



Two-Year Groundwater Monitoring Report *for Years 1997 and 1998*



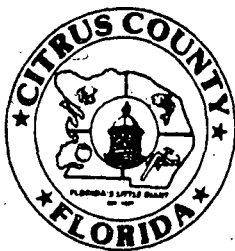
Prepared for

Citrus County
Central Landfill

Prepared by

CH2MHILL

July 1999



BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

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July 12, 1999

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Southwest District Tampa

John Morris
Solid Waste Section
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Re: Citrus County Central Landfill,
Permit No. SO09-274381, Specific Condition 40
Groundwater Monitoring Plan Evaluation

Dear Mr. Morris:

Two copies of the July 1999 report evaluating the landfill's groundwater monitoring plan as required in SC 40 of the referenced permit is attached. This report was prepared by CH2M HILL for Citrus County. The evaluation shows that the monitoring program complies with Department requirements and adequately reflects groundwater conditions at the site.

If you would like to discuss any of the details of the report, please contact me.

Yours truly,

Susan J. Metcalfe

Susan J. Metcalfe, P.G.
Director, Division of
Solid Waste Management

CC: Kenneth E. Saunders Jr., Director, Public Works Department
Robert Butera, FDEP, Tampa

Post-it® Fax Note	7671	Date	1/24/00	# of pages	1
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Two-Year Groundwater Monitoring Report

for Years 1997 and 1998

Prepared for

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D.E.P.

JUL 14 1999

Southwest District Tampa

July 1999



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1. Introduction

1.1 Background

This Two-Year Groundwater Monitoring Report is being prepared per requirements contained in the Specific Condition 40 of the Landfill Operating Permit (No. S009-274381) for the Citrus County Central Landfill. The purpose of this Two-Year Groundwater Monitoring Report is to present the groundwater monitoring data collected for the years 1997 and 1998. The requirements of this technical report are described in Rule 62-701.510 (9)(b), Florida Administrative Code (FAC), *Water Quality and Leachate Monitoring Requirements*, under Water Quality Monitoring Reporting, Technical Report. The requirements of the report are summarized below:

- Tabular and graphical displays of any data which show that a monitoring parameter has been detected, including hydrographs of all wells
- Trend analyses of any monitoring parameters detected
- Comparisons among shallow, middle, and deep zone wells
- Comparisons between upgradient and downgradient wells
- Correlations between related parameters such as total dissolved solids and specific conductance
- Discussion of erratic and/or poorly correlated data
- An interpretation of groundwater contour maps, including an evaluation of groundwater flow rates
- An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions

1.2 Site Description and Topography

The Citrus County Central Landfill is bordered on the west, south, and east by the Withlacoochee State Forest, and on the north by State Road 44 (see Figure 1-1). The site consists of a closed 60-acre landfill and an active 80-acre landfill. Pre-development elevations range from 100 feet to 130 feet National Geodetic Vertical Datum (NGVD). The majority of the area is relatively flat. Site topography is shown in Figure 1-2.

1.3 Site History and Operation

The Citrus County Central Landfill is situated on property leased and purchased from the State Division of Forestry, and is operated by the Citrus County Board of County

Commissioners. The closed 60-acre site (leased) received its original operation permit from the Florida Department of Environmental Protection (FDEP) on November 12, 1975. The 80-acre site currently operates under FDEP Permit No. SO09-274381, with the most recent modification dated February 23, 1998 when the Phase IA expansion was put into operation. The landfill handles all of Citrus County's solid wastes resulting from domestic and commercial activities. Phase I of the existing landfill has been in operation since January 1991. Phase IA has been in operation since April 1998.

The closed 60-acre landfill, the majority of which was constructed without a liner (7 acres have a bottom liner), has been capped. The active 80-acre landfill has been constructed with a synthetic liner and a leachate collection system. Landfill expansions are constructed with a double liner system.

1.4 Previous Investigations

Seaburn and Robertson, Inc., prepared a landfill renewal operation permit application for the Citrus County Central Landfill in 1986. As part of permitting Phase I of the Citrus County Central Landfill, a hydrogeological investigation was performed by Post, Buckley, Schuh, and Jernigan (PBS&J), Inc., of Orlando, Florida, and a geotechnical investigation was performed by Universal Engineering Testing Company of Orlando, Florida. Both investigations were performed in 1988. CH2M HILL prepared a Contamination Assessment Plan in April 1995 and a Contamination Assessment Report (CAR) in April 1996. Citrus County Central Landfill staff prepared a Groundwater Monitoring Evaluation Report in October 1994 and Hydro Q prepared a Groundwater Monitoring Plan in April 1995. CH2M HILL prepared a 2-year Groundwater Monitoring Report in August, 1997.

1.5 Regional Hydrogeology

The central ridge area of Citrus County is covered by undifferentiated sand and clay (see Figure 1-3). A simplified stratigraphic sequence from top to bottom includes undifferentiated sands and clays of varying thicknesses overlying clays of the Hawthorn Formation, which overlie a thick sequence of limestones, including the Oligocene Suwannee Formation, Eocene Ocala Group, and Eocene Avon Park Formation. Clays of the Hawthorn Formation are not laterally continuous in the central ridge area. Geologic cross-sections are shown in Figure 1-4.

Quaternary sediments consist of unconsolidated to poorly indurated clastic deposits composed mostly of quartz sand. These upper sediments were probably deposited by fluvial or eolian mechanisms. Portions of Citrus County have only a veneer of Quaternary sediments overlying the Eocene Ocala Group and Avon Park Limestone (Vernon, 1951). The Stratenville and Devils Millhopper facies of the Hawthorn Formation underlie the Quaternary sediments, and are Pliocene to Miocene in age. These sediments were deposited in a variety of environments and consist of sand, silty sand, and waxy green clay. Phosphorite pebbles and oyster bars are common. The Hawthorn Formation may act as a partial confining unit to the Floridan aquifer in some parts of the county.

Below the surficial sands and clays lie a thick sequence of carbonate deposits consisting of Eocene limestones including the Suwannee, Ocala, and Avon Park formations. These

chemically-precipitated deposits contain shells and shell fragments of marine origin. The Oligocene Suwannee Limestone is exposed in the southwestern and northeastern parts of the county, and consists of a pure to slightly sandy limestone with secondary dolomitization. The Eocene Ocala Group consists of fossils in a silt to sand size matrix and is usually soft, porous and friable (Brooks, 1981). The Avon Park Formation consists of finely crystalline dolomite with some fossiliferous limestone. It is very permeable in some areas and is the deepest formation containing potable water (Seaburn and Robertson, 1985).

Groundwater in central Citrus County generally occurs under unconfined conditions. In the site vicinity, the Hawthorn Formation is not present and the undifferentiated sands are hydraulically connected to the Floridan aquifer. The average water table elevation is approximately 8 to 10 feet NGVD, which is approximately 110 feet below land surface (bls). Very little change occurs in the potentiometric surface between the wet and dry seasons because there has been relatively little groundwater development (Fretwell, 1983). Regional groundwater flow in the Floridan aquifer beneath the site is generally west toward the Gulf of Mexico. The site lies in a high recharge area estimated to receive between 10 and 20 inches of recharge per year (Steward, 1980). Transmissivities of the Floridan aquifer in western Citrus County range from 90,000 to 2,000,000 square feet per day (Fretwell, 1983).

1.6 Site-Specific Hydrogeology

PBS&J performed Standard Penetration Test (SPT) soil borings and developed several cross-sections at the site. A representative cross-section is shown in Figure 1-5. The upper 130 feet of sediments range from fine to medium sands to clayey, silty fine sands. Several 1-foot to 2-foot clay layers were encountered between 50 and 80 feet bls. The shallow stratigraphy of the site can be generalized as a 10-foot thick surface layer of fine to medium-grained quartz sand, underlain by 120 feet of silty, clayey sand, and silty, fine-grained sand. The sediments are probably part of the Alachua Formation of Pliocene Age. These sediments, above the Floridan aquifer, form a low permeability unit with an average hydraulic conductivity of 0.024 feet per day. Below these surficial sediments lies the thick sequence of carbonate rocks of the Floridan aquifer, including the Suwannee, Ocala, and Avon Park Formations.

The Oligocene Suwannee Formation outcrops in the southwestern and northeastern parts of Citrus County. Borings conducted at the landfill site reveal that the top of the Suwannee Formation is very irregular, with its top surface encountered as high as 80 feet NGVD at some locations. Land surface elevations average about 120 feet NGVD. At other locations it was not encountered in borings advanced as deep as -54 feet NGVD.

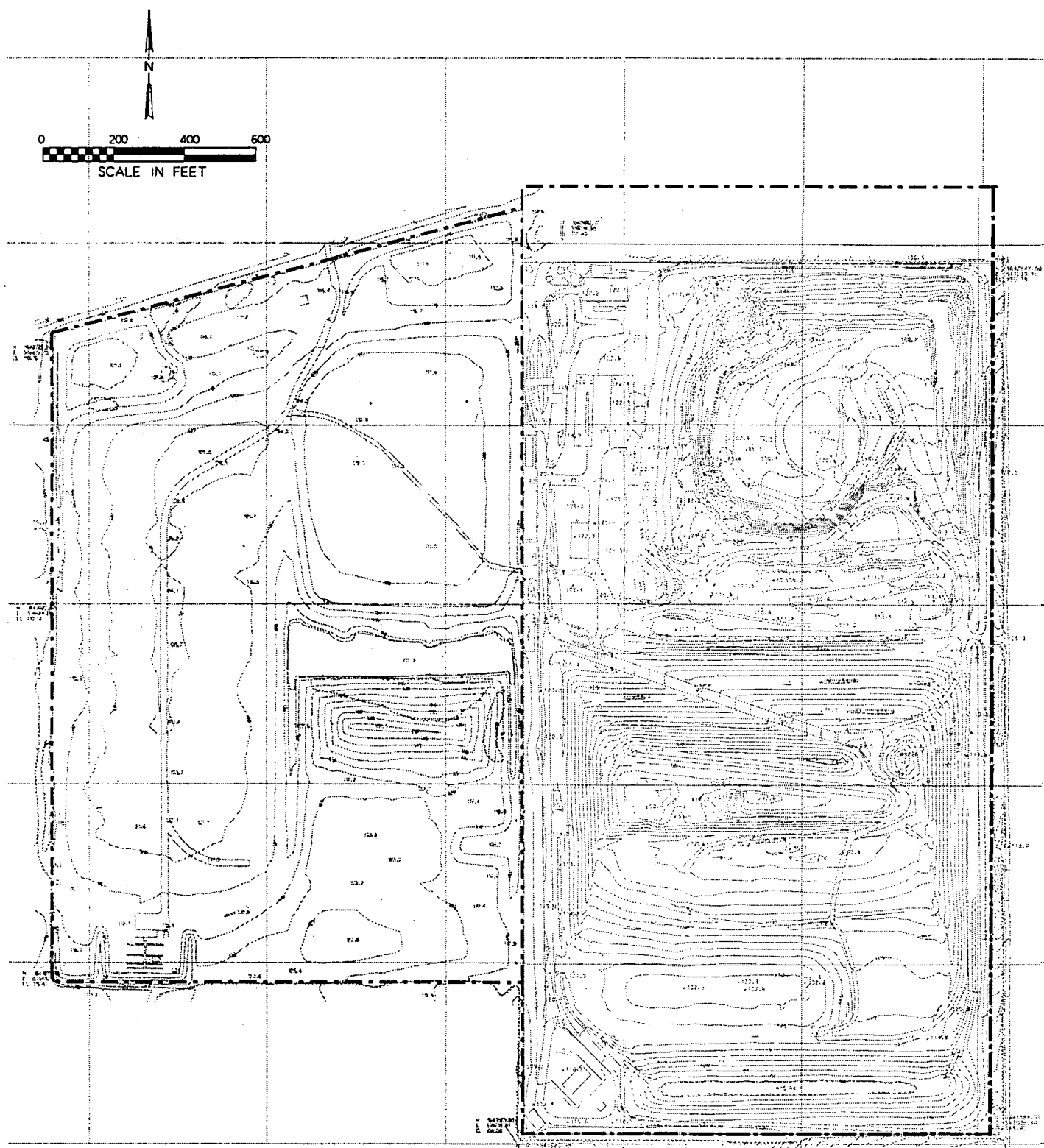
Groundwater elevations in the vicinity of the site range from approximately 5 feet to 12 feet NGVD (approximately 100 to 120 feet bls). In those areas where the limestone surface projects above the water table, the limestone aquifer is strictly unconfined. Beneath most of the site, however, the top surface of the limestone lies 50 or more feet below saturated low to moderately permeable surficial sediments. In these areas, the limestone aquifer can be characterized as semi-confined or leaky-confined.



Aerial Photograph Date: January 8, 1995

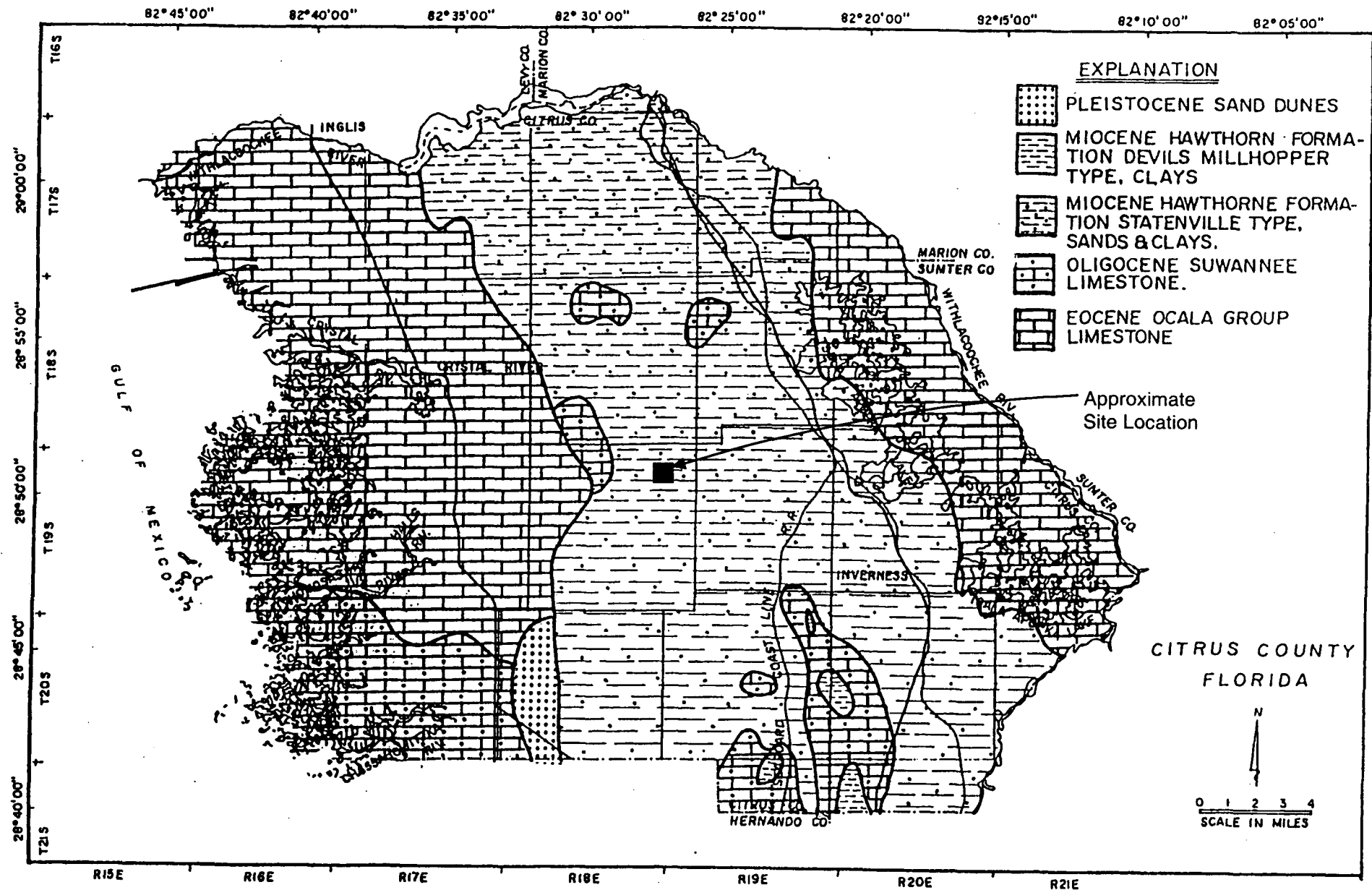
SCALE
1" = 2083'

FIGURE 1-1
Site Location Map



NOTE:
BASE MAPPING PREPARED
BY I.F. ROOKS AND ASSOCIATES, INC.
ON 4-27-98

FIGURE 1-2
Site Topography



Source: Groundwater Resource Availability Inventory, Citrus Co., Southwest Florida Water Management District, 1987

FIGURE 1-3
Regional Geology

A **A'** **LINE OF SECTION**

WELL AND FLORIDA BUREAU
OF GEOLOGY REFERENCE NUMBER

Geological Cross-Section Diagram

Counties: LEVY COUNTY, CITRUS COUNTY, HERNANDO COUNTY, PASCO COUNTY

Well Locations: W-1242, W-1214, W-1763, W-7766, W-7439, W-7763, W-5271

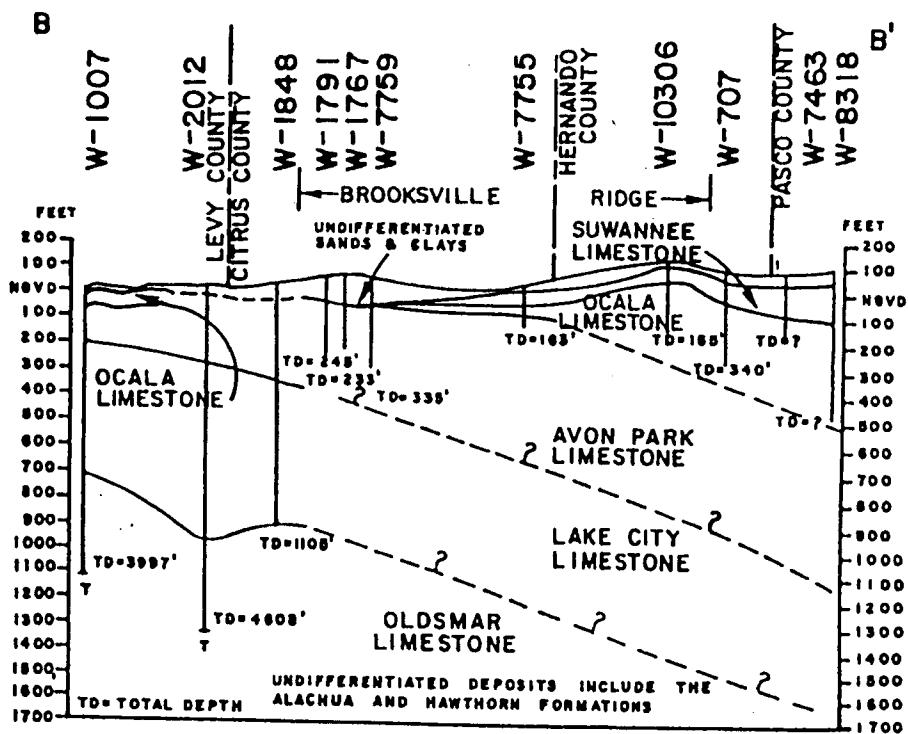
Rock Layers (from top to bottom):

- UNDIFFERENTIATED SANDS & CLAYS
- SUWANNEE LIMESTONE
- OCALA LIMESTONE
- AVON PARK LIMESTONE

Depth Scale (FEET): 0, 100, 200, 300, 400, 500, 600, 700, 800

Thickness Measurements (TD):

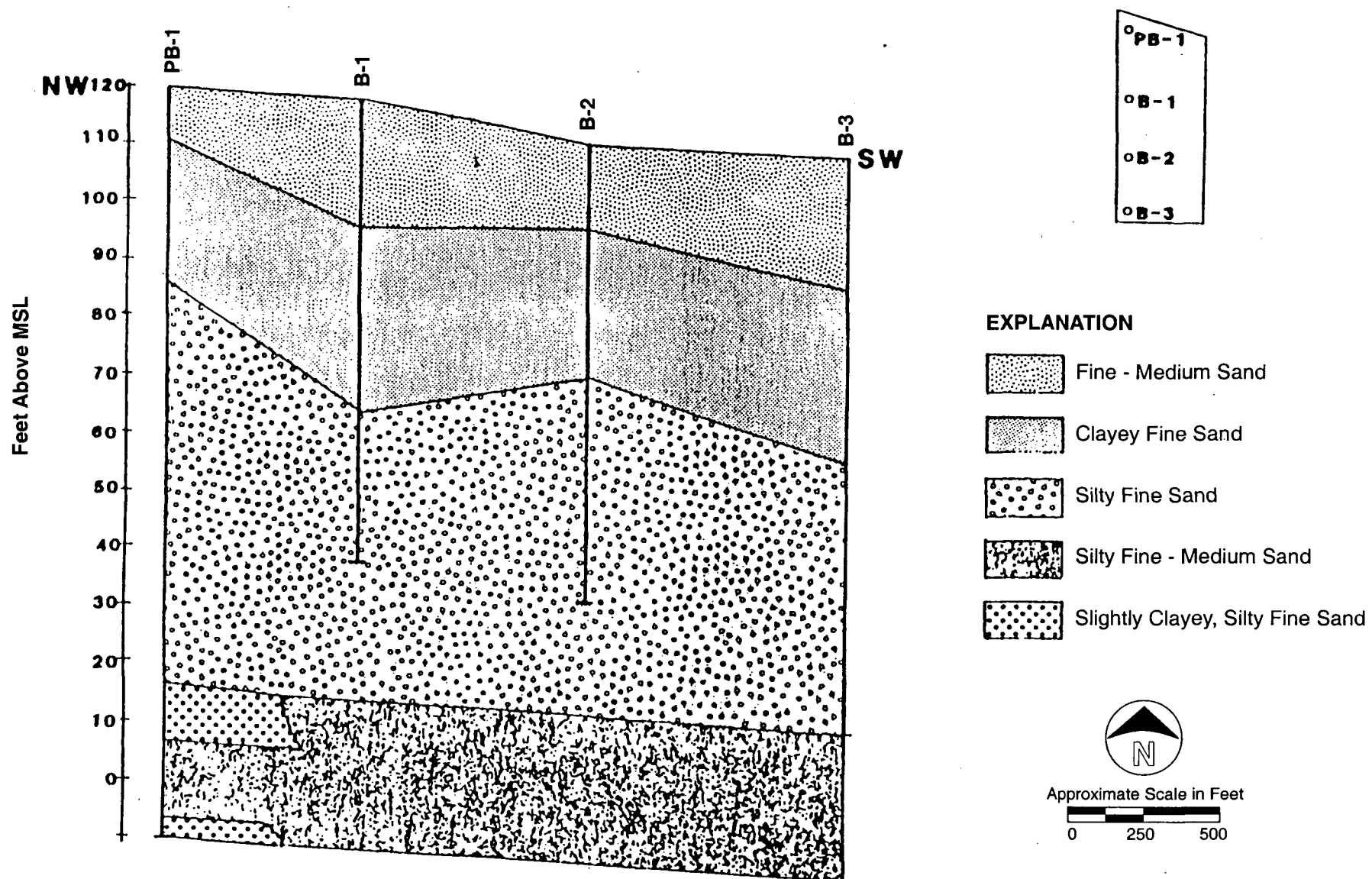
- TD=13'
- TD=88'
- TD=88'
- TD=140'
- TD=165'
- TD=7'
- TD=80'



OF 1929.

0 12 24 KILOMETERS

CH2MHILL



Source: Post, Buckley, Schuh & Jernigan, Inc. 1988

FIGURE 1-5
Local Geologic Cross-Section

2. Groundwater Monitoring Data

2.1 Existing Monitoring Network

The Citrus County Central Landfill, including both the 60-acre and 80-acre tracts, is currently monitored by 14 Floridan aquifer monitoring wells. Original monitoring wells MW-1 and MW-A have been replaced and are now referred to as MW-1R and MW-AA, respectively. Wells MW-AA, MW-B, MW-C, MW-D, and MW-E were installed to monitor the closed 60-acre landfill. Wells MW-1R, MW-2, and MW-3 are background or upgradient wells. Wells MW-4, MW-5, and MW-6 monitor the leachate effluent percolation ponds. The locations of these wells are shown in Figure 2-1. Table 2-1 provides well construction details, well type, and well coordinates:

Because the two landfills are adjacent to each other and the 80-acre landfill is upgradient from the 60-acre landfill, some of the monitoring wells (MW-1R and MW-B) served as both upgradient wells for the 60-acre landfill and downgradient wells for the 80-acre landfill. The two landfills are now evaluated as one unit, however, with wells MW-1R, MW-2, and MW-3 serving as background or upgradient wells; wells MW-4, MW-5, and MW-6 monitoring the leachate percolation ponds; and wells MW-AA, MW-B, MW-C, and MW-D serving as detection or downgradient wells. Monitoring well MW-B is transitioning from an upgradient well to a downgradient well as landfill cells are filled from south to north in the 80-acre site. Monitoring well MW-E is a compliance well located downgradient of well MW-AA.

Monitoring wells required by the construction of the Phase IA expansion (Wells MW-7, MW-8R, and MW-9) were installed, developed and first sampled in 1997. Well MW-7 serves as a new background well for the landfill while wells MW-8R and MW-9 were installed to serve as new down-gradient monitoring points. Wells MW-7, MW-8R, and MW-9 are also shown on Figure 2-1. Well MW-8R was installed to replace MW-8, which did not produce enough water to collect a full suite of samples. No additional wells have been installed since 1997.

2.2 Groundwater Levels and Flow Direction

Groundwater level data are shown for all of the 14 monitoring wells in Table 2-2. Groundwater level data are available for four semi-annual (2 years) gauging events (January 1997 - January 1999). Hydrographs for background (upgradient) monitoring wells MW-1R, MW-2, MW-3, and MW-7 are shown in Figure 2-2. Water levels varied from 4.71 feet NGVD to 10.37 feet NGVD in the upgradient wells over the 2-year period, and fluctuated approximately 2-4 feet in each individual well. Water levels were lowest in July of 1997. The highest water levels were recorded in January and October of 1998 (county re-measured groundwater levels in October due to equipment malfunction during July 1998 gauging event).

Hydrographs for detection (downgradient) wells MW-AA, MW-B, MW-C, MW-D, MW-E, MW8R, and MW-9 are shown in Figure 2-3. Water levels varied from 4.62 to 11.76 feet NGVD across these monitoring points over the 2-year period, and fluctuated approximately

2 to 6 feet in each individual well. Water levels were lowest in July 1997 and January 1999. The highest water levels were recorded in January and October 1996.

Figure 2-4 shows hydrographs for wells MW-4, MW-5, and MW-6, which monitor the leachate percolation ponds. Water levels varied from 5.98 to 10.08 feet NGVD over the 2-year period and fluctuated approximately 3 feet in each individual well. Water levels were generally higher and fluctuated more in these wells due to mounding effects created by the percolation ponds.

Groundwater historically has flowed from east to west across the site. Water table maps for the four gauging and sampling events are shown on Figures 2-5 through 2-8. The regional groundwater flow direction is generally to the west in all four monitoring events. Locally, groundwater mounding is evident in the January 1998 gauging round and is likely a result of operation of the percolation ponds. Some radial flow probably occurs from the percolation ponds.

