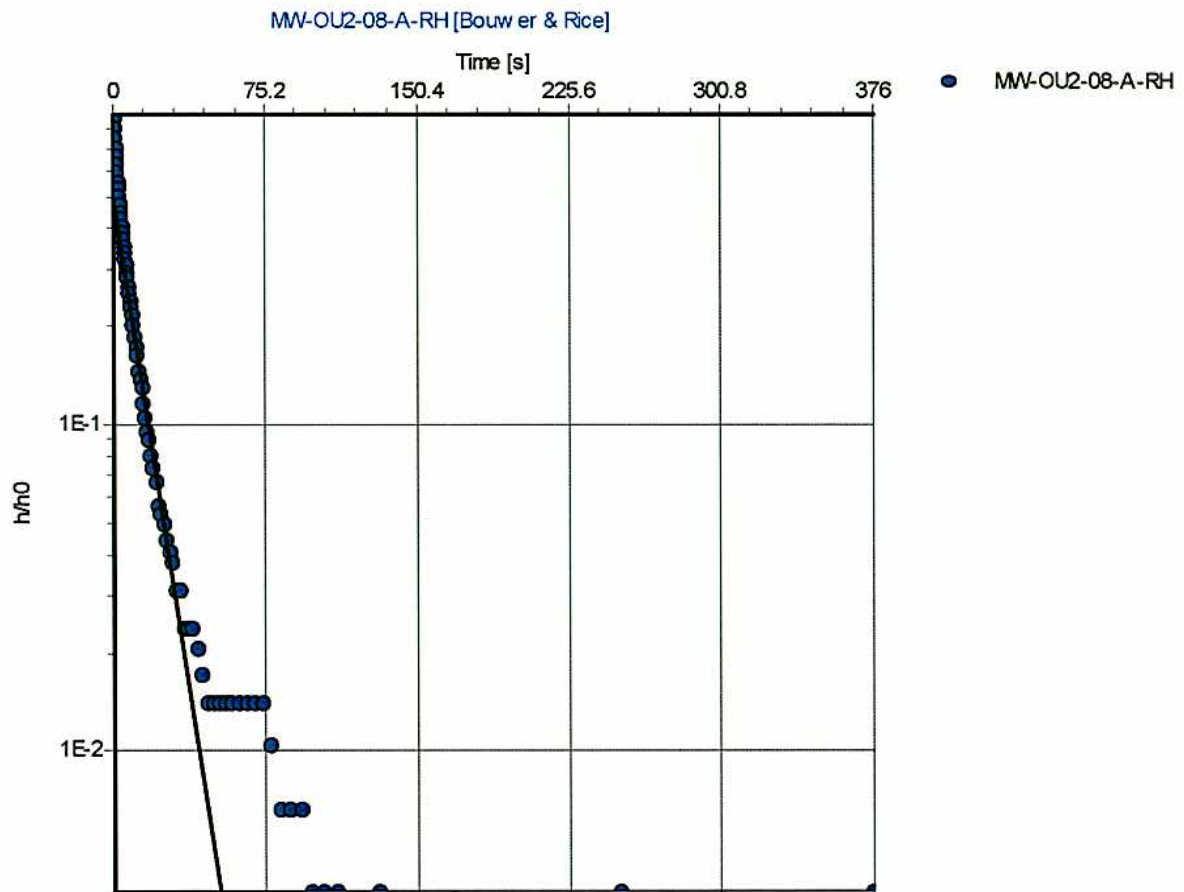
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Slug Test: MW-OU2-08-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 4.02E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-08-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.33 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	0.83 [ft]		
	$r(\text{eff})$:	0.504 [ft]		



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MW-OU2-08-A Rising Head Slug Test
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Former Fort Ord, California

FIGURE

E7-41

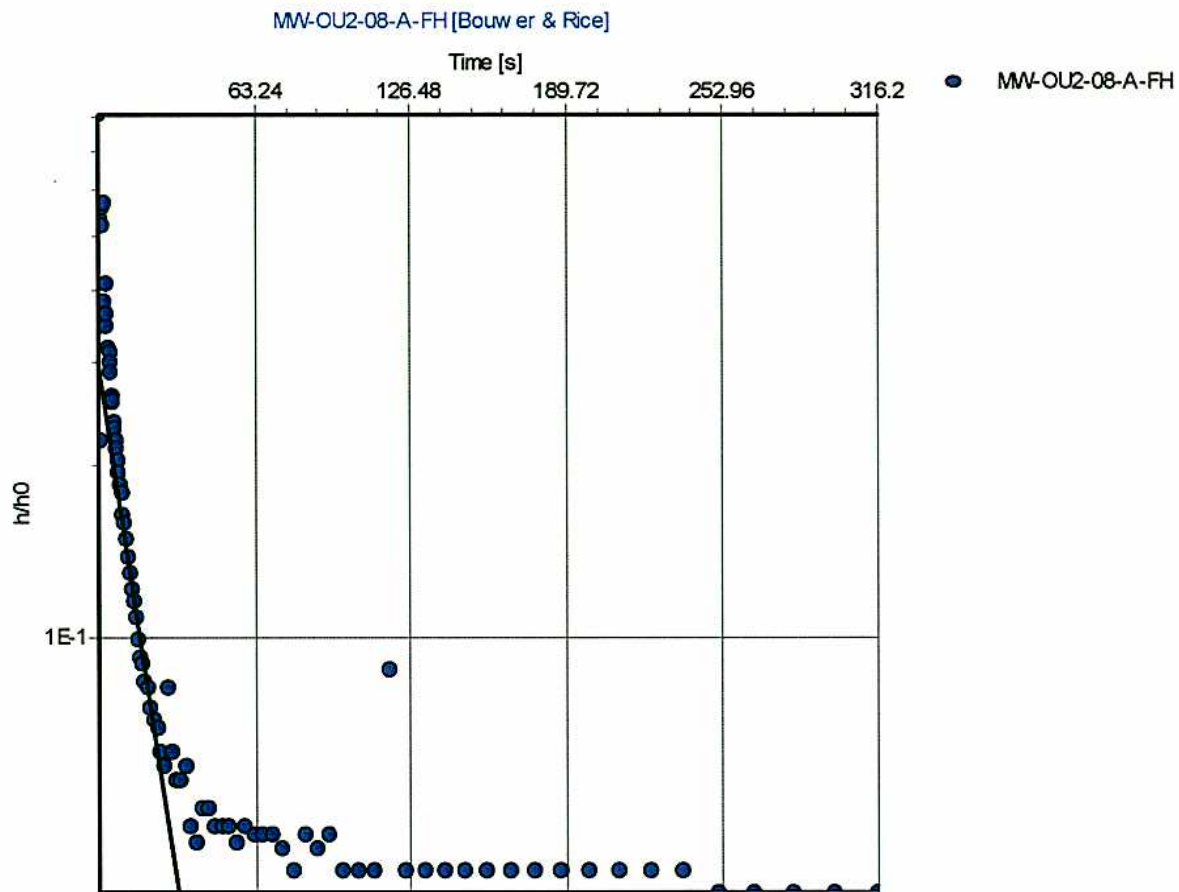
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Slug Test: MW-OU2-08-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.79E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-08-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.33 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	0.83 [ft]		
	r_{eff} :	0.504 [ft]		



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MW-OU2-08-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-42

