

APPENDICES

Depth to Water Measurement Data Sheets
Hydrographs
In-Situ Hydraulic Conductivity Test Data
Proposed Monitor Well Schematic

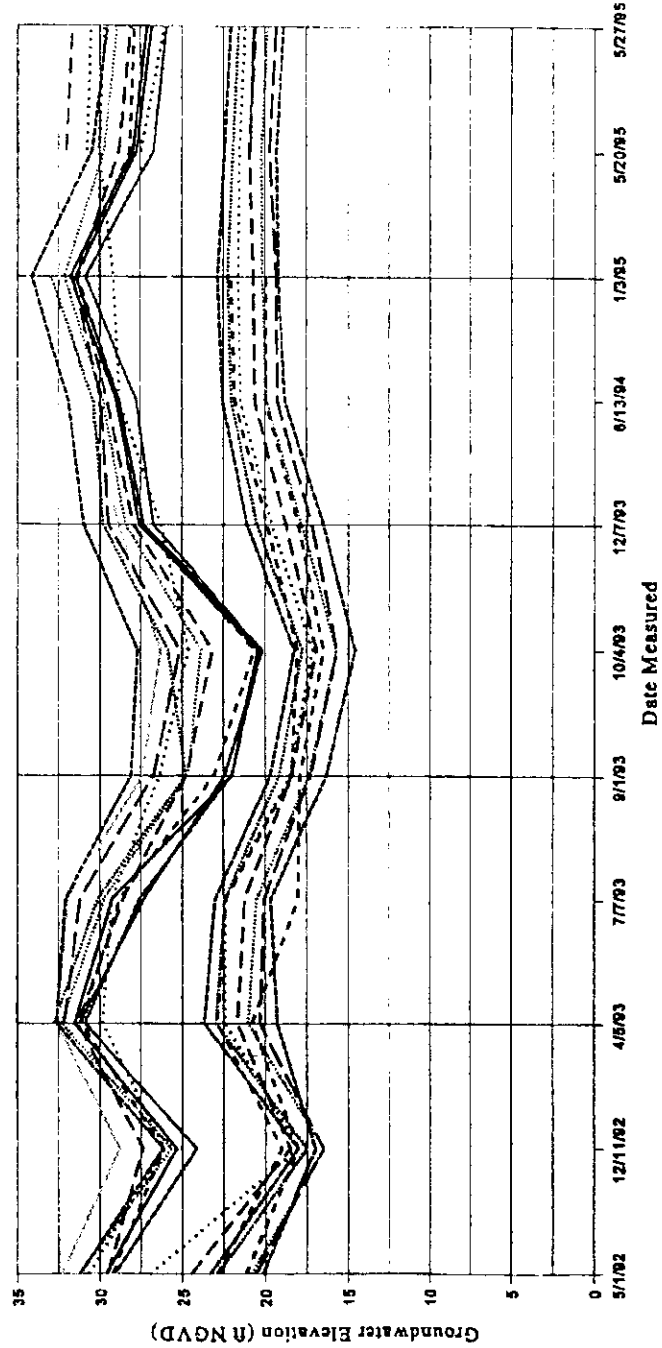
Appendix A
Appendix B
Appendix C
Appendix D

Depth to Water Measurement Data Sheets

Hydrograph

HYDROGRAPH

Coastal Plains RDF



Legend

MW-1A	MW-2A	MW-3A	MW-4A	MW-5A	MW-6A	MW-7A
MW-8A	MW-9A	MW-10	MW-11	P-1A	P-2A	P-3A
MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-6B	MW-7B
MW-8B	MW-9B	P-1B	P-2B	P-3B	P-24B	P-2C
P-24C	P-26C	P-31C				

In-Situ Hydraulic Conductivity Test Data

RUST

Client: WASTE MANAGEMENT

Project No.: 67732.231

Location: ALVIN, TX.

MW-2A FALLING HEAD TEST

DATA SET
A MW2AFH DAT
05/23/95

AQUIFER TYPE
Confined

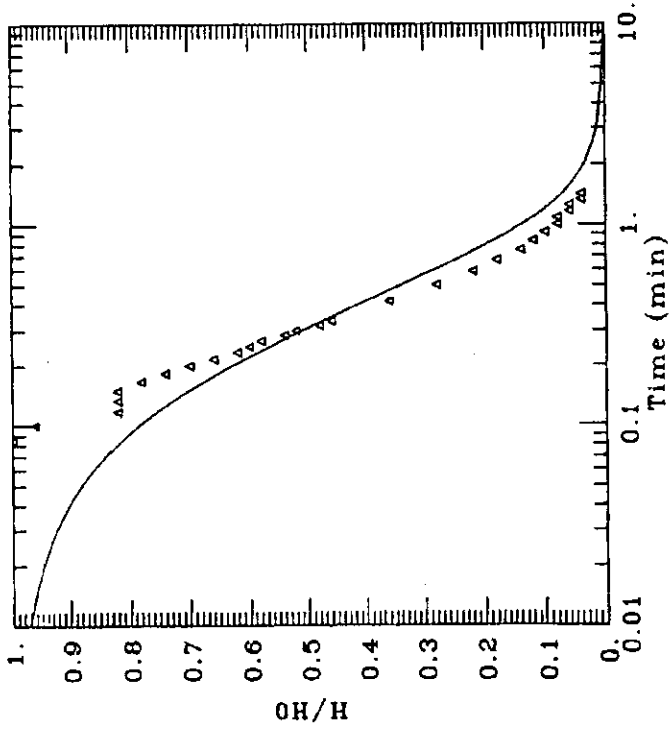
SOLUTION METHOD
Cooper et al

TEST DATE
05/19/95

OBS. WELL
MW-2A

ESTIMATED PARAMETERS
T = 0.2805 ft²/min
S = 1 E-06

TEST DATA
H0 = 0.5 ft
rc = 0.1667 ft
rw = 0.4167 ft



RUST

Client: **WASTE MANAGEMENT**

Project No.: **67732.231**

Location: **ALVIN, TX.**

MW-2A RISING HEAD TEST

DATA SET
A MW2ARH DAT
05/23/95

AQUIFER TYPE
Confined

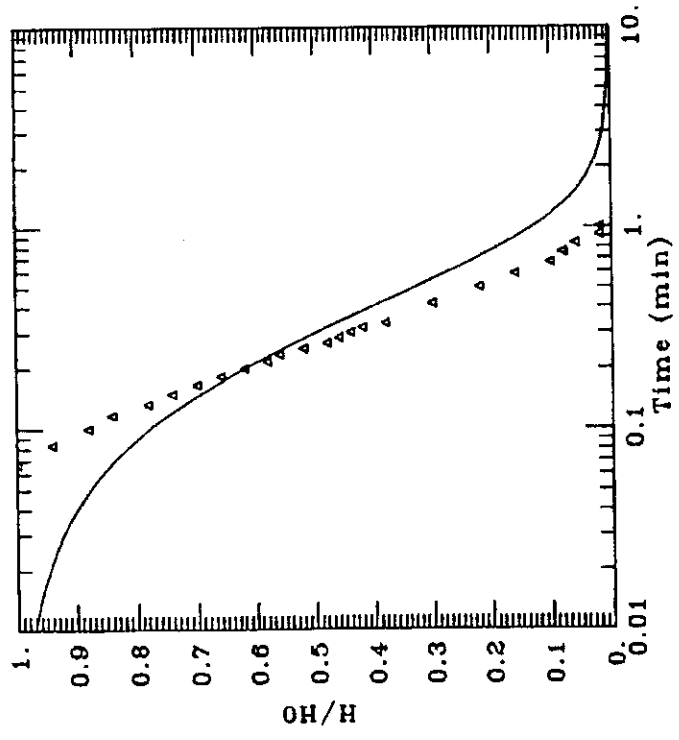
SOLUTION METHOD
Cooper et al

TEST DATE
05/17/95

OBS. WELL
MW-2A

ESTIMATED PARAMETERS
 $T = 0.2903 \text{ ft}^2/\text{min}$
 $S = 1.6 \cdot 10^{-8}$

