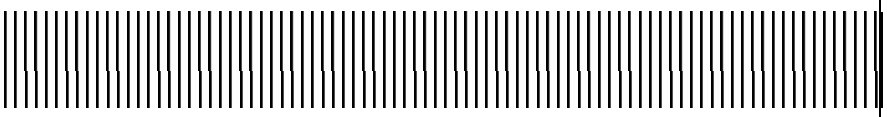
**Texas Custodial Trust**

2301 West Paisano Drive • El Paso, Texas 79922

# Appendix G

# Environmental Data Resources, Inc.

# TX Water Well Report, July 2008



6835001

MALCOLM PIRNIE

**Former Asarco Smelter - TRRP Bridge Document**
2301 West Paisano Drive
El Paso, TX 79922

Inquiry Number: 3889426.1
April 10, 2014

# The EDR TX Water Well Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Environmental Data Resources, Inc.
# Water Well Review Report

EDR reviewed available records made public by the state of Texas at the Texas Water Development Board (TWDB) and the Texas Commission Environmental Quality (TCEQ) and obtained information identifying the approximate location of public and private water wells within the requested Area of Review (AOR). EDR researched the located and plotted water wells identified on county highway maps or USGS 7.5 minute topographic maps at the TWDB. EDR transferred the approximate water well locations onto a map for the client's review.

EDR cannot guarantee the accuracy of the information provided by state agencies. This review is intended to provide the user with a "working approximation" of reported well locations. The following are guidelines used to review available driller logs for water wells associated with client site information within the AOR.

- Identify Located Wells within the AOR according to the TWDB maps.
- Identify Plotted Wells within the AOR according to the TWDB maps.
- Identify Partially Numbered Wells within the AOR according to the TCEQ files containing records submitted by the well driller.
- Identify Unnumbered Wells within the AOR according to the TCEQ files containing records submitted by the well driller.

**Description of Terms**

**Area of Review-(AOR):**
Area of review is a 1 mile radius around client specified coordinate of target property.

**Located Water Well:**
Well locations that have been field checked by a TWDB or USGS staff member, spotted on a USGS 7.5' Topographical or county highway map, assigned a unique identification number, and filed at the TWDB.

**Plotted Water Well:**
Approximate well locations spotted on county highway maps by the TWDB staff members according to information submitted on the driller's log. The accuracy of the location for these wells is dependent on the driller. The state assigned unique identification numbers to these wells, but in high-density areas, a single identification number may represent multiple well locations. The TWDB eliminated this plotting activity in June 1986.

**Partially Numbered Water Well:**
Water well locations established to within a 2.5 minute topographic quadrangle and identified by the TCEQ according to maps submitted with the driller's log. Each water well was assigned a State ID number by the TCEQ. **Note:** This method for recording water well locations was procedure from 1986 to 1991.

**Unnumbered Water Well:**
Well locations identified on the driller's logs and corresponding driller's maps maintained by the TCEQ records. **Note:** The TCEQ implemented this procedure in 1991.

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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**SEARCH DISTANCES SHOWN**
**.5 MILE**
**1 MILE**

**WATER WELL LOCATION MAP**
**WELLS WITHIN 1 MILE RADIUS**
**FORMER ASARCO SMELTER - TRRP BRIDGE DOCUMENT**
**2301 WEST PAISANO DRIVE**
**EL PASO, TX 79922**
**EL PASO COUNTY**
**USGS 7.5 MINUTE QUADRANGLE**
**SMELTERTOWN**

EDR™ Environmental Data Resources Inc

***ENVIRONMENTAL DATA RESOURCES***
**6 ARMSTRONG ROAD**
**SHELTON, CT 06484**
**800-352-0050 FAX: 800-231-6802**

**Environmental Data Resources, Inc.**

**Water Well Review**

**Site Name: Former Asarco Smelter - TRRP Bridge Document** **Inquiry #: 3889426.1**

**Site Address: 2301 West Paisano Drive**

**City: El Paso** **State: TX** **Zip: 79922**

| WELL CLASSIFICATION | NUMBER IDENTIFIED WITHIN AOR |
|---|---|
| LOCATED | 4 |
| PLOTTED | 0 |
| PARTIALLY NUMBERED | 0 |
| UNNUMBERED | 0 |
| TOTAL NUMBER IDENTIFIED | 4 |

LOCATED WELLS: SEARCHED TWDB STATE GRID #49-12-6 AND- 9 – IDENTIFIED WATER WELL LOGS 49-12-606, 607, 901, 902

PLOTTED WELLS: SEARCHED TCEQ STATE GRID #49-12-6 AND - 9 – NO WATER WELL LOGS IDENTIFIED WITHIN 1 MILE RADIUS

PARTIALLY NUMBERED WELLS: SEARCHED TCEQ STATE GRID #49-12-6 AND -9 – NO WATER WELL LOGS IDENTIFIED WITHIN 1 MILE RADIUS

UNNUMBERED WELLS: SEARCHED TCEQ UNNUMBERED WELL FILES FOR EL PASO COUNTY – NO WATER WELL LOGSS IDENTIFIED WITHIN 1 MILE RADIUS.

