



EDWARDS UNDERGROUND
WATER DISTRICT

Report 93-12

**LEAK DETECTION / LOCATION SURVEY REPORT
FOR
GREEN VALLEY SPECIAL UTILITY DISTRICT**

May 12, 1993 - October 29, 1993



**EDWARDS UNDERGROUND
WATER DISTRICT**

6.25-7.5

December 20, 1993

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Ms. Dorothy Mills
General Manager
Green Valley Special Utility District
P. O. Box 188
Marion, Texas 78124

Dear Ms. Mills:

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GENERAL MANAGER

We are pleased to submit this final report of the leak detection survey performed on the Green Valley Special Utility District water system. A summary of findings is reported in separate categories for your convenience.

The Edwards Underground Water District (District) appreciates the cooperation and assistance you have provided during the leak detection survey. Special thanks to Mr. Monroe Zuehl, Jr. for his attention and patience during the survey. The District hopes that the information provided herein will be beneficial to the Green Valley Special Utility District in identifying and targeting areas of water loss and potential loss.

The Edwards Underground Water District would appreciate the opportunity to recheck the remaining leak site after it is repaired.

This survey has demonstrated the water saving potential of the Leak Detection/Location Program. Maintaining the best possible program is vital in order to continue the successes that have been realized. For this reason, the District is soliciting your comments, both positive and negative, and any suggestions you may have on how to improve our program.

Please respond to this request candidly, as the District cannot improve on deficiencies or support positive measures without the knowledge of such conditions.

Ms. Dorothy Mills
December 20, 1993 - Page 2

Enclosed is a water audit form. The District requests that this form be completed and returned to the District six months after all detected leaks have been repaired. This information will assist the District in our continued assessment of the Leak Detection Program.

Should you require additional information regarding this report or have any water related questions, please do not hesitate to call.

Sincerely,



Charles E. Ahrens
Water Resources Planner III



James R. Shipley
Leak Detection Technician II

CEA:JRS/bmc
Enclosures

001jrs

EDWARDS UNDERGROUND
WATER DISTRICT

**LEAK DETECTION/LOCATION SURVEY REPORT
FOR
GREEN VALLEY SPECIAL UTILITY DISTRICT**

MAY 12, 1993 - OCTOBER 29, 1993

PREPARED BY:

**Division of Planning and Environmental Management
Leak Detection Program**

November, 1993

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- O. Valves, Main, and Fire Hydrants Added to Plats

ENCLOSURES TO REPORT

- A. Revised Master Water System Distribution Plats
- B. Blank Follow-up Water Audit Forms

SUMMARY

On August 9, 1991, the Edwards Underground Water District (EUWD) received a completed application form from the Green Valley Special Utility District (GVSUD) requesting a leak detection/location survey on its water distribution system. A pre-survey conference was held March 31, 1993 at the GVSUD office to discuss the work to be performed. It was agreed that EUWD would perform sonic leak detection on all available access points, computerized leak location as needed, record any unusual system conditions found, and submit to the District a revised master water plat with the final report.

John E. Gapinski of EUWD began the survey on May 12, 1993, and the survey was concluded on October 29, 1993. Over the course of the survey, EUWD staff surveyed a total of 6,370 access points including 4,742 customer service connections, 129 fire hydrants, 1,233 main line valves, and 266 other access points covering 337.12 miles of distribution mains. Computer leak sound correlation was performed on two locations.

EUWD technicians detected a total of 337 leaks. This total included 27 meter box leaks, 2 fire hydrant leaks, 26 service line leaks, 20 main leaks, 19 valve leaks, and 243 customer side leaks. EUWD staff estimates 189,813 gallons of water per day has been saved by the repair of 93 detected leaks as of October 29, 1993. The leaks discovered during the survey range from 27,648 gallons per day to numerous small meter box leaks.

As part of the survey, EUWD staff located 25 main line valves, 2 fire hydrants, and .40 miles of distribution main not shown on the master water plats. EUWD staff was unable to locate 35 main line valves and 82 customer service connections. An additional 22 valve stacks need cleaning and/or repair.

JRS/bmc
001jrs

DISCUSSION

- A. Total Access Points Surveyed..... 6,370

The following number of access points were used during the survey:

1. Customer service connections: 4,742
2. Main Valves: 1,233
3. Fire Hydrants: 129
4. Others: 266

- B. Total Miles of Distribution Main Surveyed..... 337.12

- C. Total Number of Suspected Leak Sounds Rechecked..... 150

- D. Total Leaks Detected..... 337

Main line, service line, fire hydrant, and valve leaks were located by computer correlation of leak sounds or by visual inspection. Meter box leaks and customer side leaks were located through house to house surveying.

- E. Total Estimated Water Saved by Repair of Detected Leaks in Gallons per day as of December 15, 1993..... 189,813 GPD

Leakage estimates for main line, service line, fire hydrants, and valve leaks are based on hole size and system pressure in P.S.I.. This information was furnished by Green Valley personnel when EUWD was not on site at the time of repair. Totals are only recorded for leaks repaired as of December 15, 1993, with leakage estimates.

Main line leaks were located by computer correlation of leak sounds. Valve, fire hydrant, and meter box leaks were located through access points to access point surveying.

1. Meter Box Leaks..... 27

Leakage estimates of repaired leaks..... 1,829 GPD
Leaks repaired..... 27

A list of these leaks is included in Appendix A.

2. Fire Hydrant Leaks..... 2

Some fire hydrants may be reseated by flushing, others will need repair or replacement.

Leakage estimate of repaired hydrants..... 360 GPD
Leaking hydrants to be repaired..... 1

A list of these fire hydrants is included in Appendix B.

3.	Service Line Leaks.....	26
	Leakage estimates of repaired services.....	43,354 GPD
	Service leaks repaired.....	26
	A list of service leaks is included in Appendix C.	
4.	Main Line Leaks.....	20
	Leakage estimates of repaired mains.....	132,350 GPD
	Main leaks repaired.....	20
	A list of main line leaks is included in Appendix D.	
5.	Main Valve Leaks.....	19
	Leakage estimates of repaired leaks.....	11,920 GPD
	Valve leaks repaired.....	19
	A list of these leaks is included in Appendix E.	
6.	Customer Side Leaks.....	243
	Customer side leaks were generally small. EUWD was unable to estimate this leakage. Customers were notified by door tag or in person when possible or will be notified by Green Valley personnel.	
	A list of these leaks is included in Appendix F.	

F. General Maintenance Needed

1.	Valve Stacks Needing Repair.....	13
	The majority of these valve stacks need to be raised to grade.	
	A list of these stacks is included in Appendix G.	
2.	Valve Stacks Needing Cleaning.....	9
	The condition of these valve stacks make them unusable at this time.	
	A list of these stacks is included in Appendix H.	
3.	Meter Boxes Needing Cleaning.....	1
	I. A-11B #2392 Boenig Drive	
4.	Boxes or Lids Needing Replacement.....	46
	I. Valve Box or Lids.....	8
	II. Meter Box or Lids.....	38
	A list of these addresses is included in Appendices I and J.	