TEST DATA
 $H_0 = 0.5 \text{ ft}$
 $rc = 0.1667 \text{ ft}$
 $rw = 0.4167 \text{ ft}$



RUST	Client: WASTE MANAGEMENT
Project No.: 67732.231	Location: ALVIN, TX.
MW-2B FALLING HEAD TEST	
DATA SET A:\MW2BFH.DAT 05/23/95	AQUIFER TYPE: Confined SOLUTION METHOD: Cooper et al TEST DATE: 05/19/95 OBS WELL: MW-2B
ESTIMATED PARAMETERS: $T = 0.008206 \text{ ft}^2/\text{min}$ $S = 0.0008259$	TEST DATA: $H_0 = 0.67 \text{ ft}$ $rc = 0.1667 \text{ ft}$ $rw = 0.4167 \text{ ft}$

RUST Client: WASTE MANAGEMENT

Project No. 67732.231

Location: ALVIN, TX.

MW-2B RISING HEAD TEST

DATA SET
A: MW2BRH.DAT
05/23/95

AQUIFER TYPE:
Confined

SOLUTION METHOD:
Cooper et al

TEST DATE:
05/19/95

OBS. WELL:
MW-2B

ESTIMATED PARAMETERS:

T = 0.02529 ft²/min

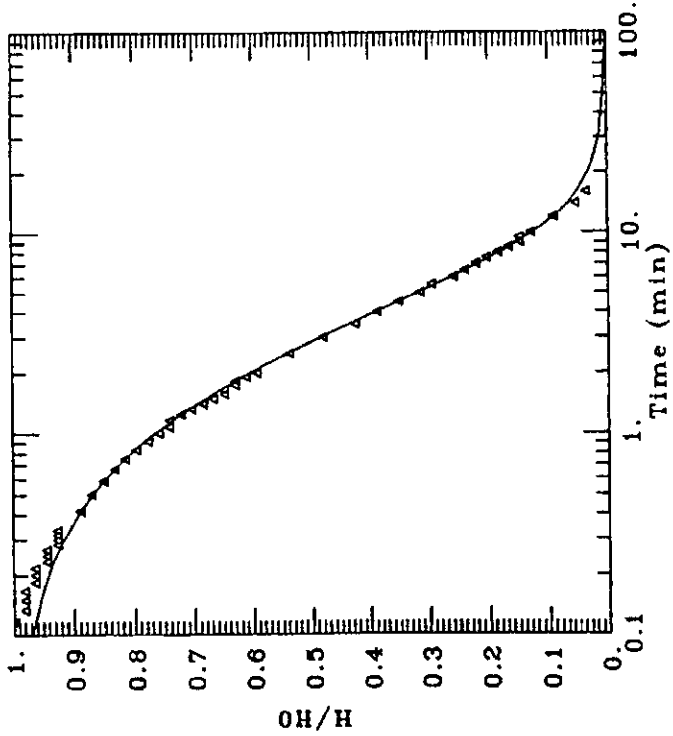
S = 1.6528E-07

TEST DATA:

H0 = 0.54 ft

rc = 0.1667 ft

rw = 0.4167 ft



RUST

Client WASTE MANAGEMENT

Project No.: 67732.231

Location: ALVIN, TX.