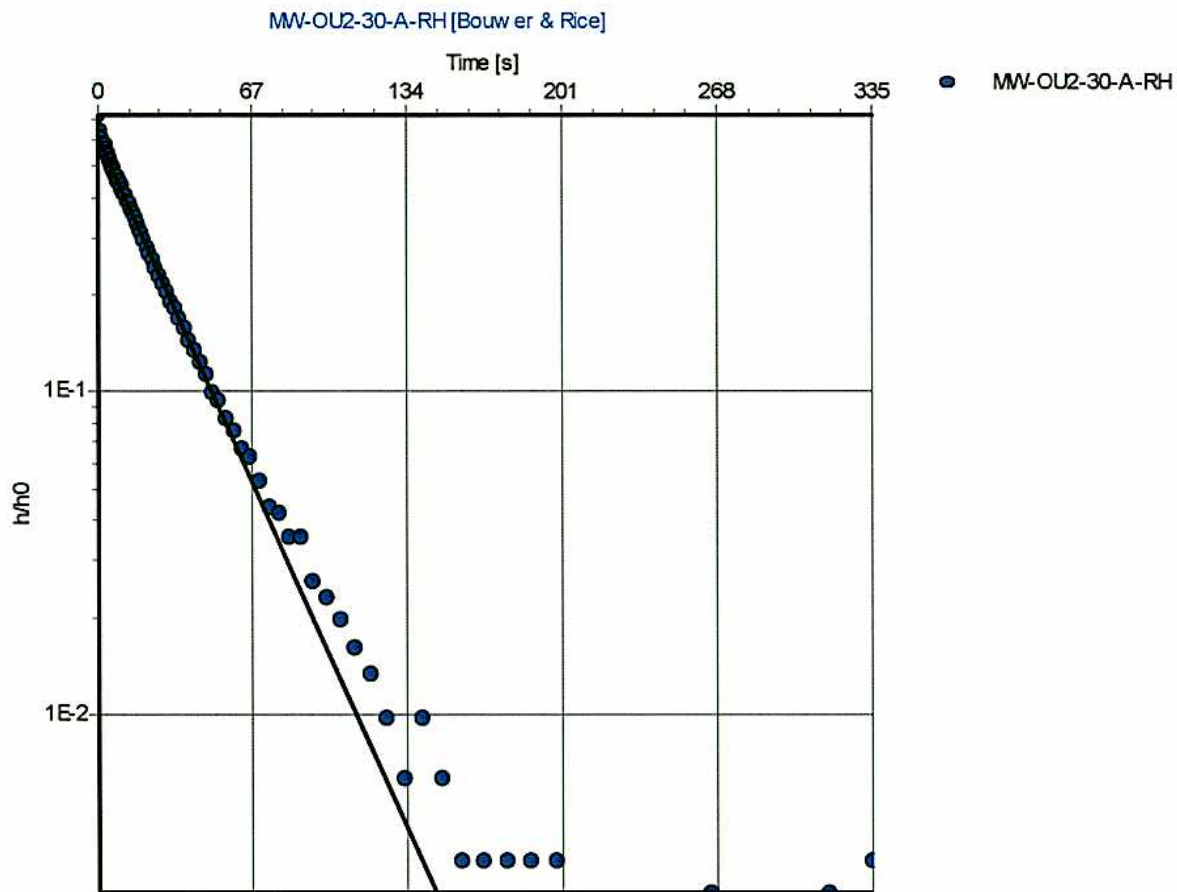
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Slug Test: MW-OU2-30-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 2.39E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-30-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(\text{eff})$:	0.617 [ft]		



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MW-OU2-30-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-43

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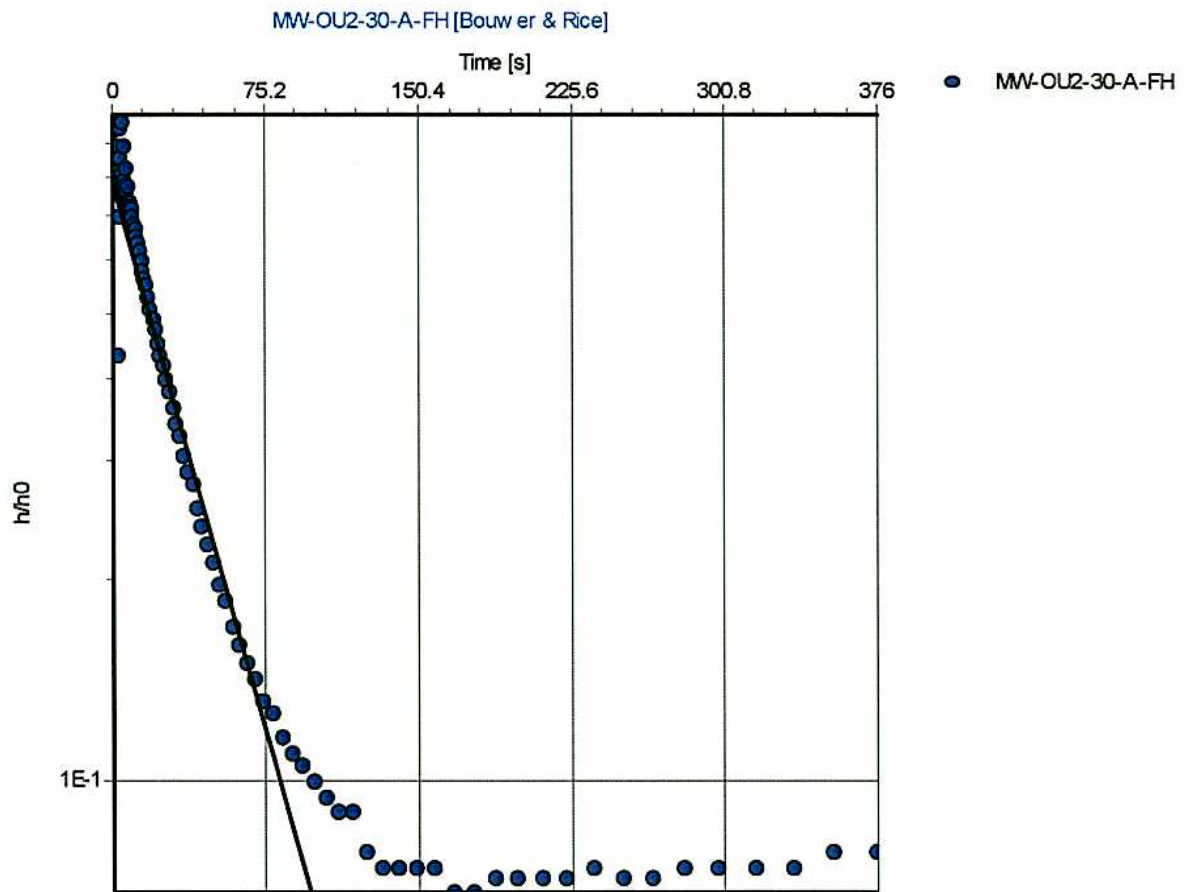
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55596.001701

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Slug Test: MW-OU2-30-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.63E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-30-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(\text{eff})$:	0.617 [ft]		



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MW-OU2-30-A Falling Head Slug Test
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Former Fort Ord, California

FIGURE

E7-44

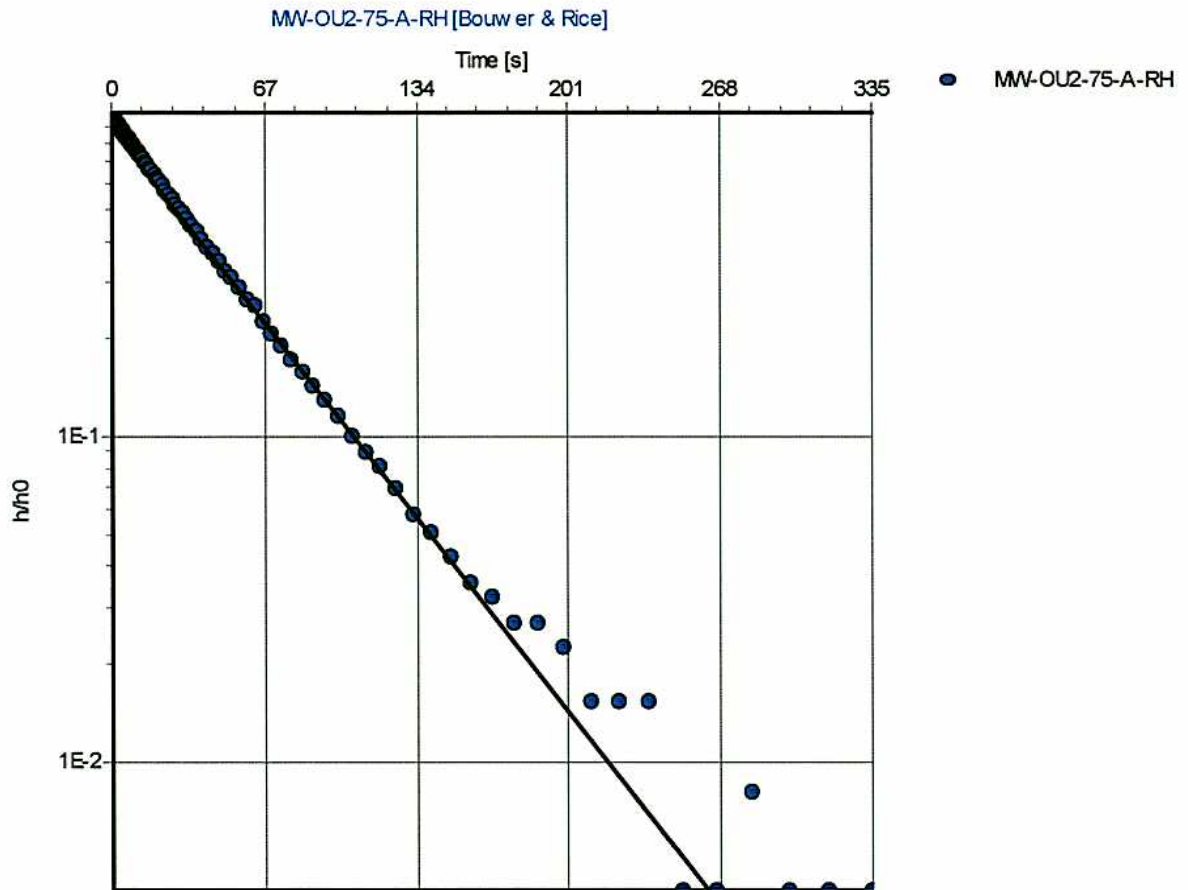
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Slug Test: MW-OU2-75-A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.34E+1 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-75-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(\text{eff})$:	0.617 [ft]		