5. General Repair Needed

I. Main Line Valves Not Holding.....	5
II. Curb Stops Needing Repair.....	7
III. Meter Box Raise to Grade.....	1
IV. Main Marker Signs Needed.....	4
V. Valve Repair Needed.....	1
VI. Services or Main Exposed.....	2
VII. Fire Hydrants Needing Repair.....	1

A list of these addresses is included in Appendix K.

6. Valves That Could Not Be Located..... 35

I. Main Valves.....	18
II. Service Valves.....	6
III. Air Relief Valves.....	6
IV. Flush Valves.....	5

Suspected locations were surveyed by EUWD with a ferromagnetic detector to locate buried main valves. When successful, these locations were marked. It is conceivable that additional valves remain unlocated within the system. All valve box lids located were painted blue.

A list of these valves is included in Appendix L.

7. Services that could not be surveyed..... 82

Various reasons prevented the surveying of these services: locked gates, dogs, under piles of trash or brush, under parked vehicles, or unable to locate, etc.

A list of these services is included in Appendix M.

The EUWD technicians consider the conditions recorded in discussion section F of this report to be normal system wear and tear. Most of these conditions are beyond the control of the utility. Street resurfacing, adjustment of street or right-of-way grades, heavy rains, customer and plumbers operating curb stops, etc. The consensus of the EUWD technicians is the overall operation and maintenance of the Green Valley system is excellent.

G. Survey Findings Vs. Master Water Plats

1. Fire hydrants, valves, and feet of distribution system main located but not shown on water plats

I. Service Connections.....	51
II. Air Relief Valves.....	8
III. Main Valves.....	15
IV. Fire Hydrants.....	3
V. Pressure Regulating Valves.....	1
VI. Flush Valves.....	1
VII. Main Footage.....	2,100'

A list of these items is included in Appendices N and O.

H. Abbreviations Used on Revised Master Plats:

UTL - Unable to Locate
UTS - Unable to Survey
NC - Needs Cleaning
RTG - Raise to Grade
CCNH - Curb Cock not Holding
FHWV - Fire Hydrant with Valve
FH - Fire Hydrant Without Valve
ARV - Air Relief Valve
PCV - Pressure Control Valve
NO - Curb Stop Not Open Completely

All mains were surveyed from all available access points. When the spacing of access points was too great to survey properly, a ground microphone was used in combination.

All valves located were surveyed. When direct contact could not be made on a valve, a probe rod was used.

Fire hydrants labeled on the plat as fire hydrants without lead valves are hydrants where the lead valve could not be located or does not exist.

Any item circled on the plat indicates that it was added, could not be located, or needs repair.

All mains, fire hydrants, water services, blow-offs, and main line valves hand drawn on the plats are for access point accounting. The location and placement of these items on the plat is intended to indicate what was actually found during the field survey. Placement of hand drawn main valves on the plat is the technicians best guess of what they control. Every effort was made to ensure the accuracy of these plats, but EUWD does not guarantee their accuracy.

JRS/bmc
002jrs

RECOMMENDATIONS

- I. Install four inch meter to N.B.U. service area on FM 1044, plat B-8 and two inch meter to McQueeney Estates on plat G-13.
- II. Check all ECR and inactive service connection for leaks on a routine basis.
- III. All meter installations should be reviewed to determine whether the meter is properly sized and the correct type for the current use and flow-demand.

Water meters are designed to deliver a maximum flow for short periods and a lower flow for long periods without sustaining damage or above normal wear. If a meter is operating outside its intended range, it cannot register all flow, even though it may be calibrated. We recommend that all well meters and a percentage of large commercial meters be tested in place yearly for accuracy.

- IV. Placement of well flow meters should be checked against meter manufacturer specifications for recommended straight pipe lengths both upstream and downstream of meter. All meters have limitations due to piping configurations. An improperly located or installed meter will reduce the inherent specified accuracy below an acceptable level. Meters installed in close proximity to a bend, valve or other fittings that is likely to disturb the flow condition at the meter could invalidate the manufactures meter calibration.
- V. Consider ductile iron pipe for the primary main line material used for new installation and main replacement. As the production costs of water increase, the need for routine systemwide leak detection surveys will also increase. Leak sounds generated in metallic pipe are louder and have a tendency to travel further than those developed in non-metallic pipe.

Ductile iron pipe has a proven history of long service life and its sound carrying characteristics for leak detection are far superior to any other type of pipe material.

JRS/bmc
003jrs

COMMENTS

We wish to express our personal appreciation for the assistance and cooperation we received from the management and staff of the Green Valley Special Utility District. We were grateful for the opportunity to survey your water system. Management's professional and progressive approach to serving the needs of their customers while helping to conserve a valued resource is commendable. All personnel we worked with were highly trained, meticulous in the performance of their duties, and had a very positive attitude about their jobs and the customers they serve.

The active participation of Monroe Zuehl, Jr. and Roland Jannasch in this survey is greatly appreciated. Their knowledge, experience, enthusiasm, and professional work habits contributed to its success.

Your efforts and timely repair of the leaks discovered in this survey have saved a significant amount of precious water. Our thanks to all the staff for your efforts in helping to conserve the Edwards Aquifer.

Sincerely,



John E. Gapinski
Leak Detection Technician I



James R. Shipley
Leak Detection Technician II

MLM:JRS/bmc

004jrs

APPENDIX A
Edwards Underground Water District
Meter Box Leak List
1993

System: City of Green Valley SUD

Page 1 of 2

<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Loss G.P.D.</u>	<u>Date Repaired</u>
1	6/2	I-5	#1897 Sassman Rd.	43	6/2/93
2	6/4	I-5A	Lot 18, Doree Lane	6	6/4/93
3	6/9	F-7	#832 Weil Rd.	9	6/10/93
4	6/22	H-7	#4236 Youngsford	9	10/4/93
5	6/25	B-10A	#3473 Lucy Lane	9	6/25/93
6	7/7	F-9	#4096 FM 1044	720	7/12/93
7	7/7	B-8	#1520 F.M. 1044	26	7/7/93
8	7/9	C-10A	#3510 Meadows Sub	9	7/16/93
9	8/5	E-9	#456 Union Wine	9	8/5/93
10	8/23	E-12A	#4026 Lake Creek	1	8/23/93
11	8/20	G-12A	#1449 Adm. Ben. Box	43	8/23/93
12	8/20	G-12A	#B178 Trelauney Dr.	4	8/27/93
13	8/20	G-12A	#3470 Trelauney Dr.	17	8/27/93
14	8/26	G-12	#663 Termal Loop	4	8/26/93
15	8/26	G-13	#662 Termal Loop	17	10/5/93
16	8/26	G-13	Next to #4745 Termal Loop	4	8/26/93
17	8/25	F-13A	Next to #4850 Woodlake	43	8/25/93
18	8/31	H-12A	#5612 Ski Lodge	43	9/2/93
19	9/1	H-12B	#5057 Old Randolph	26	9/2/93
20	9/1	H-12B	#5022 Koeppel	43	9/2/93
21	9/6	K-9	#3170 Wosnig	648	9/11/93