MW-6A FALLING HEAD TEST

DATA SET
A: MW6AFH.DAT
05/23/95

AQUIFER TYPE
Confined

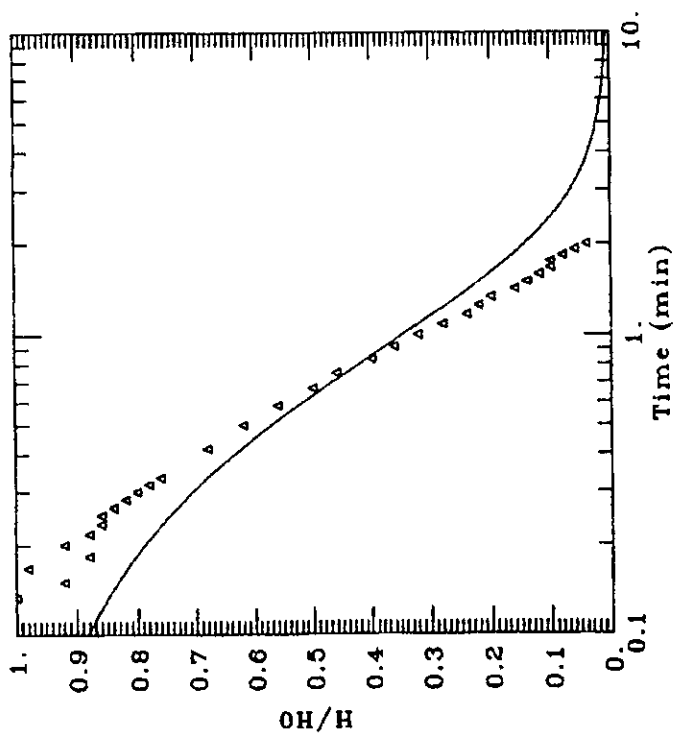
SOLUTION METHOD:
Cooper et al

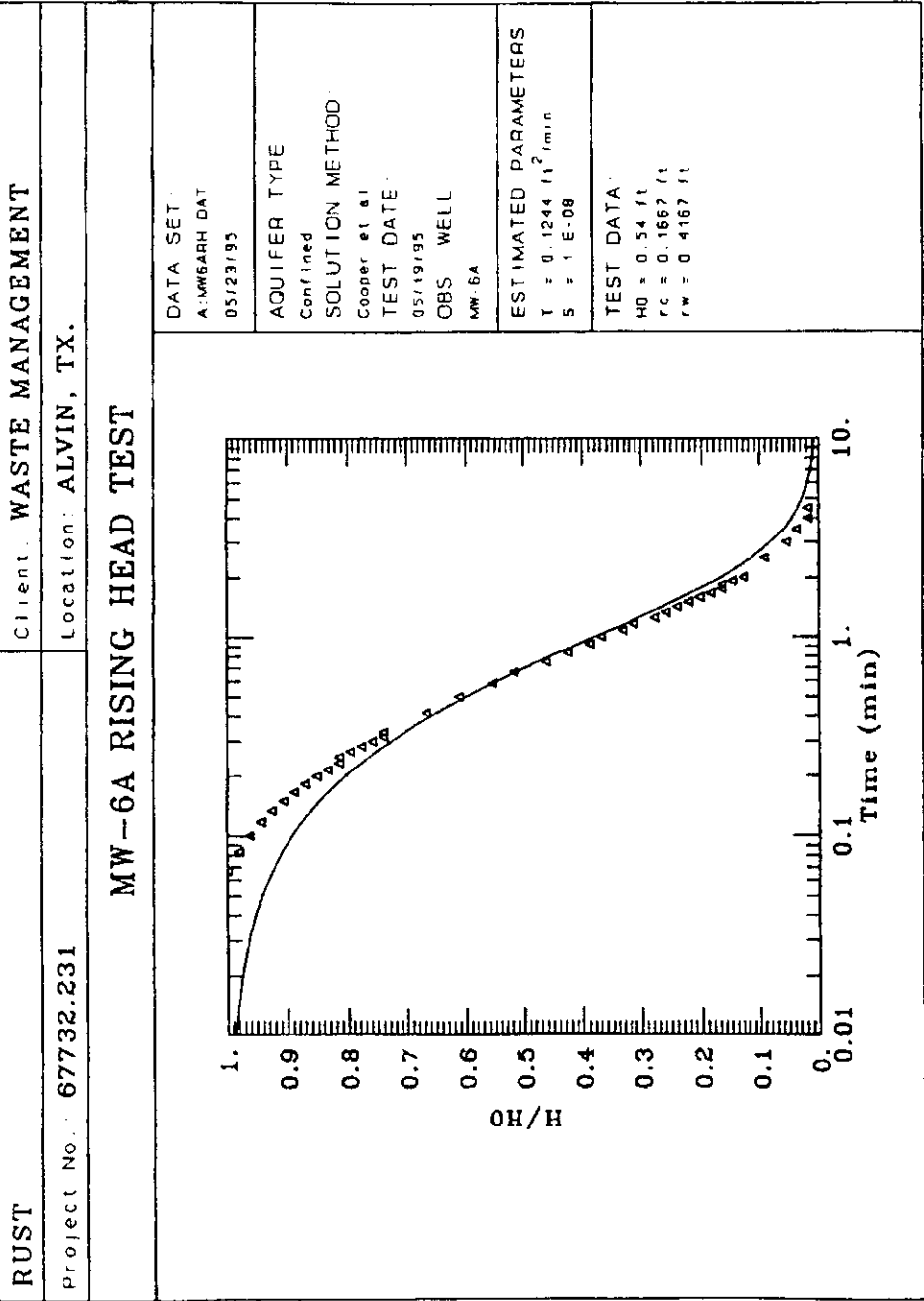
TEST DATE
05/19/95

OBS WELL
MW-6A

ESTIMATED PARAMETERS:
T = 0.1376 ft²/min
S = 1 E-08

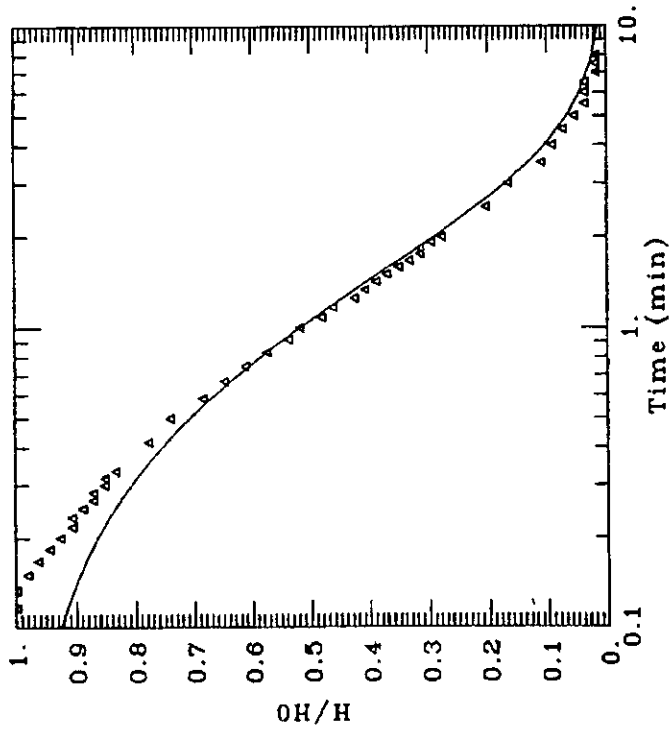
TEST DATA
H0 = 0.5 ft
rc = 0.1667 ft
rw = 0.4167 ft





RUST	Client: WASTE MANAGEMENT
Project No.: 67732.231	Location: ALVIN, TX.
MW-6B FALLING HEAD TEST	
DATA SET: A: MW6BFH.DAT 05/23/95	AQUIFER TYPE: Confined SOLUTION METHOD: Cooper et al TEST DATE: 05/19/95 OBS.: WELL MW-6B
ESTIMATED PARAMETERS $T = 0.08087 \text{ ft}^2/\text{min}$ $S = 1 \text{ E-}08$	TEST DATA: $H_0 = 0.53 \text{ ft}$ $rc = 0.1657 \text{ ft}$ $rw = 0.4157 \text{ ft}$

RUST		Client: WASTE MANAGEMENT	
Project No.: 67732.231		Location: ALVIN, TX.	
MW-6B RISING HEAD TEST			
DATA SET A: MW6BRH.DAT 05/23/95		AQUIFER TYPE Confined SOLUTION METHOD Cooper et al TEST DATE 05/19/95 OBS. WELL MW-6B	
ESTIMATED PARAMETERS $T = 0.08174 \text{ ft}^2/\text{min}$ $S = 1 \text{ E-08}$		TEST DATA $h_0 = 0.54 \text{ ft}$ $rc = 0.1667 \text{ ft}$ $rw = 0.4167 \text{ ft}$	



RUST Client: **WASTE MANAGEMENT**
 Project No.: **67732.231** Location: **ALVIN, TX.**

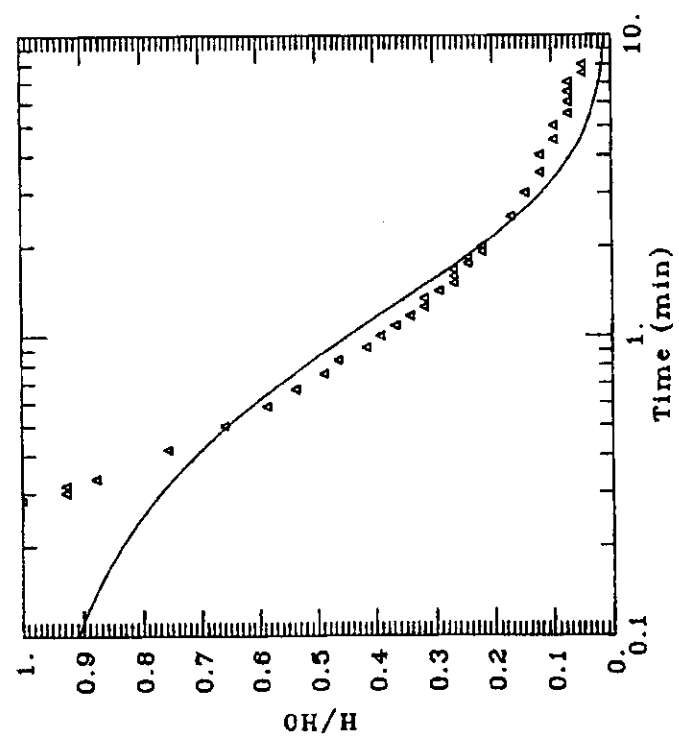
MW-8A FALLING HEAD TEST

DATA SET
 A MW8ATH DAT
 05/23/95

AQUIFER TYPE
 Confined
SOLUTION METHOD
 Cooper et al.
TEST DATE:
 05/20/95
OBS WELL
 MW-8A

ESTIMATED PARAMETERS
 T = 0.1021 ft²/min
 S = 1 E-08

TEST DATA
 H0 = 0.41 ft
 rC = 0.1662 ft
 rW = 0.4167 ft



RUST

Client: WASTE MANAGEMENT

Project No.: 67732.231

Location: ALVIN, TX.