*TEXAS WATER DEVELOPMENT BOARD (TWDB)*

*LOCATED WELL LOG EXHIBIT*

# TWDB Groundwater Database Query Result

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## REPORTED WATER WELL DATA ON STATE WELL NUMBER = 4912606

**Query for another State Well Number:** Submit

---

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

| Field | Value | *Explanation |
|---|---|---|
| STATE WELL NUMBER | 4912606 | |
| COUNTY CODE | 141 | El Paso County, Texas |
| BASIN | 23 | Rio Grande Basin |
| PREVIOUS WELL NUMBER | U-59 | |
| LATITUDE | 314739 | DMS (in decimal degrees: 31.794167) |
| LAT DEC | 31.794166 | |
| LONGITUDE | 1063124 | DMS (in decimal degrees: -106.523333) |
| LONG DEC | -106.523332 | |
| OWNER 1 | Southwestern Portland | |
| OWNER 2 | Cement Co. | |
| DRILLER 1 | Southwestern | |
| DRILLER 2 | Portland Cement Co. | |
| SOURCE OF COORDINATES | 1 | |
| AQUIFER CODE | 112MSBL | MESILLA BOLSON |
| AQUIFER ID1 | 1 | Hueco-Mesilla Bolson Aquifer |
| AQUIFER ID2 | | |
| AQUIFER ID3 | | |
| ELEVATION | 3800 | feet |
| ELEVATION MEASUREMENT | | |

| | | |
|---|---|---|
| METHOD | M | Interpolated From Topo Map |
| ALPHA CODE | | |
| DATE DRILLED | 00001951 | |
| WELL TYPE | W | Withdrawal of Water |
| WELL DEPTH | 140 | feet |
| SOURCE OF DEPTH | A | Another Government Agency |
| TYPE OF LIFT | S | Submersible Pump |
| TYPE OF POWER | E | Electric Motor |
| HORSEPOWER | | |
| PRIMARY WATER USE | H | Domestic |
| SECONDARY WATER USE | N | Industrial |
| TERTIARY WATER USE | | |
| WATER LEVEL AVAILABLE | M | Click here for water level data |
| WATER QUALITY AVAILABLE | N | |
| WELL LOGS AVAILABLE | | |
| OTHER DATA AVAILABLE | | |
| DATE COLLECTED OR UPDATED | 03031975 | |
| REPORTING AGENCY | 01 | TWDB or Predecessor Agency |
| WELL SCHEDULE IN FILE | | |
| CONTRUCTION METHOD | | |
| COMPLETION | | |
| CASING MATERIAL | S | Steel |
| SCREEN MATERIAL | | |
| GMA | 5 | |
| RWPA | E | |
| DISTRICTID | | |

## Groundwater Database Disclaimer

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For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

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*Last updated on 1/27/2012 10:43:57 AM*

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer _____ Field No. UV 253 U-59 State Well No. 49-12-606

Owner's Well No. _____ County El Paso

1. Location: ___ 1/4, ___ 1/4 Sec. _____, Block _____ Survey _____
   31 47 39N 106 31 22.1
2. Owner: Southwestern Portland Cement Co. Address: _____
   Tenant: Powell Constr. Co. Address: _____
   Driller: SW Portl'd Cem. Co. Address: _____
3. Elevation of LSD is 3800 ft. above msl, determined by Topo
4. Drilled: _____ 19 1951; Dug, Cable Tool, Rotary, _____
5. Depth: Rept. 140 ft. Meas. _____ ft.
6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed SUB
7. Pump: Mfgr. Berkley Type Turbine (3")
   No. Stages _____, Bowls Diam. ___ in., Setting _____ ft.
   Column Diam. 4 in., Length Tailpipe _____ ft.
8. Motor: Fuel Elec. Make & Model _____ HP. 7½
9. Yield: Flow ___ gpm, Pump 40 gpm, Meas., (Rept.), Est. _____
10. Performance Test: Date _____ Length of Test ___ Made by _____
    Static Level ___ ft. Pumping Level ___ ft. Drawdown ___ ft.
    Production _____ gpm Specific Capacity _____ gpm/ft.
11. Water Level: 48.99 ft. rept. (meas.) 11/21 19 55 above (below) top of casing which is 4.99 ft. above (below) surface.
    _____ ft. rept. meas. _____ 19 ___ above (below) _____ which is ___ ft. above (below) surface.
    _____ ft. rept. meas. _____ 19 ___ above (below) _____ which is ___ ft. above (below) surface.
    _____ ft. rept. meas. _____ 19 ___ above (below) _____ which is ___ ft. above (below) surface.
12. Use: (Dom.), Stock, Public Supply, (Ind.), Irr., Waterflooding, Observation, Not Used, _____
13. (Quality) (Remarks on taste, odor, color, etc.) _____
    Temp. ___ °F, Date sampled for analysis 6/25/53 Laboratory _____
    Temp. ___ °F, Date sampled for analysis _____ Laboratory _____
    Temp. ___ °F, Date sampled for analysis _____ Laboratory _____
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,
    Formation Samples, Pumping Test, _____
15. Record by: TWDB Date 3/3 19 71
    Source of Data USGS well sched (JW Hood 6/25/53)
16. Remarks:
    Well drilled entirely in hard rock - some beds of sand - probably Cretaceous since surface rock is K
    (15' of shaft - about 100' east of other well) 49-12-607
    Both wells 49-12-606 & 607 used only for drinking water at present.
    Pumping and also no access to measure WL 4/1/55 RR

CASING & BLANK PIPE

Cemented From ___ ft. to ___ ft.

| Diam. (in.) | Type | Setting, ft. from | Setting, ft. to |
|---|---|---|---|
| 6 | Steel | | |

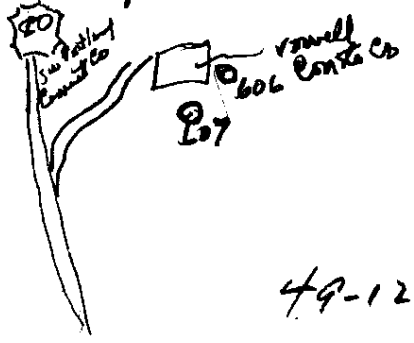
WELL SCREEN

Screen Openings _____

| Diam. (in.) | Type | Setting, ft. from | Setting, ft. to |
|---|---|---|---|

Wells used in cement mfg process

(Sketch)