APPENDIX A
Edwards Underground Water District
Meter Box Leak List
1993

System: City of Greer, Valley SUD

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<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Loss G.P.D.</u>	<u>Date Repaired</u>
22	9/20	K-4	#5409 Haeckerville	4	9/20/93
23	9/21	N-5	#3084 Haeckerville	60	9/21/93
24	9/22	O-5	#774 Trainer Hale	2	10/19/93
25	10/5	N-11	#3324 F.M. 775	2	10/19/93
26	10/6	K-13	#2060 River Road	26	10/6/93
27	10/8	P-12	#2220 Sweet Home	2	10/8/93

APPENDIX B

Edwards Underground Water District Fire Hydrant Leak List 1993

System: City of Green Valley SUD

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Line #	Date #	Plat	Address	Loss G.P.D.	Date Repaired
1	9/1	H-12	#5081 FM 725	360	9/30/93
2	10/27	S-5A	#734 St. Hedwig		Pending

APPENDIX C

Edwards Underground Water District Service Leak List 1993

System: City of Green Valley SUD

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Line #	Date #	Plat	Address	Loss G.P.D.	Date Repaired
1	5/24	H-3	#4584 Green Valley	27,540	5/27/93
2	6/8	H-5	#106 Weil	3,960	6/14/93
3	6/5	E-6	#2428 Engel Rd.	27	6/15/93
4	6/28	G-7	#1035 Marion Rd.	720	8/12/93
5	6/25	B-10A	#3289 Zipp Rd.	9	6/31/93
6	7/27	B-10A	#2540 Zipp Rd.	1,332	8/13/93
7	8/5	E-10	#8 Union Wine	540	8/6/93
8	8/9	E-3	#2228 FM 482	17	8/13/93
9	8/9	I-6	#3121 Youngsford	3,240	9/15/93
10	8/9	A-11A	#2588 153 Trailwood	540	8/12/93
11	7/9	C-10A	#4292 Meadows Sub.	720	8/12/93
12	7/27	B-10A	#2541 Zipp Rd.	1,332	8/13/93
13	8/23	E-12A	#4054 Lake Creek	17	8/30/93
14	8/20	G-12A	2645 Adm. Bon Bow	17	8/27/93
15	8/25	F-13A	#4369 Woodlake Dr.	9	9/1/93
16	8/30	K-5A	#4868 Eagle Dr.	17	9/14/93
17	9/10	L-10	#2090 Stage Coach	240	9/13/93
18	9/15	K-11	#500 Pioneer Rd.	240	9/13/93
19	9/16	K-9	#220 Wosnig	120	9/17/93
20	9/21	N-5	#3207 Valley View	17	10/4/93
21	10/6	K-13	#2007 FM 725	120	10/11/93

APPENDIX C

Edwards Underground Water District Service Leak List 1993

System: City of Green Valley SUD

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Line #	Date #	Plat	Address	Loss G.P.D.	Date Repaired
22	10/12	O-9	#4359 Gin Rd.	120	10/15/93
23	10/14	L-13	#3632 FM 725	120	10/4/93
24	10/22	Q-6	#3080 FM 2538	360	10/28/93
25	10/27	S-5A	#4526 St. Hedwig Estates	1,980	11/3/93

APPENDIX D
Edwards Underground Water District
Main Leak List
1993

System: City of Green Valley SUD

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<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Loss G.P.D.</u>	<u>Date Repaired</u>
1	5/21	G-3	#1671 Dean Road	10,800	5/25/93
2	6/8	H-5	Across from 2450 Weil Rd.	19,440	6/14/93
3	6/8	H-5	1000' east of 3453 Weil Rd.	26	6/14/93
4	6/8	G-6	200' west of PRV on Weil Rd.	7,200	6/14/93
5	6/28	G-8	#2054 Youngsford	720	10/11/93
6	7/19	K-6	Cross Country main by tank	13,824	7/20/93
7	7/19	K-6	Cross Country main by tank	27,648	7/20/93
8	7/19	L-6	Cross Country main 1000' north of tree	3,960	8/20/93
9	7/22	L-8	Lovers Lane 1000' east of of #5338	3,960	7/23/93
10	8/24	G-12	FM 725 north of Youngsford	2,196	9/1/93
11	9/1	H-12B	FM 78 @ Old Randolph Rd.	6,877	9/17/93
12	9/7	H-12C	#5128 Riverview	2,664	9/14/93
13	9/29	Q-10	#5641 Linne Rd.	1,980	10/4/93
14	9/22	P-5	#2578 Trainer Hale	15,840	10/4/93
15	10/4	O-12	1001 north of FM 775 #4895	1,152	10/7/93
16	10/5	M-11	2000' west of FM 775 IH-10	240	10/19/93
17	10/5	M-11	West of #104 Partnership	120	10/6/93

APPENDIX D
Edwards Underground Water District
Main Leak List
1993

System: City of Green Valley SUD

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<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Loss G.P.D.</u>	<u>Date Repaired</u>
18	10/8	P-12	500' west of #103 on FM 775	240	10/11/93
19	10/25	J-7	#847 FM 78	43	11/2/93
20	10/27	S-4	#3036 FM 1518	13,420	10/28/93

APPENDIX E
Edwards Underground Water District
Valve Leak List
1993

System: City of Green Valley SUD

Page 1 of 1

<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Loss G.P.D.</u>	<u>Date Repaired</u>
1	5/18	E-4	#3953 IH 35 North	90	5/18/93
2	6/1	J-6	Country Ln @ Youngsford	9	6/9/93
3	6/29	B-10A	#2534 Forest Glen	9	10/25/93
4	7/27	A-11A	#4505 Lullwood	4	8/6/93
5	8/6	D-11A	#3693 Rolling Fork	26	8/10/93
6	8/9	C-10A	#4189 Meadows Sub	9	8/10/93
7	8/10	D-11	PRV on FM 725	1,980	8/10/93
8	8/26	F-13	#3294 Termal Loop	4	9/7/93
9	8/31	H-13A	#667 Hot Shot	26	10/5/93
10	8/31	H-13	#2567 FM 78	60	9/7/93
11	8/31	H-13	#4262 FM 78	26	9/6/93
12	9/7	H-12B	#1065 FM 78	8	9/14/93
13	9/9	J-12	#3041 Schuman	1	10/1/93
14	9/15	L-11	#992 IH-10	8	9/16/93
15	9/6	J-8	#1258 Across from FM 78	240	12/2/93
16	10/5	M-10	#3921 IH 10	17	11/4/93
17	10/6	K-13	#1344 River Road	43	10/11/93
18	10/13	O-8	Santa Clara @ Gin Rd.	7,920	11/5/93
19	10/8	P-5	#2394 Trainer Hale	1,440	10/18/93