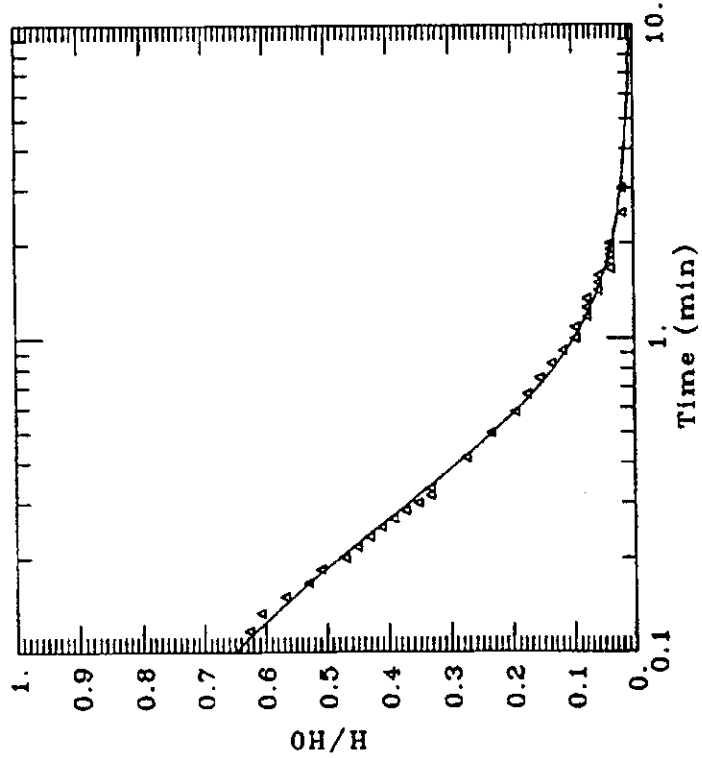
MW-8A RISING HEAD TEST

DATA SET:
d:\mw8a\h.dat
05/24/95

AQUIFER TYPE:
Confined
SOLUTION METHOD:
Cooper et al
TEST DATE:
05/20/95
OBS.: WELL
MW-8A

ESTIMATED PARAMETERS:
 $T = 0.15 \text{ ft}^2/\text{min}$
 $S = 0.0007781$

TEST DATA:
 $H_0 = 0.51 \text{ ft}$
 $rC = 0.1667 \text{ ft}$
 $rW = 0.4167 \text{ ft}$



RUST Client: WASTE MANAGEMENT

Project No.: 67732.231 Location: ALVIN, TX.

MW-8B FALLING HEAD TEST

DATA SET:

a:\mw8b\fh.dat
05/23/95

AQUIFER TYPE:

Confined

SOLUTION METHOD:

Cooper et al

TEST DATE:

05/20/95

OBS.: WELL

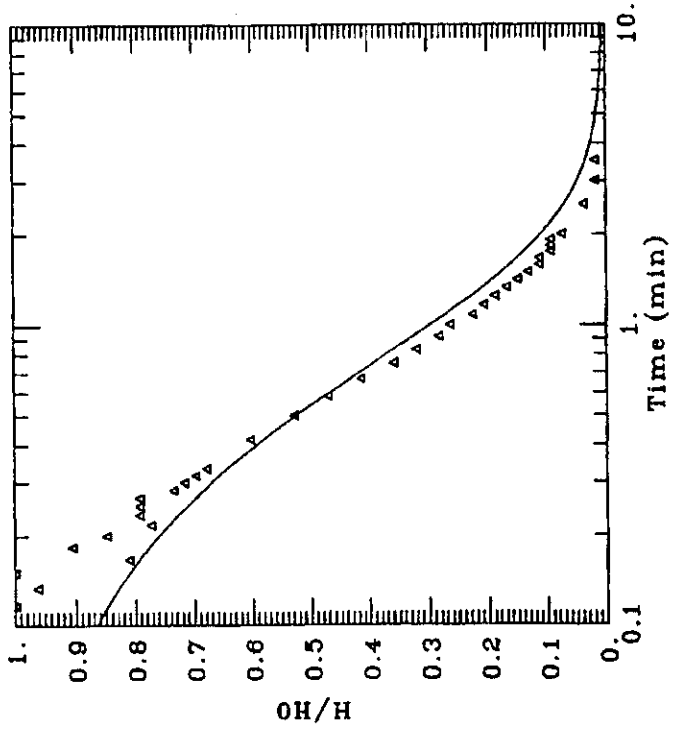
MW-8B

ESTIMATED PARAMETERS

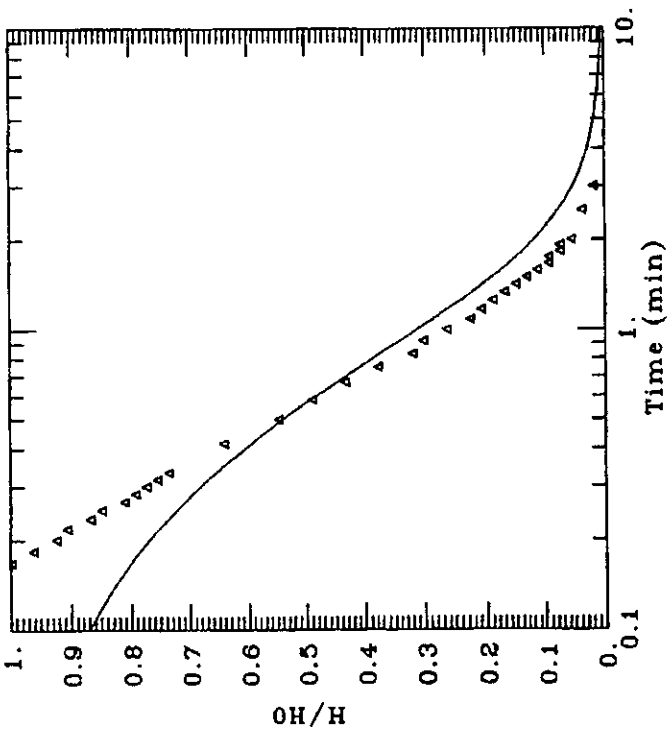
T = 0.1597 ft²/min
S = 1 E-08

TEST DATA

H0 = 0.93 ft
rc = 0.1667 ft
rw = 0.4167 ft



RUST		Client: WASTE MANAGEMENT	
Project No.: 67732.231		Location: ALVIN, TX.	
MW-8B RISING HEAD TEST			
DATA SET:		A MW8BRH DAT 05/23/95	
AQUIFER TYPE:		Confined	
SOLUTION METHOD:		Copper dilution	
TEST DATE:		05/20/95	
OBS. WELL:		MW-8B	
ESTIMATED PARAMETERS		$T = 0.1525 \text{ ft}^2/\text{min}$ $S = 1 \text{ E-08}$	
TEST DATA:		$H_0 = 0.53 \text{ ft}$ $r_c = 0.1667 \text{ ft}$ $r_w = 0.4167 \text{ ft}$	



RUST

Project No.: 67732.231

Client: WASTE MANAGEMENT

Location: ALVIN, TX.

MW-10 FALLING HEAD TEST

DATA SET
A: MW10FH.DAT
05/23/95

AQUIFER TYPE
Confined

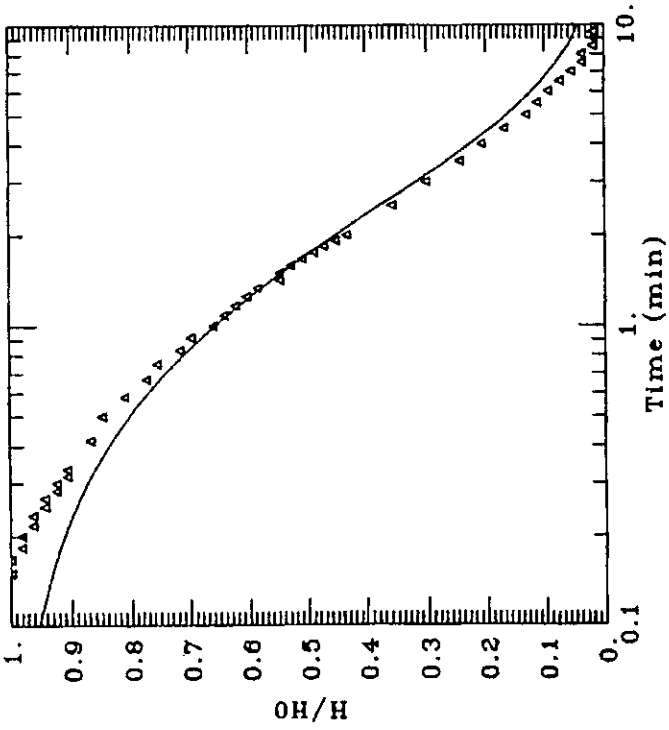
SOLUTION METHOD
Cooper et al.