2.3 Groundwater Flow Rate

The apparent horizontal groundwater velocity can be calculated based on the hydraulic conductivity, hydraulic gradient, and effective porosity. The hydraulic conductivity at the site averages 15.7 feet per day (ft/day) (CH2M HILL, 1996). The hydraulic gradient calculated from the groundwater flow map (Figure 2-5) is 0.0008 ft/ft. The effective porosity for sand is generally assumed to be approximately 0.2. The groundwater velocity is calculated using the following equation:

$$V = Ki/n$$

where:

V = average horizontal groundwater velocity (ft/day)

K = horizontal hydraulic conductivity (ft/day)

i = hydraulic gradient (ft/ft)

n = effective porosity (percent)

Using the data above, $V = (15.7 \text{ ft/day}) (0.0008 \text{ ft/ft}) / 0.2$. The horizontal groundwater velocity across the site is estimated to be 0.06 ft/day or 23 ft/year.

2.4 Groundwater Quality

Citrus County Central Landfill had exceedances of groundwater quality parameters in both 1997 and 1998. Historical data also shows groundwater quality exceedances in 1993, 1994, 1995, and 1996. In 1993 and 1994, vinyl chloride and benzene were detected above FDEP criteria in downgradient monitoring wells MW-AA and MW-E. Monitoring well MW-E was installed downgradient of MW-AA to monitor potential offsite migration of these compounds. The vinyl chloride and benzene detections were addressed by a Contamination Assessment Report (CH2M HILL, 1996). The FDEP concurred with the recommendations to continue to monitor the low levels of benzene and vinyl chloride.

Groundwater quality data for 1997 and 1998 indicates that vinyl chloride continues to be present in both wells MW-AA and MW-E. Benzene was identified only in well MW-AA during this sampling period.

In 1994 and 1995, sodium and TDS were detected above criteria in monitoring wells MW-5 and MW-6. The sodium and TDS detections were addressed by a Technical Memorandum entitled *Computer Simulations of Solute Concentrations in Groundwater at the Citrus County Central Landfill* (CH2M HILL, 1996). The FDEP concurred with the conclusions that sodium and TDS from leachate disposal activities were not projected to exceed Florida primary or secondary drinking water standards at the boundary of the landfill.

Water quality data collected over the four sampling events for 12 of the 14 wells are included in tabular form in Appendix A. Only parameters detected above the laboratory instrument method detection limits are included in the tables.

Under the new operational permit no. SO09-274381 dated October 28 1996, the July 1996 sampling event was the last quarterly sampling event for the landfill and the last sampling round for wells MW-4 and MW-5. Semi-annual sampling commenced with the January 1997 event.

A discussion of groundwater quality is presented on the following pages. The data are presented graphically by grouping related detected parameters. Benzene and vinyl chloride are presented together for wells MW-AA, MW-E, and MW-6. Conductivity, TDS, and chloride are good indicators of landfill leachate and are presented on the same graph for all 14 wells. Nitrate is another indicator parameter, and is plotted separately for each of the wells. Laboratory data were entered into a database. Tables and graphs were generated from database queries.

2.4.1 Background Wells

2.4.1.1 MW-1R

Monitoring well MW-1R is located between the 60-acre landfill and the 80-acre landfill on the northern edge of the property. It serves as a background (upgradient) well for the 80-acre landfill. Conductivity, TDS, and chloride data are presented in Figure 2-9. Conductivity data were stable with concentrations ranging from 130 $\mu\text{mhos/cm}$ to 205 $\mu\text{mhos/cm}$. TDS data were stable, with concentrations ranging from 66 milligrams per liter (mg/L) to 216 mg/L. Chloride concentrations ranged from 8.6 mg/L to 10 mg/L. No apparent upward or downward trends were evident.

Nitrate data are presented on Figure 2-10. Concentrations were stable, and ranged from 0.066 mg/L to 0.13 mg/L. The Maximum Contaminant Level (MCL) is 10 mg/L.

Additional parameters detected above MCLs (or below, in the case of pH) included iron and pH. Iron and pH exceedances are likely associated with natural site groundwater conditions.

2.4.1.2 MW-2

Monitoring well MW-2 is a background (upgradient) well located in the northeast corner of the 80-acre landfill. Conductivity, TDS, and chloride data are presented on Figure 2-11. The parameters correlated very well, with no apparent upward or downward trends evident.

Nitrate data are shown on Figure 2-12. The July 1998 value of 0.083 mg/L is well below the MCL of 10 mg/L. No upward or downward trends were apparent.

Additional parameters detected above MCLs included iron and pH. Iron and pH exceedances most likely resulted from natural groundwater conditions.

2.4.1.3 MW-3

Monitoring well MW-3 is another background (upgradient) well located in the southeast corner of the 80-acre landfill. Figure 2-13 presents conductivity, TDS, and chloride data for well MW-3. The data correlated fairly well, except that conductivity was lower than TDS. Conductivity is typically slightly higher than TDS. This may have resulted from instrument error. TDS concentrations ranged from 22 mg/L to 138 mg/L.

Nitrate data are presented in Figure 2-14. Values ranged from 0.05 mg/L to 0.25 mg/L, well below the MCL of 10 mg/L.

The only parameter detected above the MCL was pH. The pH values are indicative of natural groundwater quality.

2.4.1.4 MW-7

Monitoring well MW-7 is a new background (upgradient) well located at the eastern edge of the 80-acre landfill. Figure 2-15 presents conductivity, TDS, and chloride data for well MW-7. The data correlated fairly well with slight decreases in concentrations for conductivity and TDS. Conductivity values ranged from 540 to 725 $\mu\text{mhos/cm}$. TDS values ranged from 360 to 500 mg/L. Chloride values ranged from 8.2 to 8.9 mg/L.

Nitrate data are presented in Figure 2-16. Values are all below the MCL of 10 mg/L.

Additional parameters detected above MCL's included antimony, iron, and pH. The antimony and pH values are indicative of natural groundwater quality at the site.

2.4.2 Percolation Pond Wells

2.4.2.1 MW-4

The July 1996 sampling event was the last sampling round for MW-4. Groundwater levels continue to be collected at this monitoring point and are used in preparation of groundwater flow maps.

2.4.2.2 MW-5

The July 1996 sampling event was the last sampling round for MW-5. Groundwater levels continue to be collected at this monitoring point and are used in preparation of groundwater flow maps.

2.4.2.3 MW-6

Monitoring well MW-6 is an intermediate well located downgradient of the leachate percolation ponds. Conductivity, TDS, and chloride values are shown on Figure 2-17. The data correlated very well for all three parameters and concentrations appear to be on a decreasing trend after peaking in January 1996. TDS values ranged from 370 mg/L to 600 mg/L. The July 1997 value of 600 mg/L exceeds the MCL value of 500 mg/L. Chloride

concentrations were all below the MCL of 250 mg/L with a maximum detection of 160 mg/L.

Nitrate concentrations are depicted on Figure 2-18. The data was fairly stable, with concentrations ranging from 19.3 mg/L to 44 mg/L. All values exceeded the MCL of 10 mg/L. The nitrate concentrations appear to be decreasing over time since values peaked during the 1995 and 1996 sampling events. Nitrate at MW-6 will continue to be monitored during subsequent sampling rounds to further evaluate trends in this compound.

Additional parameters detected above MCLs (or below in the case of pH) included benzene, bromodichloromethane, bromoform, chloroform, dibromochloromethane, iron, pH, and vinyl chloride. Chloroform is typically a laboratory artifact. Iron is indicative of natural groundwater quality at the site. Bromodichloromethane, bromoform, and dibromochloromethane are typically disinfection by-products. The pH exceedance most likely resulted from partially treated leachate in percolation ponds.

Benzene and vinyl chloride detections are shown on Figure 2-19. Benzene was detected at concentrations ranging from 1.7 to 2 µg/L. Vinyl chloride was detected at concentrations ranging from 2 µg/L to 4.6 µg/L. No apparent upward or downward trend is evident and concentrations of these two compounds appear to be stable at this time.

2.4.3 Detection Wells

2.4.3.1 MW-AA

Monitoring well MW-AA is a downgradient detection well located approximately 50 feet west of the 60-acre landfill boundary. Figure 2-20 presents conductivity, TDS, and chloride data for monitoring well MW-AA. Conductivity data appear fairly stable and correlate well with TDS. TDS ranged from 430 mg/L to 700 mg/L. The data appeared very stable, with no upward or downward trends evident from the graph. The value of 700 mg/L, however, exceeded the MCL of 500 mg/L.

Nitrate data for well MW-AA are shown in Figure 2-21. The January 1997 value of 0.17 mg/L was well below the MCL of 10 mg/L. The data appears to have stabilized with no upward or downward trends evident.

Figure 2-22 presents benzene, and vinyl chloride data for monitoring well MW-AA. Benzene was detected at a concentration of 1.4 µg/L in July 1997, exceeding the 1 µg/L MCL for benzene. Benzene was not detected, however, in any additional sampling events through January 1998. Vinyl chloride concentrations ranged from 3.1 µg/L to 7.8 µg/L, and appeared to be stable. The MCL for vinyl chloride is 1 µg/L, but these exceedances are not considered excessive. The Contamination Assessment Report (CH2M HILL, 1996) recommended continued monitoring for any increasing trends. The vinyl chloride concentrations were not increasing substantially and appear to be reaching steady conditions.

Additional parameters detected in MW-AA above MCLs (or below, in the case of pH) included iron and pH. Iron was detected four times, and pH was measured below the MCL 3 times. Iron and pH exceedances most likely resulted from natural groundwater conditions.

2.4.3.2 MW-B

Monitoring well MW-B is a detection well located in the southwest corner of the 80-acre landfill. Conductivity, TDS, and chloride data are shown in Figure 2-23. Conductivity, TDS, and chloride correlated very well, except for the January 1997 TDS value of 156 mg/L which appeared to be an outlier. TDS concentrations ranged from 16 mg/L to 156 mg/L, well below the MCL of 500 mg/L. The chloride values ranged from 4.5 to 9.5 mg/L and appear to be increasing slightly over time.

Nitrate data for well MW-B are shown on Figure 2-24. Concentrations ranged from 1.98 mg/L to 2.6 mg/L. All data were below the MCL of 10 mg/L. Nitrate appears to be stabilizing around 2 mg/L.

The only parameter that exceeded the MCL is pH, which may be associated with natural groundwater conditions.

2.4.3.3 MW-C

Monitoring well MW-C is a detection (downgradient) well located along the western edge of the 60-acre landfill. Conductivity, TDS, and chloride data are shown on Figure 2-24. These indicator parameters correlated very well, with no apparent upward or downward trends and appear to be reaching stabilization. TDS concentrations ranged from 40 mg/L to 154 mg/L, with all values well below the MCL of 500 mg/L.

Nitrate concentrations are shown on Figure 2-26. Values ranged from 0.03 mg/L to 0.07 mg/L, and appeared to be very stable. The MCL is 10 mg/L.

The only other detection above the MCL was iron, which occurs naturally in groundwater.

2.4.3.4 MW-D

Monitoring well MW-D is a detection (downgradient) well located in the northwest corner of the 60-acre landfill. Conductivity, TDS, and chloride data are presented on Figure 2-27. The data correlated well with conductivity values higher than TDS which is expected. Chloride concentrations ranged from 4 to 8.16 mg/L, well below the MCL of 250 mg/L.

Nitrate values for well MW-D are shown in Figure 2-28. Values ranged from 0.009 mg/L to 0.03 mg/L, below the MCL of 10 mg/L. A very slight upward trend in nitrate concentrations was noted from 1997 to 1998.

The only parameter detected above the MCL was iron. Iron occurs naturally in the groundwater.

2.4.3.5 MW-E

Monitoring well MW-E is a compliance well located approximately 150 feet west (downgradient) of well MW-AA. It was installed to monitor benzene and vinyl chloride detections west of the 60-acre landfill.

Conductivity, TDS, and chloride data are shown in Figure 2-29. The conductivity data continues to appear erratic, with several spikes and dips. Conductivity data were collected in the field; these spikes may result from instrument error. The TDS data were very stable, with concentrations ranging from 360 mg/L to 580 mg/L. The July 1997 value of 580 mg/L exceeds the MCL of 500 mg/L. Chloride data were relatively stable at concentrations ranging from 4.1 mg/L to 6 mg/L. Chloride data seems to show a slight downward trend over time.

Nitrate concentrations are presented on Figure 2-30. The July 1997 value of 0.18 mg/L is well below the MCL of 10 mg/L. No upward or downward trends were evident from the data.

Vinyl chloride concentrations for well MW-E are shown on Figure 2-31. Vinyl chloride concentrations ranged from 2.1 µg/L to 3.3 µg/L, and exhibited a slight downward trend. The MCL for vinyl chloride is 1 µg/L.

The only parameter detected above the MCLs was iron. Iron occurs naturally in groundwater.

2.4.3.6 MW-8R

Monitoring well MW-8R is a new detection (downgradient) well located on the western edge of the 60-acre landfill.

Conductivity, TDS, and chloride data are shown on Figure 2-32. The conductivity data appears to be stable with values ranging from 180 to 250 µmhos/cm. TDS data ranged from 99 to 1700 mg/L with the January 1998 value of 1700 mg/L exceeding the MCL of 500 mg/L. This sample was taken shortly after development. Subsequent sampling events indicate a downward trend in TDS values as shown in Figure 2-31. Chloride values ranged from 8.6 to 9.8 mg/L, well below the MCL of 250 mg/L. Chloride appears to be stable at this monitoring point.

Nitrate values are shown on Figure 2-33. All values are below the MCL of 10 mg/L.

Benzene and vinyl chloride concentrations for well MW-8R are shown on Figure 2-34. Benzene concentrations ranged from 3.5 to 4.2 µg/L, above the MCL of 1 µg/L. A very slight increase was noted from 1997 to 1998. Vinyl chloride concentrations ranged from 2.7 to 10 µg/L which is above the MCL of 1 µg/L. As with benzene, vinyl chloride concentrations increased slightly from 1997 to 1998.

Additional parameters detected above MCL's included iron and pH which are generally consistent with natural groundwater quality conditions.

2.4.3.7 MW-9

Monitoring well MW-9 is a new detection (downgradient) well located near the northwestern corner of the 60-acre landfill.

Conductivity, TDS, and chloride data are shown on Figure 2-35. The conductivity values appear to be stable with values ranging from 720 to 850 µshom/cm. TDS data also appears to be stabilized with concentrations ranging from 450 to 520 mg/L. The 520 mg/L value is slightly above the MCL of 500 mg/L. Chloride concentrations ranged from 15 to 18 mg/L, all below the MCL of 250 mg/L. Chloride values appear to have reached stabilization.

Nitrate data for well MW-9 are shown on Figure 2-36. All values are below the MCL of 10 mg/L.

Vinyl chloride concentrations ranged from 2.6 to 3.5 µg/L, above the MCL of 1 µg/L. A slight decrease in vinyl chloride concentrations was noted from 1997 to 1998. Benzene was detected at 1.2 µg/L during the July 1997 sampling event.

Benzene and vinyl chloride data are presented on Figure 2-37.

The only additional parameter detected above the MCL was iron. Iron occurs naturally in groundwater.

TABLE 2-1**Monitor Well Specifics/Locations and Purpose***Citrus County Central Landfill*

Well	Depth	Well Diam (inches)	Screen Interval (ft.)	Well Elevation	Ground Elevation	Well Type	Latitude	Longitude	X Coordinate	Y Coordinate
MW 1R*	125	2	115-125	118.08	115.3	background	28 51 20.46904 N	82 26 19.33566 W	515734.4675	1644075.0314
MW-2	161	2	146-161	136.29	133.5	background	28 51 21.09969 N	82 26 04.91534 W	517016.947	1644134.0121
MW-3	119	2	104-119	120.47	119.7	background	28 50 55.30387 N	82 26 04.69852 W	517026.689	1641528.493
MW-4	120	2	110-120	122.62	121.4	intermediate	28 51 09.70125 N	82 26 18.69384 W	515787.5197	1642987.2443
MW-5	120	2	110-120	121.14	118.6	intermediate	28 51 10.09772 N	82 26 19.60416 W	515706.7199	1643027.5870
MW-6	122	2	112-122	118.48	115.8	intermediate	28 51 09.05065 N	82 26 19.55309 W	515710.8712	1642921.8127
MW-7	137	2	117-137	128.66	-	background	28 51 05.10226 N	82 26 04.67396 W	517032.495	1642518.150
MW-8R	128	2	108-128	118.13	-	detection	28 51 15. W	82 26 34. W	514408.379	1642551.088
MW-9	121	2	101-121	113.55	-	detection	28 51 12.51388 N	82 26 34.17505 W	514411.959	1643276.437
MW-AA	116	2	106-116	106.11	104.7	detection	28 51 09.22643 N	82 26 35.08066 W	514330.1915	1642944.6946
MW-B*	128	4	108-128	111.94	111.1	detection	28 50 59.45064 N	82 26 19.59919 W	515703.188	1641952.201
MW-C	199	4	open hole 192-199	115.18	114.1	detection	28 51 02.32191 N	82 26 34.29378 W	514397.562	1642247.058
MW-D	208	4	open hole 188-208	109.77	108.4	detection	28 51 17.24014 N	82 26 33.51558 W	514472.38	1643753.584
MW-E	118	2	98-118	109.88	107.0	compliance	28 51 09.55952 N	82 26 36.68776 W	514187.411	1642978.872

Notes: Well MW1R is a replacement for Well MW-1
 Well MWAA is a replacement for Well MW-A
 Well MW-8R is a replacement for Well MW-8
 *Wells are upgradient from the 60-acre site, but downgradient from the 80-acre site

TABLE 2-2

Water Level Data
 Citrus County Landfill

Date														
Collected	MW-AA	MW-B	MW-C	MW-D	MW-E	MW-1R	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8R	MW-9
Jan-96	6.69	6.91	6.88	6.77	7.08	6.89	9.44	8.78	9.44	9.24	9.26	NA	NA	NA
Apr-96	6.26	6.31	6.38	6.11	6.63	5.29	8.79	7.92	8.08	7.84	7.88	NA	NA	NA
Jul-96	5.86	6.19	6.23	5.87	6.18	6.2	7.94	7.87	7.72	7.54	7.62	NA	NA	NA
Jan-97	5.44	5.44	5.58	5.34	5.75	5.65	7.62	6.99	7.90	7.44	7.48	NA	NA	NA
Jul-97	4.67	4.71	4.64	4.62	6.28	5.00	6.32	5.79	6.12	5.99	5.98	NA	NA	NA
Dec-97												6.41	1.55	8.16
Jan-98	7.42	7.54	7.72	**	7.88	7.61	7.76	8.82	9.87	9.7	10.08	7.95	2.88	11.76
Jul-98	7.61	7.94	8.18	10.45	7.38	8.08	11.14	10.37	13.62	10.14	8.88	33.46 **	1.55	11.76
Oct-98	4.78	7.59	7.45	7.35	7.84	7.37	10.12	7.47	9.29	9.18	7.85	9.49	2.92	11.68
Jan-99	6.33	6.39	6.35	10.53	6.72	6.49	9.14	8.21	8.74	8.74	8.45	8.71	1.87	10.56

Groundwater table elevations referenced to the National Geodetic Vertical Datum (NGVD) in feet.

- NOTES:**
- 1) Semi-Annual monitoring events commenced AFTER July 1996 Quarterly Monitoring Report
 - 2) **Indicates electronic problems, data not used
 - 3) NA - prior to well installation

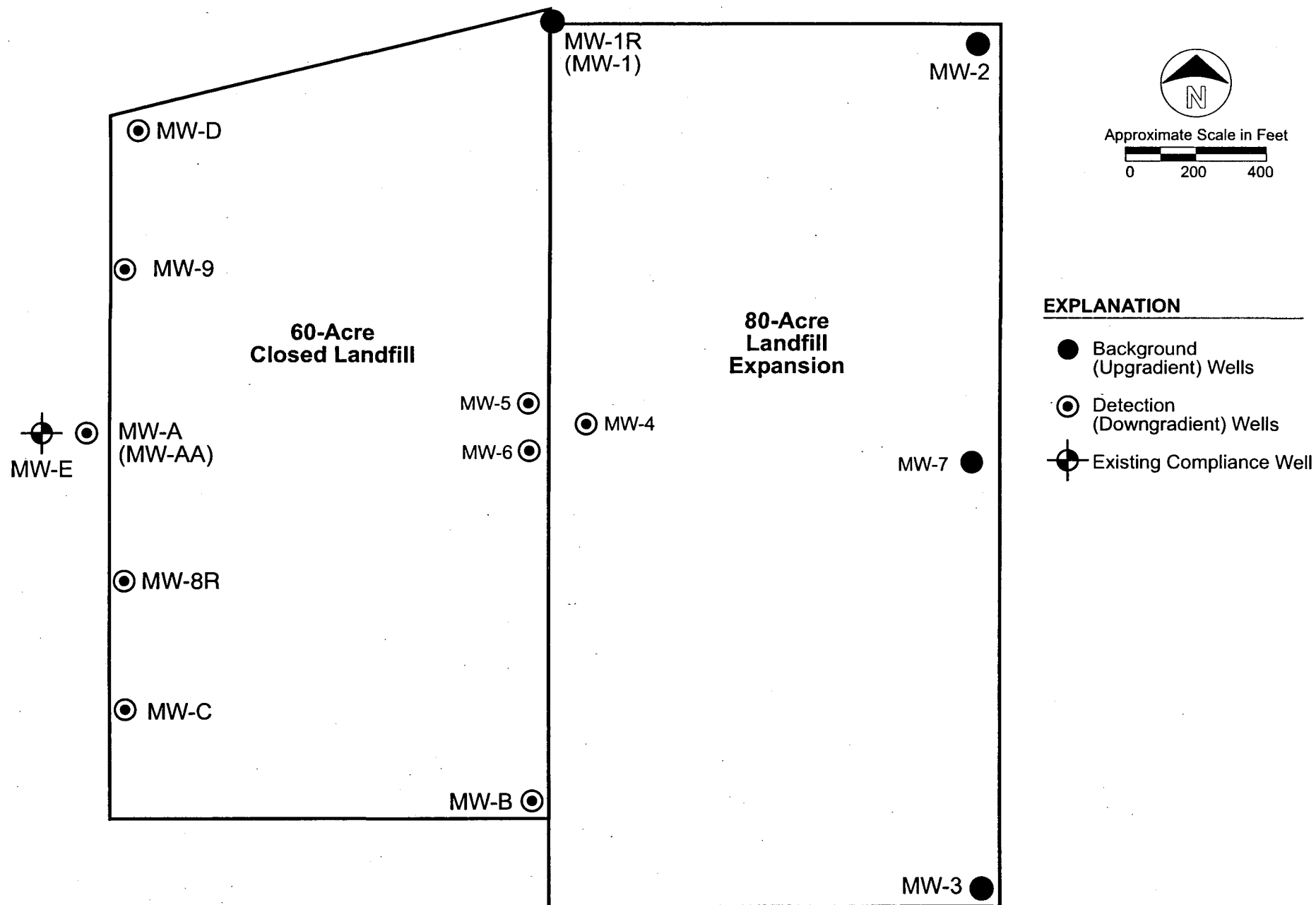


FIGURE 2-1
Monitoring Well Locations

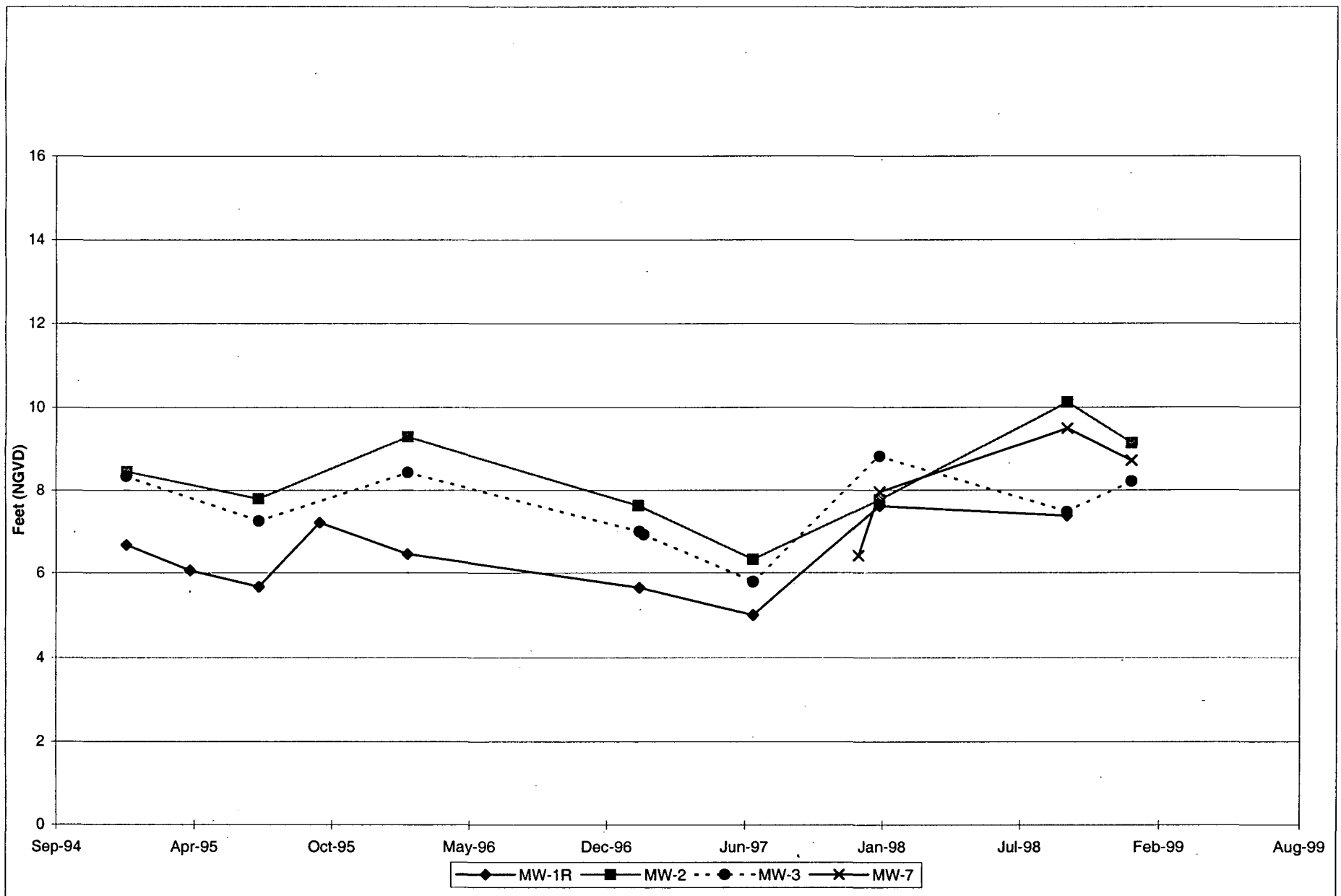


FIGURE 2-2
Groundwater Levels for Upgradient Wells
Citrus County Central Landfill