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MW-OU2-75-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-45

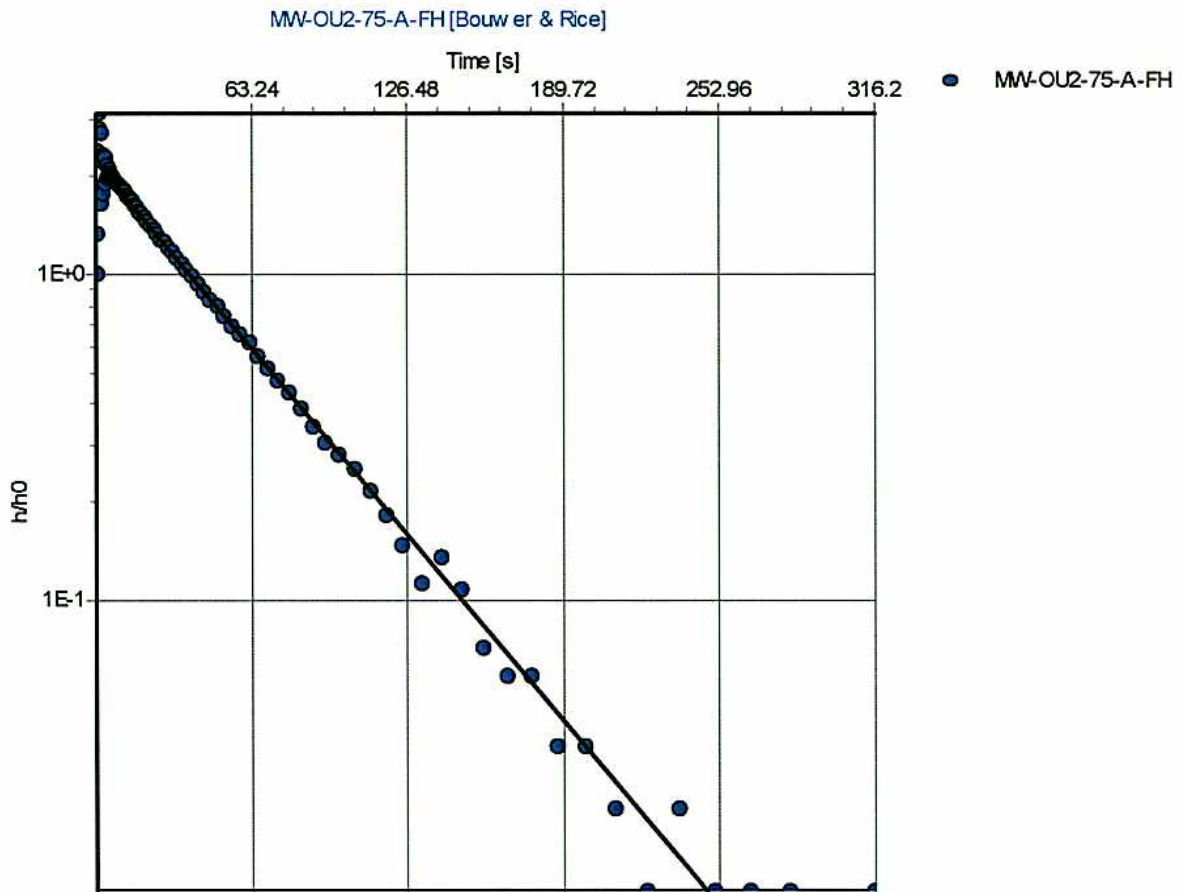
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Slug Test: MW-OU2-75-A-FH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 1.36E+1 [ft/d]

Test parameters:

Test Well:	MW-OU2-75-A-FH	Aquifer Thickness:	30 [ft]
Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
Screen length:	30 [ft]		
Boring radius:	1 [ft]		
r(eff):	0.617 [ft]		



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MW-OU2-75-A Falling Head Slug Test
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FIGURE

E7-46

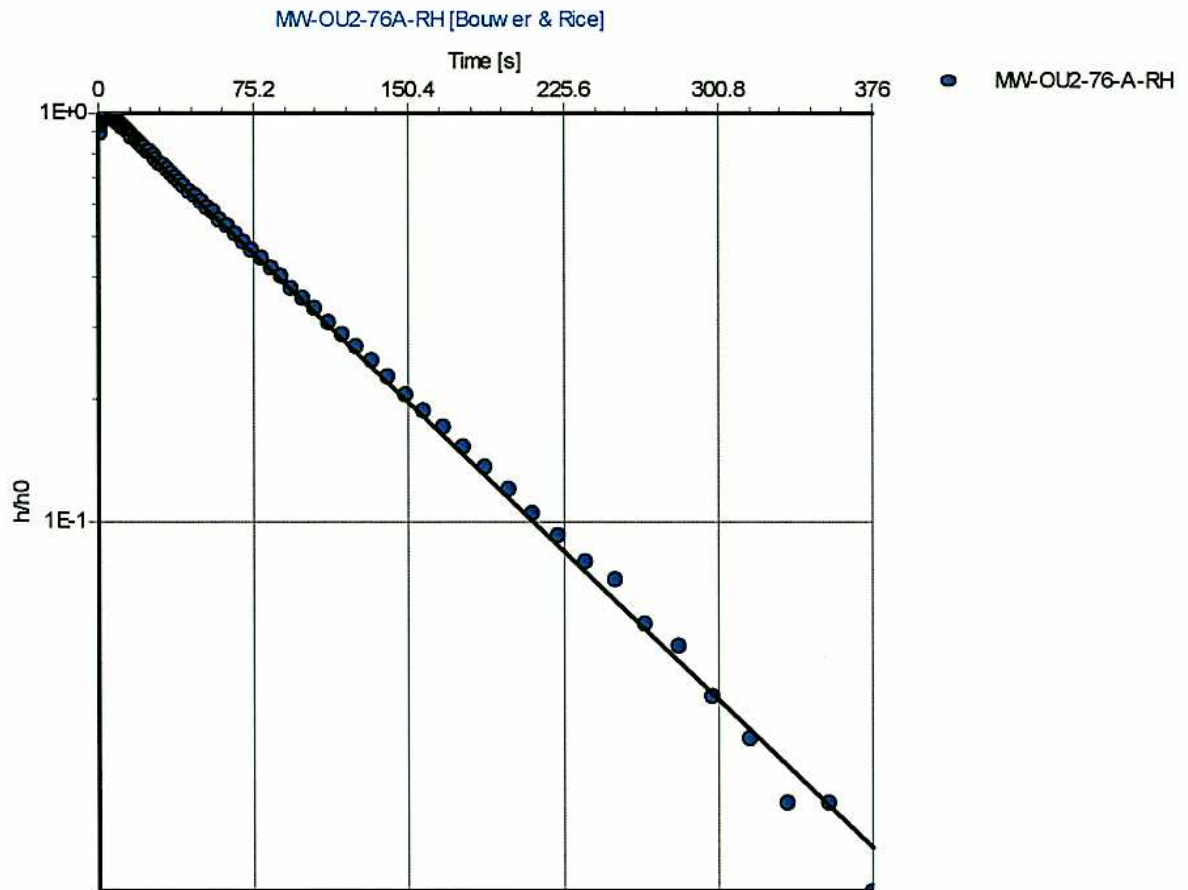
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55596.001701

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Slug Test: MW-OU2-76A-RH

Analysis Method: Bouwer & Rice

Analysis Results:

Conductivity: 7.23E+0 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-76-A-RH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	r(eff):	0.617 [ft]		



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MW-OU2-76-A Rising Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-47