TEST DATE
05/19/95

OBS WELL
MW-10

ESTIMATED PARAMETERS
T = 0.05022 ft²/min
S = 1.6E-08

TEST DATA
H0 = 0.53 ft
rc = 0.1667 ft
rw = 0.4167 ft



RUST Client: WASTE MANAGEMENT

Project No.: 67732.231 Location: ALVIN, TX.

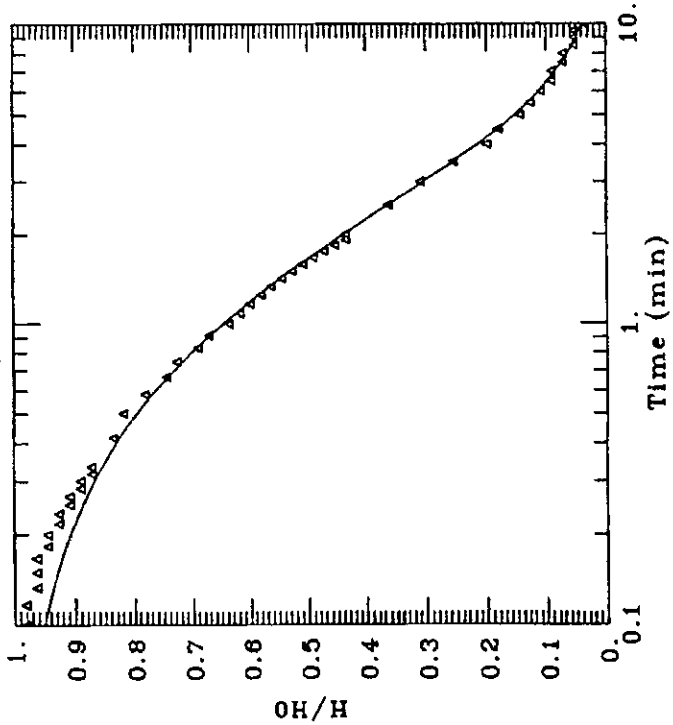
MW-10 RISING HEAD TEST

DATA SET:
A-MW10RH DAT
05/23/95

AQUIFER TYPE
Confined
SOLUTION METHOD:
Cooper et al
TEST DATE:
05/19/95
OBS WELL
MW-10

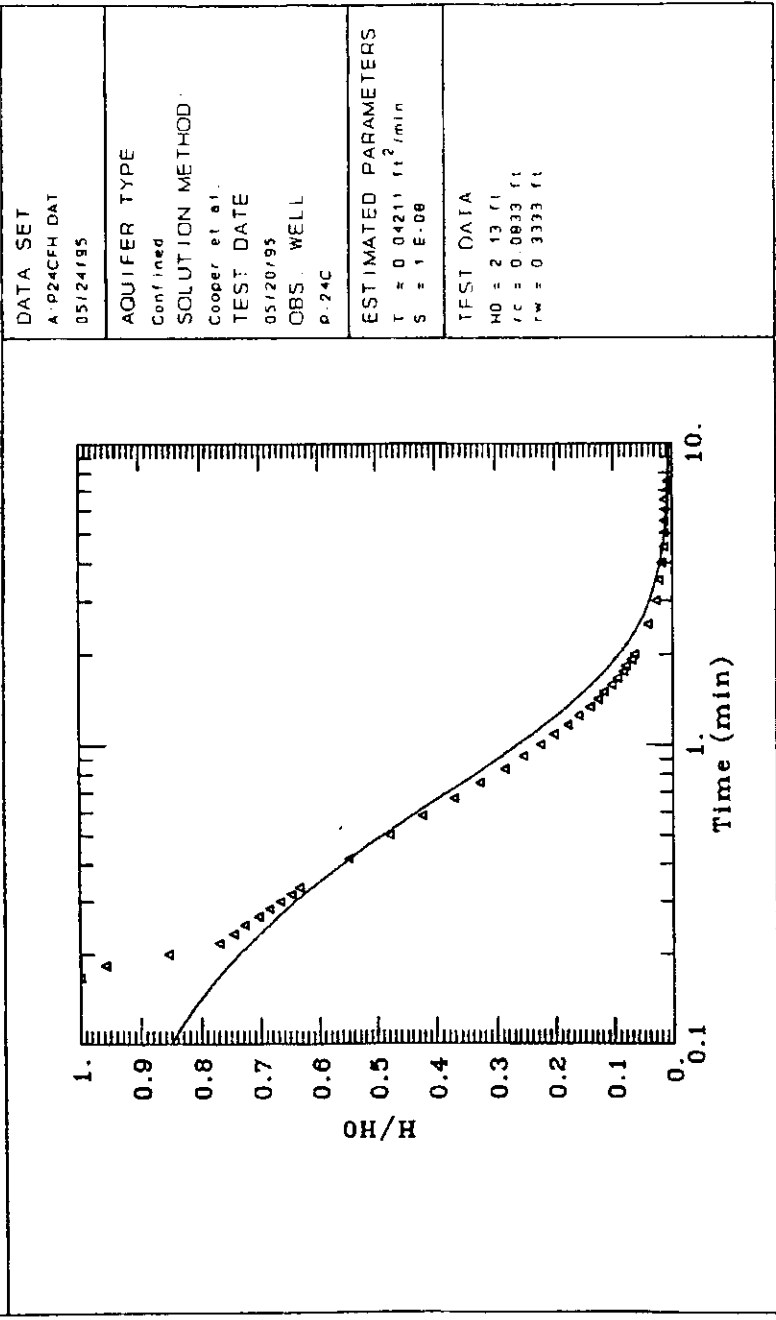
ESTIMATED PARAMETERS
 $T = 0.05232 \text{ ft}^2/\text{min}$
 $S = 1 \text{ E-}08$

TEST DATA
 $H0 = 0.55 \text{ ft}$
 $rc = 0.1667 \text{ ft}$
 $rw = 0.4167 \text{ ft}$



RUST Client: **WASTE MANAGEMENT**
 Project No.: **67732.231** Location: **ALVIN, TX.**

P-24C FALLING HEAD TEST



DATA SET
 A: P24CFH DAT
 05/24/95

AQUIFER TYPE
 Confined

SOLUTION METHOD:
 Cooper et al.