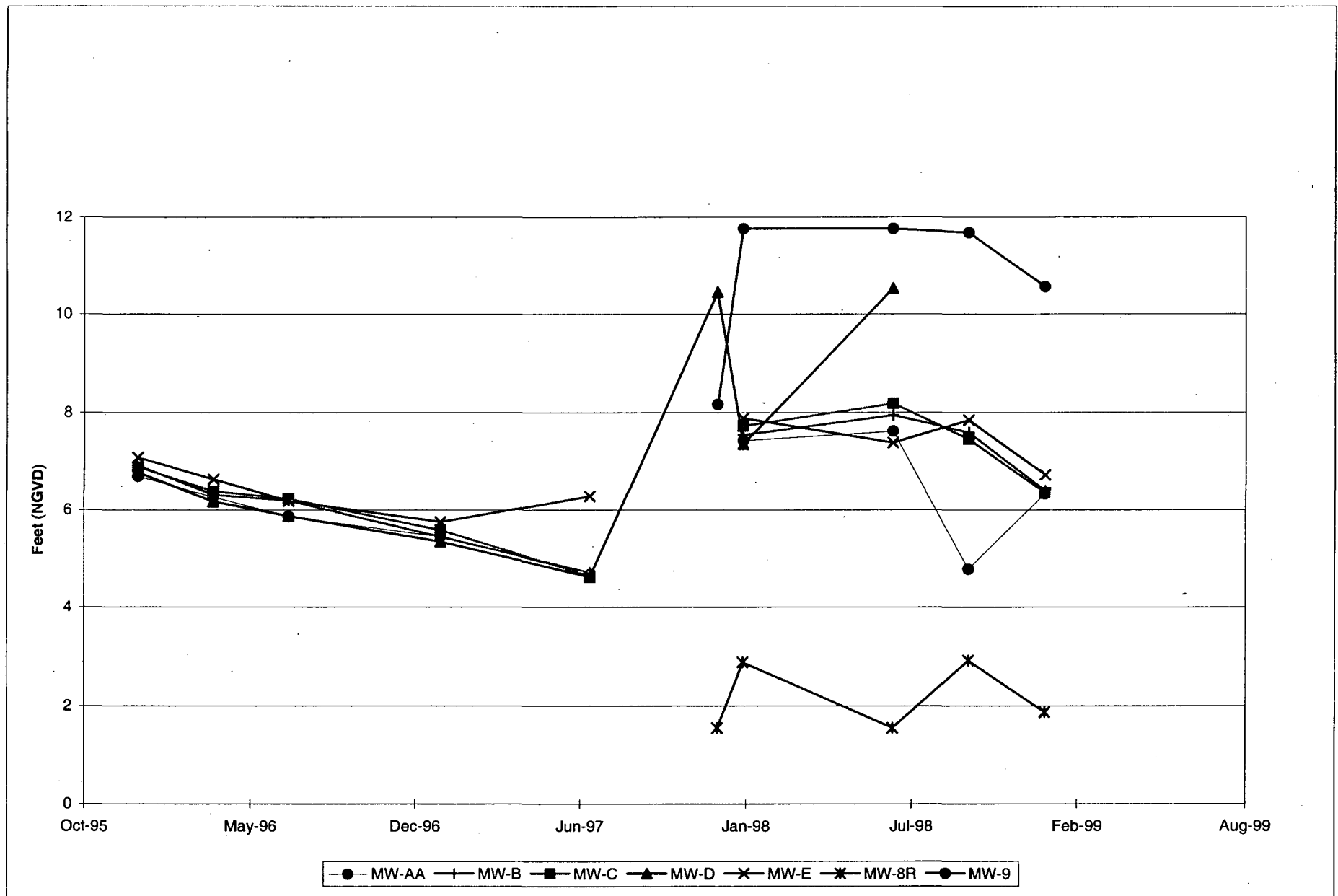


FIGURE 2-3
Groundwater Levels for Downgradient Wells
Citrus County Central Landfill

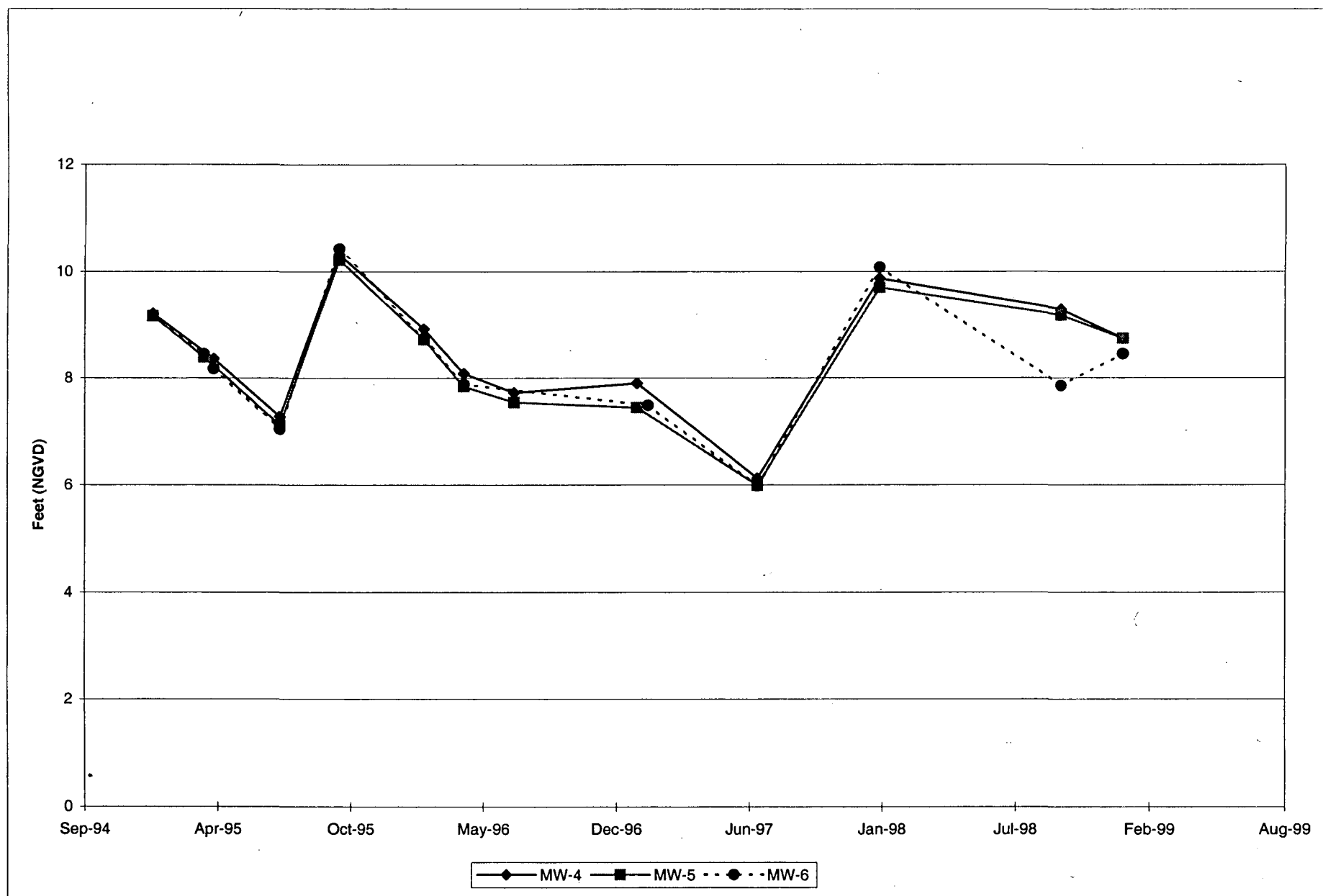


FIGURE 2-4
Groundwater Levels for the Leachate Percolation Ponds
Citrus County Central Landfill

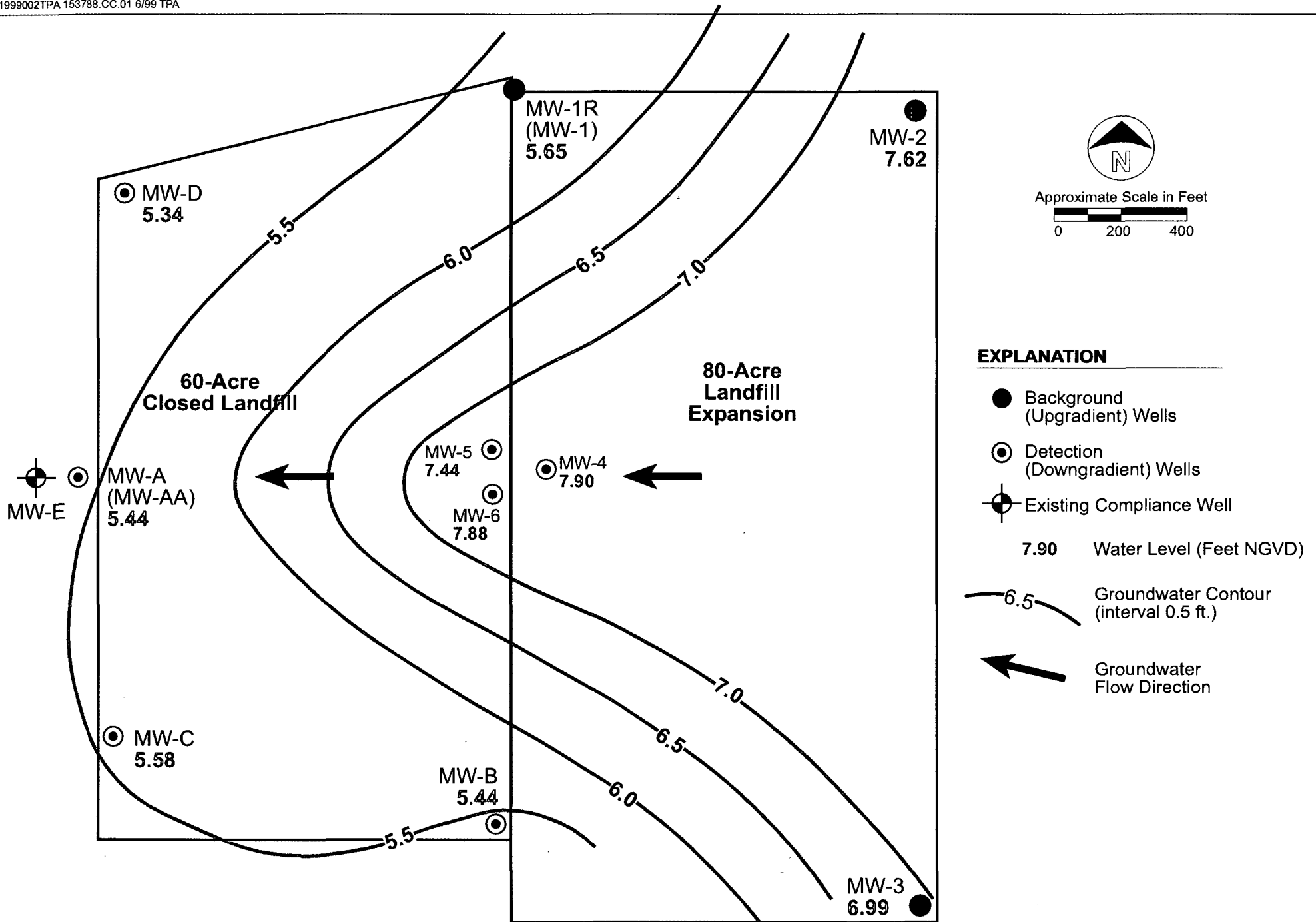


FIGURE 2-5
Groundwater Elevations, January 1997

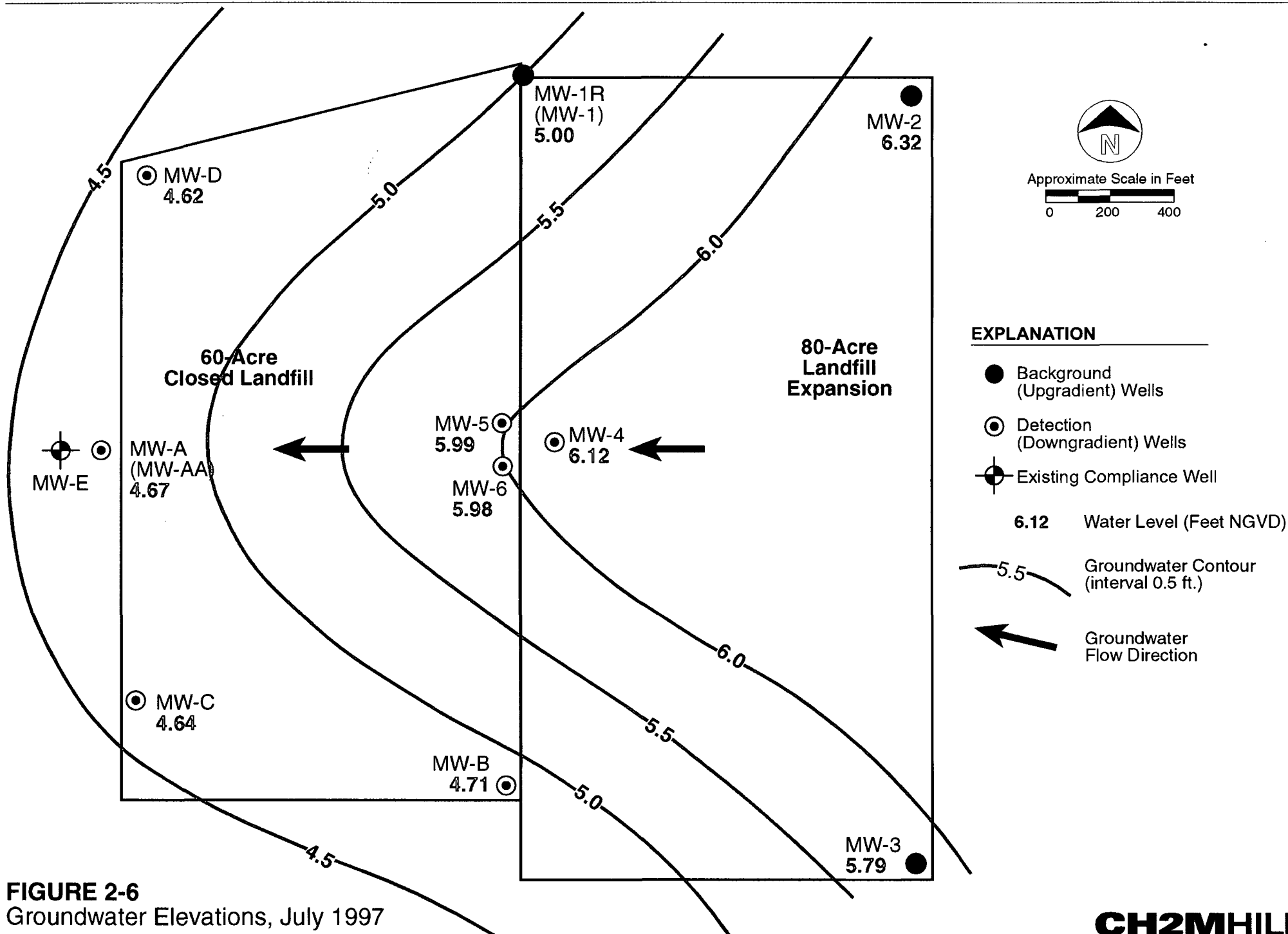


FIGURE 2-6
Groundwater Elevations, July 1997

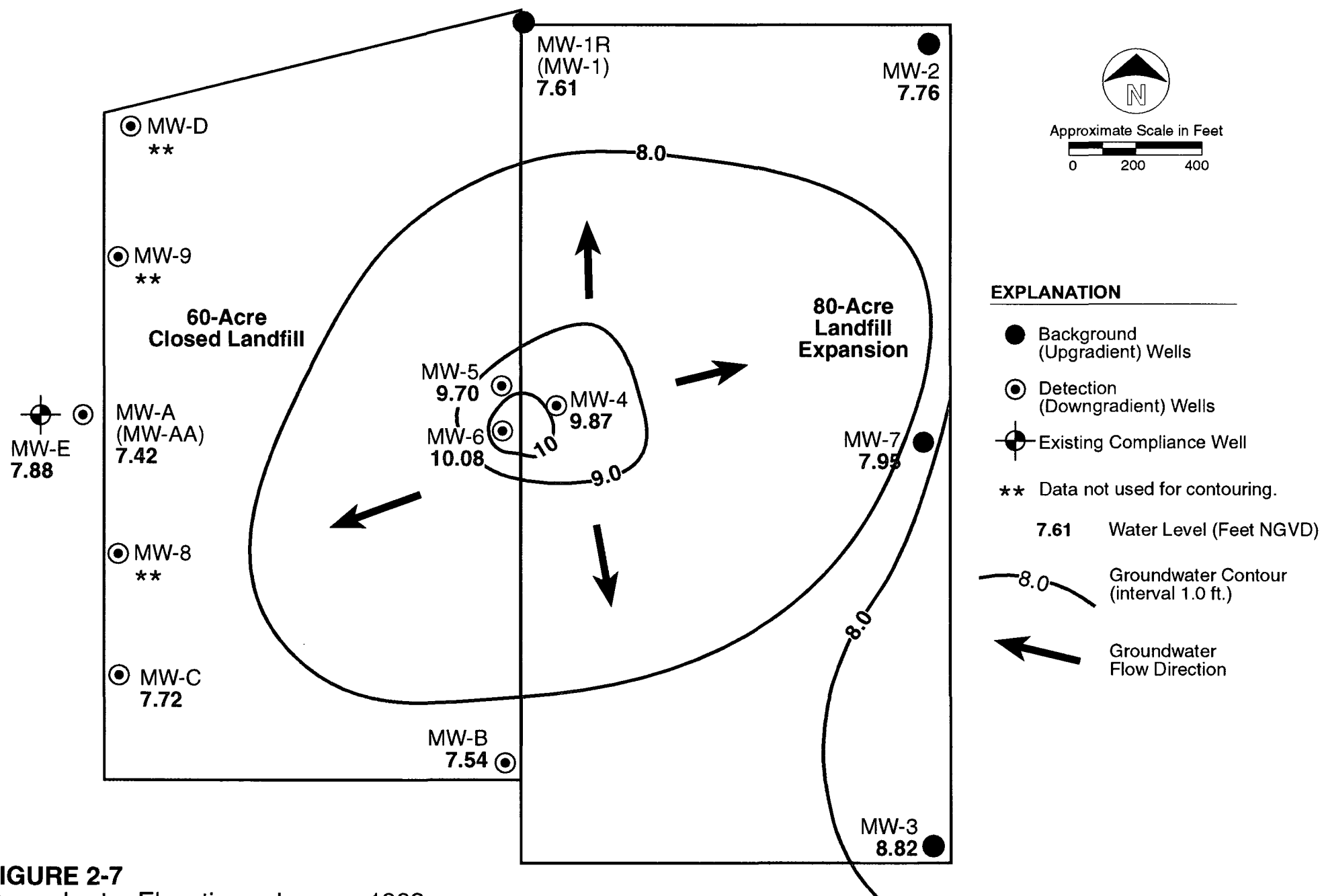


FIGURE 2-7
Groundwater Elevations, January 1998

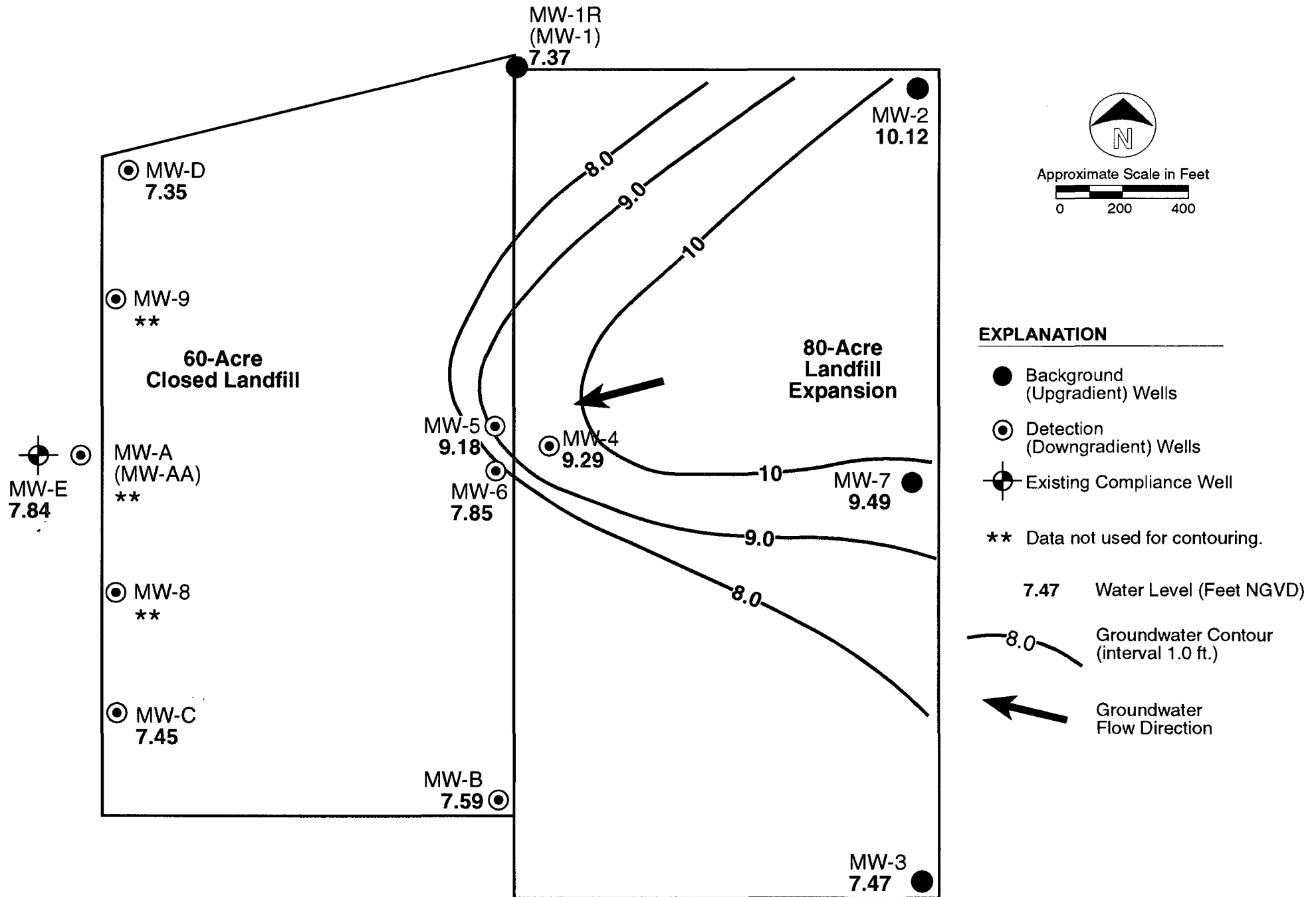


FIGURE 2-8
Groundwater Elevations, October 1998

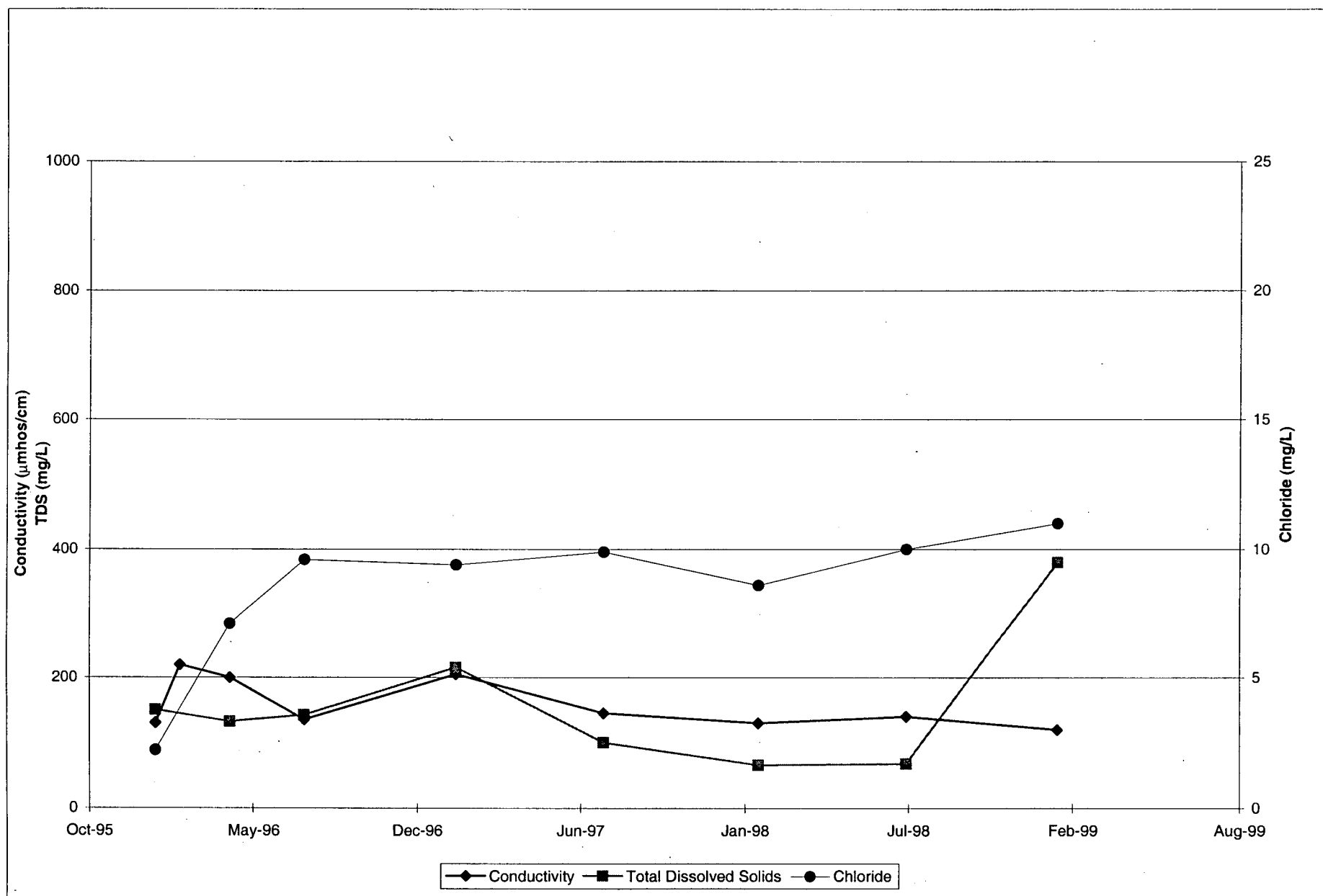


FIGURE 2-9
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-1R
Citrus County Central Landfill

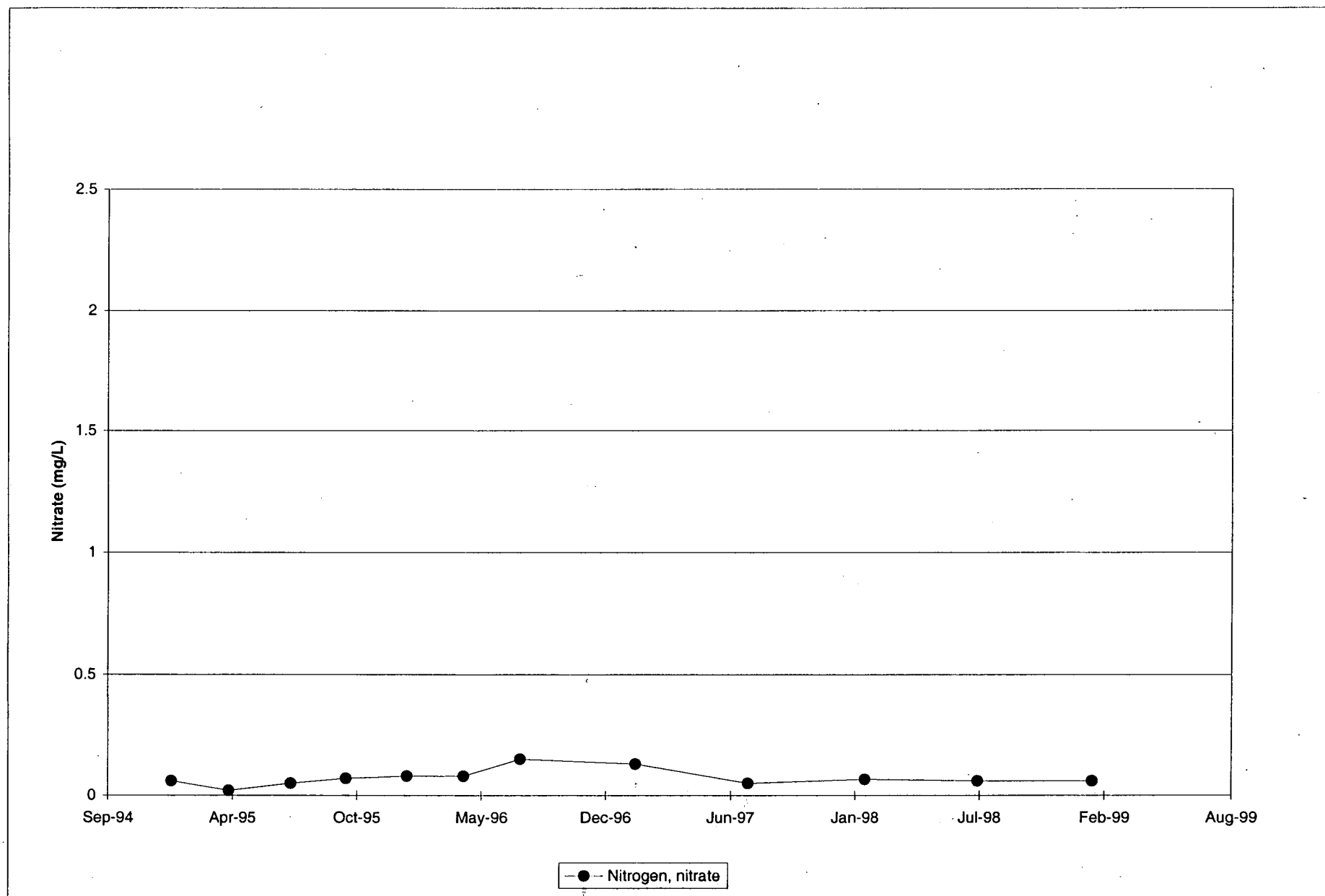


FIGURE 2-10
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-1R
Citrus County Central Landfill