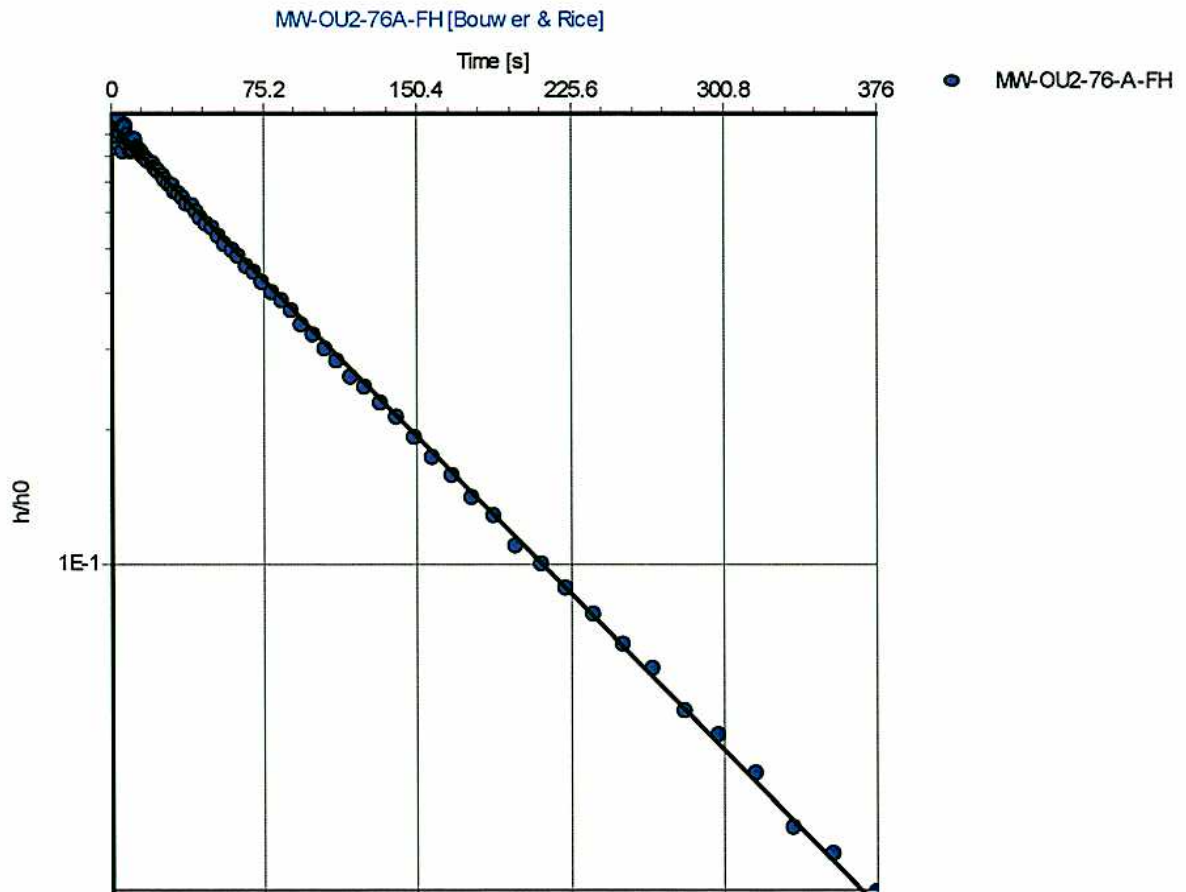
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Slug Test: **MW-OU2-76A-FH**

Analysis Method: **Bouwer & Rice**

Analysis Results:

Conductivity: 6.88E+0 [ft/d]

<u>Test parameters:</u>	Test Well:	MW-OU2-76-A-FH	Aquifer Thickness:	30 [ft]
	Casing radius:	0.417 [ft]	Gravel Pack Porosity (%)	25
	Screen length:	30 [ft]		
	Boring radius:	1 [ft]		
	$r(eff)$:	0.617 [ft]		



MACTEC

MW-OU2-76-A Falling Head Slug Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E7-48

DRAWN
CLH

JOB NUMBER
55596.001701

APPROVED
MDT / cm

DATE
01/05

REVISED DATE



Hydraulic Conductivity

ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: 179-191 Boring: P212004 Date: 11/18/02
 Client: Harding ESE Sample: 15A By: DC
 Project: 55596.000123 Depth: Remolded:
 Visual Classification: grayish brown CLAY w/sand

Max Sample Pressures, psi:				B: = >0.95 ("B" is an indication of saturation)	
Cell:	Bottom	Top	Avg. Sigma 3	Max Hydraulic Gradient: = 25	
44	40	38	5		
Date	Minutes	Head, (in)	K, cm/sec		
12/16/03	0.00	74.38	Start of Test		
12/16/03	515.00	73.03	1.1E-07		
12/17/03	1380.00	72.53	5.8E-08		
12/17/03	1920.00	72.43	4.2E-08		
12/18/03	2820.00	72.23	3.4E-08		
12/18/03	3360.00	72.08	2.9E-08		
12/19/03	4260.00	71.98	2.6E-08		
12/19/03	495.00	74.23	1.3E-08		
12/26/03	2700.00	73.48	1.6E-08		
12/26/03	480.00	74.23	1.4E-08		

Average Permeability:				2.E-08	cm/sec
Sample Data:	Initial			Final	
Height, in	3.00			3.04	
Diameter, in	1.93			1.95	
Area, in2	2.93			2.99	
Volume in3	8.78			9.08	
Total Volume, cc	143.82			148.78	
Volume Solids, cc	78.43			78.43	
Volume Voids, cc	65.39			70.35	
Void Ratio	0.83			0.90	
Porosity, %	45.47			47.28	
Saturation, %	96.65			99.65	
Specific Gravity	2.80	Assumed		2.80	
Wet Weight, gm	282.8			289.7	
Dry Weight, gm	219.6			219.6	
Tare, gm	0.00			0.00	
Moisture, %	28.8			31.9	
Dry Density, pcf	95.3			92.1	
Remarks:					



MP-BW-38 (277-277.5 feet bgs) Permeameter Test
 OU CTP Remedial Investigation/Feasibility Study
 Former Fort Ord, California

FIGURE

E8-1

DRAWN
CLH

JOB NUMBER
55596.001701

APPROVED
MST / cm

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Hydraulic Conductivity

ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: 179-191d Boring: P212004 Date: 11/18/02
Client: Harding ESE Sample: 16A By: DC
Project: 55596.000123 Depth: Remolded:
Visual Classification: grayish brown CLAY

Max Sample Pressures, psi:

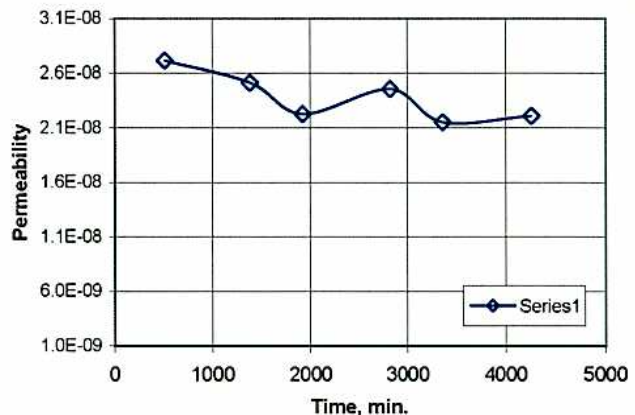
Cell:	Bottom	Top	Avg. Sigma 3
64	60	58	5

B: = >0.95

("B" is an indication of saturation)

Max Hydraulic Gradient: = 25

Date	Minutes	Head, (in)	K, cm/sec
12/16/03	0.00	74.38	Start of Test
12/16/03	515.00	74.03	2.7E-08
12/17/03	1380.00	73.58	2.5E-08
12/17/03	1920.00	73.33	2.2E-08
12/18/03	2820.00	72.83	2.5E-08
12/18/03	3360.00	72.68	2.2E-08
12/19/03	4260.00	72.33	2.2E-08



Average Permeability:

2.E-08

cm/sec

Sample Data:	Initial	Final
Height, in	3.00	3.05
Diameter, in	1.93	1.96
Area, in ²	2.93	3.02
Volume in ³	8.78	9.20
Total Volume, cc	143.82	150.80
Volume Solids, cc	78.32	78.32
Volume Voids, cc	65.50	72.48
Void Ratio	0.84	0.93
Porosity, %	45.54	48.06
Saturation, %	95.88	98.79
Specific Gravity	2.80	2.80
	Assumed	
Wet Weight, gm	282.1	290.9
Dry Weight, gm	219.3	219.3
Tare, gm	0.00	0.00
Moisture, %	28.6	32.6
Dry Density, pcf	95.1	90.7

Remarks:



MACTEC

MP-BW-38 (277.5-278 feet bgs) Permeameter Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E8-2

DRAWN
CLH

JOB NUMBER
55596.001701

APPROVED
MST / cm

DATE
01/05

REVISED DATE

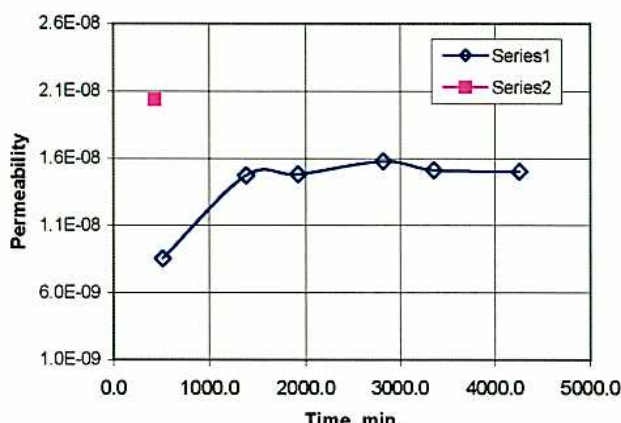


Hydraulic Conductivity

ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: 179-191e Boring: P212004 Date: 11/18/02
Client: Harding ESE Sample: 17A By: DC
Project: 55596.000123 Depth: Remolded:
Visual Classification: brown CLAY