TEST DATE
 05/20/95

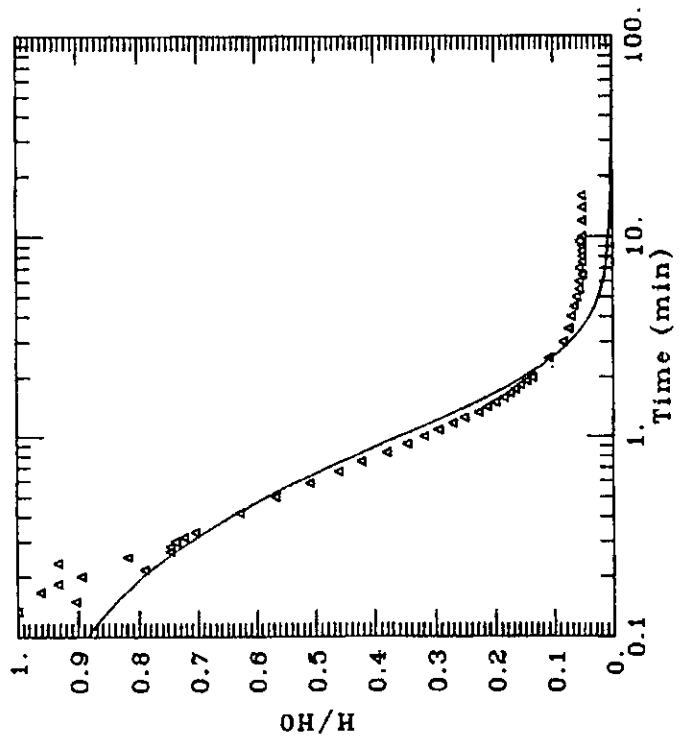
OBS. WELL
 P-24C

ESTIMATED PARAMETERS
 T = 0.04211 ft²/min
 S = 1 E-08

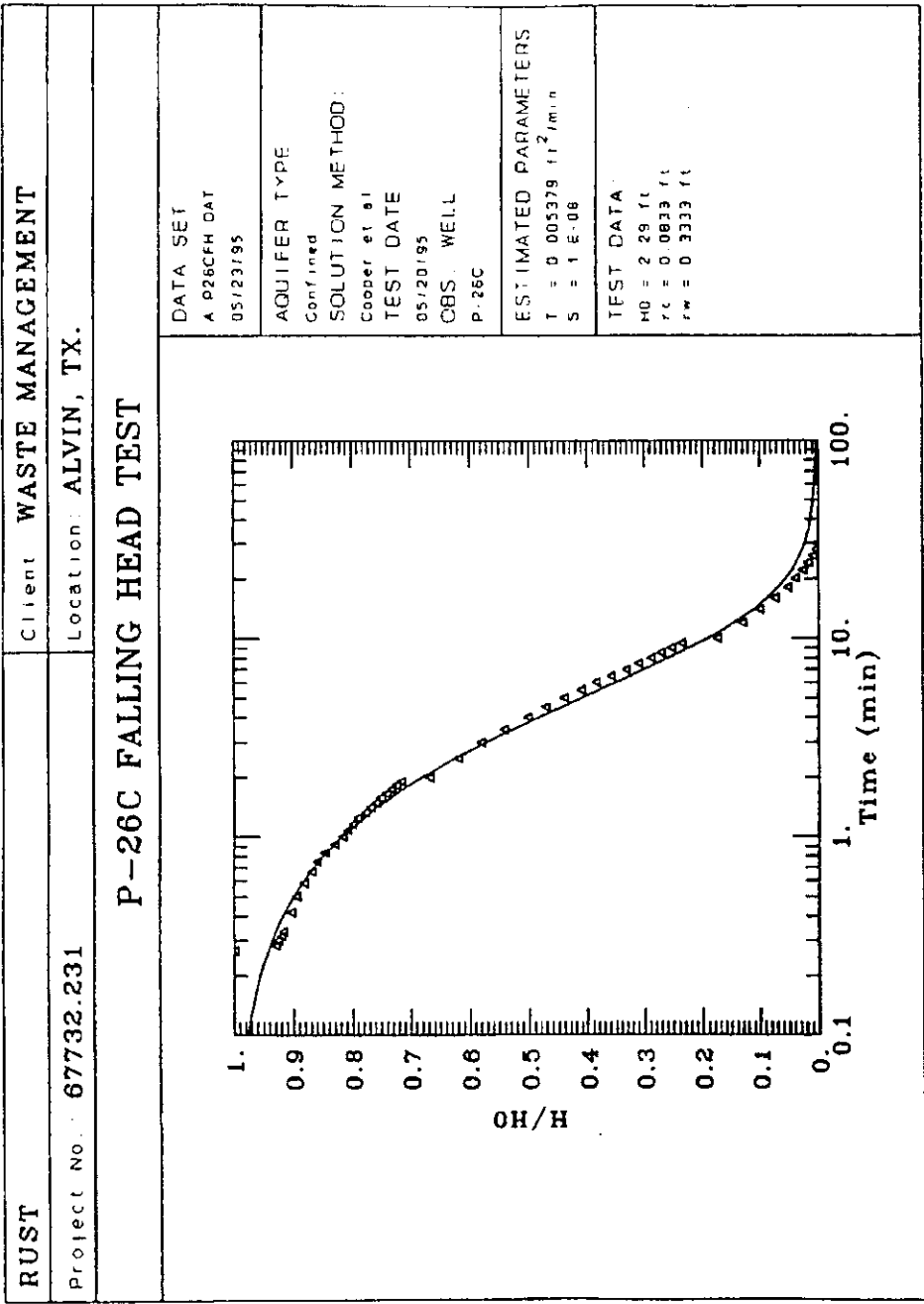
TEST DATA
 H0 = 2.13 ft
 rC = 0.0833 ft
 rw = 0.3333 ft

RUST		Client: WASTE MANAGEMENT	
Project No.: 67732.231		Location: ALVIN, TX.	
P-24C RISING HEAD TEST			
DATA SET A-P24CRH DAT 05/24/95		AQUIFER TYPE Confined SOLUTION METHOD: Cooper et al TEST DATE: 05/20/95 OBS. WELL: P-24C	
ESTIMATED PARAMETERS: $T = 0.04 \text{ ft}^2/\text{min}$ $S = 1 \text{ E-}08$		TEST DATA $H_0 = 2.06 \text{ ft}$ $r_c = 0.0033 \text{ ft}$ $r_w = 0.3333 \text{ ft}$	

RUST		Client: WASTE MANAGEMENT	
Project No.: 67732.231		Location: ALVIN, TX.	
P-24B FALLING HEAD TEST			
DATA SET:		AQUIFER TYPE:	
A P24BFH DAT		Confined	
05/24/95		SOLUTION METHOD:	
		Cooper et al	
TEST DATE:		OBS WELL:	
05/19/95		P-24B	
ESTIMATED PARAMETERS:		TEST DATA:	
T = 0.03125 ft ² /min		H0 = 2.1 ft	
S = 1 E-08		rc = 0.0833 ft	
		rw = 0.3333 ft	



RUST	Client WASTE MANAGEMENT
Project No : 67732.231	Location: ALVIN, TX.
P-24B RISING HEAD TEST	
DATA SET A P24BRH DAT 05/24/95	AQUIFER TYPE Confined SOLUTION METHOD Cooper et al TEST DATE 05/19/95 OBS WELL P-24B
ESTIMATED PARAMETERS $T = 0.03366 \text{ ft}^2/\text{min}$ $S = 1.6 \cdot 10^{-8}$	TEST DATA $H_0 = 2.01 \text{ ft}$ $rc = 0.0833 \text{ ft}$ $r_w = 0.3333 \text{ ft}$
<p style="text-align: center;">OH/H</p> <p style="text-align: right;">Time (min)</p>	