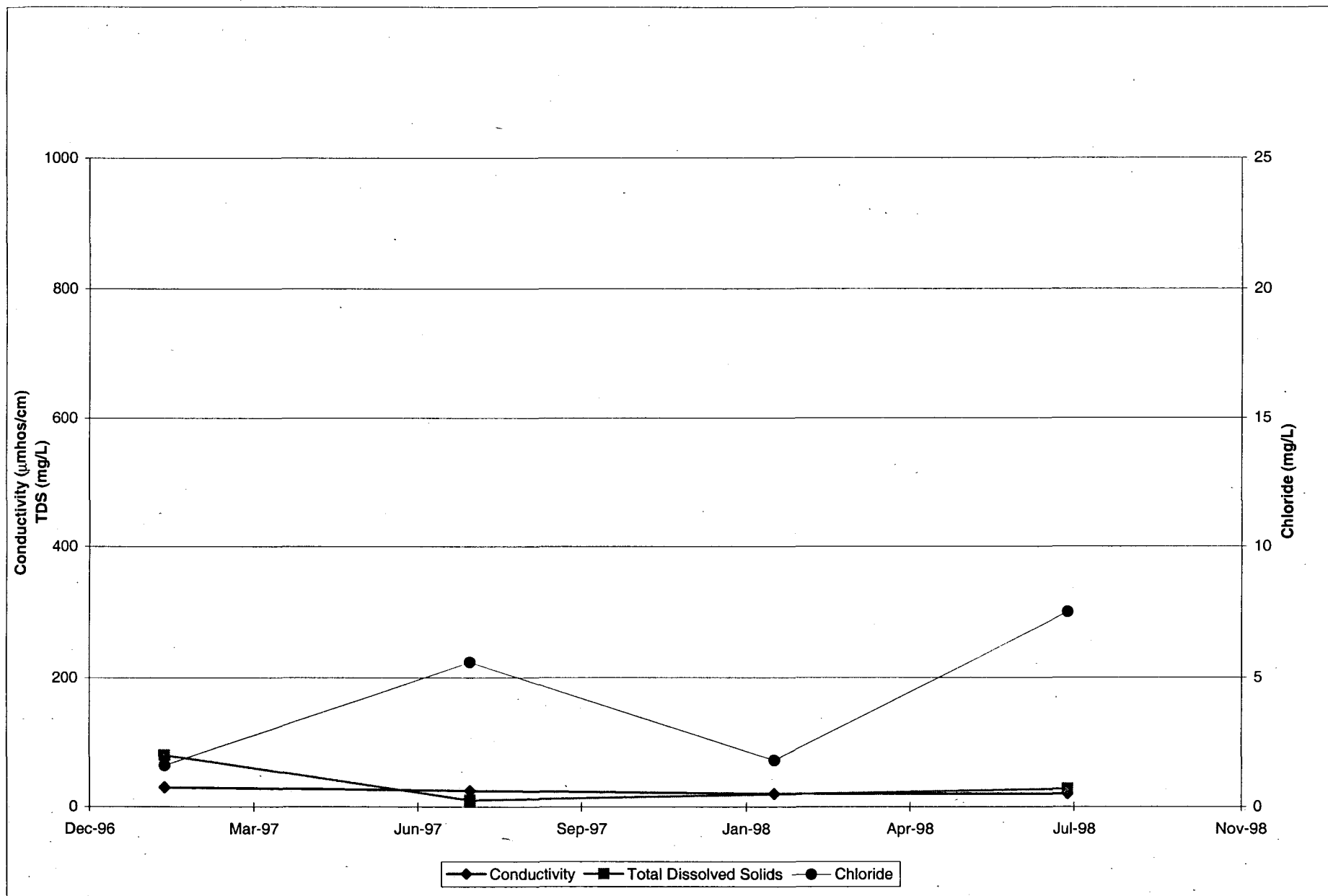


FIGURE 2-11
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-2
Citrus County Central Landfill

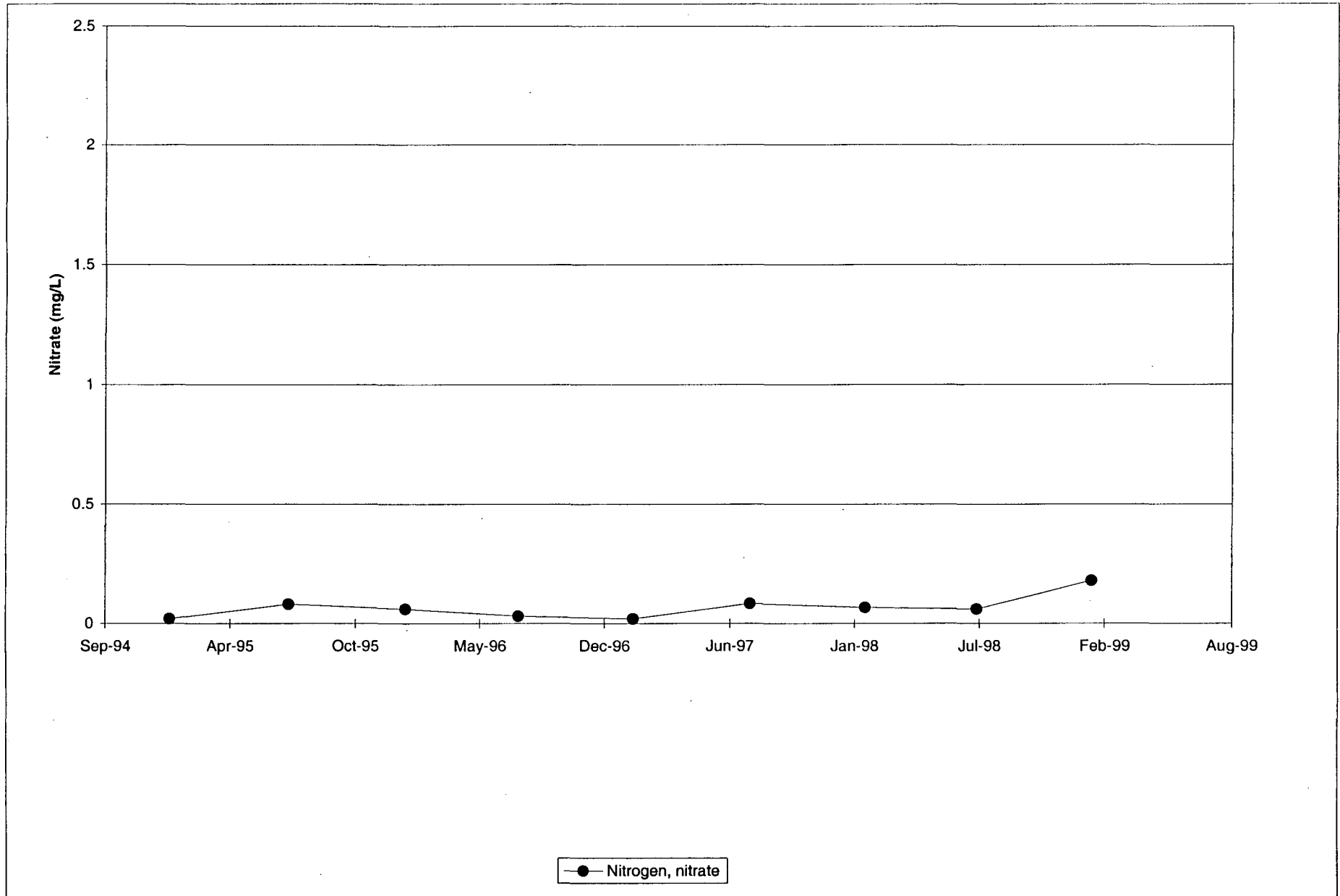


FIGURE 2-12
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-2
Citrus County Central Landfill

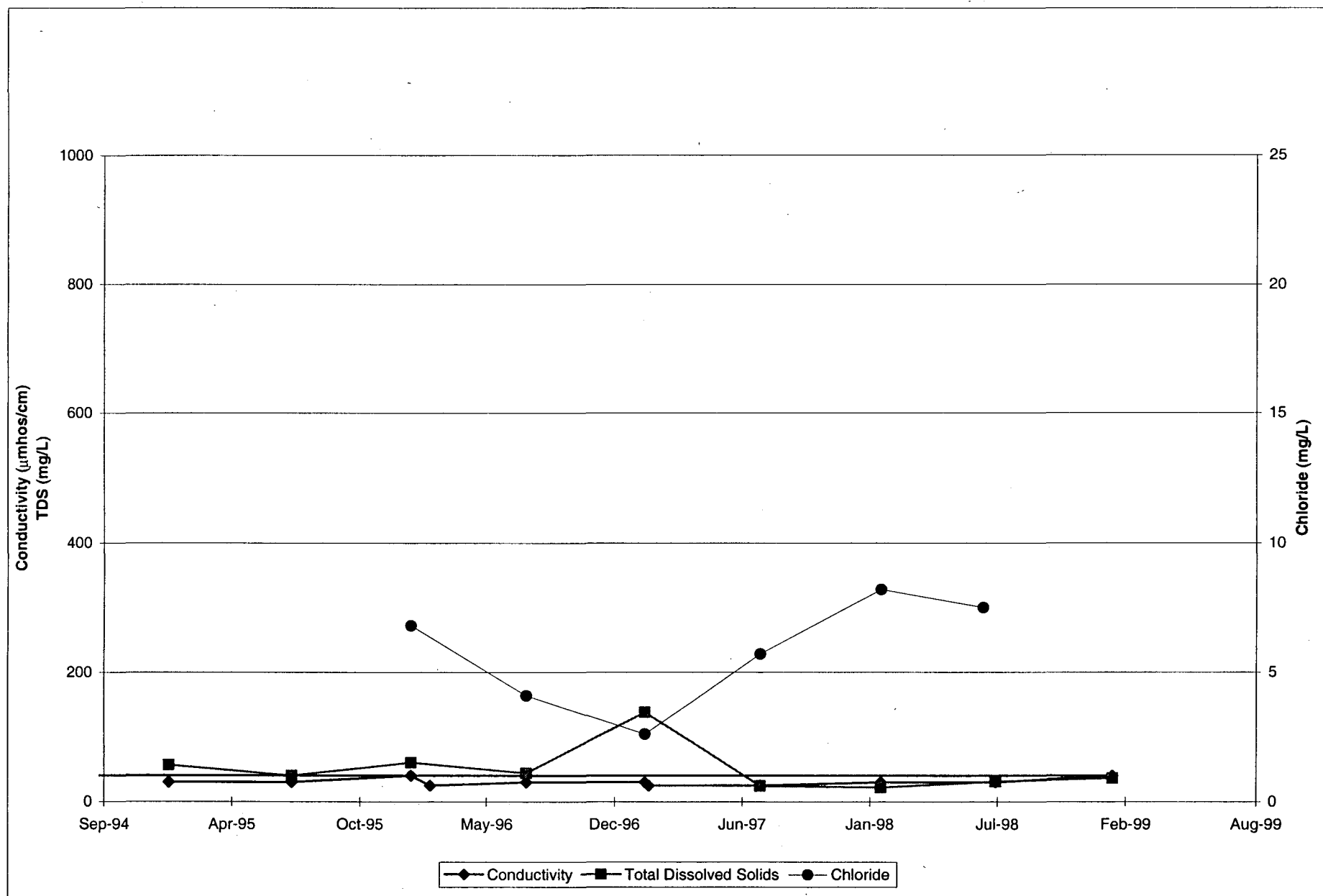


FIGURE 2-13
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-3
Citrus County Central Landfill

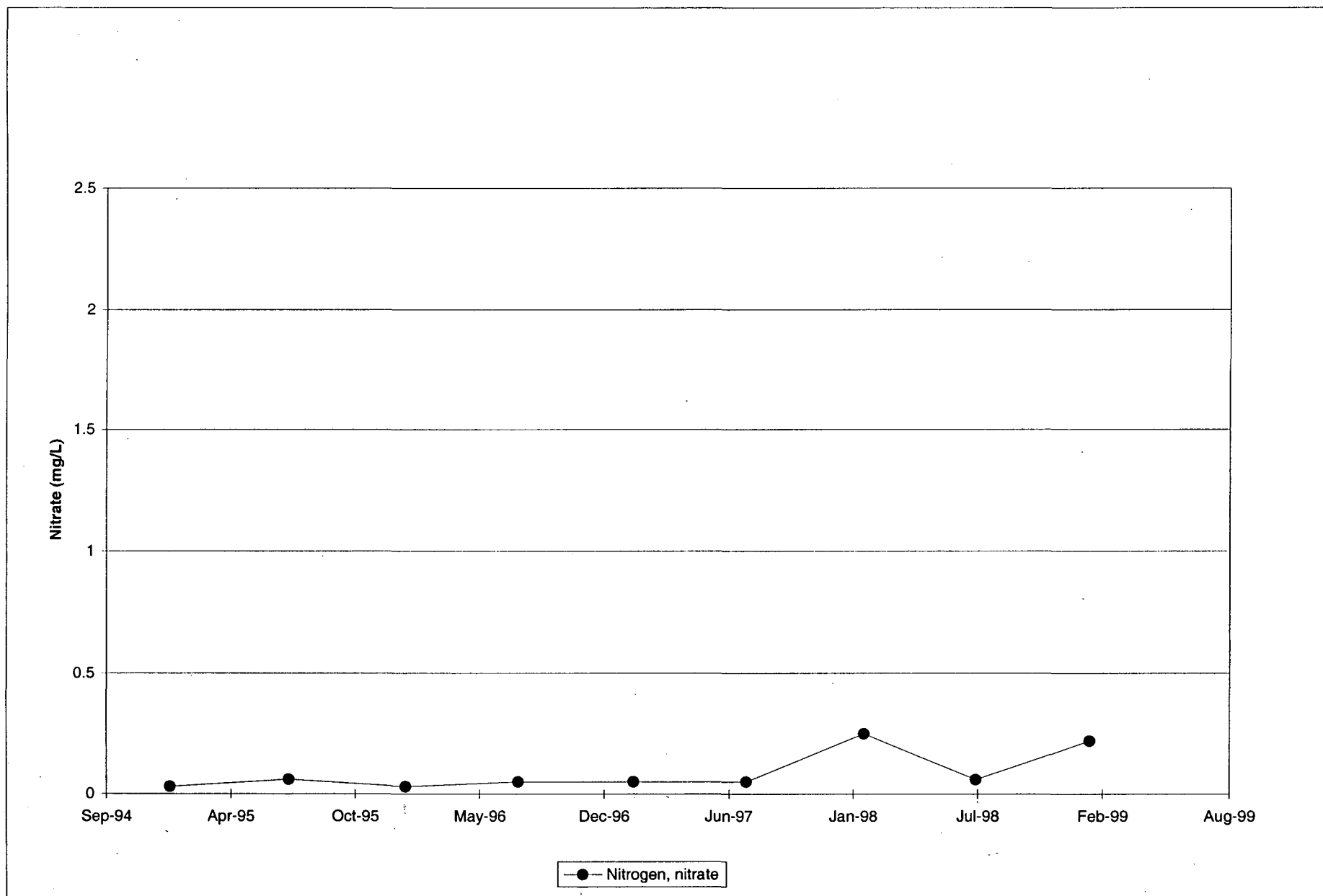


FIGURE 2-14
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-3
Citrus County Central Landfill

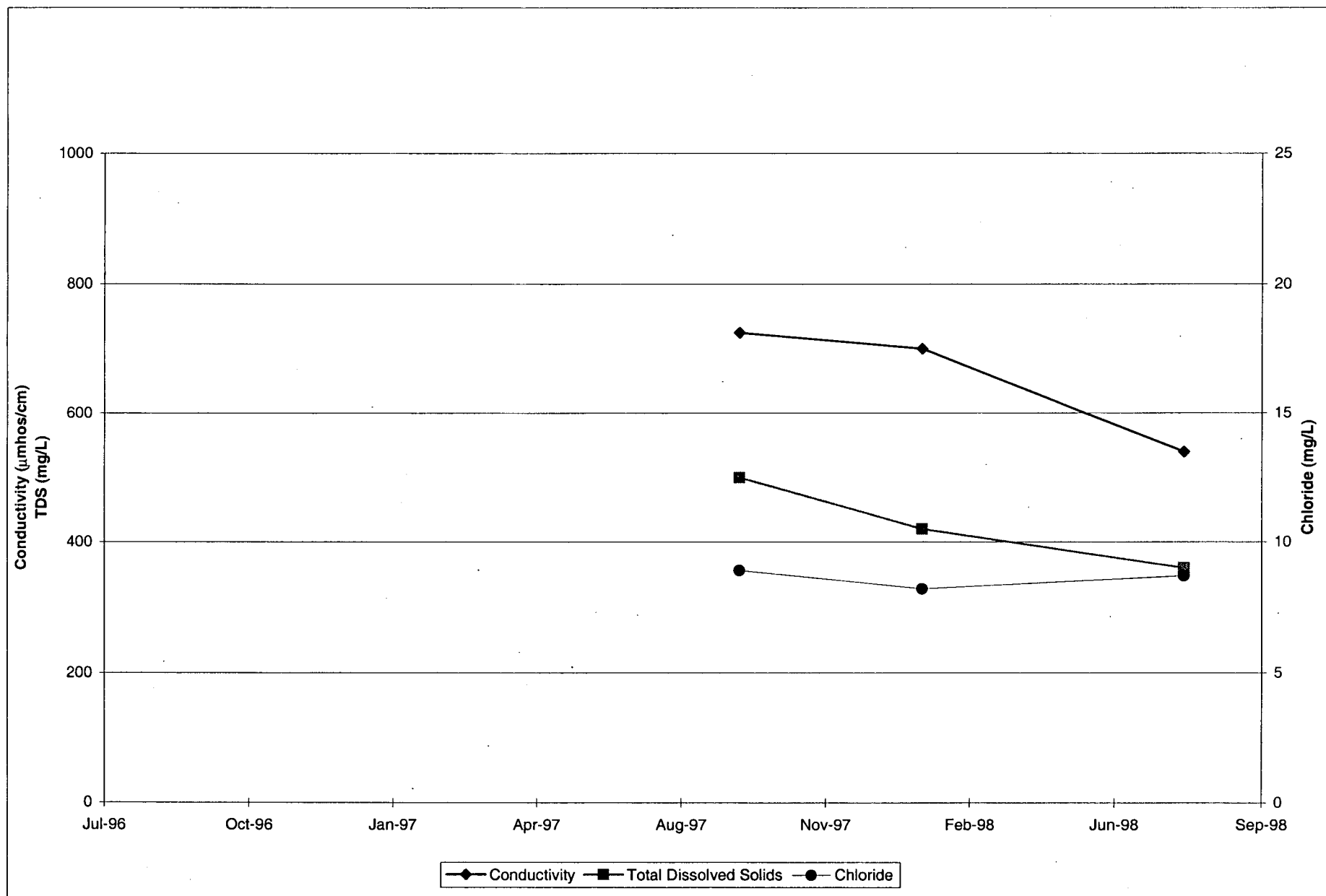


FIGURE 2-15
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-7
Citrus County Central Landfill

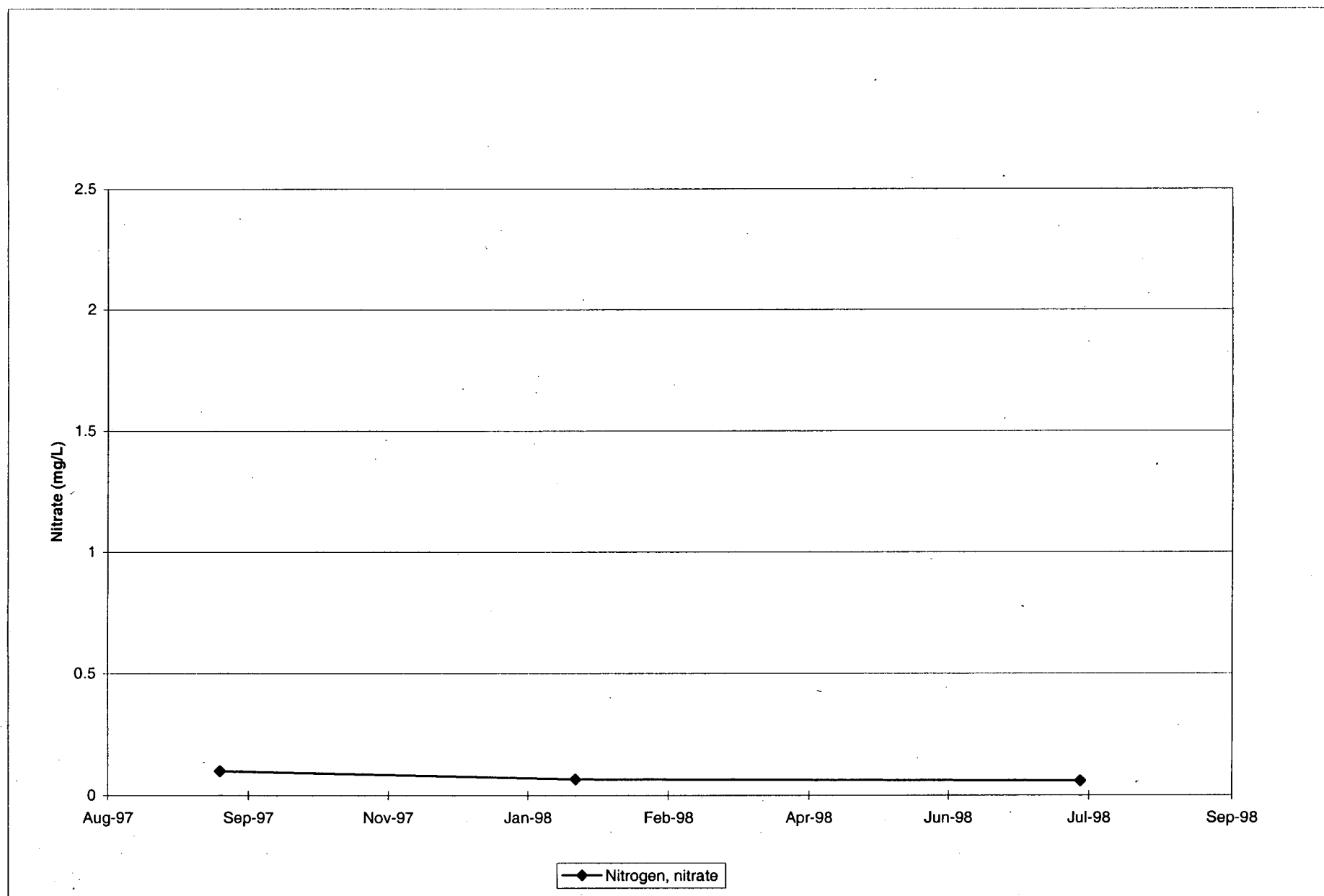


FIGURE 2-16
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-7
Citrus County Central Landfill

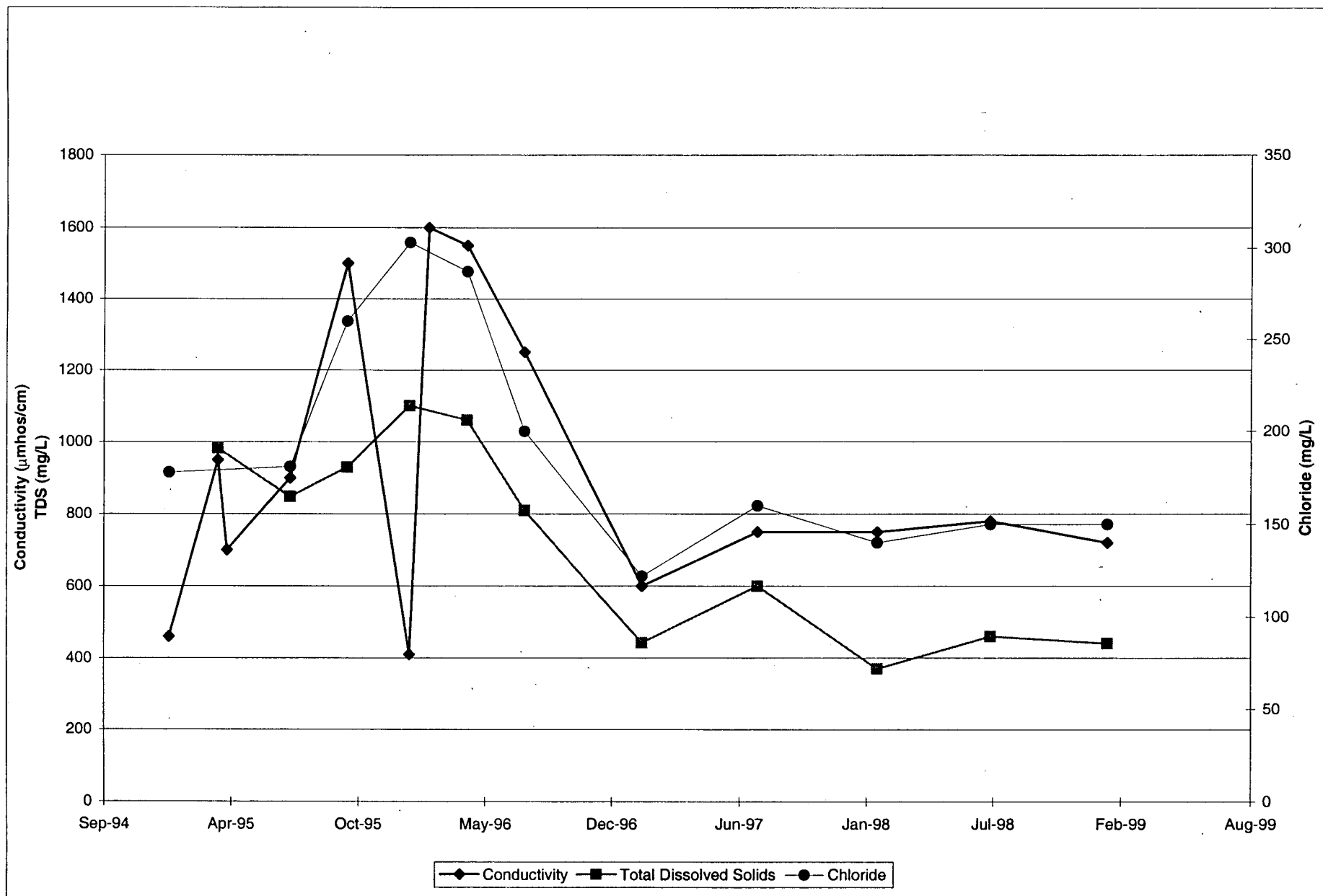


FIGURE 2-17
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-6
Citrus County Central Landfill