Max Sample Pressures, psi:				B: = >0.95	("B" is an indication of saturation)
Cell:	Bottom	Top	Avg. Sigma 3	Max Hydraulic Gradient: = 25	
64	60	58	5		
Date	Minutes	Head, (in)	K, cm/sec		
12/16/03	0.00	74.38	Start of Test		
12/16/03	515.00	74.27	8.5E-09		
12/17/03	1380.00	73.91	1.5E-08		
12/17/03	1920.00	73.68	1.5E-08		
12/18/03	2820.00	73.38	1.6E-08		
12/18/03	3360.00	73.18	1.5E-08		
12/19/03	4260.00	72.98	1.5E-08		
12/19/03	435.00	74.18	2.0E-08		

Average Permeability: 2.E-08 cm/sec		
Sample Data:	Initial	Final
Height, in	3.00	3.05
Diameter, in	1.93	1.99
Area, in ²	2.93	3.11
Volume in ³	8.78	9.49
Total Volume, cc	143.82	155.45
Volume Solids, cc	78.98	78.98
Volume Voids, cc	64.84	76.47
Void Ratio	0.82	0.97
Porosity, %	45.08	49.19
Saturation, %	99.63	98.73
Specific Gravity	2.75 Assumed	2.75
Wet Weight, gm	281.8	292.7
Dry Weight, gm	217.2	217.2
Tare, gm	0.00	0.00
Moisture, %	29.7	34.8
Dry Density, pcf	94.2	87.2
Remarks:		



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MP-BW-38 (278-278.5 feet bgs) Permeameter Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E8-3

DRAWN
CLH

JOB NUMBER
55596.001701

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DATE
01/05

REVISED DATE



Hydraulic Conductivity

ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: 179-191a Boring: P212004 Date: 11/18/02
Client: Harding ESE Sample: 18A By: DC
Project: 55596 Depth: Remolded:
Visual Classification: olive brown fine sandy CLAY (silty)

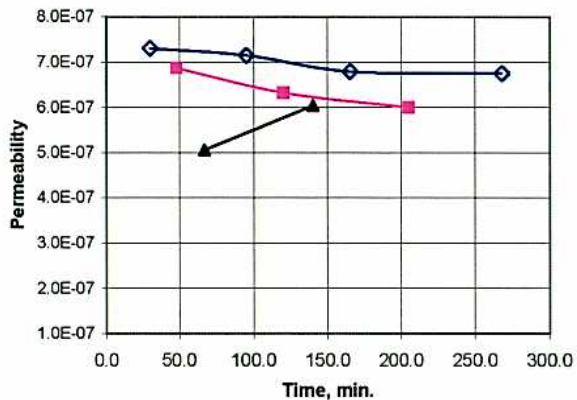
Max Sample Pressures, psi:

Cell:	Bottom	Top	Avg. Sigma 3
64	60	58	5

B: = >0.95 ("B" is an indication of saturation)

Max Hydraulic Gradient: = 23

Date	Minutes	Head, (in)	K, cm/sec
12/14/03	0.00	70.38	Start of Test
12/14/03	30.00	69.58	7.3E-07
12/14/03	95.00	67.93	7.1E-07
12/14/03	165.00	66.28	6.8E-07
12/14/03	268.00	63.88	6.8E-07
12/16/03	48.00	69.18	6.9E-07
12/16/03	120.00	67.58	6.3E-07
12/16/03	205.00	65.78	6.0E-07
12/16/03	67.00	69.08	5.1E-07
12/16/03	140.00	67.18	6.0E-07



Average Permeability:

6.E-07 cm/sec

Sample Data:	Initial	Final
Height, in	3.00	3.00
Diameter, in	1.93	1.93
Area, in ²	2.93	2.93
Volume in ³	8.78	8.78
Total Volume, cc	143.82	143.82
Volume Solids, cc	80.81	80.81
Volume Voids, cc	63.01	63.01
Void Ratio	0.78	0.78
Porosity, %	43.81	43.81
Saturation, %	99.20	99.83
Specific Gravity	2.70 Assumed	2.70
Wet Weight, gm	280.7	281.1
Dry Weight, gm	218.2	218.2
Tare, gm	0.00	0.00
Moisture, %	28.6	28.8
Dry Density, pcf	94.7	94.7

Remarks:



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MP-BW-38 (286.5 feet bgs) Permeameter Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E8-4

DRAWN
CLH

JOB NUMBER
55596.001701

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DATE
01/05

REVISED DATE



Hydraulic Conductivity

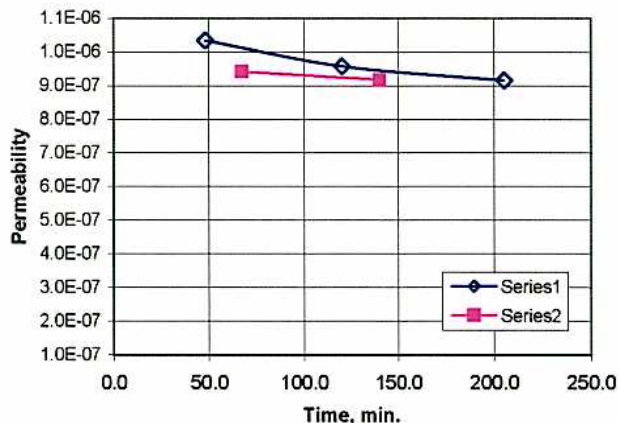
ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: 179-191b Boring: P212004 Date: 11/18/02
Client: Harding ESE Sample: 19A By: DC
Project: 55596.0222123 Depth: Remolded:
Visual Classification: olive brown CLAY, (silty)

Max Sample Pressures, psi:				B: = >0.95	("B" is an indication of saturation)
Cell:	Bottom	Top	Avg. Sigma 3	Max Hydraulic Gradient: = 23	
64	60	58	5		

Date	Minutes	Head, (in)	K, cm/sec
12/16/03	0.00	70.38	Start of Test
12/16/03	48.00	68.58	1.0E-06
12/16/03	120.00	66.18	9.6E-07
12/16/03	205.00	63.48	9.1E-07
12/16/03	67.00	67.98	9.4E-07
12/16/03	140.00	65.58	9.2E-07



Average Permeability: 1.E-06 cm/sec		
Sample Data:	Initial	Final
Height, in	3.00	2.98
Diameter, in	1.93	1.92
Area, in ²	2.93	2.90
Volume in ³	8.78	8.63
Total Volume, cc	143.82	141.39
Volume Solids, cc	77.02	77.02
Volume Voids, cc	66.80	64.37
Void Ratio	0.87	0.84
Porosity, %	46.45	45.53
Saturation, %	97.60	99.43
Specific Gravity	2.75 Assumed	2.75
Wet Weight, gm	277.0	275.8
Dry Weight, gm	211.8	211.8
Tare, gm	0.00	0.00
Moisture, %	30.8	30.2
Dry Density, pcf	91.9	93.5

Remarks:



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MP-BW-38 (287 feet bgs) Permeameter Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E8-5

DRAWN
CLH

JOB NUMBER
55596.001701

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MDT / cm

DATE
01/05

REVISED DATE



Hydraulic Conductivity

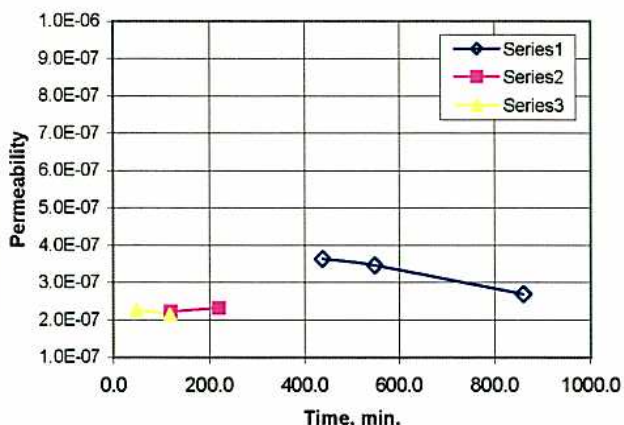
ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: 179-191 Boring: P212004 Date: 11/18/02
Client: Harding ESE Sample: 20A By: DC
Project: 55596.000123 Depth: Remolded:
Visual Classification: olive brown CLAY w/fine sand, (silty)