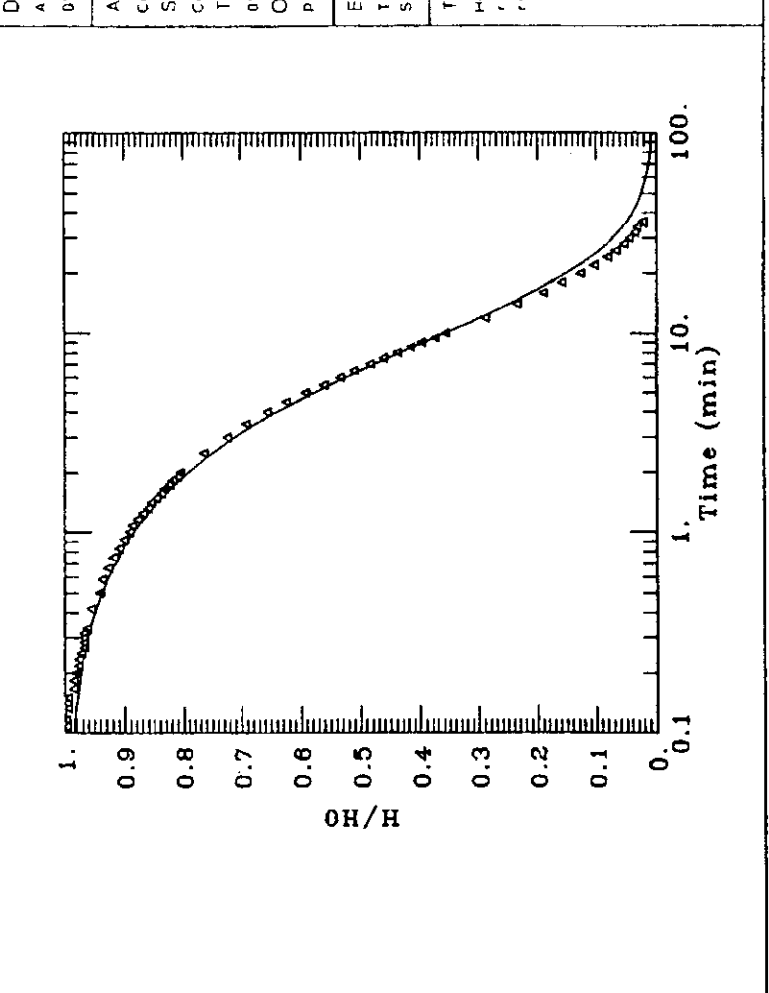
RUST

Project No.: 67732.231

Client: WASTE MANAGEMENT

Location: ALVIN, TX.

P-26C RISING HEAD TEST



DATA SET

A: P26CRH DAT

05/24/95

AQUIFER TYPE

Confined

SOLUTION METHOD

Cooper et al

TEST DATE

05/20/95

OBS WELL

P-26C

ESTIMATED PARAMETERS

T = 0.003154 ft²/min

S = 1.6E-08

TEST DATA

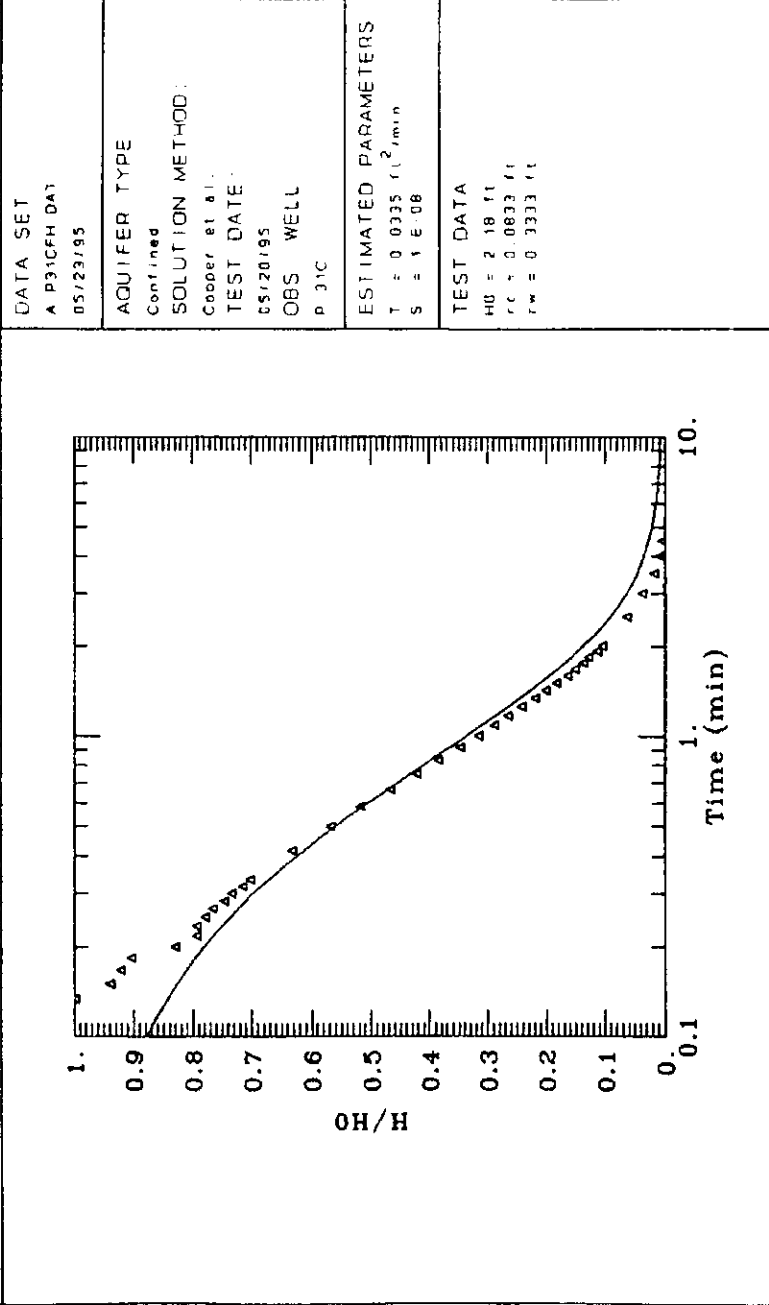
H0 = 2.21 ft

rc = 0.0803 ft

rw = 0.3333 ft

RUST Client **WASTE MANAGEMENT**
 Project No. **67732.231** Location: **ALVIN, TX.**