APPENDIX F

Edwards Underground Water District Customer Side Leak List 1993

System: City of Green Valley SUD

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Line #	Date #	Plat	Address	Comments
1	5/12	E2	#5588 FM 2252	S&W Not Closed
2	5/14	F2	#714 (19531) FM 482	Notified
3	5/14	F3	#3652 IH 35	F.F., Notified
4	5/14	E3	#3660 FM 482	
5	5/14	E3	#2343 FM 482	M/R
6	5/14	E3	#2228 FM 482	Back Faucet, MCO
7	5/17	D3	#2156 FM 482	Notified
8	5/17	D3	#709 FM 482	Notified
9	5/19	F3	#3827 FM 1103	Notified
10	5/24	H2A	#2993 Green Valley	
11	5/24	H3	#4585 Green Valley	
12	5/24	H3	#3198 Green Valley	Notified
13	5/24	G4	#2867 Green Valley	Notified
14	5/25	I5	#4290 FM 1103	Notified
15	5/26	H4	#4477 FM 1103	
16	5/28	J5	#468 Tolle Rd.	
17	5/28	J5B	#4667 369 Country Lane	Notified
18	5/28	J5A	#3999 Tolle Rd.	
19	5/28	J5A	#5197 Tolle Rd.	
20	5/28	J5A	#4042 Tolle Rd.	Notified
21	6/1	J6	#4606 Country Lane	

APPENDIX F
Edwards Underground Water District
Customer Side Leak List
1993

System: City of Green Valley SUD

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<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Comments</u>
22	6/1	J6	#4661 Country Lane	
23	6/1	J6	#4557 Country Lane	
24	6/1	J6	#4197 Country Lane	
25	6/1	J5	#4196 Country Lane	
26	6/1	J5	#43 Country Lane	
27	6/2	J5	#2341 Sassman Rd.	M/R
28	6/2	J5	#1016 Sassman Rd.	
29	6/2	J5	#4034 Sassman Rd.	Small
30	6/1	JB5	#4108 Country Lane	Notified, Bathtub
31	6/4	I5A	Lot 20, Dorfe Lane	Notified, F.F.
32	6/4	H5	#5252 Weil	By MTR
33	6/4	H5	#3244 Weil	
34	6/7	E5	#3420 Green Valley	
35	6/7	G4	#3825 Green Valley	Notified
36	6/7	G4	#457 C.C. Main	
37	6/7	F4	#58 Green Valley	Notified
38	6/8	H5	#391 Weil	
39	6/8	H5	#1835 Weil	Notified
40	6/8	H5	#366 Weil	Small
41	6/8	H5	#51 Weil	Small
42	6/8	G6	#1120 Weil	Notified

APPENDIX F
Edwards Underground Water District
Customer Side Leak List
1993

System: City of Green Valley SUD

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Line #	Date #	Plat	Address	Comments
43	6/9	G6	#49 Koehler	Notified
44	6/9	F5	#208 Green Valley	
45	6/9	E5	#3673 Green Valley	
46	6/9	E5	#4206 Green Valley	M/R
47	6/21	E2	#4052 Pioneer Conc FM 2252	M/R
48	6/21	D6	#3793 Engel Rd.	
49	6/11	D6	#3124 Green Valley	M/R
50	6/11	D6	#4611 Green Valley	
51	6/11	E6	#3038 Green Valley	M/R
52	6/11	E6	#249 Green Valley	Notified, Backyard
53	6/11	E6	#278 Green Valley	Toilet
54	6/22	I6	#1623 Santa Clara	
55	6/22	I7	#17 Youngsford	
56	6/22	I7	#816 Wetz	
57	6/22	J7	#3692 Cale	By MTR
58	6/22	J7	#4208 Cale	M.R.
59	6/22	J7	#4421 Cale	
60	6/22	J7	#122 Wetz	
61	6/22	J6	#5183 Santa Clara Hgts.	M.R.
62	6/22	J6	#2246 Santa Clara Hgts.	Notified, (Dorothy)
63	6/22	J6	#4628 Santa Clara Hgts.	

APPENDIX F

Edwards Underground Water District Customer Side Leak List 1993

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System: City of Green Valley SUD

Line #	Date #	Plat	Address	Comments
64	6/22	J6	#3910 Santa Clara Hgts.	
65	6/23	G7	#2590 Marion	Notified, M/R fast
66	6/24	E12	#4174 Freddy	M/R, Notifier
67	6/24	E12A	#3308 Lake Creek	F.F.
68	6/24	E12A	Lot 148 Lake Creek	Notified
69	6/24	E12A	#3984 Lake Creek	F.F.
70	6/24	E12A	#4029 Lake Creek	
71	6/25	B10A	#5591 Zipp	
72	6/25	B10A	#3912 Zipp	M/R Slow
73	6/25	B10A	#4729 Zipp	
74	6/25	B10A	#4730 Zipp	M/R
75	6/25	B10A	#2979 Valley Vista	
76	6/25	B10A	#1903 River Bend	D/T (T-off Water Bad Leak)
77	6/25	B10A	#3361 River Bend (L of 33)	M/R
78	6/28	B8	#1103 FM 1044	
79	6/28	B8	#2857 FM 1044	M/R Slow
80	6/28	G9	#108 Youngsford	
81	6/28	I9	#3027 Tolle Lane	
82	6/29	I9	#4597 Tolle Lane	
83	6/29	B10A	#3395 Global	F.F.
84	6/29	B10A	#3672 Global	S&W

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Edwards Underground Water District Customer Side Leak List 1993

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Line #	Date #	Plat	Address	Comments
85	6/29	B10A	#3854 Placid Cove	
86	6/29	B10A	#4287 Placid Cove	
87	6/29	B10A	#1346 Placid Cove	
88	6/29	B10A	#3700 Placid Cove	
89	6/29	B10A	#4410 Placid Cove	
90	6/29	B10A	#1587 Placid Cove (Lot 77)	
91	6/29	B10A	#4095 Placid Cove	M/R
92	6/29	B10A	#3513 Forest Glen	
93	6/29	B10A	3109 Forest Green	
94	7/2	C8	#3581 FM 1044	M/R
95	7/2	C8	#2275 FM 1044	S&W, (Also CCNH)
96	7/7	H9	#4527 FM 1044	
97	7/7	H9	#4681 FM 1044	
98	7/7	H9	#2845 FM 1044	Notified
99	7/7	H10	#1229 FM 1044	
100	7/7	F9	#2553 FM 1044	M/R Slow
101	7/7	F9	#3415 FM 1044	M/R Slow, (MCO)
102	7/9	C10B	#4598 Vista Verde	
103	7/9	C10B	#4616 Vista Verde	
104	7/9	C10B	#4672 Vista Verde	
105	7/9	C10A	#5361 Meadows Subdv.	Toilet, Notified

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Customer Side Leak List
1993

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<u>Line #</u>	<u>Date #</u>	<u>Plat</u>	<u>Address</u>	<u>Comments</u>
106	7/9	C10A	#4204 Meadows	
107	7/9	C10A	#3510 Meadows	
108	7/9	C10A	#3437 Meadows	
109	7/9	C10A	#3491 Meadows	
110	7/9	C10A	#4641 Meadows	
111	7/9	C10A	#3557 Meadows	
112	7/9	D9	#3060 Old Zipp Rd.	
113	7/9	D9	#3496 Old Zipp Rd.	F.F.
114	7/12	A10	#385 Chinaberry Lane	
115	7/12	A10A	#5429 Country Grace	Notified, 2 Toilets
116	7/13	A10A	#4496 Waterford Grace	Notified, M/L
117	7/13	A10A	#4655 Dover Grace	
118	7/14	H12	#5087 FM 725	2 GPM F.F., Notified
119	7/22	L7	#2313 Lower Seguin	Notified
120	7/22	L8	#4876 Lovers Lane	
121	7/26	B10C	#3709 Klein Rd.	M/R Good/Fast
122	7/26	B10C	#2866 Klein Rd.	S&W, Notified
123	7/26	B10C	#2764 Klein Rd.	
124	7/27	A11	#3367 Zipp Rd.	S&W, Notified
125	7/27	A11A	#1036 Schumaker	
126	7/27	A11A	#2081 Trailwood	