TWDBE-WD-2

49-12-606 ✓

# TWDB Groundwater Database Query Result

---

## REPORTED WATER WELL DATA ON STATE WELL NUMBER = 4912607

**Query for another State Well Number:** Submit

---

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

| Field | Value | *Explanation |
|---|---|---|
| STATE WELL NUMBER | 4912607 | |
| COUNTY CODE | 141 | El Paso County, Texas |
| BASIN | 23 | Rio Grande Basin |
| PREVIOUS WELL NUMBER | U-60 | |
| LATITUDE | 314739 | DMS (in decimal degrees: 31.794167) |
| LAT DEC | 31.794166 | |
| LONGITUDE | 1063127 | DMS (in decimal degrees: -106.524167) |
| LONG DEC | -106.524166 | |
| OWNER 1 | Southwestern Portland | |
| OWNER 2 | Cement Co. | |
| DRILLER 1 | Southwestern | |
| DRILLER 2 | Portland Cement Co. | |
| SOURCE OF COORDINATES | 1 | |
| AQUIFER CODE | 112MSBL | MESILLA BOLSON |
| AQUIFER ID1 | 1 | Hueco-Mesilla Bolson Aquifer |
| AQUIFER ID2 | | |
| AQUIFER ID3 | | |
| ELEVATION | 3800 | feet |
| ELEVATION MEASUREMENT | | |

| | | |
|---|---|---|
| METHOD | M | Interpolated From Topo Map |
| ALPHA CODE | | |
| DATE DRILLED | 00001951 | |
| WELL TYPE | W | Withdrawal of Water |
| WELL DEPTH | 240 | feet |
| SOURCE OF DEPTH | O | Owner |
| TYPE OF LIFT | S | Submersible Pump |
| TYPE OF POWER | E | Electric Motor |
| HORSEPOWER | | |
| PRIMARY WATER USE | H | Domestic |
| SECONDARY WATER USE | N | Industrial |
| TERTIARY WATER USE | | |
| WATER LEVEL AVAILABLE | M | Click here for water level data |
| WATER QUALITY AVAILABLE | N | |
| WELL LOGS AVAILABLE | | |
| OTHER DATA AVAILABLE | | |
| DATE COLLECTED OR UPDATED | 03031975 | |
| REPORTING AGENCY | 01 | TWDB or Predecessor Agency |
| WELL SCHEDULE IN FILE | | |
| CONTRUCTION METHOD | | |
| COMPLETION | | |
| CASING MATERIAL | | |
| SCREEN MATERIAL | | |
| GMA | 5 | |
| RWPA | E | |
| DISTRICTID | | |

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TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer _____ Field No. U-60 State Well No. 49-12-607

Owner's Well No. _____ County El Paso

1. Location: ___ 1/4, ___ 1/4 Sec. _____, Block _____ Survey _____
   3147394N 1063125.1
2. Owner: Southwest Portland Cement Company Address: _____
   Tenant: Vowell Constr Co Address: _____
   Driller: _____ Address: _____
3. Elevation of LSD is 3800± ft. above msl, determined by Topo
4. Drilled: _____ 19 51 ; Dug, Cable Tool, Rotary, _____
5. Depth: Rept. 240 ft. Meas. _____ ft.
6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed Sub
7. Pump: Mfgr. Berkley Type Turbine
   No. Stages _____, Bowls Diam. ___ in., Setting _____ ft.
   Column Diam. _____ in., Length Tailpipe _____ ft.
8. Motor: Fuel Elec Make & Model _____ HP. _____
9. Yield: Flow ___ gpm, Pump ___ gpm, Meas., Rept., Est. _____
10. Performance Test: Date _____ Length of Test ___ Made by _____
    Static Level ___ ft. Pumping Level ___ ft. Drawdown ___ ft.
    Production _____ gpm Specific Capacity _____ gpm/ft.

CASING & BLANK PIPE
Cemented From _____ ft. to _____ ft.

| Diam. (in.) | Type | Setting, ft. from | to |
|---|---|---|---|
| 8 | | | 240 |

11. Water Level: 45.88 ft. rept. meas. 11/21 19 55 above (below) top of csg which is ___ ft. above (below) surface.
    _____ ft. rept. meas. _____ 19 ___ above below _____ which is ___ ft. above below surface.
    _____ ft. rept. meas. _____ 19 ___ above below _____ which is ___ ft. above below surface.
    _____ ft. rept. meas. _____ 19 ___ above below _____ which is ___ ft. above below surface.
12. Use: (Dom.) Stock, Public Supply, (Ind.) Irr., Waterflooding, Observation, Not Used, _____
13. Quality: (Remarks on taste, odor, color, etc.) _____
    Temp. ___ °F, Date sampled for analysis _____ Laboratory _____
    Temp. ___ °F, Date sampled for analysis _____ Laboratory _____
    Temp. ___ °F, Date sampled for analysis _____ Laboratory _____
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,
    Formation Samples, Pumping Test, _____
15. Record by: TWDB Date 3/3 1975
    Source of Data USGS well sched (RESmith 11/21/55)
16. Remarks:
    Both wells (49-12-606 & 607) used only for drinking water at present. 205' pump shaft on this well. About 100' west of other well (SU-59-49-12-606)