Max Sample Pressures, psi:				B: = >0.95	("B" is an indication of saturation)
Cell:	Bottom	Top	Avg. Sigma 3	Max Hydraulic Gradient: = 23	
44	40	38	5		

Date	Minutes	Head, (in)	K, cm/sec
12/13/03	0.00	70.38	Start of Test
12/13/03	438.00	64.63	3.6E-07
12/13/03	548.00	63.58	3.5E-07
12/14/03	860.00	62.38	2.7E-07
12/14/03	120.00	69.38	2.2E-07
12/14/03	220.00	68.48	2.3E-07
12/16/03	48.00	69.98	2.3E-07
12/16/03	118.00	69.43	2.2E-07



Average Permeability: 2.E-07 cm/sec

Sample Data:	Initial	Final
Height, in	3.00	2.99
Diameter, in	1.93	1.95
Area, in ²	2.93	2.99
Volume in ³	8.78	8.93
Total Volume, cc	143.82	146.33
Volume Solids, cc	79.59	79.59
Volume Voids, cc	64.23	66.74
Void Ratio	0.81	0.84
Porosity, %	44.66	45.61
Saturation, %	99.95	97.55
Specific Gravity	2.70 Assumed	2.70
Wet Weight, gm	279.1	280.0
Dry Weight, gm	214.9	214.9
Tare, gm	0.00	0.00
Moisture, %	29.9	30.3
Dry Density, pcf	93.2	91.6

Remarks:



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MP-BW-38 (287.5 feet bgs) Permeameter Test
OU CTP Remedial Investigation/Feasibility Study
Former Fort Ord, California

FIGURE

E8-6

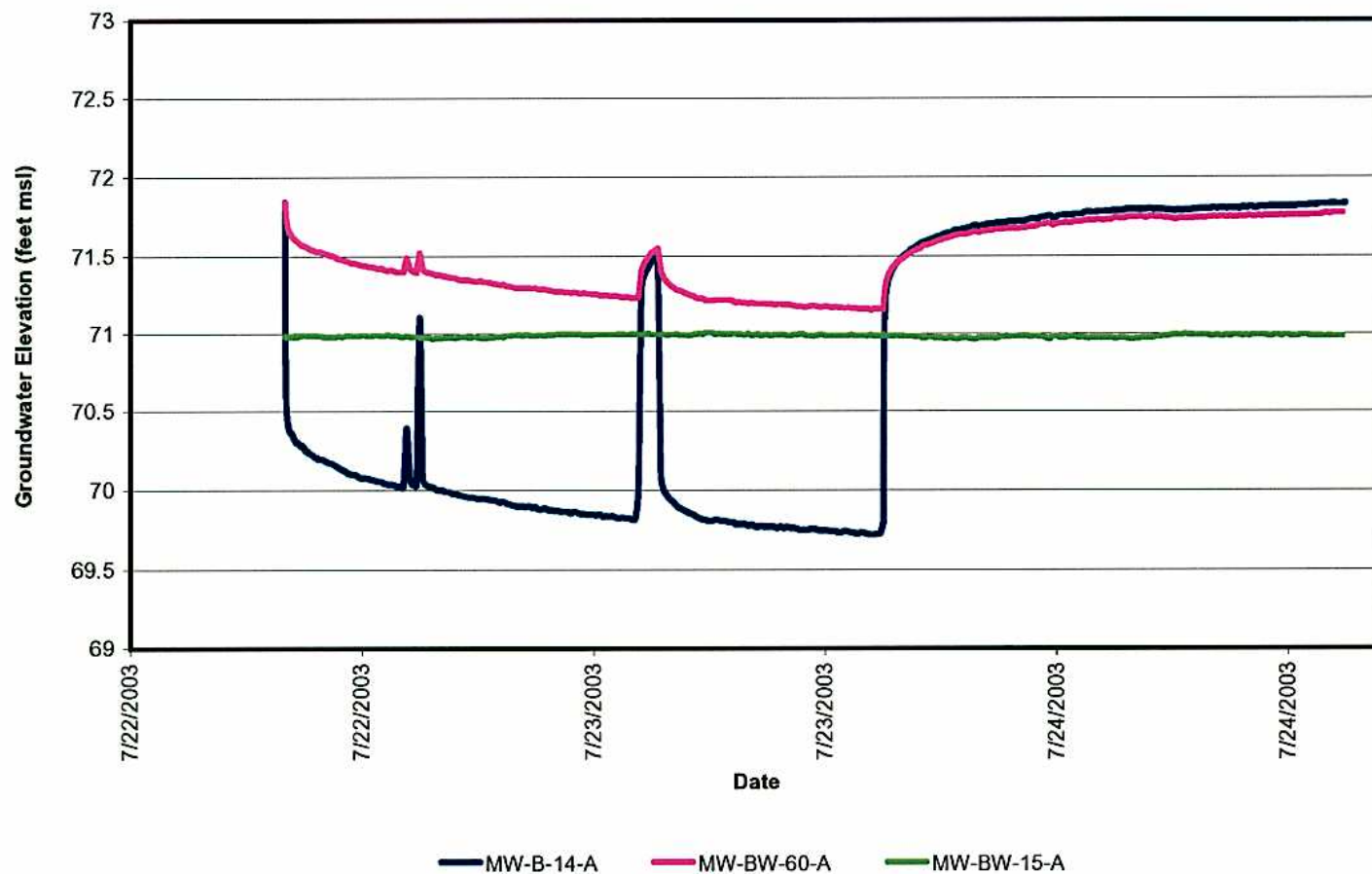
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JOB NUMBER
55596.001701

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DATE
01/05

REVISED DATE



MW-B-14-A Aquifer Test
Groundwater Elevation Hydrographs
 OUCTP RI/FS
 Former Fort Ord, California

FIGURE
E9-1

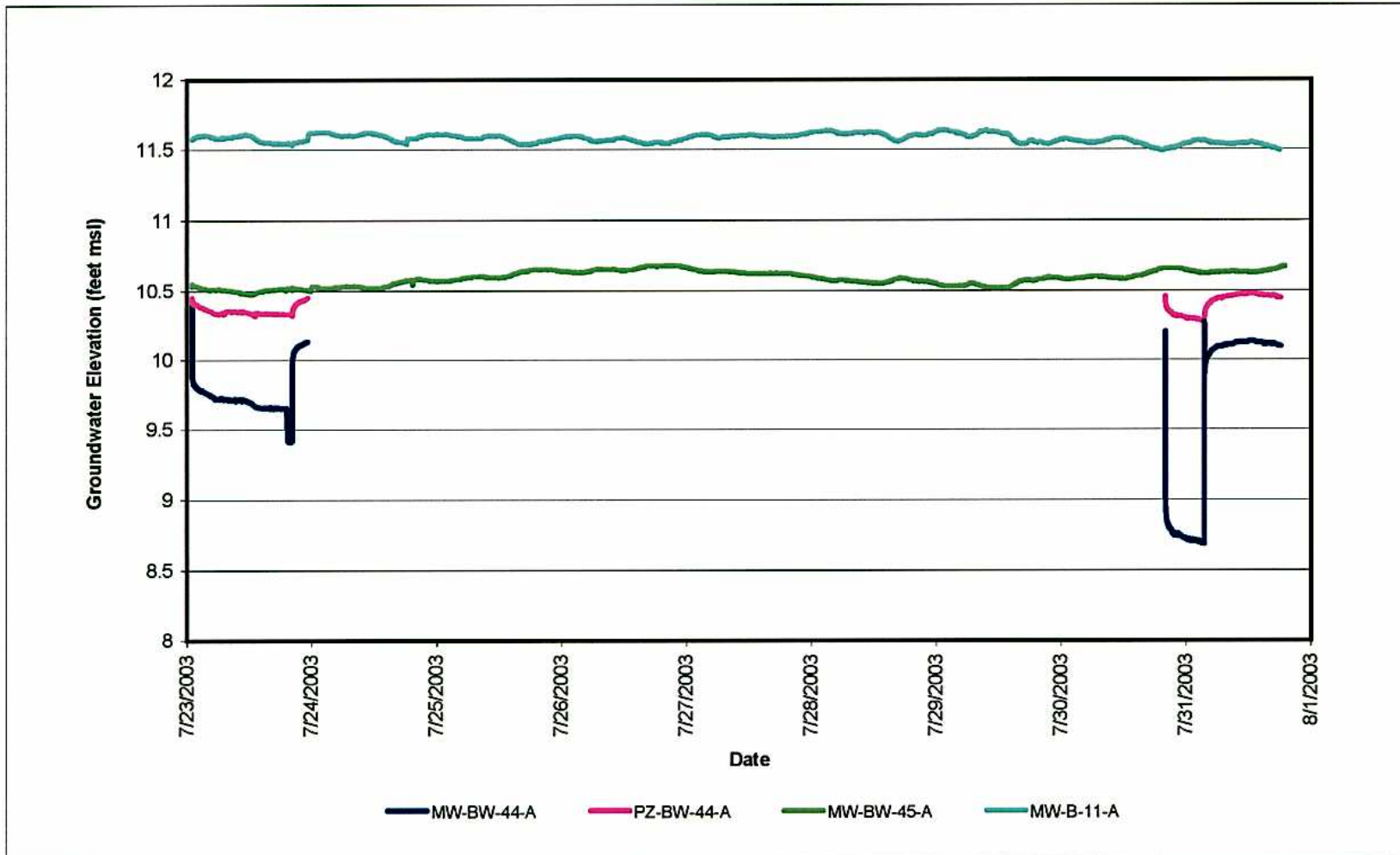
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 55596 001701