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Customer Side Leak List
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Line #	Date #	Plat	Address	Comments
127	7/27	A11A	#3117 Zipp Rd.	
128	7/29	B10	#3474 Zipp Rd.	Notified
129	7/20	B11	#441 Schuman Beach	
130	7/29	B11	#2963 Schuman Beach	Notified
131	7/29	B11	#3662 Schuman Beach	F.F.
132	7/29	A11B	#4784 Boenig Dr.	
133	7/30	A11C	#4945 Becker Lane	
134	7/30	A11C	#4955 Becker Lane	
135	7/30	A11	#5540 FM 725	
136	7/30	A11	#5553 FM 725	Notified
137	7/30	C11A	5327 Skytrail Blvd.	Notified
138	8/3	D10	#4322 Union Wine	
139	8/3	D11	#42 Union Wine	
140	8/3	C11	#884 Lakeside	
141	8/3	C11	#2793 Lakeside	
142	8/3	C11	#1793 Lakeside	
143	8/5	D10	#4432 Zipp	
144	8/5	E10	#4232 Altwein	M/R, Notified
145	8/6	D11	#177 FM 725	Small
146	8/6	D11A	#4249 Rolling Fork	Notified
147	8/6	D11A	#4518 Leisure Lane	Notified

APPENDIX F**Edwards Underground Water District
Customer Side Leak List
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Line #	Date #	Plat	Address	Comments
148	8/6	D11A	#3991 Leisure Lane	S&W, Notified
149	8/6	D11A	#1227 Leisure Lane	Notified
150	8/6	D11A	#4853 Leisure Lane	
151	8/6	D11A	#4099 Rolling Fork	
152	8/12	B10	#3650 Zipp Rd. (Stop & Go)	Coupling, Notified
153	8/13	E11	#1863 FM 1863 725	M/R
154	8/20	G12A	#1770 Spy Glass Rd.	S&W, Notified
155	8/20	G9	#1851 Youngsford	S&W, Notified
156	8/20	G9	#148 Youngsford	
157	8/23	E12A	#3970 Lake Creek	Kitchen & Shower, Notified
158	8/23	E12A	#10 Lake Creek	
159	8/23	E12A	#400 Lake Creek	
160	8/23	E12A	#3834 Lake Creek	F.F.
161	8/23	E12A	#3784 Lake Creek	
162	8/23	E12A	#3812 Lake Creek	
163	8/23	E12A	#4315 Lake Creek	
164	8/23	E12A	#4171 Lake Creek	
165	8/23	E12A	#4850 Lake Creek	M/R Slow
166	8/23	E12A	#4172 Lake Creek	M/R Slow
167	8/23	E12A	#4519 Lake Creek	M/R Slow
168	8/25	F13	#4713 Gallagher	

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Edwards Underground Water District Customer Side Leak List 1993

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Line #	Date #	Plat	Address	Comments
169	8/25	F13A	#4532 Woodlake	
170	8/26	F13	#2353 Terminal Loop	Notified
171	8/26	F13	#2435 Terminal Loop	Notified
172	8/30	K5A	#5402 Robin Dr.	
173	8/30	K5A	#5357 Robin Dr.	
174	8/30	K5A	#5287 Robin Dr.	Notified
175	8/30	K5A	#4888 Eagle Dr.	Notified
176	8/30	K5A	#4839 Eagle Dr.	Small
177	8/30	K5A	#4398 Bob White	
178	8/30	K5A	#4430 Falcon Dr.	Notified
179	8/30	K5A	#4537 Falcon Dr.	
180	8/30	K5A	#4709 Falcon Dr.	M/R Good, Letter
181	8/30	K5A	#4547 Falcon Dr.	Leak by Regulator, Letter
182	8/30	K5A	#4834 Falcon Dr.	Leak by Regulator, Letter
183	8/30	K5A	#4743 Falcon Dr.	
184	8/30	K5A	#4404 Falcon Dr.	S&W, Notified
185	8/31	H12	#5624 Ski Lodge	
186	8/31	H12	#5602 Ski Lodge	
187	8/31	H12	#5629 Ski Lodge	
188	8/31	H13A	#3349 Lake View Ramp	F. F., Notified
189	8/31	H13A	#4650 Isle of View	Toilet, Notified

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Edwards Underground Water District Customer Side Leak List 1993

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Line #	Date #	Plat	Address	Comments
190	8/31	H13A	#4649 Isle of View	
191	8/31	H13A	#4646 Isle of View	
192	9/1	H12	#4881 FM 725	
193	9/7	H12B	#5052 Old Randolph	S&W, Notified
194	9/7	H12C	#5009 Old McQueeny	
195	9/7	H12C	#4995 Old McQueeny	
196	9/7	H12C	#3515 Old McQueeny	
197	9/7	I12	#4970 Martinez	
198	9/7	I12	#4976 Martinez	Shower, Notified
199	9/9	H13C	#2456 Cypress Ridge	
200	9/9	H13C	#870 Cypress Ridge	
201	9/9	H13C	#616 Cypress Ridge	
202	9/10	J12	#5703 Stage Coach	Notified
203	9/10	K11	#4265 Stage Coach	Notified
204	9/10	K11	#4246 Stage Coach	
205	9/10	K11	#4790 Stage Coach	Toilet, Notified
206	9/10	L9	#5164 Stage Coach	
207	9/13	K9	#5676 Wosnig	S&W, Notified
208	9/15	L12	#2799 Pioneer Rd.	8.25 GPM T/Off D/T
209	9/16	I9	#45 Hwy 78	M/R DT (?)
210	9/17	N8	#463 IH 10	Notified

APPENDIX F
Edwards Underground Water District
Customer Side Leak List
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Line #	Date #	Plat	Address	Comments
211	9/17	N8	#2281 Santa Clara	Notified
212	9/20	K5	#3727 FM 78	
213	9/20	K5	#1249 Country Lane	Notified
214	9/20	K4B	#1115 Green Valley Dr.	Notified, (leak by M/R)
215	9/20	K4B	#1090 Park Drive	M/R Good, Mailed
216	9/20	K4B	#3730 Park Drive	Notified
217	9/20	L5	#4159 Haeckerville Rd.	M/R Good, Mail
218	9/20	L5	#3404 Haeckerville Rd.	Notified
219	9/21	M5	#4576 Green Meadow Estates	M/R Good, Mail
220	9/21	M5	#5168 Green Meadow Estates	Notified, F.F.
221	9/22	N4	#2672 Weir Road	Notified, Leak by M/R
222	9/27	M6	#5762 Stoltz	Notified, F.F.
223	9/27	M7	#2237 Santa Clara	
224	9/28	M9	#2583 FM 465	S&W, Notified
225	9/29	N9	#1677 Linne Road	S&W, Notified
226	9/30	O10A	#4247 Gin Road	
227	10/4	N10	#206 Partnership	Notified
228	10/4	M10	#4747 IH10	Kitchen Sink, Notified
229	10/5	M11	#291 FM 775	M/R Slow
230	10/6	K13	#3972 FM 725	