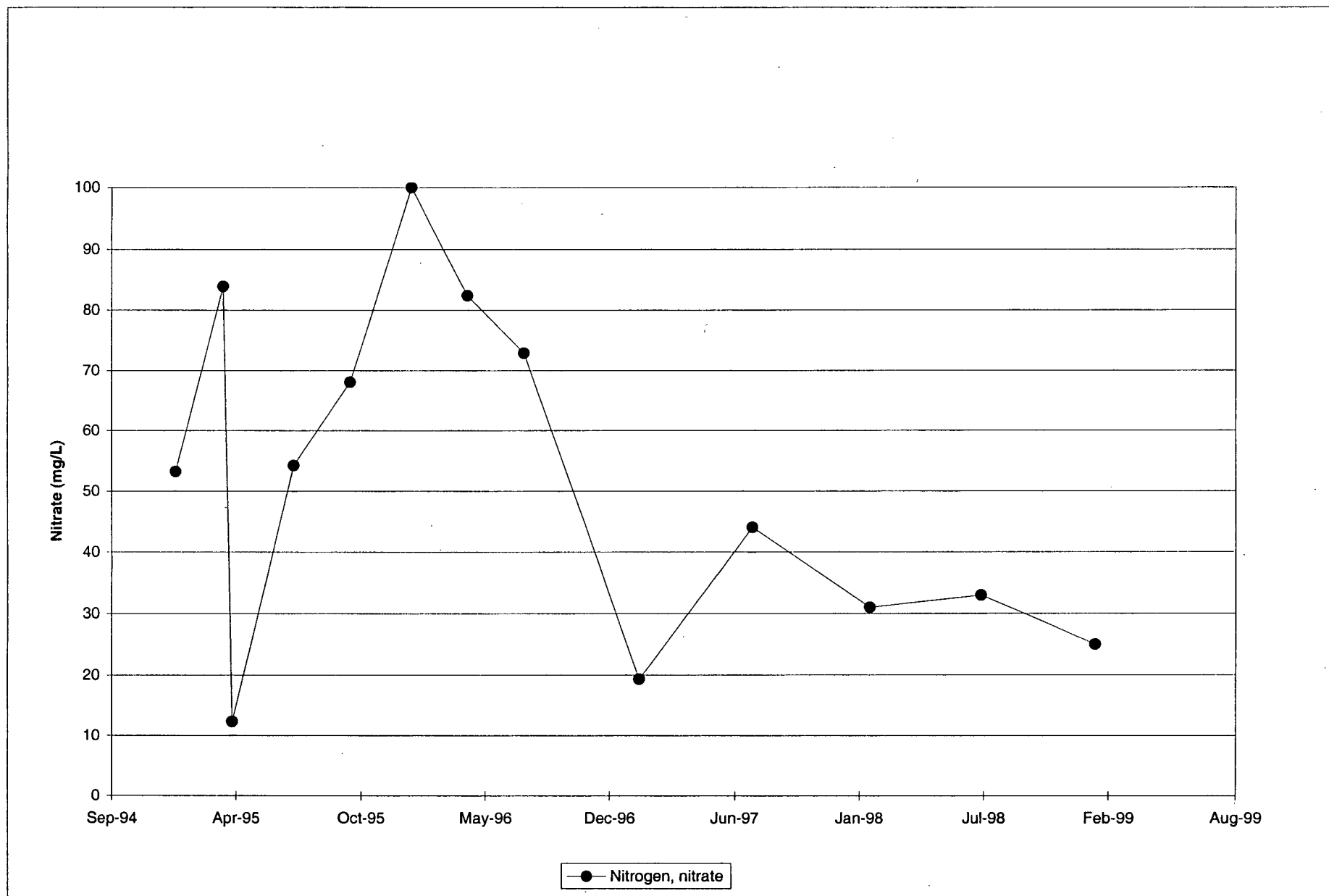


FIGURE 2-18
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-6
Citrus County Central Landfill

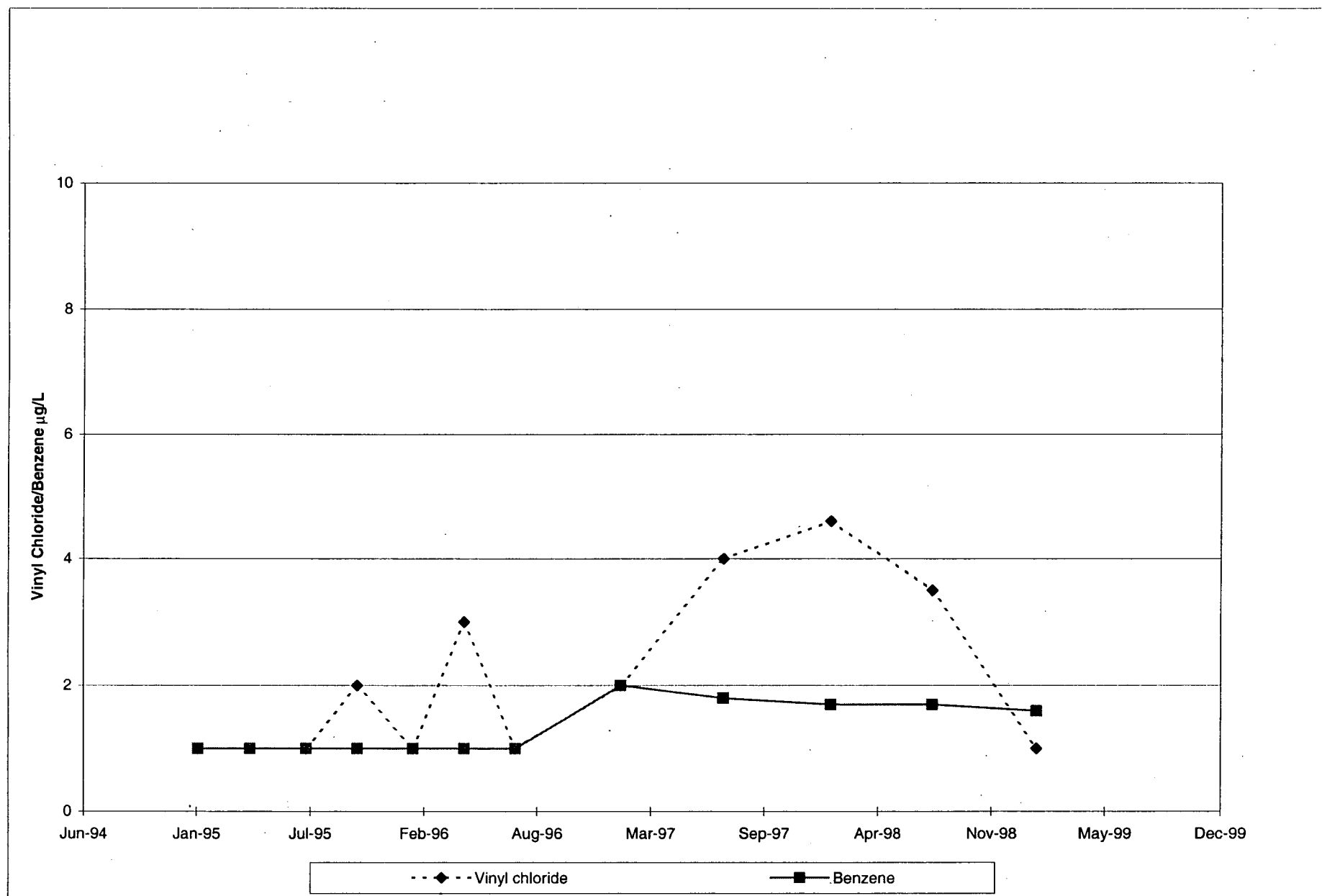


FIGURE 2-19
Vinyl chloride, Benzene Trend Analysis for Monitoring Well MW-6
Citrus County Central Landfill

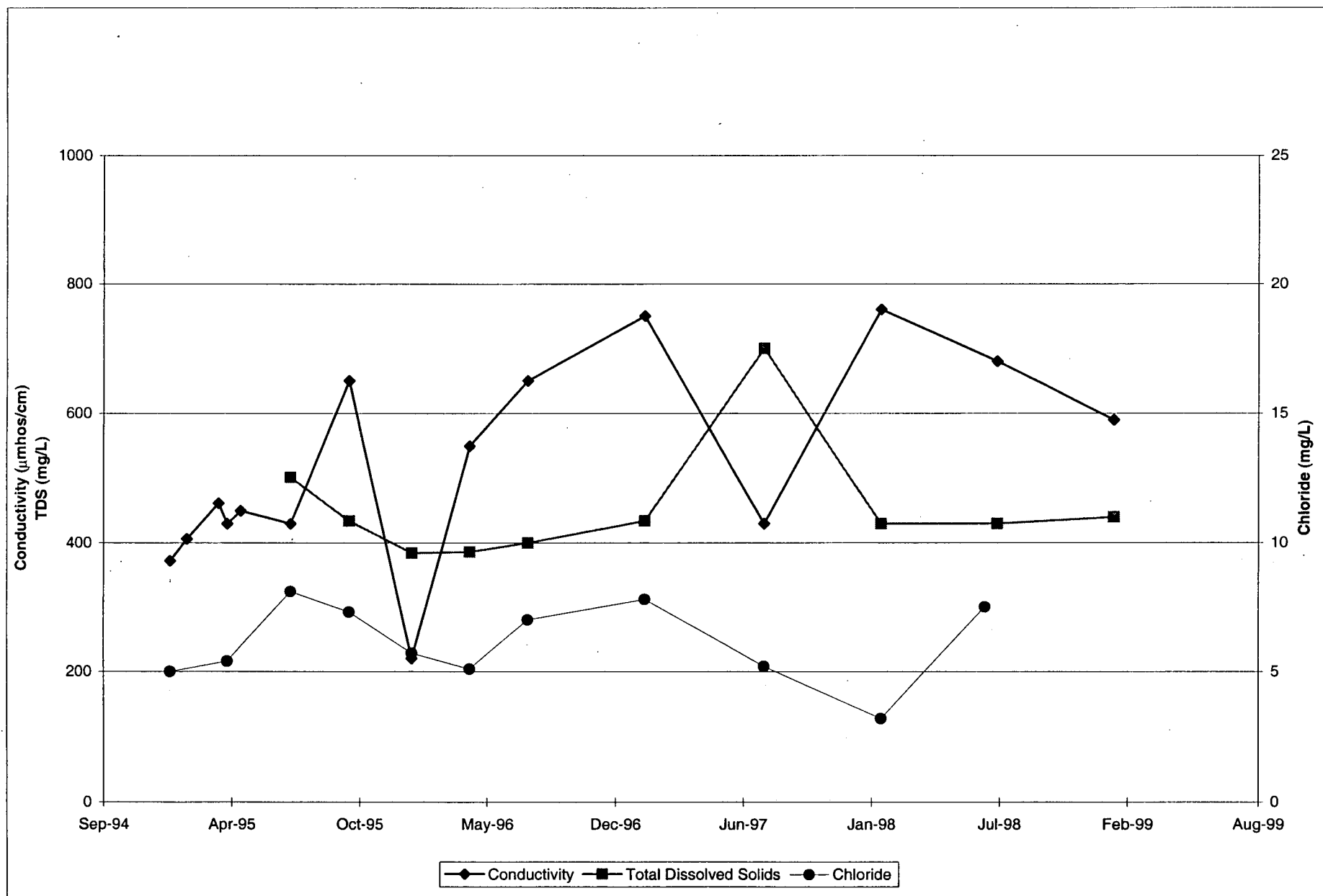


FIGURE 2-20
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-AA
Citrus County Central Landfill

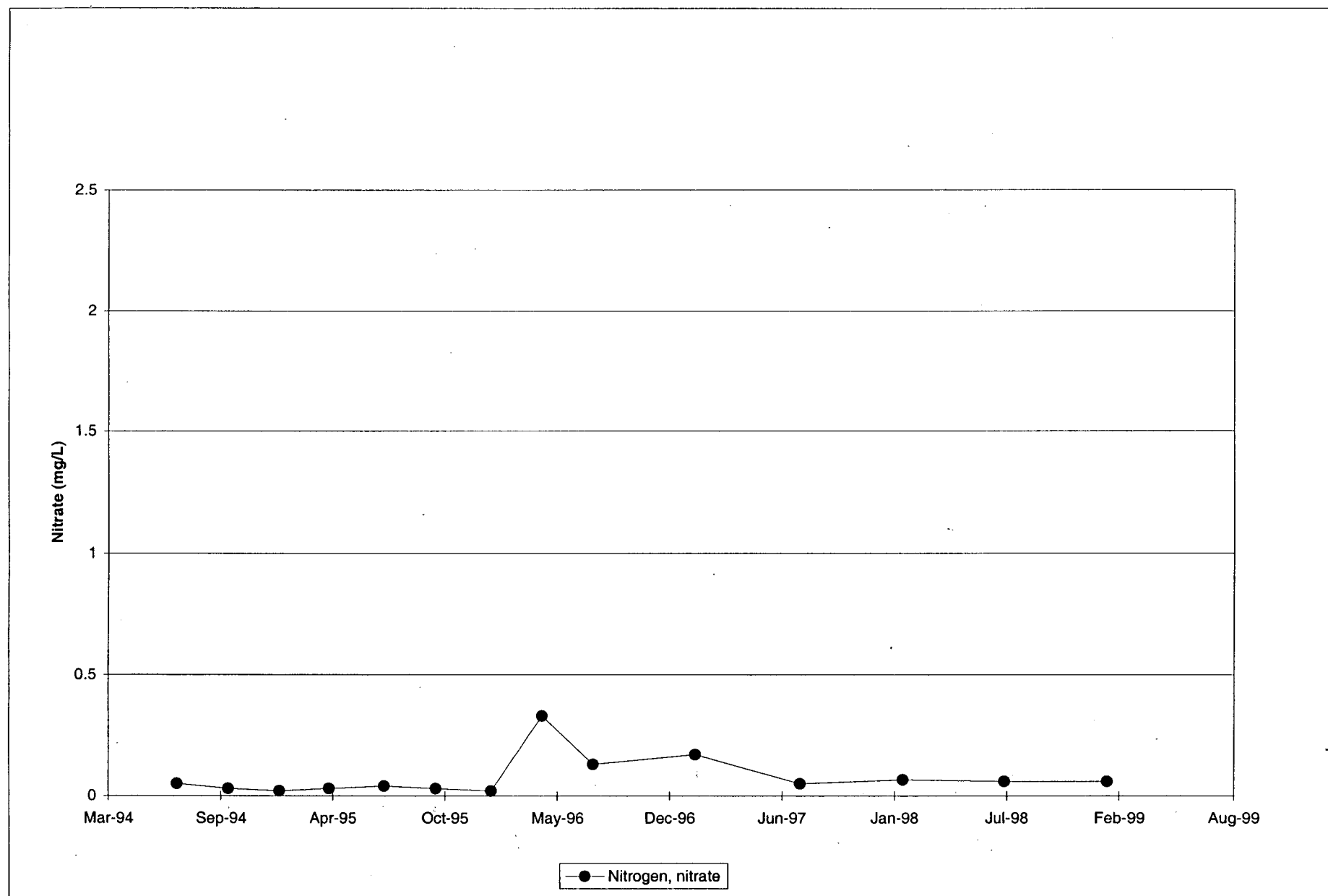


FIGURE 2-21
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-AA
Citrus County Central Landfill

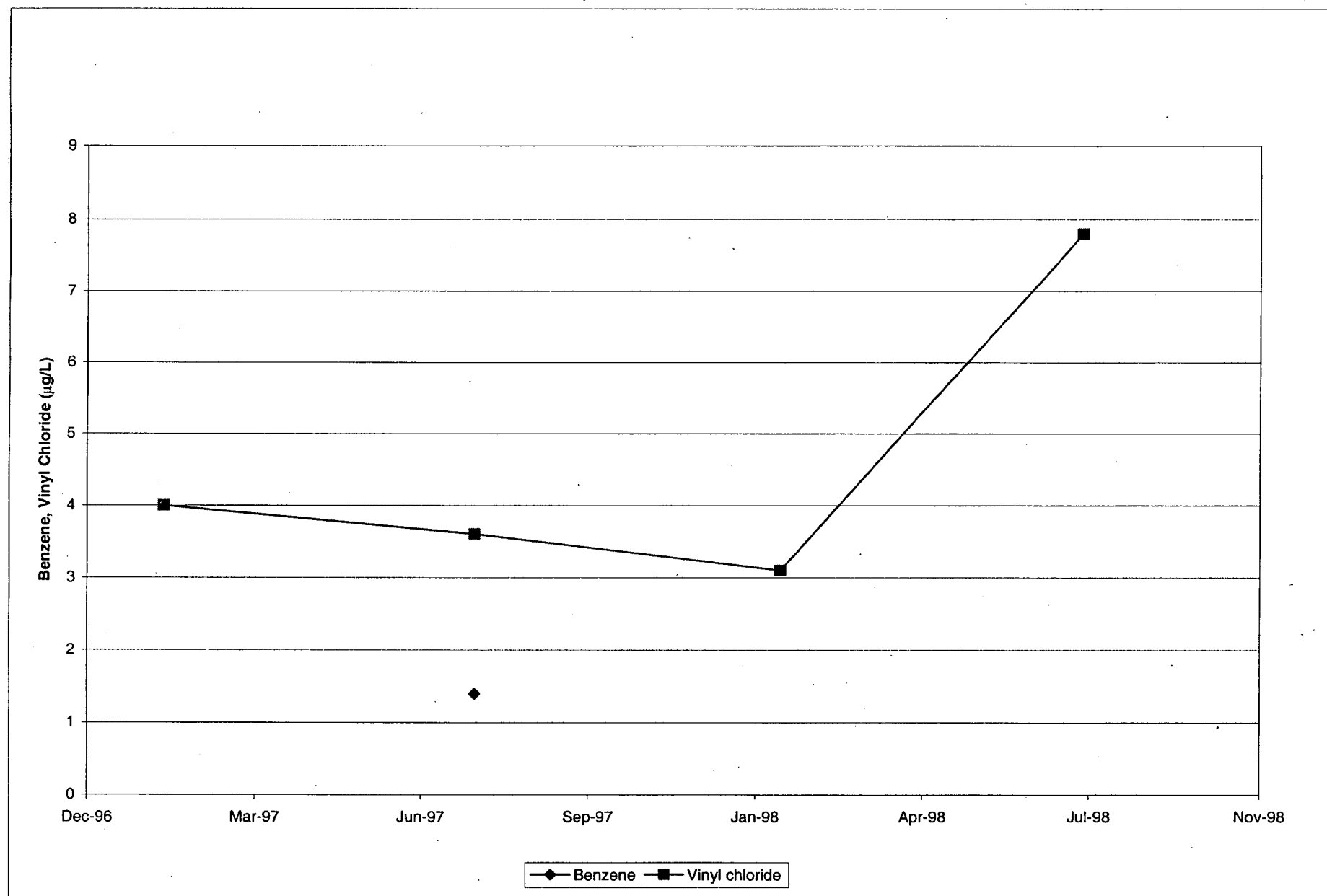


FIGURE 2-22
Benzene, Vinyl Chloride Trend Analysis for Monitoring Well MW-AA
Citrus County Central Landfill

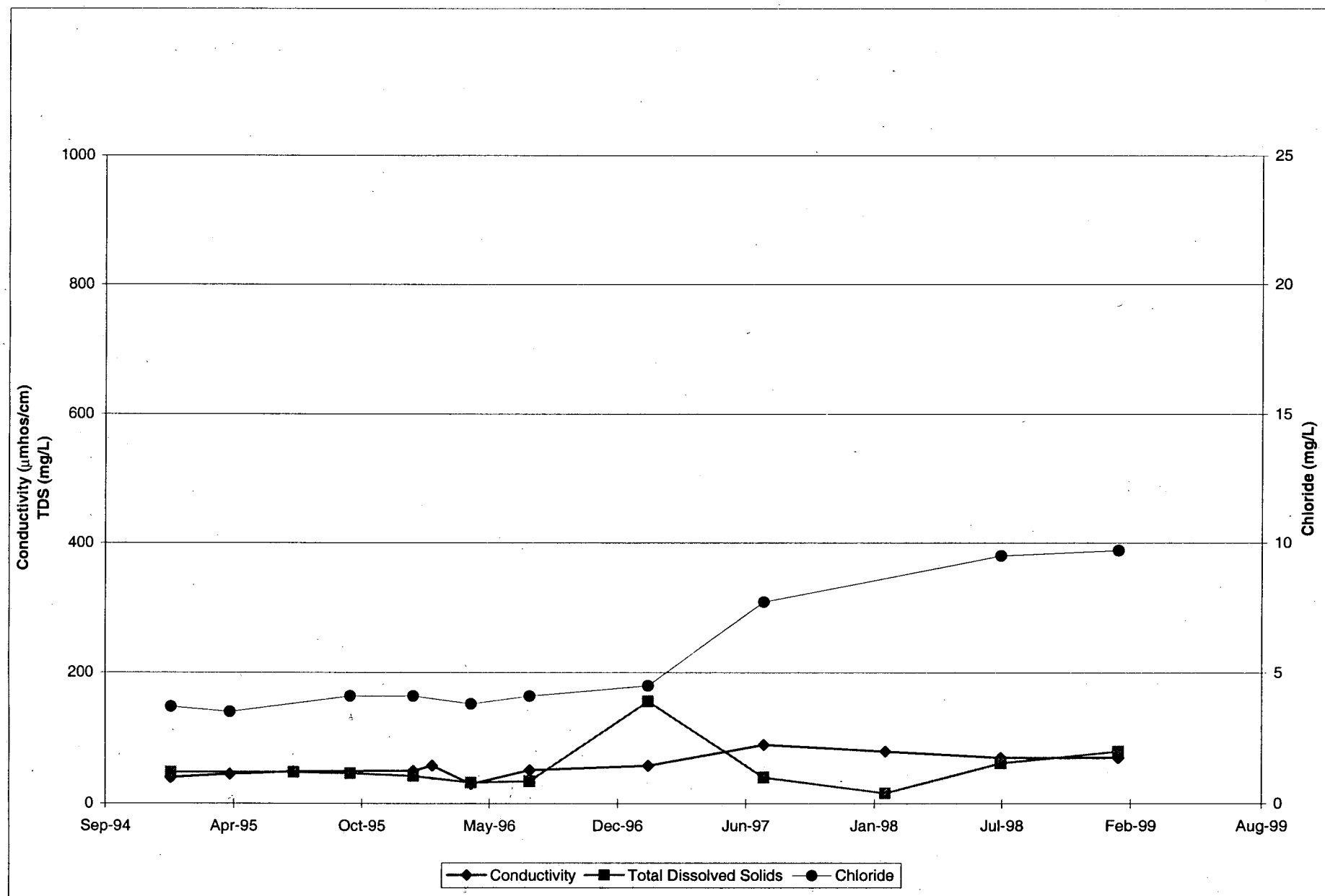


FIGURE 2-23
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-B
Citrus County Central Landfill

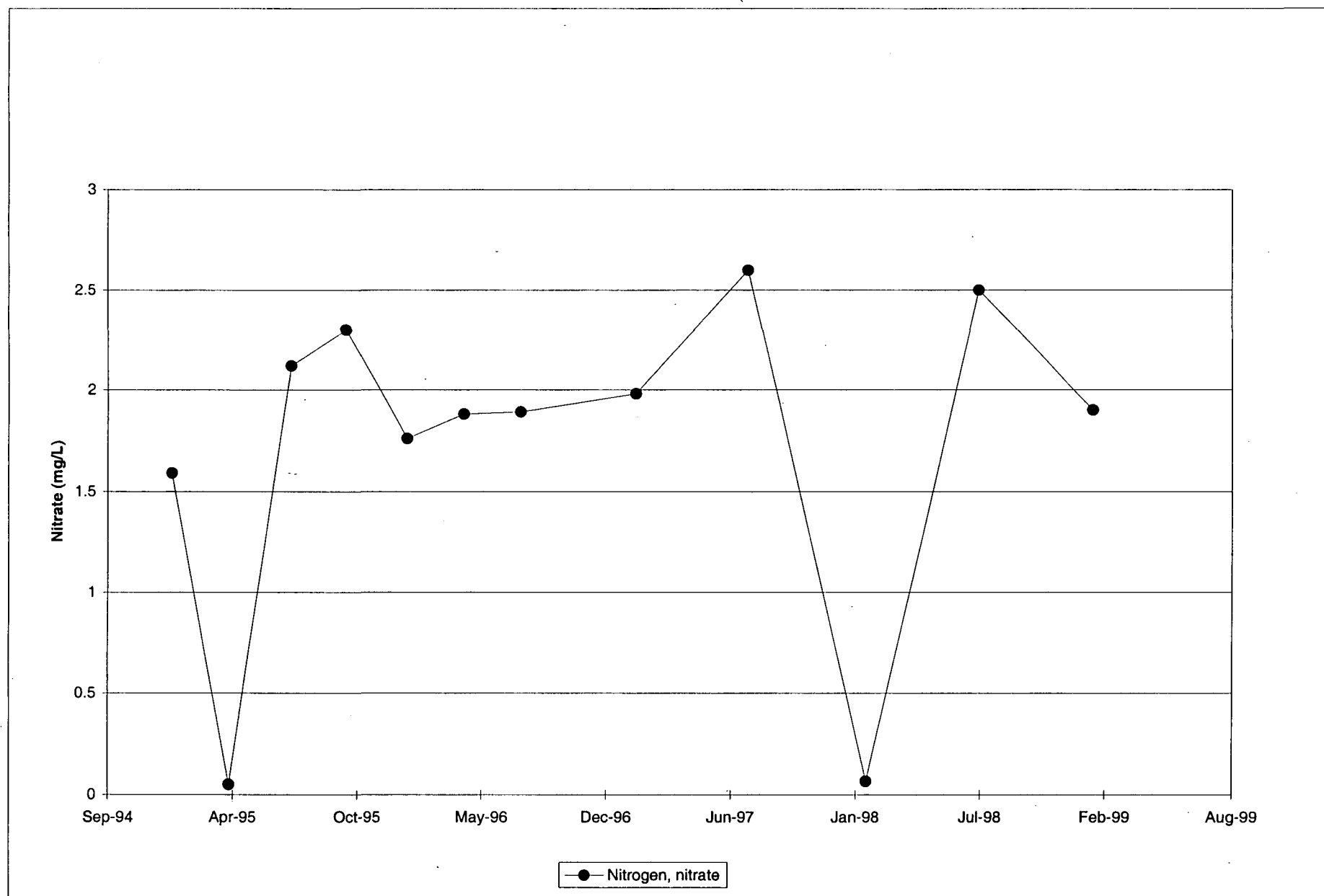


FIGURE 2-24
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-B
Citrus County Central Landfill