WELL SCREEN
Screen Openings _____

| Diam. (in.) | Type | Setting, ft. from | to |
|---|---|---|---|
| | | | |

4/4/75
Pumping, Above access to measure Wl

See Sketch on 606

TWDBE-WD-2 (Sketch) 49-12-607 ✓

# TWDB Groundwater Database Query Result

---

## REPORTED WATER WELL DATA ON STATE WELL NUMBER = 4912901

**Query for another State Well Number:** Submit

---

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

| Field | Value | *Explanation |
|---|---|---|
| STATE WELL NUMBER | 4912901 | |
| COUNTY CODE | 141 | El Paso County, Texas |
| BASIN | 23 | Rio Grande Basin |
| PREVIOUS WELL NUMBER | U-86 | |
| LATITUDE | 314637 | DMS (in decimal degrees: 31.776944) |
| LAT DEC | 31.776943 | |
| LONGITUDE | 1063029 | DMS (in decimal degrees: -106.508056) |
| LONG DEC | -106.508055 | |
| OWNER 1 | University of Texas | |
| OWNER 2 | El Paso | |
| DRILLER 1 | | |
| DRILLER 2 | | |
| SOURCE OF COORDINATES | 1 | |
| AQUIFER CODE | 112MSBL | MESILLA BOLSON |
| AQUIFER ID1 | 1 | Hueco-Mesilla Bolson Aquifer |
| AQUIFER ID2 | | |
| AQUIFER ID3 | | |
| ELEVATION | 4035 | feet |
| ELEVATION MEASUREMENT METHOD | D | Digital Elevation Model -DEM |

| | | |
|---|---|---|
| ALPHA CODE | | |
| DATE DRILLED | 06001979 | |
| WELL TYPE | T | Test Hole |
| WELL DEPTH | 394 | feet |
| SOURCE OF DEPTH | A | Another Government Agency |
| TYPE OF LIFT | N | None |
| TYPE OF POWER | | |
| HORSEPOWER | | |
| PRIMARY WATER USE | U | Unused |
| SECONDARY WATER USE | | |
| TERTIARY WATER USE | | |
| WATER LEVEL AVAILABLE | N | |
| WATER QUALITY AVAILABLE | N | |
| WELL LOGS AVAILABLE | | |
| OTHER DATA AVAILABLE | | |
| DATE COLLECTED OR UPDATED | 07131980 | |
| REPORTING AGENCY | 02 | US GEOLOGICAL SURVEY |
| WELL SCHEDULE IN FILE | | |
| CONTRUCTION METHOD | | |
| COMPLETION | | |
| CASING MATERIAL | S | Steel |
| SCREEN MATERIAL | P | PVC, Fiberglass, other Plastic |
| GMA | 5 | |
| RWPA | E | |
| DISTRICTID | | |

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APR 29 1981

CR/TDWR

TEXAS DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

Aquifer(s)_____ Project No._____ State Well No. 49 - 12 - 901

_____ Field No./Owner's Well No._____ County El Paso

1. Location:___ ¼, ___ ¼, Section____, Block____, Survey_____, Lat. 314637 N, Long. 1063037

2. Owner: Univ. Texas El Paso (Geophysics) Address:_____

Tenant (other):_____ Address:_____

Driller: Binkley Address:_____

3. Land Surface Elevation: 3970 ft. above msl determined by Smeltertown 7½' map

4. Drilled: June 19 79; Dug, Cable Tool, Rotary, Air,____

5. Depth: Rept.____ ft. Meas. 394 ft.

6. Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfr._____ Type None

No. Stages____, Bowls Diam.____ in., Setting_____ ft.

Column Diam._____ in., Length Tailpipe_____ ft.

8. Motor: Mfr._____ Fuel_____ HP.____

9. Yield: Flow____ gpm, Pump____ gpm, Meas., Rept., Est.____ Date___

10. *Performance Test*: Date____ *Length of Test*____ Made by_____

Static Level____ ft. Pumping Level____ ft. Drawdown____ ft.

Production_____ gpm Specific Capacity_____ gpm/ft.

11. Quality: (Remarks on taste, odor, color, etc.)_____

Analyses

Date_____ Laboratory_____ TDS____ Sp Cond____

Date_____ Laboratory_____ TDS____ Sp Cond____

12. Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log, Formation Samples, Geophysical Log(s) T-log Cuttings & core data at UTEP (type)

CASING, BLANK PIPE & WELL SCREEN
Cemented From____ ft. to____ ft.

| Diam. (in.) | Type | Setting (feet) from | to |
|---|---|---|---|
| 1½ | steel | | |
| No Perf. or screen | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