APPENDIX F

Edwards Underground Water District Customer Side Leak List 1993

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Line #	Date #	Plat	Address	Comments
231	10/8	P12	#2220 Sweet Home	Galv. Coupling, Notified
232	10/8	P11	#1635 FM 775	S&W, D/T
233	10/8	Q11	#1007 FM 775	S&W Notified
234	10/12	M12	#5461 Longhorn Trail	M/R Good, Mail
235	10/14	N13	#1244 Leissner	Bad Leak, Notified
236	10/21	Q7	#4921 Gin Rd.	Notified
237	10/21	Q7	#732 Gin Rd.	Notified
238	10/21	Q7	#2913 Zeuhl Rd.	Notified
239	10/26	P5	#2883 IH 10	Toilet, Notified
240	10/25		#5612 Ski Lodge	Notified, Toilet
241	10/27	S5A	#4448 St. Hedwig Estates	S&W Notified
242	10/28	T6	#4541 New Berlin Rd.	Notified
243	10/28	Q6	#4193 Sea Willow Estates	S&W, Mail

APPENDIX G

Edwards Underground Water District Valve Stack Repairs Needed 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type	Needed
1	E-3	#3588 F.M 482	Main	Repair
2	H-2A	Lot 12 Green Valley Rd.	Main	Repair
3	H-4	#2868 Green Valley Rd.	Main	Raise to Grade
4	F-5	#5313 Green Valley Rd.	Main	Repair
5	G-6	#4418 Weil	Main	Raise to Grade
6	E-6	#3000 Engel Rd.	Main	Repair
7	B-10A	Klein Rd.	Main	Raise to Grade
8	A-10A	#5162 Waterford Grace	Main	Raise to Grade
9	C-11A	Skytrail Blvd. @ Skylark	Main	Raise to Grade
10	D-11A	Rolling Fork @ FM 725	Main	Repair
11	H-12B	#5030 Zipp Rd.	Flush Valve	Reset
12	N-8	#2281 Santa Clara	Main	Repair
13	N-5	@4658 Haekerville Rd.	Service Valve	Raise to Grade

APPENDIX H

Edwards Underground Water District Valve Stack Cleaning Needed 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type
1	B-10A	Waterloo @ River Bend	1 valve
2	D-8	500' North of Service 5367 on FM 1044	1 valve
3	F-8	East of FM 1044 by driveway	1 valve
4	G-12A	Service 1951 on Royal George	1 valve
5	G-12	Happy Haven to Wood Lake	2 valves
6	J-11	Service #645 on Schuman	1 valve
7	N-10	Service #3168 on Partnership Rd.	1 valve
8	R-4	Service #747 on Abbott Rd.	1 valve

APPENDIX I

Edwards Underground Water District Meter Box Lids/Replacement Needed 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type
1	I-4	#2871 FM 1103	Lid
2	J-6	#3853 Country Lane	Lid
3	J-6	#2627 Country Lane	Lid
4	J-5	#2709 Country Lane	Lid
5	J-5	#2022 Country Lane	Lid
6	J-5	#4470 Country Lane	Lid
7	J-5	#2849 Sassman Rd.	Lid
8	J-5	#3335 Sassman Rd.	Lid
9	H-5	#391 Weil	Lid
10	H-5	#228 Weil	Lid
11	G-6	#1102 Weil	Lid
12	E-5	#4106 Green Valley	Lid
13	G-7	#5167 Marion Rd.	Lid
14	F-7	#2422 Marion Rd.	Lid
15	B-10A	#3633 Lucy Lane	Lid
16	B-8	#2833 FM 1044	Box and Lid
17	B-10A	#3700 Placid Cove Dr.	Lid
18	F-9	#591 FM 1044	Lid
19	F-9	#102 FM 1044	Lid
20	B-10C	#3328 Klein Lane	Lid
21	A-11	#3545 Timber Lane	Lid

APPENDIX I

Edwards Underground Water District Meter Box Lids/Replacement Needed 1993

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Line #	Plat #	Address	Type
22	B-11	#241 Schuman Beach	Box and Lid
23	D-11A	#3893 Rolling Fork	Lid
24	D-11A	#3596 Rolling Fork	Lid
25	D-11A	#2847 FM 725	Lid
26	D-11	#3919 FM 725	Lid
27	E-12A	#4023 Lake Creek	Lid
28	E-12A	#4054 Lake Creek	Lid
29	K-11	#1825 Stage Coach	Lid
30	K-8	#2685 Wosnig	Lid
31	K-4	#1990 Country Lane	Box and Lid
32	E-12A	#468 Lake Creek	Lid
33	N-6	#2482 Valley View	Lid
34	P-8	#4930 Gin Road	Lid
35	P-7	#2308 Zuehl	Lid
36	P-5	#721 IH 10	Lid
37	S-4	#1778 Abbott Rd.	Lid
38	R-4	#1374 Abbott Rd.	Lid

APPENDIX J

Edwards Underground Water District Valve Box/Replacement Needed 1993

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Line #	Plat #	Address	Type	Needed
1	G-4	#5561 Green Valley Rd.	Main	Top Hat
2	F-5	#3836 Green Valley Rd.	ARV	Box
3	E-5	#4206 Green Valley Rd.	Flush Valve	Top Hat
4	F-5	#1693 Green Valley Rd.	Main	Lid
5	J-10	#3866 Wosnig	ARV	Lid
6	K-10	#2502 Schwab	Main	Top Hat
7	L-12	#5467 IH 10	ARV	Lid
8	K-13	#3600 FM 725	Service Valve	Top Hat

APPENDIX K

Edwards Underground Water District General Repair Needed 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type	Problem
1	E-1A	FM 2252 Pump Station #7	Valve #26	Not Holding
2	D-2A	FM 2252 Pump Station #1	Valve #5	Not Holding
3	H-2B	Pump Station #9	Valve #9	Not Holding
4	G-4A	Plant #1	Valve #21	Not Holding
5	G-12B	Plant #6	Valve #19	Not Holding
1	E-6	#3038 Green Valley	Curb Stop	Frozen
2	E-12A	Lot 138 Lake Creek	Curb Stop	Frozen
3	B-10A	#2832 Waterloo	Curb Stop	Not Holding
4	B-10A	#4111 River Bend	Curb Stop	Not Holding
5	C-10A	#3602 Meadows Sub	Curb Stop	Not Holding
6	K-13	#3972 FM 725	Curb Stop	Not Holding
7	C-8	#2275 FM 1044	Curb Stop	Not Holding
1	D-11A	#4813 Leisure Lane	Meter Box	Raise to Grade
1	F-2	IH 35 2000' south of FM 2252		Need GV Marker Signs
2	H-5	#3927 Weil	12" Cross Country Main	Need GV Marker Signs
3	I-11	#646 Schuman	Cross County Main	Need GV Marker Signs