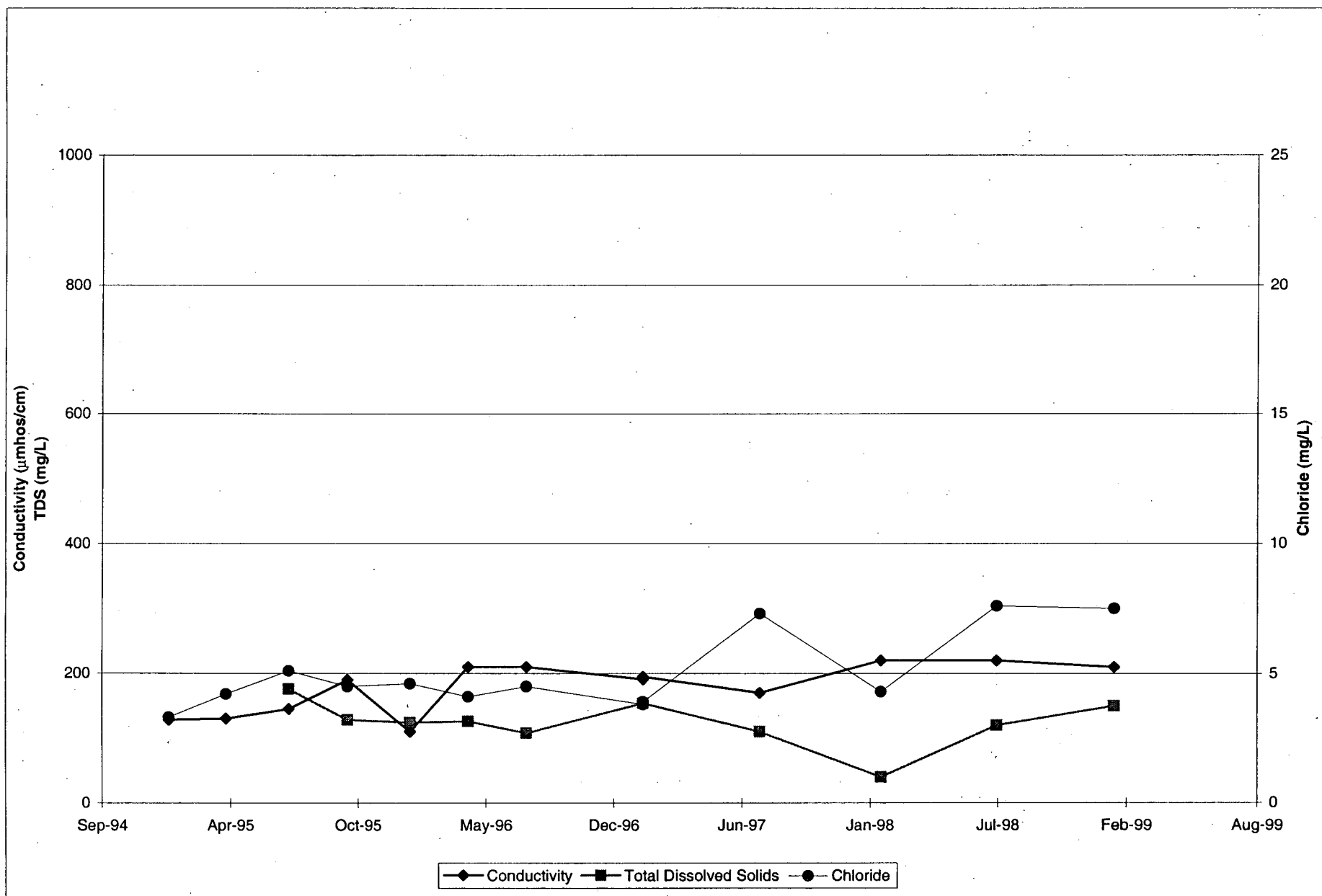


FIGURE 2-25
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-C
Citrus County Central Landfill

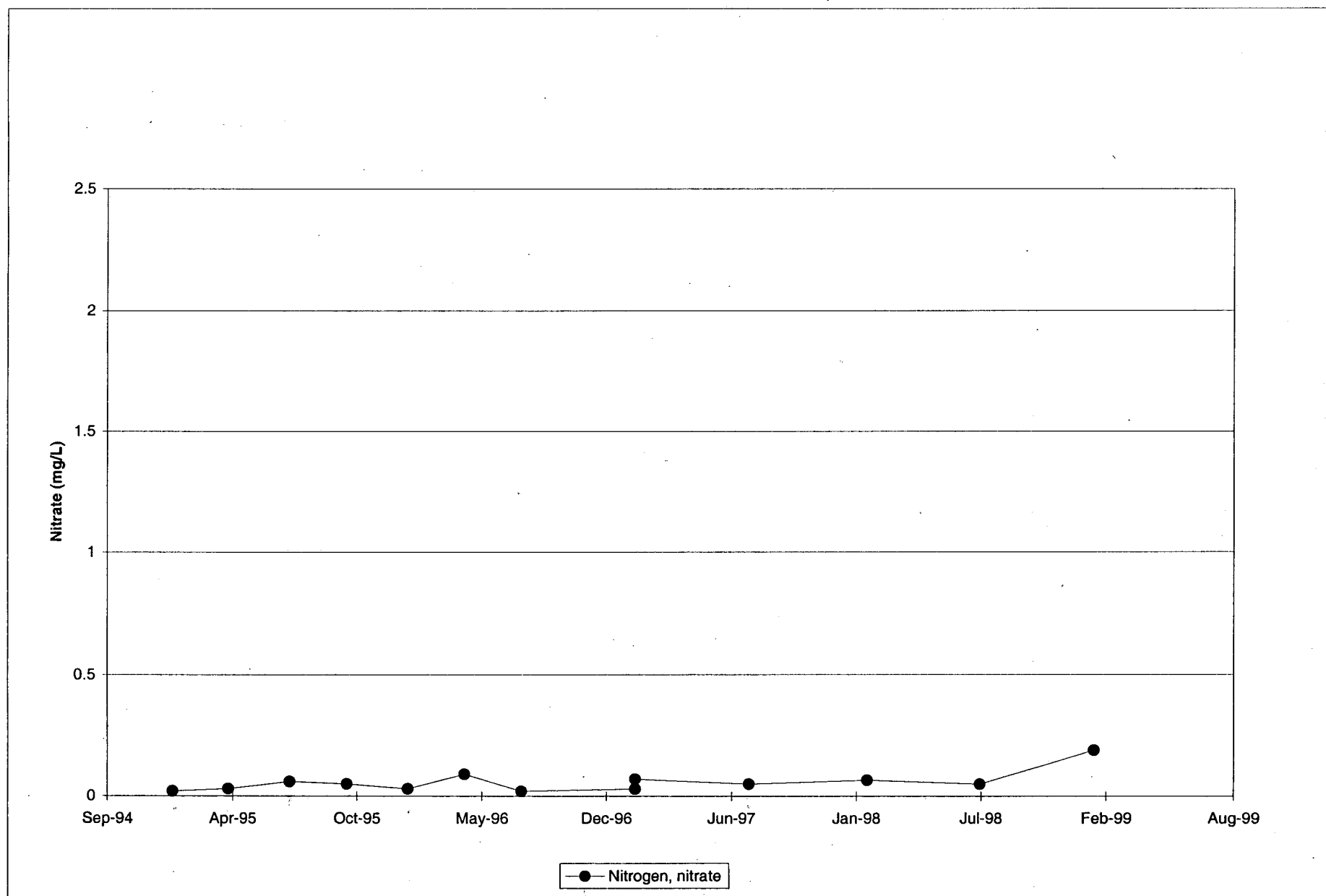


FIGURE 2-26
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-C
Citrus County Central Landfill

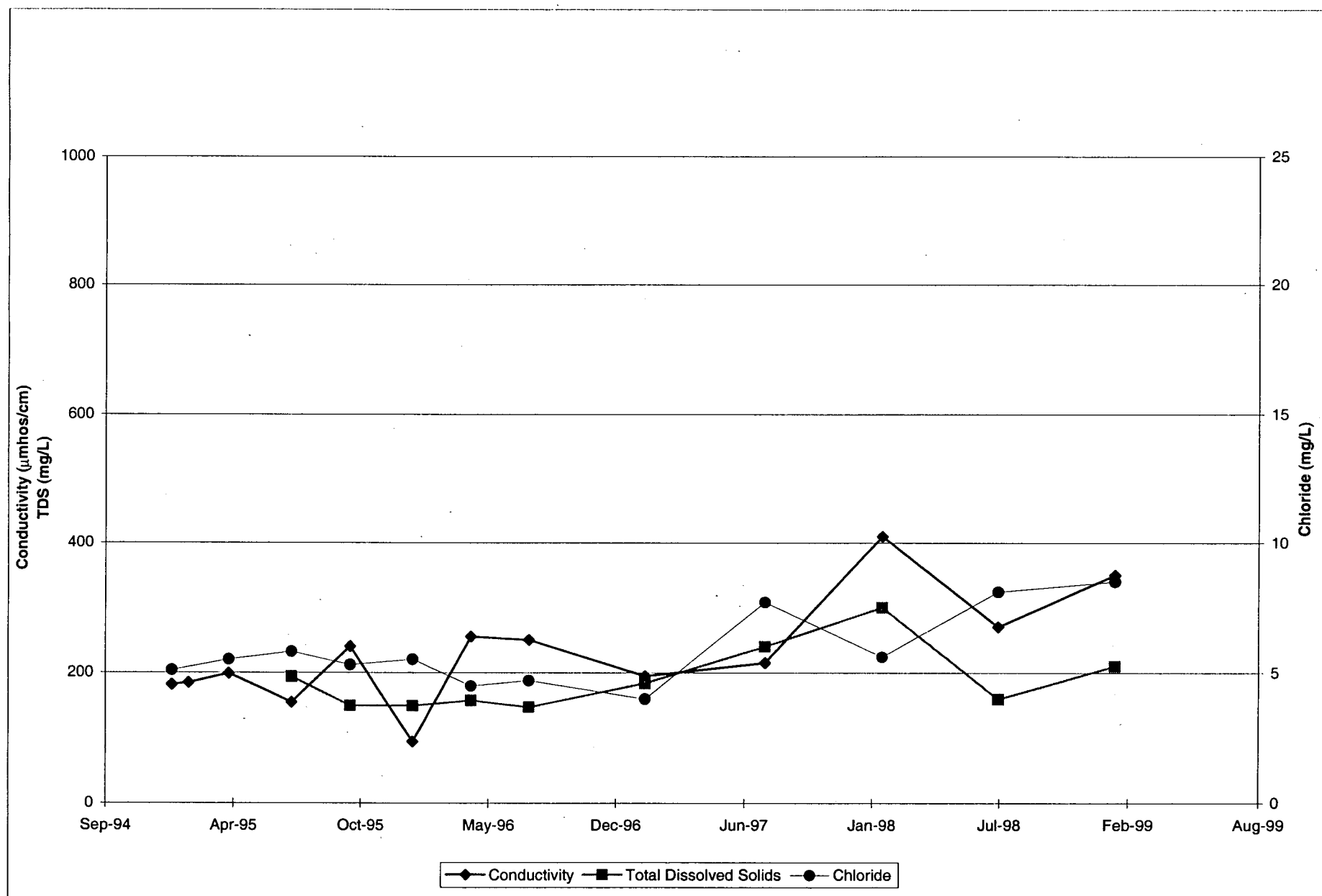


FIGURE 2-27
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-D
Citrus County Central Landfill

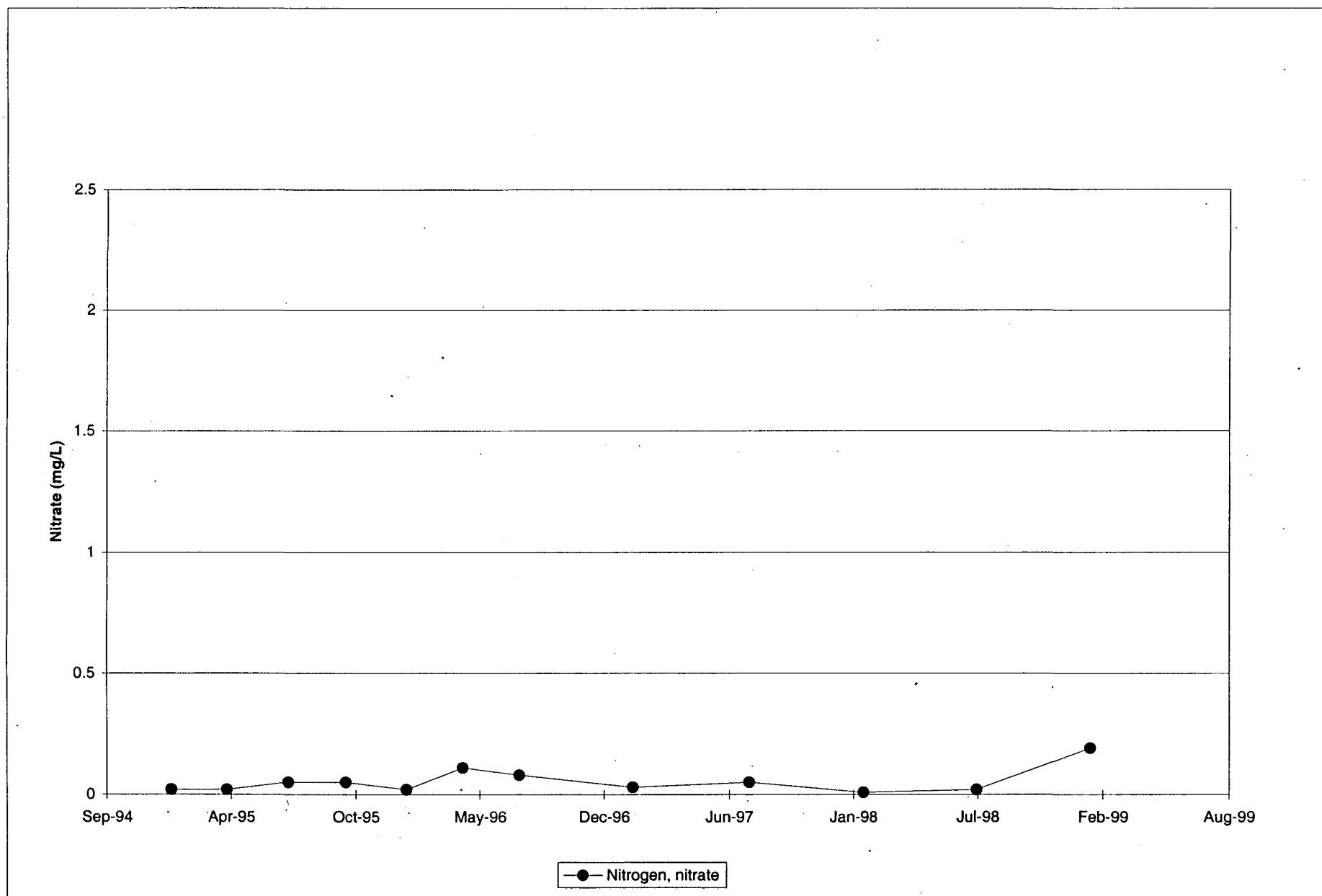


FIGURE 2-28

Nitrogen, nitrate Trend Analysis for Monitoring Well MW-D
Citrus County Central Landfill

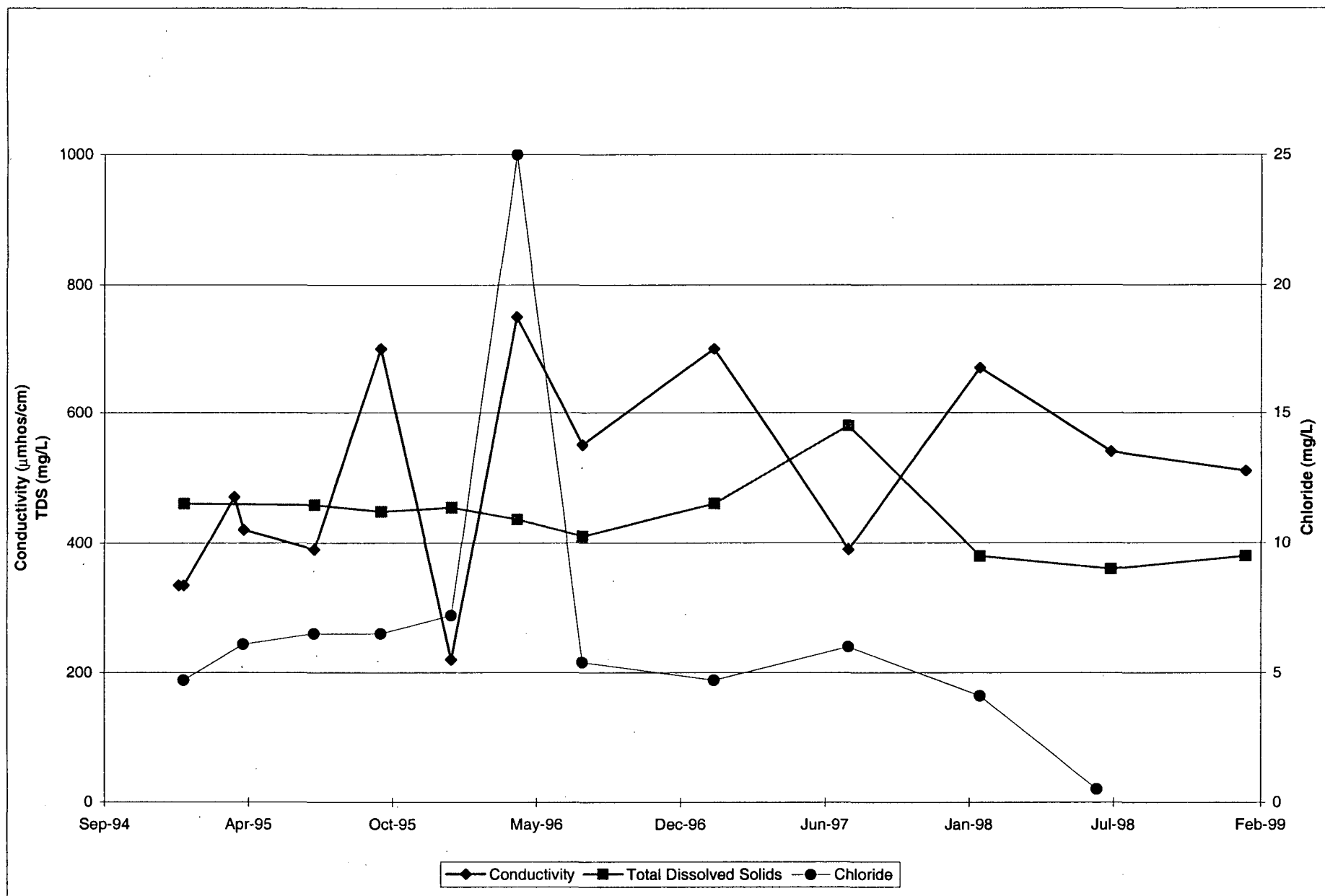


FIGURE 2-29
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-E
Citrus County Central Landfill

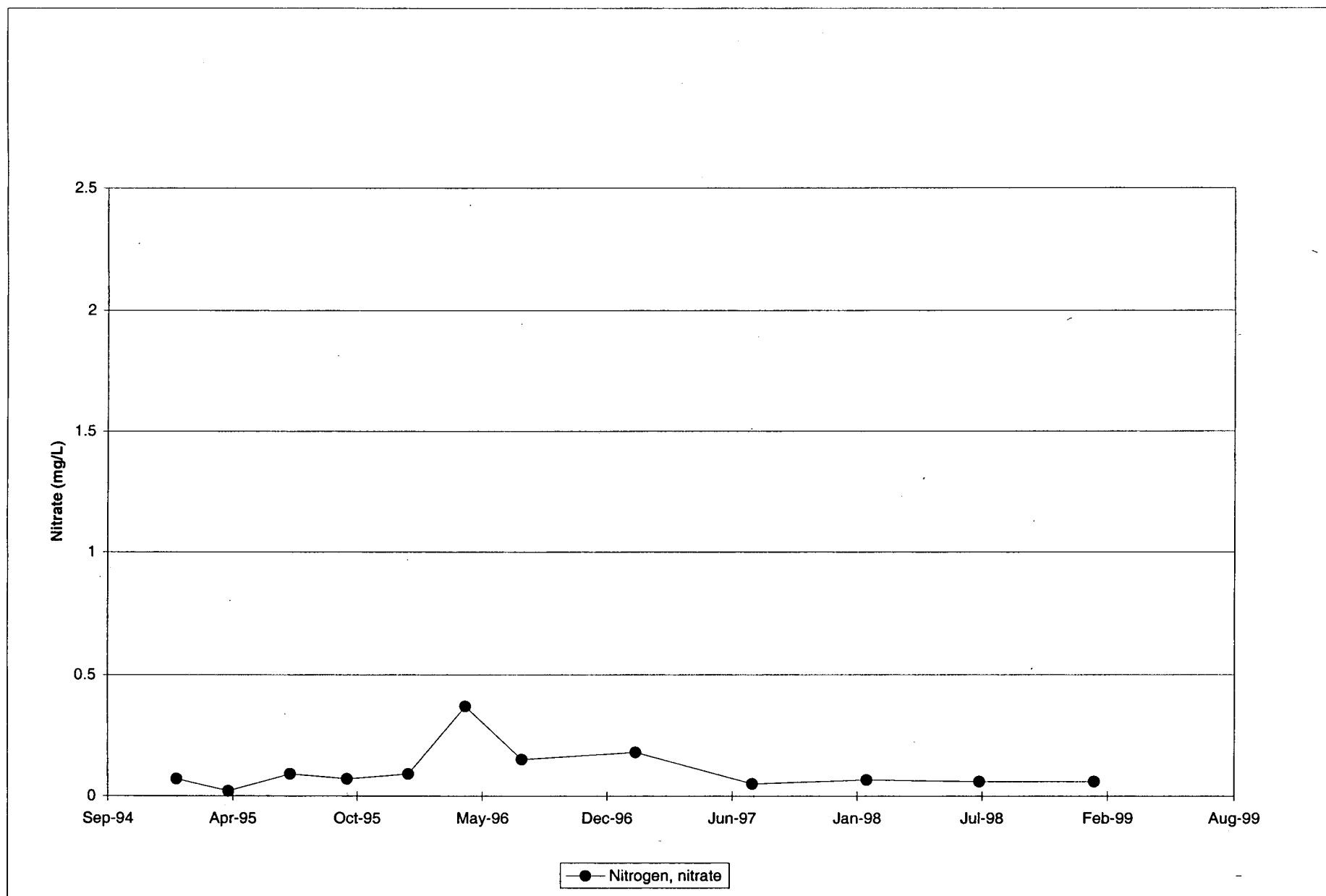


FIGURE 2-30
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-E
Citrus County Central Landfill

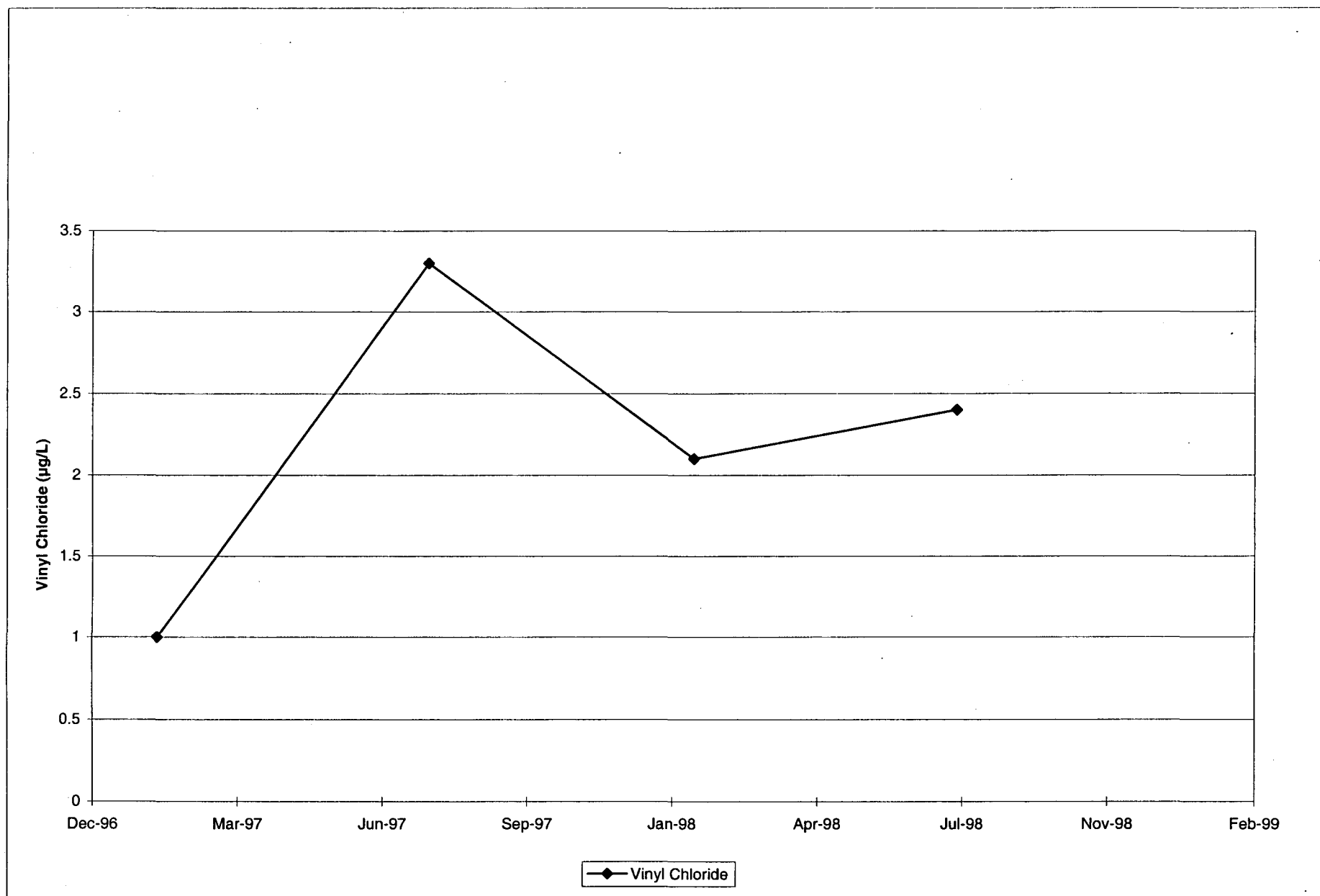


FIGURE 2-31
Vinyl Chloride Trend Analysis for Monitoring Well MW-E
Citrus County Central Landfill