13. Water Level(s):____ ft. rept. meas.____ 19___ above below_____ which is____ ft. above below Land Surface

_____ ft. rept. meas.____ 19___ above below_____ which is____ ft. above below Land Surface

14. Use: Dom., Stock, Public Supply, Ind., Irr., (Observation) Other (Test Hole, Oil Test, etc.) Heat flow

15. Recorded by: J. Mikels (USGS) Source of data: T-log & field Date: 7/13/80

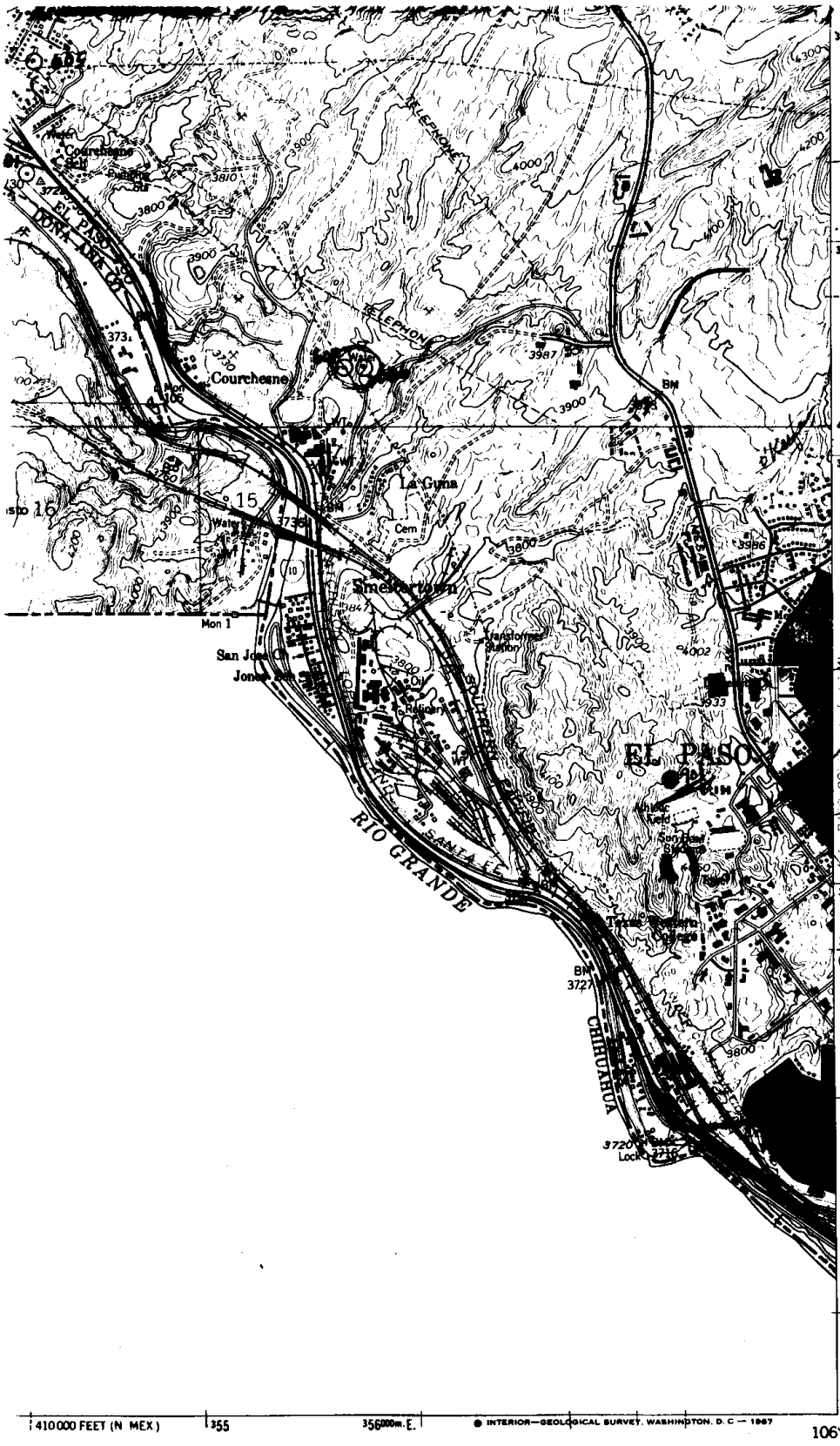
16. Remarks: Sealed at bottom & filled with water.

17. Location or Sketch:

TDWR-0308

W/L Obs. Well ___ W/Q Obs. Well ___

State Well No. 49 - 12 - 901




(YSLETA NW)
4747 III NW

ROAD CLASSIFICATION

Heavy-duty ——— Light-duty ———

Medium-duty ——— Unimproved dirt - - - - - -

(10) Interstate Route (80) U.S. Route (20) State Route

QUADRANGLE LOCATION

SMELTERTOWN, TEX.-N. MEX.

SE/4 CANUTILLO 15 QUADRANGLE

N3145—W10630/7.5

49-12

3106-341

PHOTOREVISED 1967

AMS 4647 I SE-SERIES V882

# TWDB Groundwater Database Query Result

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## REPORTED WATER WELL DATA ON STATE WELL NUMBER = 4912902

**Query for another State Well Number:** Submit

---

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

| Field | Value | *Explanation |
|---|---|---|
| STATE WELL NUMBER | 4912902 | |
| COUNTY CODE | 141 | El Paso County, Texas |
| BASIN | 23 | Rio Grande Basin |
| PREVIOUS WELL NUMBER | | |
| LATITUDE | 314703 | DMS (in decimal degrees: 31.784167) |
| LAT DEC | 31.784166 | |
| LONGITUDE | 1063139 | DMS (in decimal degrees: -106.527500) |
| LONG DEC | -106.527499 | |
| OWNER 1 | American Dam | |
| OWNER 2 | USGS well | |
| DRILLER 1 | | |
| DRILLER 2 | | |
| SOURCE OF COORDINATES | 0 | |
| AQUIFER CODE | 111RGRD | RIO GRANDE ALLUVIUM |
| AQUIFER ID1 | 22 | Other Aquifer |
| AQUIFER ID2 | | |
| AQUIFER ID3 | | |
| ELEVATION | 3714 | feet |
| ELEVATION MEASUREMENT METHOD | M | Interpolated From Topo Map |

| | | |
|---|---|---|
| ALPHA CODE | | |
| DATE DRILLED | | |
| WELL TYPE | W | Withdrawal of Water |
| WELL DEPTH | 42 | feet |
| SOURCE OF DEPTH | A | Another Government Agency |
| TYPE OF LIFT | | |
| TYPE OF POWER | | |
| HORSEPOWER | | |
| PRIMARY WATER USE | | |
| SECONDARY WATER USE | | |
| TERTIARY WATER USE | | |
| WATER LEVEL AVAILABLE | U | Click here for water level data |
| WATER QUALITY AVAILABLE | N | |
| WELL LOGS AVAILABLE | | |
| OTHER DATA AVAILABLE | | |
| DATE COLLECTED OR UPDATED | 12192007 | |
| REPORTING AGENCY | 02 | US GEOLOGICAL SURVEY |
| WELL SCHEDULE IN FILE | | |
| CONTRUCTION METHOD | | |
| COMPLETION | | |
| CASING MATERIAL | P | PVC, Fiberglass, other Plastic |
| SCREEN MATERIAL | | |
| GMA | 5 | |
| RWPA | E | |
| DISTRICTID | | |