APPENDIX K

Edwards Underground Water District General Repair Needed 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type	Problem
4	J-8	Gembler Rd.	4" Cross Country Main	Need GV Marker Signs
1	G-12A	#1439 Admiral Ben Bow	Valve	Needs Hand Wheel
1	B-10A	Lot 333 Charles Ave.	Service	Exposed
2	J-12	#2494 Stage Coach	Main	Exposed in Ditch
1	Q6	#792 Zuehl Rd.	Fire Hydrant	2½ Cap is cross threaded

APPENDIX L

Edwards Underground Water District Valves/Unable to Locate 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type	Needed
1	H-2A	Lot 27 Green Valley Rd.	Main Valve	Unable to Locate
2	I-5	#4135 Tolle Rd.	Bypass Valve	"
3	G-6	Wetz @ West Road	8" Valve	"
4	C-10A	#3558 Meadows Sub	Main Valve	"
5	A-10C	#3253 China Berry Lane	Main Valve	"
6	G-12A	#2180 Spyglass Rd.	Main Valve	"
7	G-12A	#5656 Spyglass Rd.	Main Valve	"
8	G-12A	Bend Bow @ Rest Haven	Main Valve	"
9	H-12B	#5067 Old Randolph Rd.	1½" Valve	"
10	H-12B	Behind 5047 Old Randolph Rd.	4" Valve	"
11	J-8	North of #1975 Gembler	4" Valve	"
12	N-6	90° bend on Don Halman property	4" Valve	"
13	K-7	North of #191 Santa Clara	Main Valve	"
14	J-7	Santa Clara @ FM 78	Main Valve	"
15	J-8	#1258 FM 78	Main Valve	"
16	O-10A	#4222 Gin Rd.	Main Valve	"
17	O-10A	#3721 Gin Rd.	Main Valve	"
18	H-12B	#5036 Old Randolph Rd.	Main Valve	"
1	G-4	#1353 FM 1103	Service Valve	"

APPENDIX L

Edwards Underground Water District Valves/Unable to Locate 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Type	Needed
2	J-6	#4422 Country Lane	Service Valve	Unable to Locate
3	D-8	#4052 FM 1044	Service Valve	"
4	M-5	#3372 Lower Seguin Rd.	Service Valve	"
5	O-5	#3499 Craft Lane	Service Valve	"
6	M-11	#291 FM 775	Service Valve	"
1	F-2	#34 IH 35 South	Air Relief Valve	"
2	H-3	Green Valley Rd. @ driveway to tank	Air Relief Valve	"
3	C-9	#5139 Klein Rd.	Air Relief Valve	"
4	C-9	#950 Klein Rd.	Air Relief Valve	"
5	E-11	FM 725 North of #1863	Air Relief Valve	"
6	P-10	#5335 Kunde Road	Air Relief Valve	"
1	Q-6	#4762 Sea Willow	Flush Valve	"
2	H-9	#2745 Hard Luck	Flush Valve	"
3	A-10C	#123 China Berry Lane	Flush Valve	"
4	K-6	#486 Country Road 317	Flush Valve	"
5	K-6	#259 ?	Flush Valve	"

APPENDIX M

Edwards Underground Water District Service Connections/Unable to Survey 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Reason
1	E-3	#2373 FM 482	Locked Gate
2	G-2	#2921 Weiderstein Rd.	Unable to Locate
3	H-4	#4671 FM 1103	Locked Gate
4	J-5	#2655 Country Lane	Dog
5	I-5	#2870 Weil Rd.	Unable to Locate
6	E-6	#278 Green Valley Rd.	
7	F-5	Green Valley Rd. - Weston	Unable to Locate
8	J-7	#1204 Kiser Lane	Locked Gates
9	J-7	#867 Kiser Lane	Locked Gates
10	F-5	#575 Green Valley Rd.	Unable to Locate
11	H-7	#799 Wete Rd.	Unable to Locate
12	E-12A	Lot 26 Lakecreek	Unable to Locate
13	E-12A	Lot 27 Lakecreek	Unable to Locate
14	E-12A	Lot 34	Unable to Locate
15	E-12A	Lot 35	Unable to Locate
16	E-12A	#3766	Unable to Locate
17	B-10A	Lot 205 Deer Lane	Unable to Locate
18	B-10A	Lot 206	Unable to Locate
19	D-7	#559 Green Valley Rd.	Unable to Locate
20	G-8	#495 Youngsford	Unable to Locate
21	I-9	#3258 Hardluck	Unable to Locate

APPENDIX M

Edwards Underground Water District Service Connections/Unable to Survey 1993

System: City of Green Valley SUD

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Line #	Plat #	Address	Reason
22	L-10A	Lot 59	Unable to Locate
23	L-10A	Lot 60	Unable to Locate
24	A-10C	#3062 Chinaberry Lane	Unable to Locate
25	A-11A	#1289 Zipp Road	Locked Gates
26	B-10	#4565 Zipp Road	Dog
27	B-11	#3706 Schuman	Locked Gate
28	B-11	#4089 Schuman Beach	Locked Gate
29	A-11C	#4949 Becker Lane	Under Brush
30	A-11	#2809 Schuman Beach	Unable to Locate
31	A-11	#4754 Lakeside Drive	Unable to Locate
32	C-11A	Lot 31 Lakeside Drive	Unable to Locate
33	C-11A	Lot 32 Lakeside Drive	Unable to Locate
34	D-11A	Lot 12 Leisure Lane	Unable to Locate
35	D-11A	#4708 Rolling Fork	Unable to Locate
36	D-11A	#3283 Rolling Fork	Unable to Locate
37	D-11A	#3139 Leisure Lane	Dog
38	E-12A	Lot 133 Lakecreek	Unable to Locate
39	F-13A	Lot 16 Wood Creek Circle	Unable to Locate
40	F-13A	Lot 17 Wood Creek Circle	Unable to Locate
41	F-13A	Lot 22 Wood Creek Circle	Unable to Locate
42	F-13A	Lot 23 Wood Creek Circle	Unable to Locate

APPENDIX M

Edwards Underground Water District Service Connections/Unable to Survey 1993

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Line #	Plat #	Address	Reason
43	F-13A	Lot 32 Wood Creek Circle	Unable to Locate
44	F-13A	Lot 33 Wood Creek Circle	Unable to Locate
45	F-13A	Lot 105 Wood Creek Circle	Unable to Locate
46	F-13A	Lot 106 Wood Creek Circle	Unable to Locate
47	F-13A	Lot 1 Woodlake Block 5	Unable to Locate
48	F-13A	Lot 2 Woodlake Block 5	Unable to Locate
49	F-13A	Lot 2 Woodlake Block 1	Unable to Locate
50	F-13A	Lot 3 Woodlake Block 1	Unable to Locate
51	G-12	Lot 107 Terminal Loop	Unable to Locate
52	G-12	Lot 108 Terminal Loop	Unable to Locate
53	G-12	Lot 109 Terminal Loop	Unable to Locate
54	G-12	Lot 110 Terminal Loop	Unable to Locate
55	G-12	Lot 113 Terminal Loop	Unable to Locate
56	G-12	Lot 114 Terminal Loop	Unable to Locate
57	H-12C	#4976 Old McQueeney	Unable to Locate
58	I-12	#3041 Schuman	Electric Fence
59	K-11	#4794 Stage Coach	Unable to Locate
60	K-9	#4669 Wosnig	Unable to Locate
61	K-9	#4338 Wosnig	Unable to Locate
62	J-8	#192 FM 78	Unable to Locate
63	J-8	#3729 Gembler	Unable to Locate