P-31C FALLING HEAD TEST



DATA SET
 A P31CFH DAT
 05/23/95

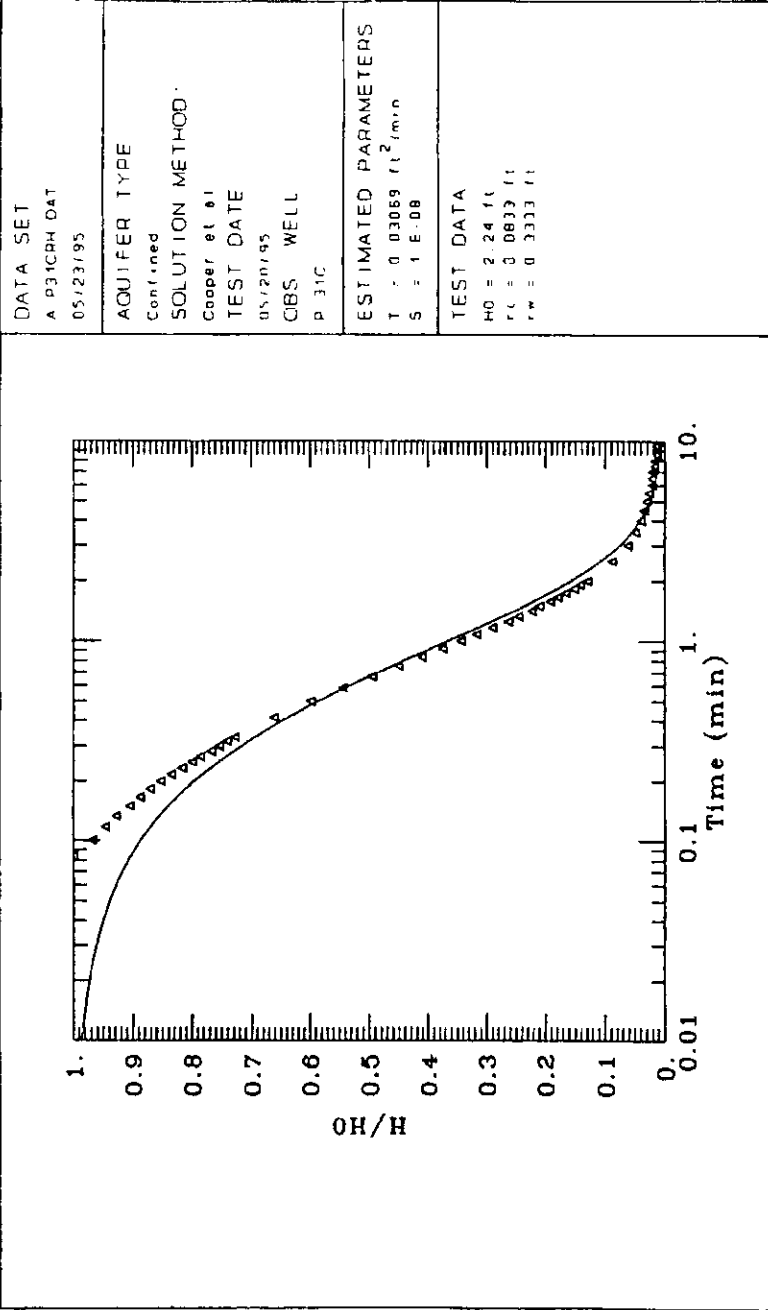
AQUIFER TYPE
 Confined
 SOLUTION METHOD:
 Cooper et al.
 TEST DATE:
 05/20/95
 OBS WELL
 P 31C

ESTIMATED PARAMETERS
 $T = 0.0335 \text{ ft}^2/\text{min}$
 $S = 1.6 \times 10^{-6}$

TEST DATA
 $H_0 = 2.18 \text{ ft}$
 $r_c = 0.0833 \text{ ft}$
 $r_w = 0.3333 \text{ ft}$

RUST	Client: WASTE MANAGEMENT
Project No: 67732.231	Location: ALVIN, TX.

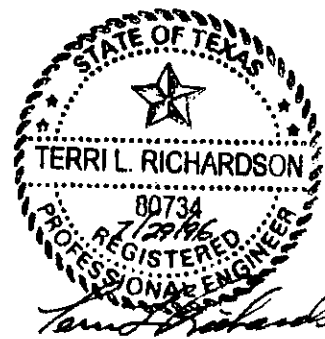
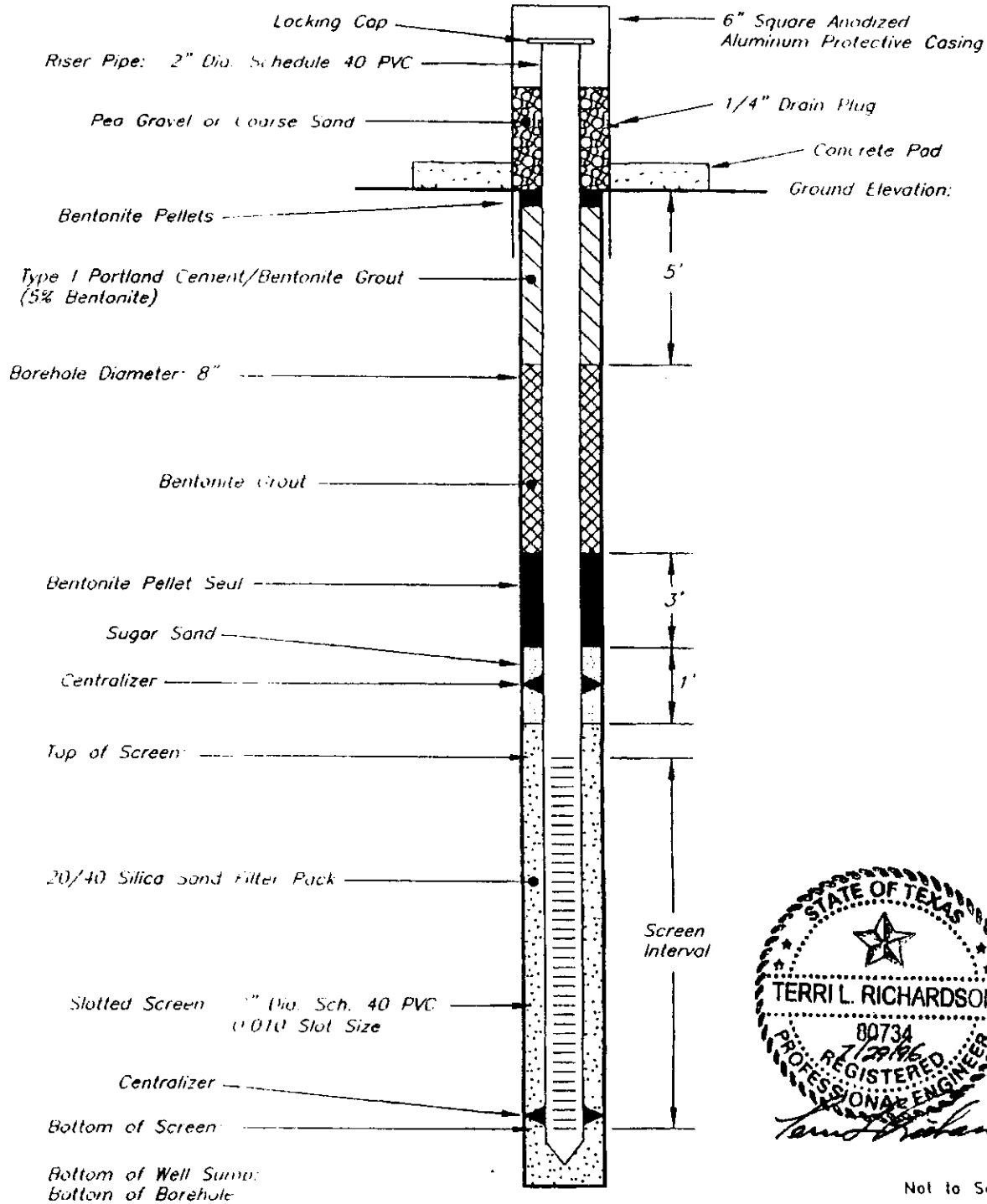
P-31C RISING HEAD TEST



DATA SET A P31CPH.DAT 05/23/95	AQUIFER TYPE Confined
SOLUTION METHOD Cooper et al TEST DATE 05/20/95 CBS WELL P 31C	ESTIMATED PARAMETERS T = 0.03069 ft ² /min S = 1 E-08
TEST DATA H ₀ = 2.24 ft r _c = 0.0833 ft r _w = 0.3333 ft	

Proposed Monitor Well Schematic

22A01.DWG DATE: 06-25-96 TIME: 12:28 p.m. PARS NO 68522.1.



Not to Scale

Notes:

- 1) Elevations referenced to National Geographic Vertical Datum (NGVD).
- 2) Depths are referenced to feet below ground surface.

ISSUED FOR PERMITTING PURPOSES ONLY
NOT INTENDED FOR CONSTRUCTION OR
BIDDING PURPOSES

RUST ENVIRONMENT & INFRASTRUCTURE

**PROPOSED MONITOR
WELL SCHEMATIC**

D
APPENDIX

DRAWING

58522 100
58522A01
6/13/96



**WASTE MANAGEMENT
OF TEXAS, INC.**
Client

**COASTAL PLAINS
RECYCLING & DISPOSAL FACILITY
ALVIN, TEXAS**
Project Title