## Groundwater Database Disclaimer

The Groundwater Database (GWDB) of the Texas Water Development Board (TWDB) contains information about more than 123,500 water well, spring, and oil/gas test sites in Texas including associated water level and water quality data. Because data collection methods and data maintenance have varied and evolved over the years, the information in the GWDB has a range of accuracy that the user needs to be aware of. See Explanation of Groundwater Data for information on the sources of information and level of accurracy in the document.

The TWDB is providing information via this Web site as a public service. Except where noted, all

of the information provided is believed to be accurate and reliable; however, the Texas Water Development Board (TWDB) assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. **PLEASE NOTE** that users of this Web site are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via this Web site. TWDB specifically disclaims any and all liability for any claims or damages that may result from providing the Web site or the information it contains, including any Web sites maintained by third parties and linked to the TWDB Web site. TWDB makes no effort to verify independently, and does not exert editorial control over information on pages outside of the www.twdb.state.tx.us domain and its sub-domains. It is the user's responsibility to take precautions to ensure that whatever is selected is free of such items as viruses, worms, Trojan horses and other items of a destructive nature.

For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

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*This page is maintained by WIID Staff*
*Last updated on 1/27/2012 10:43:57 AM*

# Groundwater Database Query Result



**NO REPORTED SCANNED IMAGE DATA ON 4912902!**

**Go Back**

## Groundwater Database Disclaimer

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*TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)*

*PLOTTED WELL LOG EXHIBIT*

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No plotted wells identified in TCEQ files within ½ mile radius

*TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)*

*PARTIALLY NUMBERED WELL LOG EXHIBIT*

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No partially numbered wells identified in TCEQ files within ½ mile radius

*TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)*

*UNNUMBERED WELL LOG EXHIBIT*

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No unnumbered wells identified in TCEQ files within ½ mile radius

**CITY OF EL PASO**
**EL PASO WATER UTILITIES**
**CHEMICAL ANALYSIS – CITY WATER**

(All results expressed in milligrams per liter, mg/l)

| PARAMETER TESTED | WATER SOURCE LOCATION | | | | | | | MAXIMUM LEVEL PERMITTED |
|---|---|---|---|---|---|---|---|---|
| | **UPPER VALLEY** | **DOWNTOWN CENTRAL** | **NORTHEAST** | **AIRPORT CENTRAL** | **FORT BLISS AIRPORT** | **LOWER VALLEY** | **LOWER VALLEY CENTRAL** | |
| | UPPER VALLEY WELL FIELD SUPPLIES UPPER VALLEY WTP WITH 34 WELLS *YEAR-ROUND* | ROBERTSON/ UMBENHAUER WTP SUPPLIED BY RIO GRANDE *MAR - SEPT* | NORTHEAST WELL FIELD 29 WELLS BLENDED INTO DISTRIBUTION *OCT - FEB* | AIRPORT WELL FIELD 38 WELLS BLENDED INTO DISTRIBUTION *OCT - FEB* | FORT BLISS & AIRPORT WELL FIELDS SUPPLY KBH DESAL PLANT WITH 32 WELLS *YEAR-ROUND* | JONATHAN ROGERS WTP SUPPLIED BY RIO GRANDE *MAR - SEPT* | LOWER VALLEY & CENTRAL WELL FIELD 29 WELLS DIRECT INTO DISTRIBUTION *OCT - FEB* | |
| | **SOURCE 1** | **SOURCE 2** | **SOURCE 3** | **SOURCE 4** | **SOURCE 5** | **SOURCE 6** | **SOURCE 7** | |
| | *AVG* | *AVG* | *AVG* | *AVG* | *AVG* | *AVG* | *AVG* | |
| Total Dissolved Solids | 630 | 650 | 470 | 627 | 454 | 700 | 862 | 1000 mg/l |
| Phenol Alkalinity as $CaCO_3$ | 3.8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | Not established |
| Total Alkalinity as $CaCO_3$ | 121 | 130 | 115 | 110 | 24.5 | 133 | 125 | Not established |
| Total Hardness as $CaCO_3$ | 119 | 235 | 149 | 168 | 63 | 230 | 236 | Not established |
| Chlorides as Cl | 117 | 107 | 177 | 195 | 182 | 133 | 283 | 300 mg/l |
| Sulfates as $SO_4$ | 189 | 191 | 71 | 104 | 14 | 182 | 160 | 300 mg/l |
| Fluorides as F | 0.59 | 0.58 | 0.87 | 0.68 | NA | 0.62 | 0.55 | 4.0 mg/l |
| Silica as $SiO_2$ | 36 | 20 | 32 | 31 | NA | 20 | 29 | Not established |
| Nitrates as $NO_3$ | <0.10 | 0.41 | 1.96 | 1.6 | NA | 2.1 | 0.95 | 10 mg/l |
| Nitrites as $NO_2$ | <0.05 | <0.05 | <0.05 | <0.05 | NA | <0.05 | 0.06 | 1.0 mg/l |
| Phosphates as $PO_4$ | <0.05 | 0.55 | <0.05 | 0.07 | 0.51 | 0.68 | 0.14 | Not established |
| Calcium as Ca | 42 | 71 | 43 | 43 | 14 | 71 | 78 | Not established |
| Magnesium as Mg | 5.5 | 15 | 11.3 | 13 | 3.9 | 15 | 21 | Not established |
| Sodium as Na | 168 | 130 | 105 | 153 | 109 | 133 | 217 | Not established |
| Potassium as K | 3.6 | 7.9 | 7.3 | 10.4 | 4.5 | 8.6 | 9.4 | Not established |
| Iron as Fe | <0.020 | <0.020 | <0.020 | <0.020 | <0.03 | <0.03 | 0.027 | 0.3 mg/l |
| Manganese as Mn | 0.050 | 0.012 | <0.010 | <0.010 | NA | <0.010 | 0.016 | 0.05 mg/l |
| pH | 8.1 | 7.3 | 7.7 | 7.9 | 7.5 | 7.3 | 7.6 | pH 6.5-8.5 |