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Edwards Underground Water District Service Connections/Unable to Survey 1993

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Line #	Plat #	Address	Reason
64	N-8	#1643 Santa Clara	Unable to Locate
65	O-7	#4179 Bolton	Unable to Locate
66	K-4	#3728 Country Lane	Unable to Locate
67	K-4B	#4092 Haeckerville Rd.	Locked Gate
68	K-4B	#3890 Haeckerville Rd.	Locked Gate
69	O-5	#3499 Craft Lane	Unable to Locate
70	J-7	#3949 FM 78	Unable to Locate
71	J-8	#192 FM 78	Unable to Locate
72	N-11A	Lot 21 Gin Road	Unable to Locate
73	N-10	#332 Partnership Road	Unable to Locate
74	L-12B	#4142 Gold Dust	Dog
75	O-8	#3494 Gin Road	Locked Gate
76	Q-5	#4497 FM 2538	Locked Gate
77	S-6	Lot 7 Miller Road	Unable to Locate
78	S-6	Lot 8 Miller Road	Unable to Locate
79	R-6	#5236 FM 2538	Unable to Locate
80	R-5	#3341 Stopper	Unable to Locate
81	T-5	#1641 Stopper	Unable to Locate
82	Q-6	#4762 Sea Willow	Electric Fence

APPENDIX N

Edwards Underground Water District Service Connections Added to Plat 1993

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Line #	Plat #	Address
1	A-10C	Lot 11
2	A-11A	Across from #2526 Zipp Rd.
3	C-10	Across from #3968 Zipp Rd.
4	C-10A	Lot 59
5	D-11A	Across from #4863 Leisure Drive
6	D-11A	Across from #4632 Rolling Fork
7	D-11A	Across from #3964 Rolling Fork
8	D-11A	Across from #2964 Leisure Lane
9	E-12A	Across from #5206 Lakecreek
10	E-12A	Across from #3892 Lakecreek
11	E-12A	Across from #5366 Lakecreek
12	E-12A	Lot 59 Lakecreek
13	E-12A	Lot 58 Lakecreek
14	E-12A	Lot 57 Lakecreek
15	E-12A	Lot 56 Lakecreek
16	E-12A	Lot 145 Lakecreek
17	E-12A	Lot 146 Lakecreek
18	G-12	#5787 Lakecreek
19	G-12A	Across from #1408 Spyglass Rd.
20	G-12A	Lot 77 Spyglass Rd.
21	H-2A	Lot 30 Green Valley Rd.

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Edwards Underground Water District Service Connections Added to Plat 1993

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Line #	Plat #	Address
22	H-2A	Between #3215 and 3431 on Green Valley Rd.
23	H-8	Lot 7 Schlather Addition
24	K-8	#5788
25	L-7	North of Lower Seguin Rd. on the Schnoehel property
26	L-7	Santa Clara Rd. south of Lower Seguin Rd.
27	L-8	Lower Seguin Rd. between #3570 and 3977
28	L-12B	Across from #5648 on County Rd. 404
29	L-12	Between #3275 and 3656 on IH 10 East
30	L-12	IH 10 east of County Rd. 404A
31	N-5	Haekerville Rd. between #3084 and #2468
32	N-6	Across from 2982
33	N-8	Between #4653 and #3222 Bolton
34	N-10	Partnership Rd. next to #4209
35	N-11A	Lot 15 County Rd. 404C
36	N-11A	FM 775 Across from Lot 6
37	N-11A	FM 775 Across from Lot 8
38	O-10	County Rd. 404D north of #4828
39	O-10	County Rd. 404 west of #1802
40	P-5	IH 10 west of #5344
41	P-11	County Rd. 775 south of #4960
42	Q-6	Zuehl Rd. west of #5510

APPENDIX N

Edwards Underground Water District Service Connections Added to Plat 1993

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Line #	Plat #	Address
43	Q-8	Ulrich Lane north of #4933
44	Q-11	FM 775 east of #4807
45	R-6	Across from #5236
46	S-6	Miller Rd. across from #4786
47	S-6	Miller Rd. west of #4686
48	E-5	#5866
49	E-5	#5514
50	G-12A	Across from #1410 Spyglass Rd.
51	H-4	#5590 FM 1103

APPENDIX O

Edwards Underground Water District Valves, Main, and Fire Hydrants Added to Plats 1993

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Line #	Plat #	Address	Added	Type
1	F-5	On Cross Country 8" main	Air Relief Valve	
2	F-9	#591 FM 1044	Air Relief Valve	
3	J-6	FM 78 @ RR tracks	Air Relief Valve	
4	E-8	FM 1044 @ Weil Rd.	Air Relief Valve	
5	F-2	FM 2262 @ IH 10	Air Relief Valve	
6	F-2	FM 492 @ 1297	Air Relief Valve	
7	F-2	Near #3397	Air Relief Valve	
8	G-6	Weil Rd. near #4180	Air Relief Valve	
1	F-9	#3415 FM 1044	Main Valve	
2	A-10C	#3062 China Berry Lane	Main Valve	
3	E-11	500' South of #2158 on FM 725	2 Main Valves	
4	H-9	Hardluck @ Schlather	Main Valve	
5	C-10A	Lot 14 off FM 725	Main Valve	
6	C-10	Altwein Rd. between #3677 and #4232	Main Valve	
7	G-12A	Trelauney Dr. @ #4324	Main Valve	
8	H-13	North of FM 78 between #3042 and 1310	Main Valve	
9	H-13	FM 775 between #3184 and #2567	Main Valve	
10	L-7	Lower Seguin Rd. across from #1549	3 Main Valves	

APPENDIX O

Edwards Underground Water District Valves, Main, and Fire Hydrants Added to Plats 1993

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Line #	Plat #	Address	Added	Type
11	L-10	IH 10 West between Co. Rd. 404A and #3657	Main Valve	
12	S-7	FM 2538 north of New Berlin Rd.	Main Valve	
1	B-10	FM 725 1000' south of Klein	Fire Hydrant	With Valve
2	J-12	#4183 Schuman	Fire Hydrant	With Valve
3	D-3	FM 482 between #2663 and #709	Fire Hydrant	With Valve
1	E-11	500' south of #2158 on FM 725	Pressure Regulating Valve	
1	H-13	North of FM 78 between #3184 and #2567	Flush Valve	
1	D-8	Northeast corner of plat	1,100' of 2" main	
2	C-10	Klein Rd.	1,000' of 12" main	