APPROVED
 MDT / *[signature]*

DATE
 2/05

Revised Date



MW-BW-44-A Aquifer Tests
Groundwater Elevation Hydrographs
 OUCTP RI/FS
 Former Fort Ord, California

FIGURE
E9-2

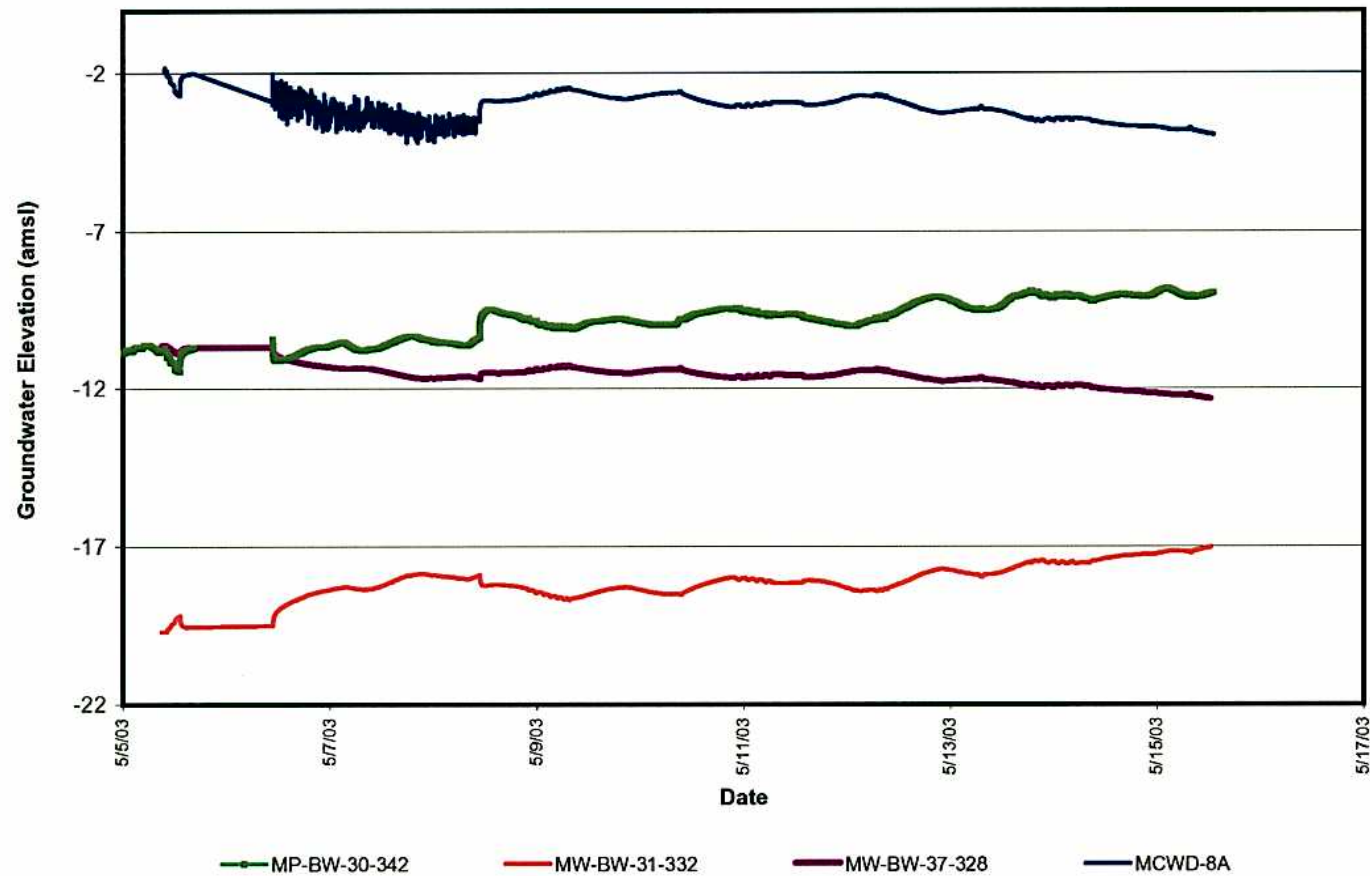
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 55596 001701

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 MDT / *cm*

DATE
 2/05

Revised Date



MCWD-8A Aquifer Test
Groundwater Elevation Hydrographs
 OUCTP RI/FS
 Former Fort Ord, California

FIGURE
E9-3

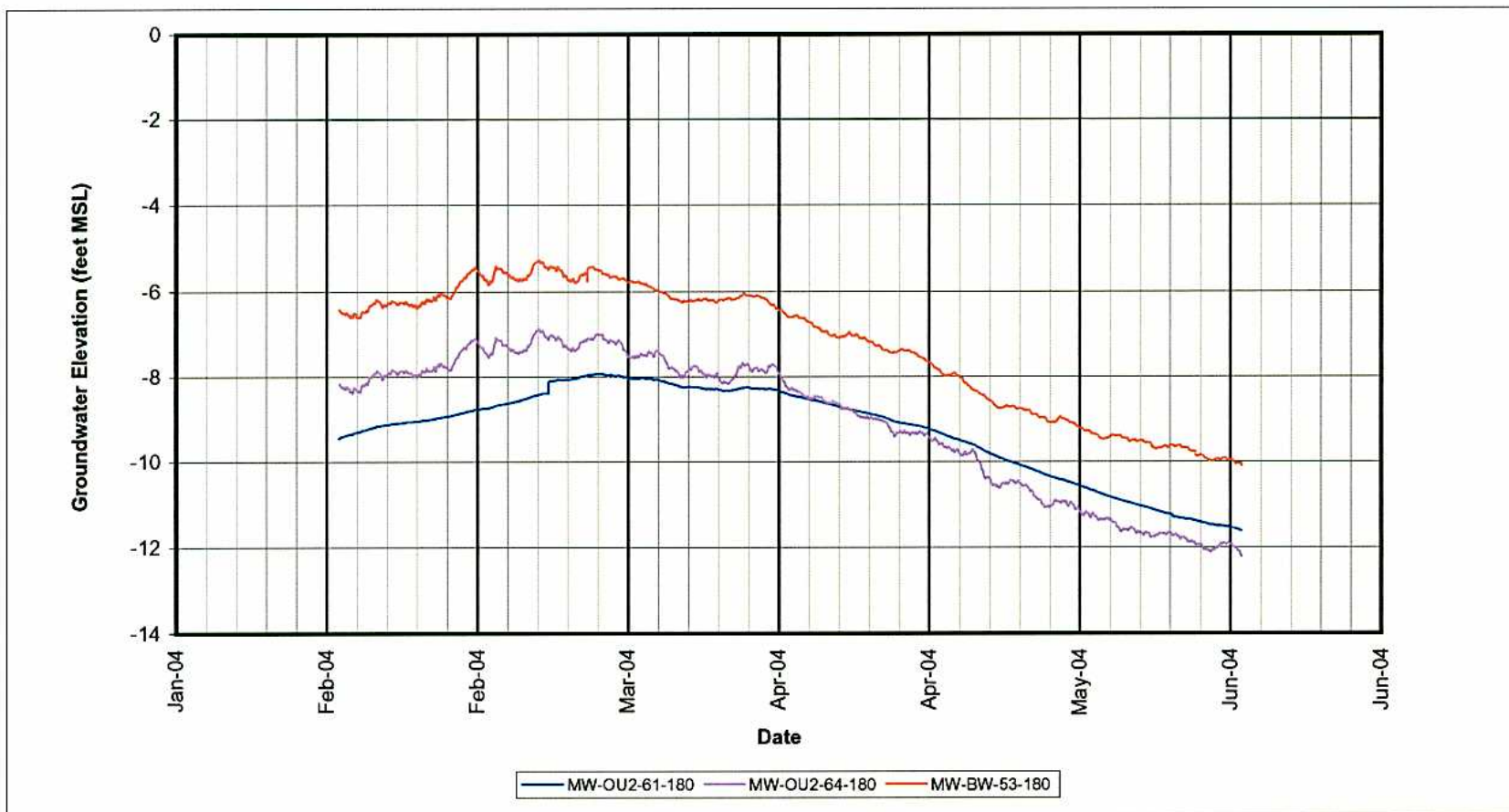
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MDT / am