The city is supplied by seven distinct blended sources that are interconnected in the distribution system and it is possible that the water from one source can be distributed to other parts of the city. Normally, the distribution of these sources to the city's areas is as follows: **Upper Valley and Northwest – Source 1; West – Sources 1 & 2; Downtown Central – Sources 2, 4, & 7; Airport Central – Sources 2 & 4; Northeast – Sources 3, 5, & 6; East – Sources 4, 5 & 6; Far East – Sources 3, 5, & 6; and Lower Valley – Sources 4, 6, & 7.** The areas supplied by each of these sources are as indicated by the attached distribution maps on a seasonal basis. However, the ratios of water supplied by one source or another are constantly changing and therefore intermixing of water within these areas is possible.*

In general, the hardness may be considered to average about 175 mg/l or about 10.2 grains per gallon.** The fluoride content is considered ideal for maximum protection of teeth. A chlorine residual of 0.5 to 1.5 mg/l is maintained to prevent tastes and odors and to assure disinfected water. Disinfection is necessary to prevent waterborne illness caused by bacteria, protozoa or viruses.
Primary drinking water regulations establish that surface and ground waters be tested for inorganic chemicals. A list of these chemicals along with their limits (in ppm, unless otherwise specified) follows:

| | | | | | |
|---|---|---|---|---|---|
| Antimony (0.006 mg/l) | Barium (2.0 mg/l) | Chromium (0.1 mg/l) | Fluoride (4.0 mg/l) | Nitrate as N (10.0 mg/l) | Thallium (0.002 mg/l) |
| Arsenic (0.01 mg/l) | Beryllium (0.004 mg/l) | Copper (1.3 mg/l) | Lead (0.015 mg/l) | Nitrite as N (1.0 mg/l) | Uranium (0.03 mg/l) |
| Asbestos (7 MFL***) | Cadmium (0.005 mg/l) | Cyanide (0.2 mg/l) | Mercury (0.002 mg/l) | Selenium (0.05 mg/l) | |

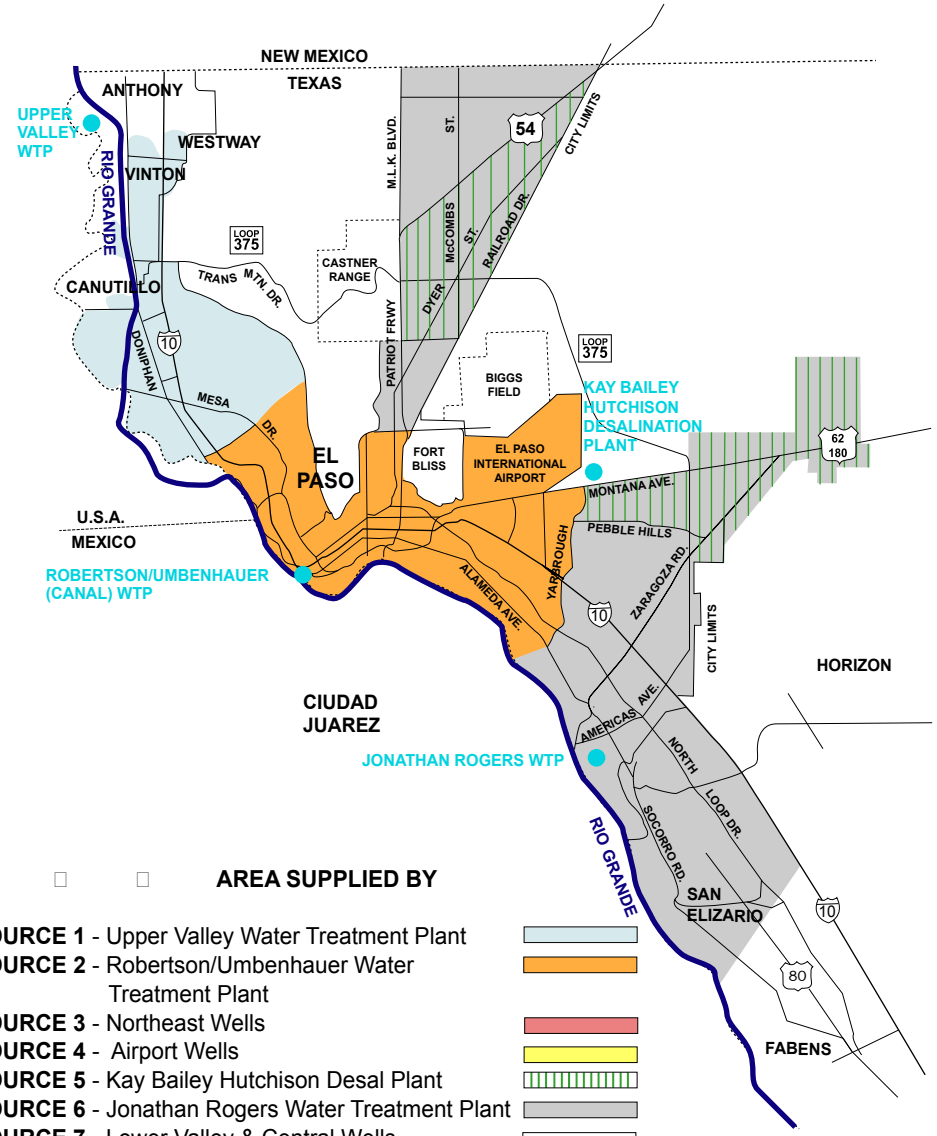
Drinking water must also be tested for Organic Chemicals (Pesticides and Insecticides), Disinfectants and Disinfection By-Products (e.g. Total Trihalomethanes (0.08 mg/l) and Haloacetic Acids (0.06 mg/l)), and Microbial Contaminants as specified by the State. Radiochemical analysis is also performed.