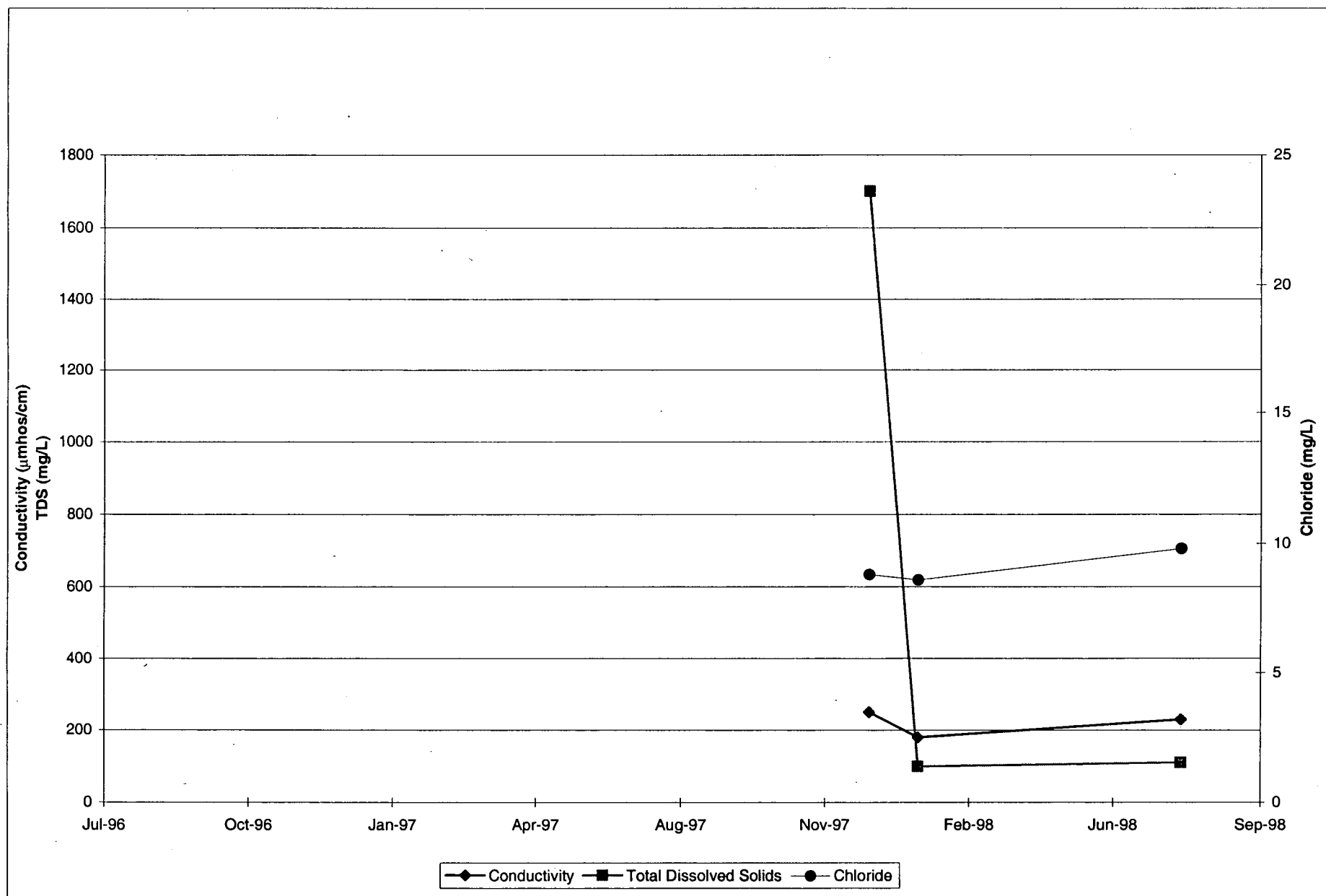


FIGURE 2-32
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-8R
Citrus County Central Landfill

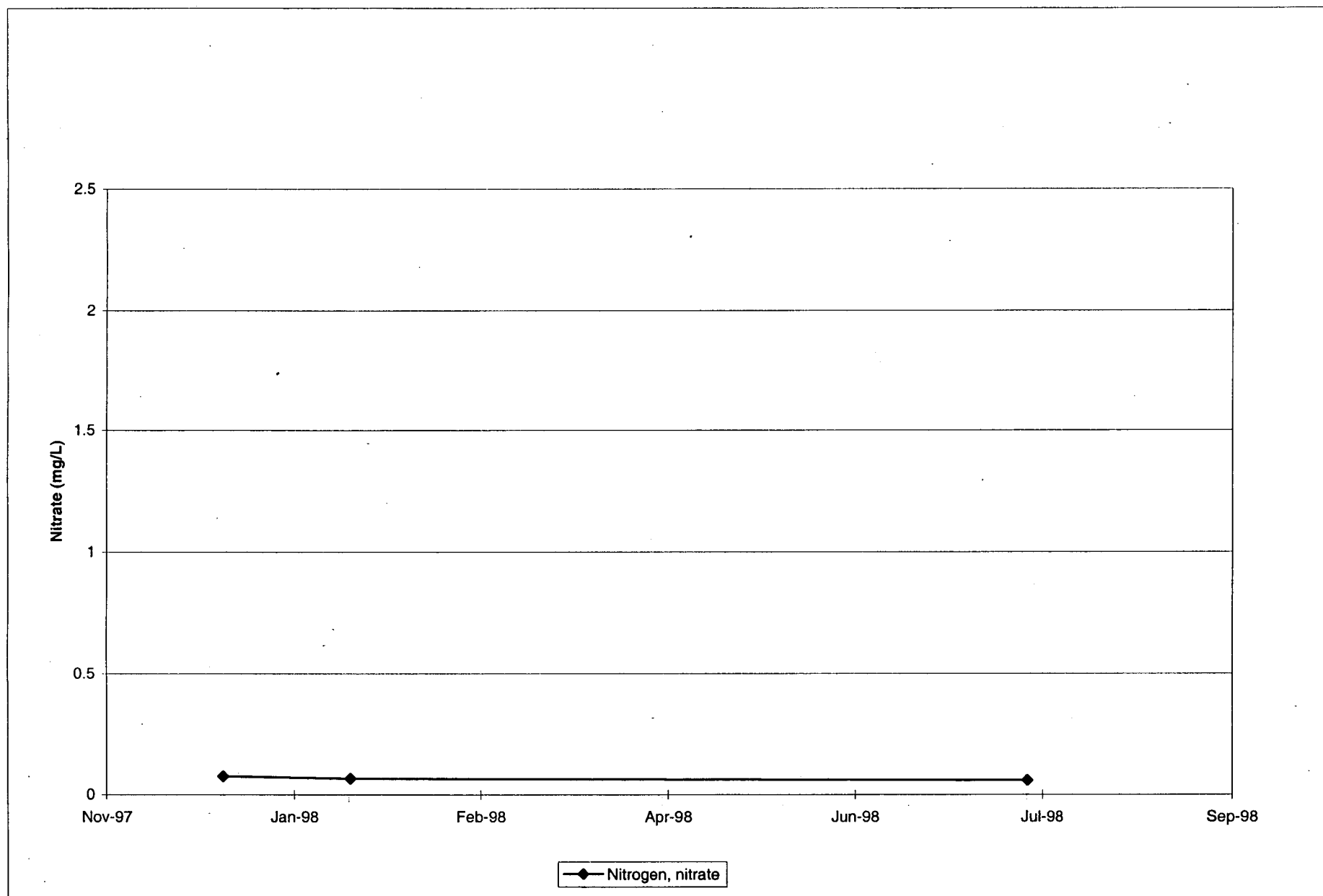


FIGURE 2-33
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-8R
Citrus County Central Landfill

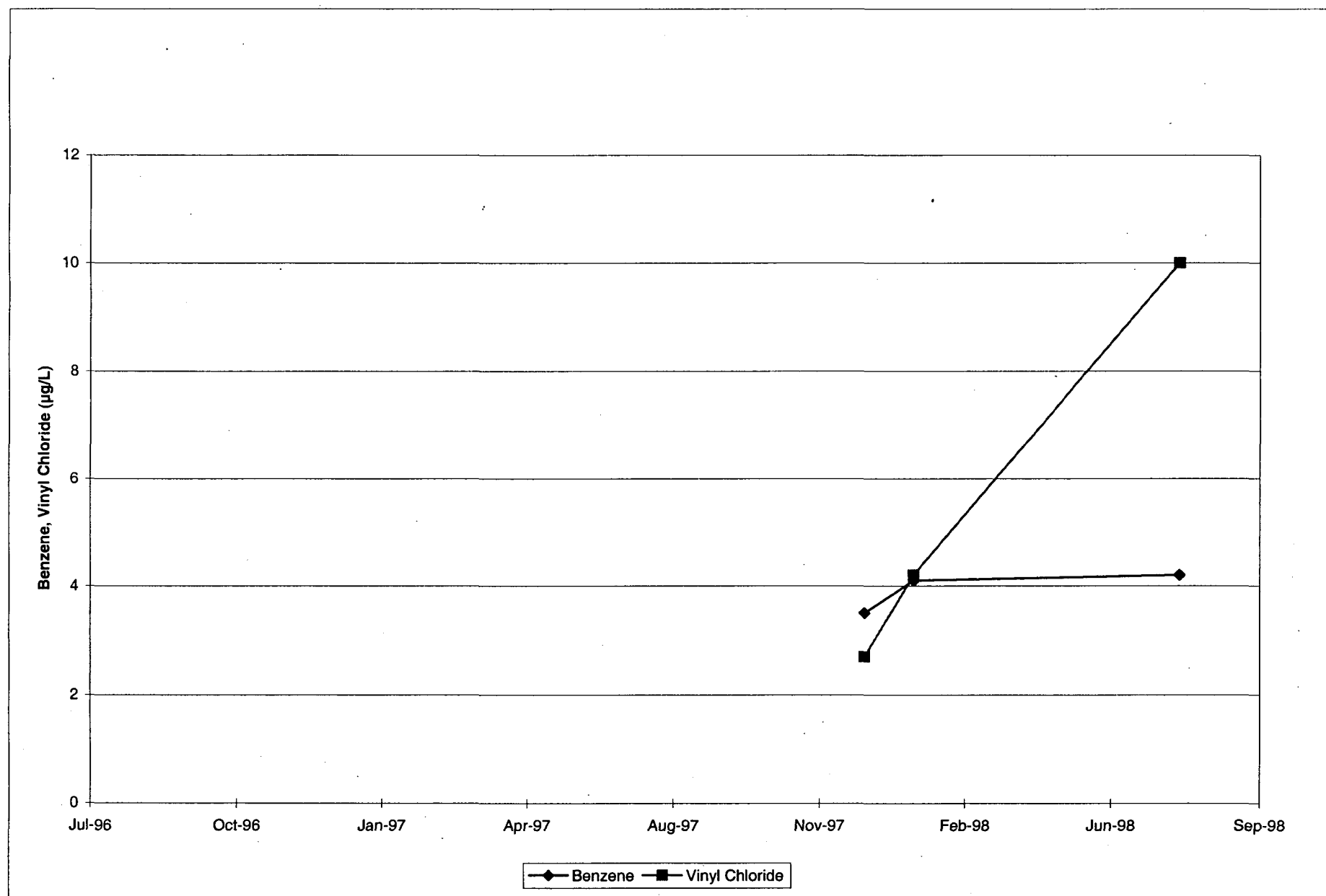


FIGURE 2-34
Benzene, Vinyl Chloride Trend Analysis for Monitoring Well MW-8R
Citrus County Central Landfill

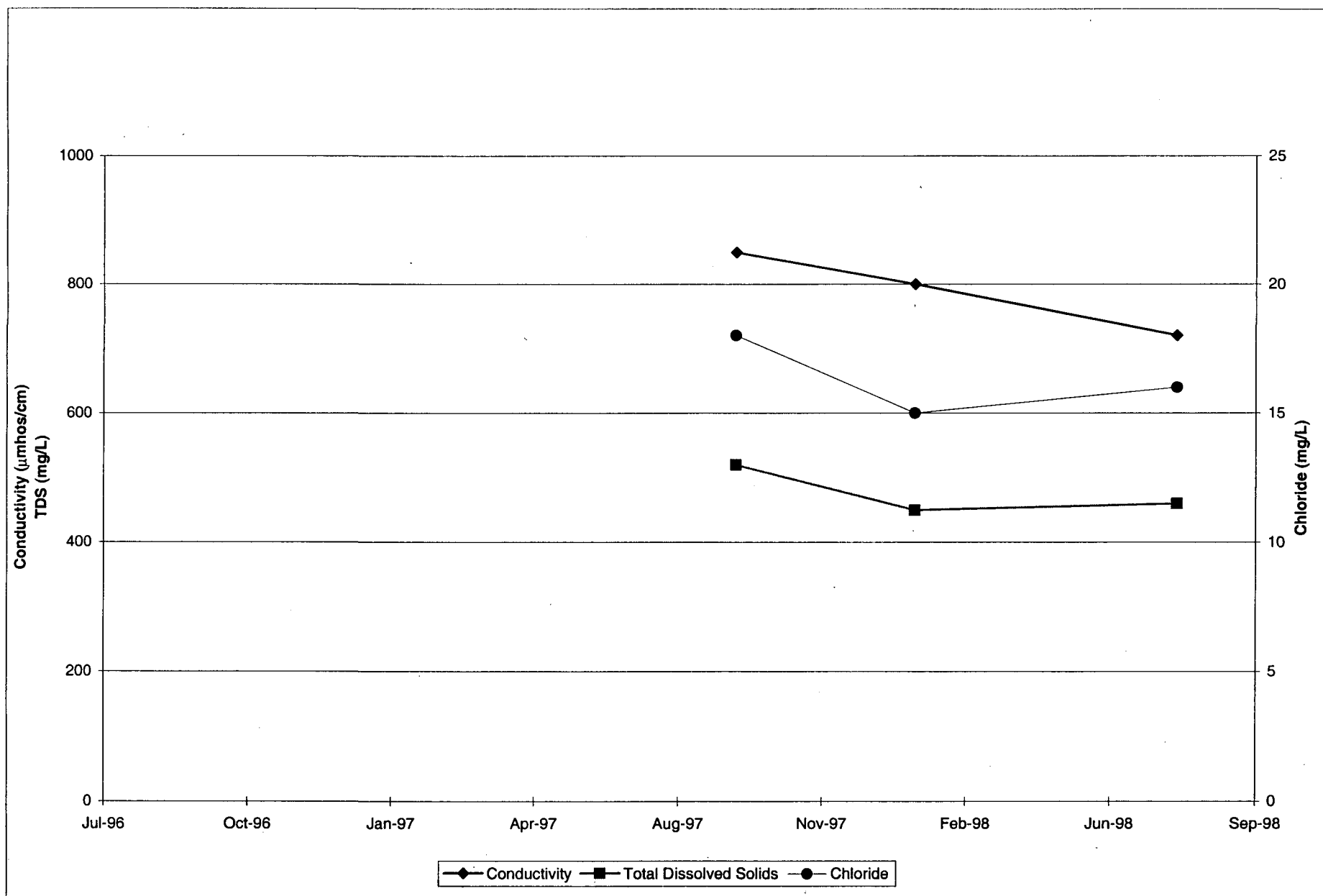


FIGURE 2-35
Conductivity, TDS, Chloride Trend Analysis for Monitoring Well MW-9
Citrus County Central Landfill

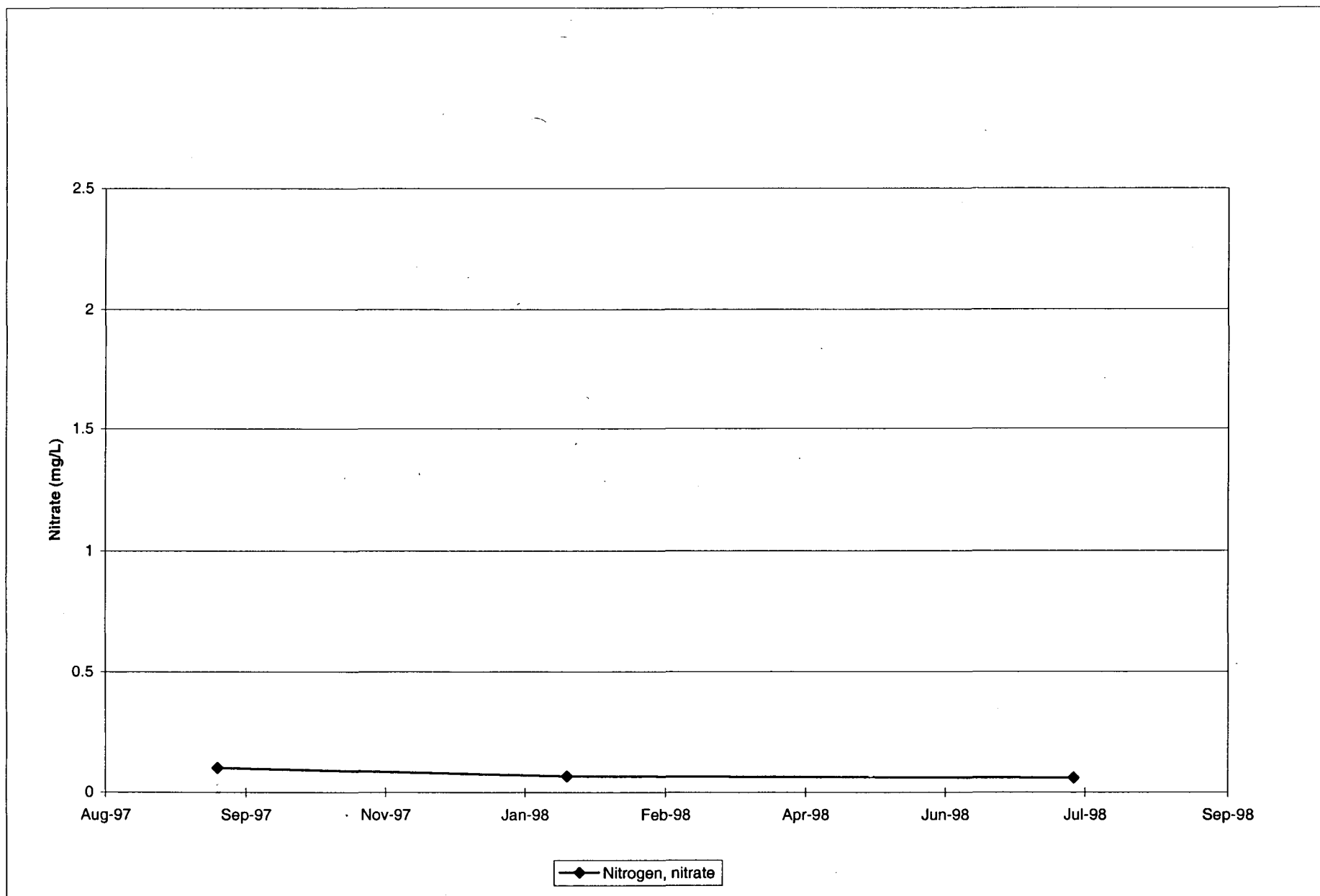


FIGURE 2-36
Nitrogen, nitrate Trend Analysis for Monitoring Well MW-9
Citrus County Central Landfill

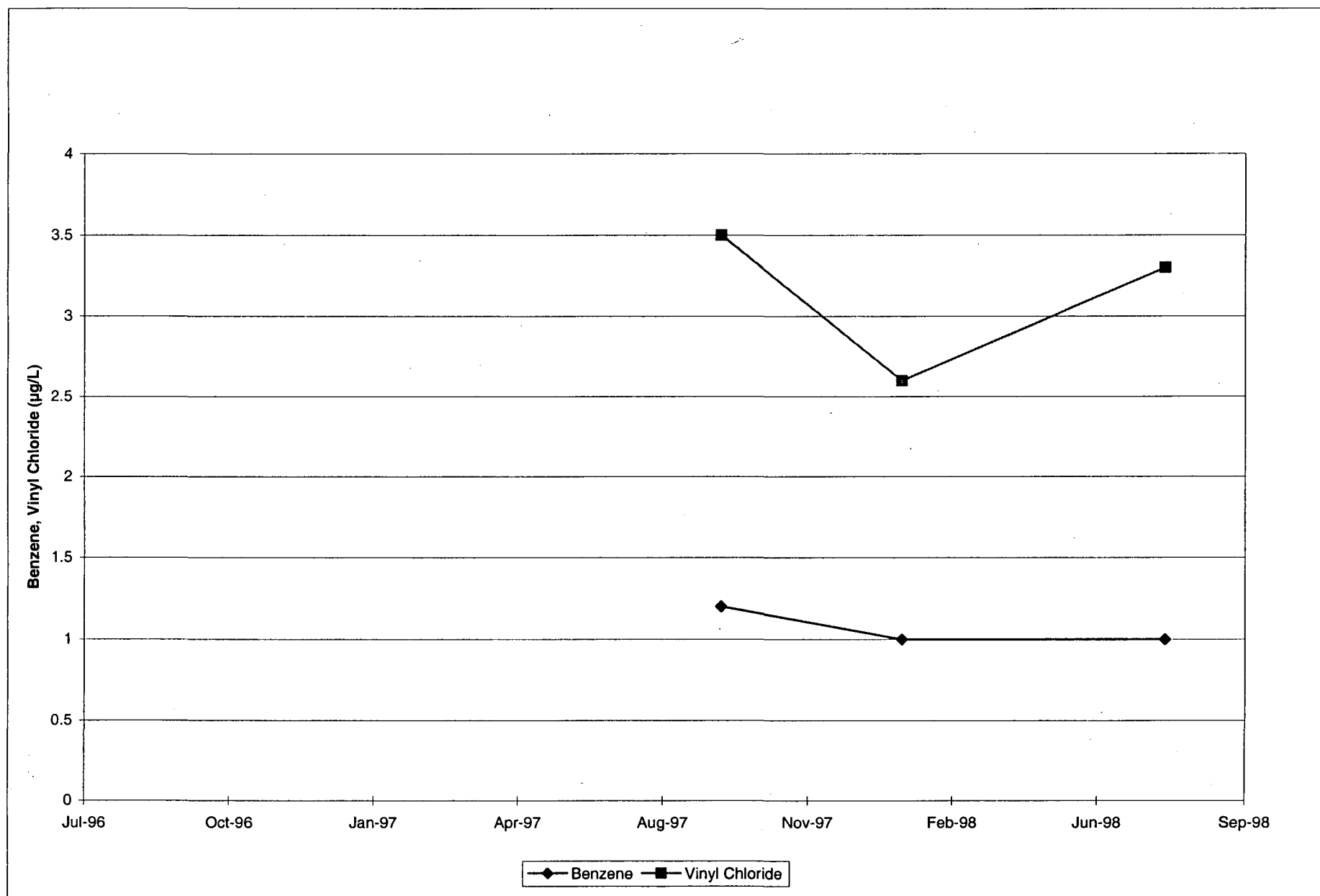


FIGURE 2-37
Benzene, Vinyl Chloride Trend Analysis for Monitoring Well MW-9
Citrus County Central Landfill

3. Summary and Conclusions

3.1 Summary

Citrus County Central Landfill currently has a groundwater monitoring system consisting of 14 wells, all open to the upper Floridan aquifer. Three of these wells, MW-7, MW-8R, and MW-9, were installed in 1997 as part of Phase IA landfill expansion activities. Water level contour maps for 1997 and 1998 indicate that groundwater flows from east to west across the site, and that at times, groundwater is mounding slightly in the area of the percolation ponds. Water levels in well MW-8R seem unusually low. This may be due to partial confinement in this portion of the upper Floridan aquifer. The groundwater velocity was calculated to be approximately 23 feet/year which correlates well with values from the previous two year monitoring period (26 feet/year).

Background monitoring wells MW-1R, MW-2, MW-3, and MW-7 exhibit low levels of TDS, chloride, and nitrate, and do not show any upward or downward trends. Iron and pH exceedances probably result from natural groundwater conditions at the site. Low-flow sampling techniques are being used and generally provide a more accurate representation of metals concentrations in groundwater at a site.

Percolation pond monitoring wells MW-4, MW-5 were eliminated from the sampling program after the July 1996 sampling event. Groundwater levels are still being collected at these monitoring points for groundwater flow map preparation. MW-6 had exceedances for chloroform, metals and pH. In addition, disinfection by-products (bromodichloromethane, bromoform, and dibromochloromethane) were detected above MCLs. These parameters typically result from treatment of municipal water with chlorine, and may be a result of the chlorine used in the leachate treatment process. TDS and chloride values appear to be on a decreasing trend after peaking in January 1996. Benzene and vinyl chloride were detected slightly above MCLs in MW-6. Compliance well MW-E was installed downgradient specifically to monitor benzene and vinyl chloride exceedances, and will be monitored further.

Detection wells MW-B, MW-C, and MW-D show very low levels of leachate indicator parameters (conductivity, TDS, chloride, and nitrate). No upward trends were indicated. Iron and pH exceedances are indicative of natural groundwater quality conditions and/or sampling techniques. The January 1998 TDS values of 1700 mg/L at MW-8R exceeded the FDEP MCL criterion of 500 mg/L however, this sample was collected shortly after development and the trend is now downward for this compound. Benzene and vinyl chloride were also identified at MW-8R with very slight increases noted from 1997 to 1998. These compounds will be further monitored during future sampling events to assess trends. MW-9 had one TDS exceedance of 520 mg/L, but values appear to be stable. Vinyl chloride and benzene were also identified in MW-9 at relatively low concentrations. These two compounds will be further monitored during subsequent sampling events to assess groundwater quality trends. Vinyl chloride and benzene are probably breakdown products from organic wastes in the unlined 60-acre landfill.

Monitoring wells MW-AA and MW-E show no upward trends for indicator parameters. TDS values at MW-AA were very near the MCL of 500 mg/L with the July 1997 value of 700 mg/L above the FDEP criterion. Benzene and vinyl chloride were detected above MCLs during the 2-year monitoring period. Benzene was detected in well MW-AA only in July 1997 at a concentration of 1.4 µg/L. Vinyl chloride levels ranged from 2 µg/L to 5 µg/L, and appeared to have stabilized. No increasing trend was noted. Metals and pH exceedances likely resulted from natural groundwater conditions and/or sampling techniques.

3.2 Conclusions

The existing monitoring well system at the Citrus County Central Landfill is adequate for the site conditions. The frequency of monitoring and sampling locations are sufficient to monitor groundwater quality trends at the site. Low-flow sampling techniques should be continued for subsequent sampling events.