DATE
 2/05

Revised Date



Upper-180 Foot Aquifer Groundwater Elevation Hydrographs
February 2004 - June 2004
 Operable Unit Carbon Tetrachloride Plume Groundwater RI/FS
 Former Fort Ord, California

FIGURE
E9-4

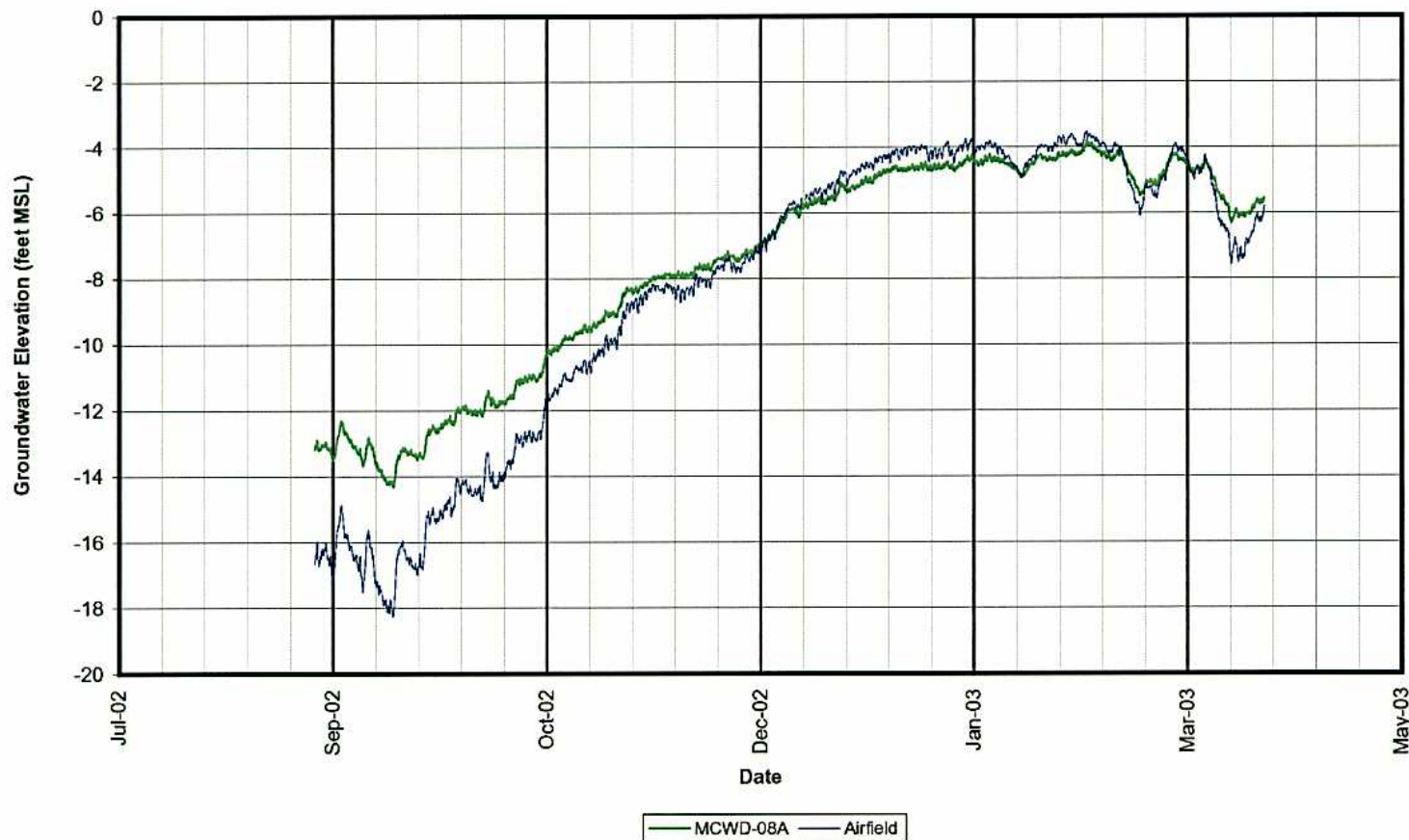
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 55596 001701

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DATE
 1/05

Revised Date



Lower 180-Foot Aquifer Groundwater Elevation Hydrographs
August 2002 - April 2003
 Operable Unit Carbon Tetrachloride Plume Groundwater RI/FS
 Former Fort Ord, California

FIGURE
E9-5

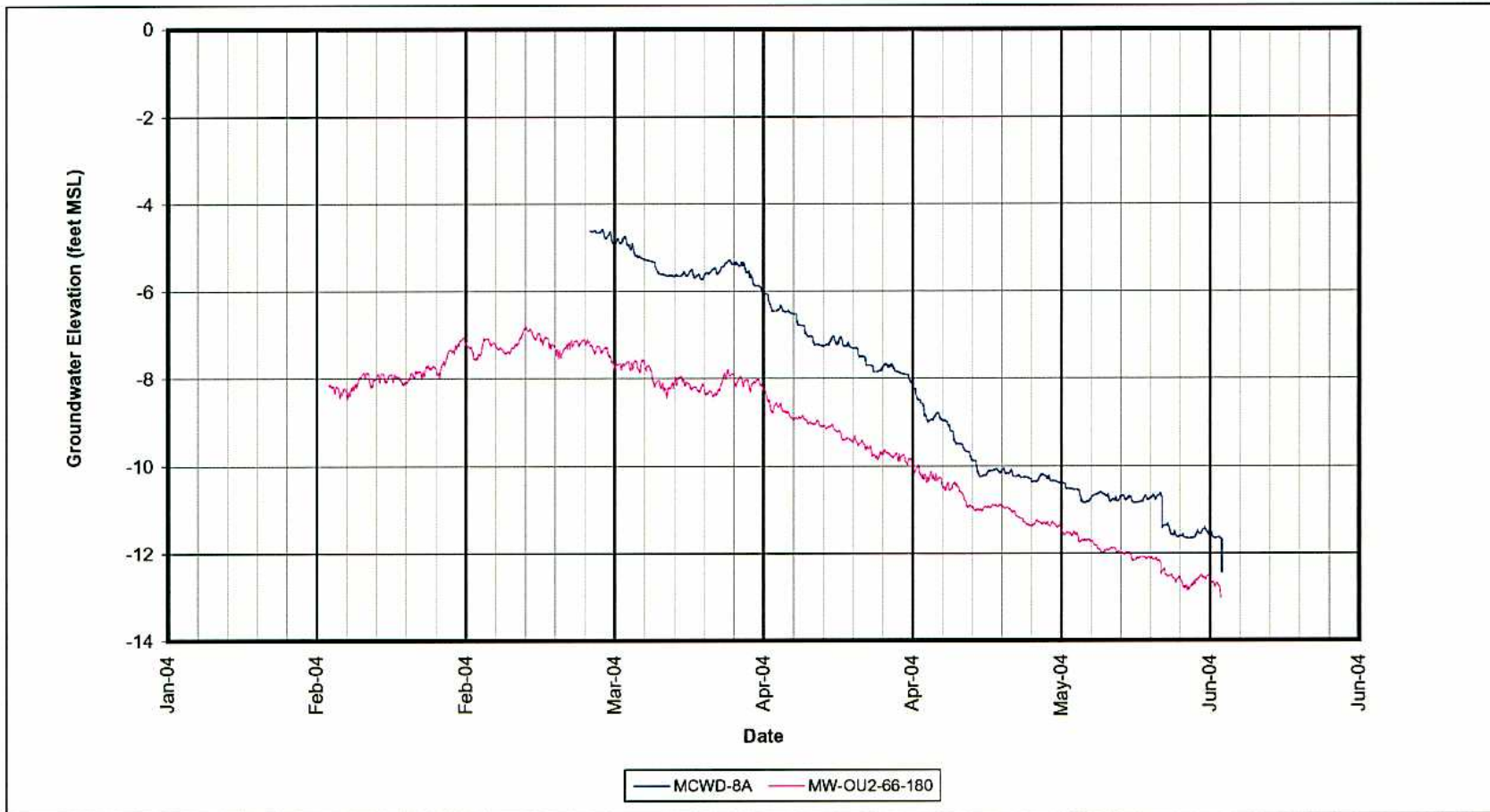
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Date
 1/05

Revised Date



Lower 180-Foot Aquifer Groundwater Elevation Hydrographs
February 2004 - June 2004
 Operable Unit Carbon Tetrachloride Plume Groundwater RI/FS
 Former Fort Ord, California

FIGURE
E9-6

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 CLH

JOB NUMBER
 55596 001701

APPROVED
 MDI/can

Date
 1/05

Revised Date