* The blended water received by customers meets all standards of the Texas Commission on Environmental Quality for drinking water.
** One grain per gallon = 17.1 mg/l
*** MFL, or million fibers per liter; fiber length greater than 10 µm

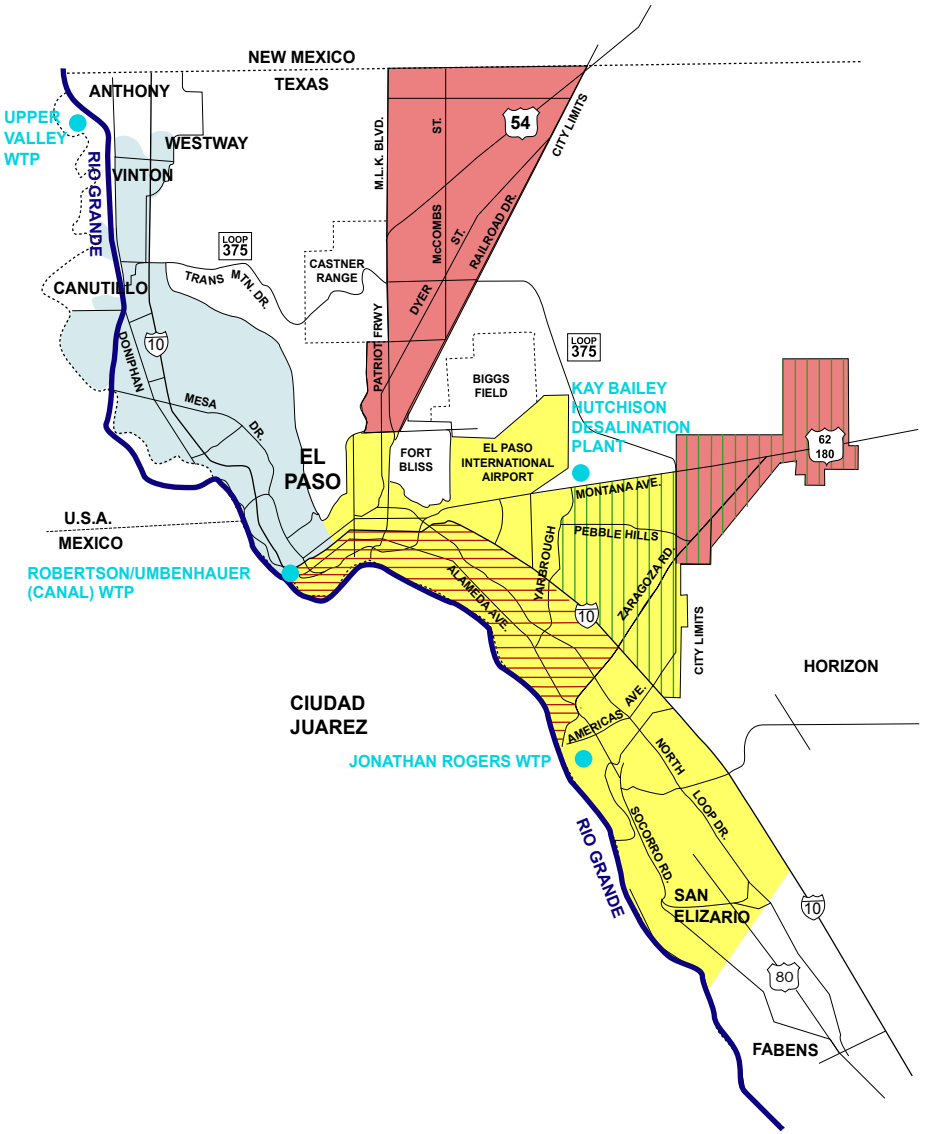
**Revised 07/2008**

# EL PASO WATER UTILITIES
# TYPICAL WATER DISTRIBUTION SUPPLY PATTERN

## March - September




## October - February




**AREA SUPPLIED BY**

**SOURCE 1** - Upper Valley Water Treatment Plant
**SOURCE 2** - Robertson/Umbenhauer Water Treatment Plant
**SOURCE 3** - Northeast Wells
**SOURCE 4** - Airport Wells
**SOURCE 5** - Kay Bailey Hutchison Desal Plant
**SOURCE 6** - Jonathan Rogers Water Treatment Plant
**SOURCE 7** - Lower Valley & Central Wells