APPENDIX A

Water Quality Data

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-1R	21-Jan-98	Barium	17 µg/L	2000 µg/L	98-8000568001	EPA_6010
MW-1R	21-Jul-98	Barium	18 µg/L	2000 µg/L	98-8004951001	EPA_6010
MW-1R	17-Jan-97	Barium, dissolved	26 µg/L	2000 µg/L	97-01-221-01A	EPA_6010
MW-1R	17-Jul-97	Barium, dissolved	470 µg/L	2000 µg/L	97-L21767-1	EPA_6010
MW-1R	17-Jan-97	Chloride	9.4 mg/L	250 mg/L	97-01-221-01A	EPA_325_2
MW-1R	17-Jul-97	Chloride	9.9 mg/L	250 mg/L	97-L21767-1	EPA300.0
MW-1R	21-Jan-98	Chloride	8.6 mg/L	250 mg/L	98-8000568001	EPA300.0
MW-1R	21-Jul-98	Chloride	10 mg/L	250 mg/L	98-8004951001	EPA300.0
MW-1R	21-Jan-98	Cobalt	13 µg/L	NA	98-8000568001	EPA_6010
MW-1R	21-Jul-98	Cobalt	14 µg/L	NA	98-8004951001	EPA_6010
MW-1R	17-Jan-97	Cobalt, dissolved	20 µg/L	NA	97-01-221-01A	EPA_6010
MW-1R	17-Jul-97	Cobalt, dissolved	20 µg/L	NA	97-L21767-1	EPA_6010
MW-1R	17-Jul-97	Colors & Sheens	0 NA	NA	97-L21767-1	NA
MW-1R	21-Jan-98	Colors & Sheens	0 NA	NA	98-8000568001	NA
MW-1R	21-Jul-98	Colors & Sheens	0 NA	NA	98-8004951001	NA
MW-1R	17-Jan-97	Conductivity	205 umhos/cm	NA	97-01-221-01A	EPA_120_2
MW-1R	17-Jul-97	Conductivity	145 umhos/cm	NA	97-L21767-1	EPA_120_1
MW-1R	21-Jan-98	Conductivity	130 umhos/cm	NA	98-8000568001	EPA_120_1
MW-1R	21-Jul-98	Conductivity	140 umhos/cm	NA	98-8004951001	EPA_120_1
MW-1R	17-Jan-97	Dissolved oxygen	3.1 mg/L	NA	97-01-221-01A	EPA_360_1
MW-1R	17-Jul-97	Dissolved oxygen	2.6 mg/L	NA	97-L21767-1	EPA_360_1
MW-1R	21-Jan-98	Dissolved oxygen	4.7 mg/L	NA	98-8000568001	EPA_360_1
MW-1R	21-Jul-98	Dissolved oxygen	4.8 mg/L	NA	98-8004951001	EPA_360_1
MW-1R	21-Jan-98	Iron	4000 µg/L	300 µg/L	98-8000568001	EPA_6010
MW-1R	21-Jul-98	Iron	4300 µg/L	300 µg/L	98-8004951001	EPA_6010
MW-1R	17-Jan-97	Iron, dissolved	10000 µg/L	300 µg/L	97-01-221-01A	EPA_6010
MW-1R	17-Jul-97	Iron, dissolved	8000 µg/L	300 µg/L	97-L21767-1	EPA_6010
MW-1R	17-Jan-97	Nickel	12 µg/L	100 µg/L	97-01-221-01A	EPA_6010
MW-1R	21-Jan-98	Nickel	10 µg/L	100 µg/L	98-8000568001	EPA_6010
MW-1R	21-Jul-98	Nickel	11 µg/L	100 µg/L	98-8004951001	EPA_6010
MW-1R	17-Jul-97	Nickel, dissolved	15 µg/L	100 µg/L	97-L21767-1	EPA_6010
MW-1R	17-Jan-97	Nitrogen, ammonia	0.15 mg/L	NA	97-01-221-01A	EPA_350_1
MW-1R	21-Jul-98	Nitrogen, ammonia	0.066 mg/L	NA	98-8004951001	EPA_350_1
MW-1R	17-Jan-97	Nitrogen, nitrate	0.13 mg/L	10 mg/L	97-01-221-01A	EPA_353_2
MW-1R	21-Jan-98	Nitrogen, nitrate	0.066 mg/L	10 mg/L	98-8000568001	EPA300.0
MW-1R	17-Jan-97	pH	5.89 units	6.5-8.5	97-01-221-01A	EPA_150_1

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values

Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-1R	17-Jul-97	pH	5.9 units	6.5-8.5	97-L21767-1	EPA_150_1
MW-1R	21-Jan-98	pH	6.9 units	6.5-8.5	98-8000568001	EPA_150_1
MW-1R	21-Jul-98	pH	5.6 units	6.5-8.5	98-8004951001	EPA_150_1
MW-1R	21-Jan-98	Sodium	6800 µg/L	160000 µg/L	98-8000568001	EPA_6010
MW-1R	21-Jul-98	Sodium	6700 µg/L	160000 µg/L	98-8004951001	EPA_6010
MW-1R	17-Jan-97	Sodium, dissolved	1400 µg/L	160000 µg/L	97-01-221-01A	EPA_6010
MW-1R	17-Jul-97	Sodium, dissolved	13000 µg/L	160000 µg/L	97-L21767-1	EPA_6010
MW-1R	17-Jan-97	Temperature	20.6 C	NA	97-01-221-01A	EPA_170_1
MW-1R	17-Jul-97	Temperature	26.3 C	NA	97-L21767-1	EPA_170_1
MW-1R	21-Jan-98	Temperature	20 C	NA	98-8000568001	EPA_170_1
MW-1R	21-Jul-98	Temperature	24 C	NA	98-8004951001	EPA_170_1
MW-1R	17-Jan-97	Total dissolved solids	216 mg/L	500 mg/L	97-01-221-01A	EPA_160_1
MW-1R	17-Jul-97	Total dissolved solids	100 mg/L	500 mg/L	97-L21767-1	EPA_160_1
MW-1R	21-Jan-98	Total dissolved solids	66 mg/L	500 mg/L	98-8000568001	EPA_160_1
MW-1R	21-Jul-98	Total dissolved solids	68 mg/L	500 mg/L	98-8004951001	EPA_160_1
MW-1R	17-Jul-97	Turbidity	7.85 NTU	NA	97-L21767-1	EPA_180_1
MW-1R	21-Jan-98	Turbidity	0.09 NTU	NA	98-8000568001	EPA_180_1
MW-1R	21-Jul-98	Turbidity	0.26 NTU	NA	98-8004951001	EPA_180_1
MW-1R	17-Jan-97	Turbidity, field filtered	0.34 NTU	NA	97-01-221-01A	EPA_180_1
MW-1R	17-Jul-97	Turbidity, field filtered	0.16 NTU	NA	97-L21767-1	EPA_180_1
MW-1R	17-Jul-97	Zinc, dissolved	210 µg/L	5000 µg/L	97-L21767-1	EPA_6010
MW-2	15-Jan-97	Acetone	61 µg/L	700 µg/L	97-01-191-06A	EPA 8260
MW-2	15-Jan-97	Chloride	1.6 mg/L	250 mg/L	97-01-191-06A	EPA_325_2
MW-2	21-Jul-97	Chloride	5.6 mg/L	250 mg/L	97-L31898-4	EPA300.0
MW-2	22-Jan-98	Chloride	1.8 mg/L	250 mg/L	98-8000602004	EPA300.0
MW-2	22-Jan-98	Chloride	6.7 mg/L	250 mg/L	98-8000602005FD	EPA300.0
MW-2	20-Jul-98	Chloride	150 mg/L	250 mg/L	98-8004891006FD	EPA300.0
MW-2	20-Jul-98	Chloride	7.5 MG/L	250 mg/L	98-8004891009	EPA300.0
MW-2	21-Jul-97	Chloroform	1.8 µg/L	6 µg/L	97-L31898-4	EPA 8260
MW-2	22-Jan-98	Chloroform	2.3 µg/L	6 µg/L	98-8000602004	EPA 8260
MW-2	20-Jul-98	Cobalt, dissolved	2.3 µg/L	NA	98-8004891006FD	EPA_6010
MW-2	21-Jul-97	Colors & Sheens	0 NA	NA	97-L31898-4	NA
MW-2	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602005FD	NA
MW-2	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602004	NA
MW-2	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891006FD	NA
MW-2	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891009	NA

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values
Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-2	15-Jan-97	Conductivity	30 umhos/cm	NA	97-01-191-06A	EPA_120_2
MW-2	21-Jul-97	Conductivity	25 umhos/cm	NA	97-L31898-4	EPA_120_1
MW-2	22-Jan-98	Conductivity	20 umhos/cm	NA	98-8000602005FD	EPA_120_1
MW-2	22-Jan-98	Conductivity	20 umhos/cm	NA	98-8000602004	EPA_120_1
MW-2	20-Jul-98	Conductivity	20 umhos/cm	NA	98-8004891009	EPA_120_1
MW-2	20-Jul-98	Conductivity	780 umhos/cm	NA	98-8004891006FD	EPA_120_1
MW-2	15-Jan-97	Dissolved oxygen	6.8 mg/L	NA	97-01-191-06A	EPA_360_1
MW-2	23-Jan-97	Dissolved oxygen	8.8 mg/L	NA	97-01-289-01A	EPA_360_1
MW-2	21-Jul-97	Dissolved oxygen	7 mg/L	NA	97-L31898-4	EPA_360_1
MW-2	22-Jan-98	Dissolved oxygen	5.5 mg/L	NA	98-8000602004	EPA_360_1
MW-2	22-Jan-98	Dissolved oxygen	5.8 mg/L	NA	98-8000602005FD	EPA_360_1
MW-2	20-Jul-98	Dissolved oxygen	5.5 mg/L	NA	98-8004891009	EPA_360_1
MW-2	20-Jul-98	Dissolved oxygen	4.1 mg/L	NA	98-8004891006FD	EPA_360_1
MW-2	22-Jan-98	Iron	140 µg/L	300 µg/L	98-8000602004	EPA_6010
MW-2	22-Jan-98	Iron	140 µg/L	300 µg/L	98-8000602005FD	EPA_6010
MW-2	20-Jul-98	Iron	170 µg/L	300 µg/L	98-8004891009	EPA_6010
MW-2	15-Jan-97	Iron, dissolved	430 µg/L	300 µg/L	97-01-191-06A	EPA_6010
MW-2	23-Jan-97	Iron, dissolved	240 µg/L	300 µg/L	97-01-289-01A	EPA_6010
MW-2	21-Jul-97	Iron, dissolved	660 µg/L	300 µg/L	97-L31898-4	EPA_6010
MW-2	20-Jul-98	Iron, dissolved	190 µg/L	300 µg/L	98-8004891006FD	EPA_6010
MW-2	15-Jan-97	Nitrogen, ammonia	0.05 mg/L	NA	97-01-191-06A	EPA_350_1
MW-2	20-Jul-98	Nitrogen, ammonia	21 mg/L	NA	98-8004891006FD	EPA_350_1
MW-2	21-Jul-97	Nitrogen, nitrate	0.083 mg/L	10 mg/L	97-L31898-4	EPA300.0
MW-2	22-Jan-98	Nitrogen, nitrate	2.9 mg/L	10 mg/L	98-8000602005FD	EPA300.0
MW-2	20-Jul-98	Nitrogen, nitrate	34 mg/L	10 mg/L	98-8004891006FD	EPA300.0
MW-2	15-Jan-97	pH	6.53 units	6.5-8.5	97-01-191-06A	EPA_150_1
MW-2	23-Jan-97	pH	5.68 units	6.5-8.5	97-01-289-01A	EPA_150_1
MW-2	21-Jul-97	pH	5.5 units	6.5-8.5	97-L31898-4	EPA_150_1
MW-2	22-Jan-98	pH	5.5 units	6.5-8.5	98-8000602004	EPA_150_1
MW-2	22-Jan-98	pH	5.5 units	6.5-8.5	98-8000602005FD	EPA_150_1
MW-2	20-Jul-98	pH	4.9 units	6.5-8.5	98-8004891009	EPA_150_1
MW-2	20-Jul-98	pH	4.2 units	6.5-8.5	98-8004891006FD	EPA_150_1
MW-2	22-Jan-98	Sodium	1600 µg/L	160000 µg/L	98-8000602005FD	EPA_6010
MW-2	22-Jan-98	Sodium	1700 µg/L	160000 µg/L	98-8000602004	EPA_6010
MW-2	20-Jul-98	Sodium	1600 µg/L	160000 µg/L	98-8004891009	EPA_6010
MW-2	15-Jan-97	Sodium, dissolved	2200 µg/L	160000 µg/L	97-01-191-06A	EPA_6010

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values
Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-2	23-Jan-97	Sodium, dissolved	1900 µg/L	160000 µg/L	97-01-289-01A	EPA_6010
MW-2	21-Jul-97	Sodium, dissolved	3500 µg/L	160000 µg/L	97-L31898-4	EPA_6010
MW-2	20-Jul-98	Sodium, dissolved	110000 µg/L	160000 µg/L	98-8004891006FD	EPA_6010
MW-2	15-Jan-97	Temperature	21.5 C	NA	97-01-191-06A	EPA_170_1
MW-2	23-Jan-97	Temperature	22.3 C	NA	97-01-289-01A	EPA_170_1
MW-2	21-Jul-97	Temperature	23.5 C	NA	97-L31898-4	EPA_170_1
MW-2	22-Jan-98	Temperature	22 C	NA	98-8000602004	EPA_170_1
MW-2	22-Jan-98	Temperature	22 C	NA	98-8000602005FD	EPA_170_1
MW-2	20-Jul-98	Temperature	23 C	NA	98-8004891009	EPA_170_1
MW-2	20-Jul-98	Temperature	26 C	NA	98-8004891006FD	EPA_170_1
MW-2	15-Jan-97	Total dissolved solids	80 mg/L	500 mg/L	97-01-191-06A	EPA_160_1
MW-2	21-Jul-97	Total dissolved solids	10 mg/L	500 mg/L	97-L31898-4	EPA_160_1
MW-2	20-Jul-98	Total dissolved solids	28 mg/L	500 mg/L	98-8004891009	EPA_160_1
MW-2	20-Jul-98	Total dissolved solids	460 mg/L	500 mg/L	98-8004891006FD	EPA_160_1
MW-2	21-Jul-97	Turbidity	14.1 NTU	NA	97-L31898-4	EPA_180_1
MW-2	22-Jan-98	Turbidity	0.2 NTU	NA	98-8000602005FD	EPA_180_1
MW-2	22-Jan-98	Turbidity	0.2 NTU	NA	98-8000602004	EPA_180_1
MW-2	20-Jul-98	Turbidity	0.66 NTU	NA	98-8004891009	EPA_180_1
MW-2	20-Jul-98	Turbidity	0.43 NTU	NA	98-8004891006FD	EPA_180_1
MW-2	15-Jan-97	Turbidity, field filtered	1.19 NTU	NA	97-01-191-06A	EPA_180_1
MW-2	23-Jan-97	Turbidity, field filtered	0.26 NTU	NA	97-01-289-01A	EPA_180_1
MW-2	21-Jul-97	Turbidity, field filtered	0.86 NTU	NA	97-L31898-4	EPA_180_1
MW-2	21-Jul-97	Zinc, dissolved	30 µg/L	5000 µg/L	97-L31898-4	EPA_6010
MW-3	17-Jul-97	Barium, dissolved	450 µg/L	2000 µg/L	97-L21767-2	EPA_6010
MW-3	22-Jan-98	Barium, dissolved	160 µg/L	2000 µg/L	98-8000602002	EPA_6010
MW-3	21-Jul-98	Barium, dissolved	230 µg/L	2000 µg/L	98-8004951002	EPA_6010
MW-3	17-Jan-97	Chloride	2.6 mg/L	250 mg/L	97-01-221-02A	EPA_325_2
MW-3	17-Jul-97	Chloride	5.7 mg/L	250 mg/L	97-L21767-2	EPA300.0
MW-3	22-Jan-98	Chloride	8.2 mg/L	250 mg/L	98-8000602002	EPA300.0
MW-3	21-Jul-98	Chloride	7.5 MG/L	250 mg/L	98-8004951002	EPA300.0
MW-3	17-Jul-97	Chloroform	1.8 µg/L	6 µg/L	97-L21767-2	EPA 8260
MW-3	22-Jan-98	Chloroform	1.4 µg/L	6 µg/L	98-8000602002	EPA 8260
MW-3	17-Jul-97	Colors & Sheens	0 NA	NA	97-L21767-2	NA
MW-3	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602002	NA
MW-3	21-Jul-98	Colors & Sheens	0 NA	NA	98-8004951002	NA
MW-3	17-Jan-97	Conductivity	25 umhos/cm	NA	97-01-221-02A	EPA_120_2

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-3	23-Jan-97	Conductivity	25 umhos/cm	NA	97-01-289-02A	EPA_120_2
MW-3	17-Jul-97	Conductivity	30 umhos/cm	NA	97-L21767-2	EPA_120_1
MW-3	22-Jan-98	Conductivity	30 umhos/cm	NA	98-8000602002	EPA_120_1
MW-3	21-Jul-98	Conductivity	40 umhos/cm	NA	98-8004951002	EPA_120_1
MW-3	17-Jul-97	Copper, dissolved	16 µg/L	1000 µg/L	97-L21767-2	EPA_6010
MW-3	22-Jan-98	Copper, dissolved	4.8 µg/L	1000 µg/L	98-8000602002	EPA_6010
MW-3	21-Jul-98	Copper, dissolved	3 µg/L	1000 µg/L	98-8004951002	EPA_6010
MW-3	17-Jan-97	Dissolved oxygen	8.5 mg/L	NA	97-01-221-02A	EPA_360_1
MW-3	23-Jan-97	Dissolved oxygen	5.2 mg/L	NA	97-01-289-02A	EPA_360_1
MW-3	17-Jul-97	Dissolved oxygen	6.7 mg/L	NA	97-L21767-2	EPA_360_1
MW-3	22-Jan-98	Dissolved oxygen	7.4 mg/L	NA	98-8000602002	EPA_360_1
MW-3	21-Jul-98	Dissolved oxygen	7.5 mg/L	NA	98-8004951002	EPA_360_1
MW-3	17-Jan-97	Iron, dissolved	130 µg/L	300 µg/L	97-01-221-02A	EPA_6010
MW-3	17-Jan-97	Nitrogen, ammonia	0.04 mg/L	NA	97-01-221-02A	EPA_350_1
MW-3	22-Jan-98	Nitrogen, ammonia	0.059 mg/L	NA	98-8000602002	EPA_350_1
MW-3	21-Jul-98	Nitrogen, ammonia	0.057 mg/L	NA	98-8004951002	EPA_350_1
MW-3	17-Jan-97	Nitrogen, nitrate	0.05 mg/L	10 mg/L	97-01-221-02A	EPA_353_2
MW-3	22-Jan-98	Nitrogen, nitrate	0.25 mg/L	10 mg/L	98-8000602002	EPA300.0
MW-3	17-Jan-97	pH	5.99 units	6.5-8.5	97-01-221-02A	EPA_150_1
MW-3	23-Jan-97	pH	5.99 units	6.5-8.5	97-01-289-02A	EPA_150_1
MW-3	17-Jul-97	pH	5.7 units	6.5-8.5	97-L21767-2	EPA_150_1
MW-3	22-Jan-98	pH	5 units	6.5-8.5	98-8000602002	EPA_150_1
MW-3	21-Jul-98	pH	5.3 units	6.5-8.5	98-8004951002	EPA_150_1
MW-3	17-Jan-97	Sodium, dissolved	2500 µg/L	160000 µg/L	97-01-221-02A	EPA_6010
MW-3	23-Jan-97	Sodium, dissolved	2200 µg/L	160000 µg/L	97-01-289-02A	EPA_6010
MW-3	17-Jul-97	Sodium, dissolved	4100 µg/L	160000 µg/L	97-L21767-2	EPA_6010
MW-3	22-Jan-98	Sodium, dissolved	8100 µg/L	160000 µg/L	98-8000602002	EPA_6010
MW-3	21-Jul-98	Sodium, dissolved	12000 µg/L	160000 µg/L	98-8004951002	EPA_6010
MW-3	17-Jan-97	Temperature	18.1 C	NA	97-01-221-02A	EPA_170_1
MW-3	23-Jan-97	Temperature	21.7 C	NA	97-01-289-02A	EPA_170_1
MW-3	17-Jul-97	Temperature	23.6 C	NA	97-L21767-2	EPA_170_1
MW-3	22-Jan-98	Temperature	20 C	NA	98-8000602002	EPA_170_1
MW-3	21-Jul-98	Temperature	24 C	NA	98-8004951002	EPA_170_1
MW-3	17-Jan-97	Total dissolved solids	138 mg/L	500 mg/L	97-01-221-02A	EPA_160_1
MW-3	17-Jul-97	Total dissolved solids	24 mg/L	500 mg/L	97-L21767-2	EPA_160_1
MW-3	22-Jan-98	Total dissolved solids	22 mg/L	500 mg/L	98-8000602002	EPA_160_1

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-3	21-Jul-98	Total dissolved solids	31 mg/L	500 mg/L	98-8004951002	EPA_160_1
MW-3	17-Jul-97	Turbidity	102 NTU	NA	97-L21767-2	EPA_180_1
MW-3	22-Jan-98	Turbidity	14 NTU	NA	98-8000602002	EPA_180_1
MW-3	21-Jul-98	Turbidity	8.8 NTU	NA	98-8004951002	EPA_180_1
MW-3	17-Jan-97	Turbidity, field filtered	18.6 NTU	NA	97-01-221-02A	EPA_180_1
MW-3	23-Jan-97	Turbidity, field filtered	0.19 NTU	NA	97-01-289-02A	EPA_180_1
MW-3	17-Jul-97	Turbidity, field filtered	0.16 NTU	NA	97-L21767-2	EPA_180_1
MW-3	21-Jul-98	Turbidity, field filtered	1.6 NTU	NA	98-8004951002	EPA_180_1
MW-3	17-Jan-97	Zinc	65 µg/L	5000 µg/L	97-01-221-02A	EPA_6010
MW-3	17-Jul-97	Zinc, dissolved	260 µg/L	5000 µg/L	97-L21767-2	EPA_6010
MW-3	22-Jan-98	Zinc, dissolved	120 µg/L	5000 µg/L	98-8000602002	EPA_6010
MW-3	21-Jul-98	Zinc, dissolved	200 µg/L	5000 µg/L	98-8004951002	EPA_6010
MW-6	17-Jul-97	1,4-Dichlorobenzene	1.3 µg/L	75 µg/L	97-L21767-3	EPA 8260
MW-6	17-Jul-97	1,4-Dichlorobenzene	1.3 µg/L	75 µg/L	97-L21767-3	EPA 8260
MW-6	17-Jan-97	Barium, dissolved	65 µg/L	2000 µg/L	97-01-221-03A	EPA_6010
MW-6	17-Jul-97	Barium, dissolved	510 µg/L	2000 µg/L	97-L21767-3	EPA_6010
MW-6	22-Jan-98	Barium, dissolved	370 µg/L	2000 µg/L	98-8000602001	EPA_6010
MW-6	20-Jul-98	Barium, dissolved	98 µg/L	2000 µg/L	98-8004891005	EPA_6010
MW-6	17-Jan-97	Benzene	2 µg/L	1 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jan-97	Benzene	2 µg/L	1 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jul-97	Benzene	1.8 µg/L	1 µg/L	97-L21767-3	EPA 8260
MW-6	22-Jan-98	Benzene	1.7 µg/L	1 µg/L	98-8000602001	EPA 8260
MW-6	20-Jul-98	Benzene	1.7 µg/L	1 µg/L	98-8004891005	EPA 8260
MW-6	20-Jul-98	Benzene	1.7 µg/L	1 µg/L	98-8004891005	EPA 8260
MW-6	17-Jan-97	Bromodichloromethane	7 µg/L	0.6 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jul-97	Bromodichloromethane	19 µg/L	0.6 µg/L	97-L21767-3	EPA 8260
MW-6	22-Jan-98	Bromodichloromethane	9.3 µg/L	0.6 µg/L	98-8000602001	EPA 8260
MW-6	20-Jul-98	Bromodichloromethane	4.5 µg/L	0.6 µg/L	98-8004891005	EPA 8260
MW-6	17-Jul-97	Bromoform	5.2 µg/L	4 µg/L	97-L21767-3	EPA 8260
MW-6	22-Jan-98	Bromoform	2.5 µg/L	4 µg/L	98-8000602001	EPA 8260
MW-6	17-Jan-97	Chloride	122 mg/L	250 mg/L	97-01-221-03A	EPA_325_2
MW-6	17-Jul-97	Chloride	160 mg/L	250 mg/L	97-L21767-3	EPA300.0
MW-6	22-Jan-98	Chloride	140 mg/L	250 mg/L	98-8000602001	EPA300.0
MW-6	20-Jul-98	Chloride	150 mg/L	250 mg/L	98-8004891005	EPA300.0
MW-6	17-Jan-97	Chloroform	6 µg/L	6 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jul-97	Chloroform	20 µg/L	6 µg/L	97-L21767-3	EPA 8260

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**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-6	22-Jan-98	Chloroform	7.4 µg/L	6 µg/L	98-8000602001	EPA 8260
MW-6	20-Jul-98	Chloroform	4.9 µg/L	6 µg/L	98-8004891005	EPA 8260
MW-6	17-Jul-97	cis-1,2-Dichloroethene	2.6 µg/L	70 µg/L	97-L21767-3	EPA 8260
MW-6	22-Jan-98	cis-1,2-Dichloroethene	2 µg/L	70 µg/L	98-8000602001	EPA 8260
MW-6	20-Jul-98	cis-1,2-Dichloroethene	2.8 µg/L	70 µg/L	98-8004891005	EPA 8260
MW-6	22-Jan-98	Cobalt, dissolved	3.1 µg/L	NA	98-8000602001	EPA_6010
MW-6	20-Jul-98	Cobalt, dissolved	2.6 µg/L	NA	98-8004891005	EPA_6010
MW-6	17-Jul-97	Colors & Sheens	0 NA	NA	97-L21767-3	NA
MW-6	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602001	NA
MW-6	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891005	NA
MW-6	17-Jan-97	Conductivity	600 umhos/cm	NA	97-01-221-03A	EPA_120_2
MW-6	17-Jul-97	Conductivity	750 umhos/cm	NA	97-L21767-3	EPA_120_1
MW-6	22-Jan-98	Conductivity	750 umhos/cm	NA	98-8000602001	EPA_120_1
MW-6	20-Jul-98	Conductivity	780 umhos/cm	NA	98-8004891005	EPA_120_1
MW-6	17-Jan-97	Copper	21 µg/L	1000 µg/L	97-01-221-03A	EPA_6010
MW-6	22-Jan-98	Copper, dissolved	8.4 µg/L	1000 µg/L	98-8000602001	EPA_6010
MW-6	20-Jul-98	Copper, dissolved	4.5 µg/L	1000 µg/L	98-8004891005	EPA_6010
MW-6	17-Jan-97	Dibromochloromethane	9 µg/L	1 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jul-97	Dibromochloromethane	18 µg/L	1 µg/L	97-L21767-3	EPA 8260
MW-6	22-Jan-98	Dibromochloromethane	9 µg/L	1 µg/L	98-8000602001	EPA 8260
MW-6	20-Jul-98	Dibromochloromethane	3.7 µg/L	1 µg/L	98-8004891005	EPA 8260
MW-6	17-Jan-97	Dissolved oxygen	2.7 mg/L	NA	97-01-221-03A	EPA_360_1
MW-6	17-Jul-97	Dissolved oxygen	3.1 mg/L	NA	97-L21767-3	EPA_360_1
MW-6	22-Jan-98	Dissolved oxygen	1.5 mg/L	NA	98-8000602001	EPA_360_1
MW-6	20-Jul-98	Dissolved oxygen	4.1 mg/L	NA	98-8004891005	EPA_360_1
MW-6	17-Jan-97	Iron, dissolved	310 µg/L	300 µg/L	97-01-221-03A	EPA_6010
MW-6	17-Jul-97	Iron, dissolved	370 µg/L	300 µg/L	97-L21767-3	EPA_6010
MW-6	22-Jan-98	Iron, dissolved	180 µg/L	300 µg/L	98-8000602001	EPA_6010
MW-6	20-Jul-98	Iron, dissolved	200 µg/L	300 µg/L	98-8004891005	EPA_6010
MW-6	17-Jan-97	Nickel	20 µg/L	100 µg/L	97-01-221-03A	EPA_6010
MW-6	17-Jul-97	Nickel, dissolved	19 µg/L	100 µg/L	97-L21767-3	EPA_6010
MW-6	22-Jan-98	Nickel, dissolved	11 µg/L	100 µg/L	98-8000602001	EPA_6010
MW-6	20-Jul-98	Nickel, dissolved	8.5 µg/L	100 µg/L	98-8004891005	EPA_6010
MW-6	17-Jan-97	Nitrogen, ammonia	2.12 mg/L	NA	97-01-221-03A	EPA_350_1
MW-6	17-Jul-97	Nitrogen, ammonia	2 mg/L	NA	97-L21767-3	EPA_350_1
MW-6	22-Jan-98	Nitrogen, ammonia	2 mg/L	NA	98-8000602001	EPA_350_1

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**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-6	20-Jul-98	Nitrogen, ammonia	21 mg/L	NA	98-8004891005	EPA_350_1
MW-6	17-Jan-97	Nitrogen, nitrate	19.3 mg/L	10 mg/L	97-01-221-03A	EPA_353_2
MW-6	17-Jul-97	Nitrogen, nitrate	44 mg/L	10 mg/L	97-L21767-3	EPA300.0
MW-6	22-Jan-98	Nitrogen, nitrate	31 mg/L	10 mg/L	98-8000602001	EPA300.0
MW-6	20-Jul-98	Nitrogen, nitrate	33 mg/L	10 mg/L	98-8004891005	EPA300.0
MW-6	17-Jan-97	pH	4.7 units	6.5-8.5	97-01-221-03A	EPA_150_1
MW-6	17-Jul-97	pH	4.7 units	6.5-8.5	97-L21767-3	EPA_150_1
MW-6	22-Jan-98	pH	4.4 units	6.5-8.5	98-8000602001	EPA_150_1
MW-6	20-Jul-98	pH	4.2 units	6.5-8.5	98-8004891005	EPA_150_1
MW-6	17-Jan-97	Sodium, dissolved	80000 µg/L	160000 µg/L	97-01-221-03A	EPA_6010
MW-6	17-Jul-97	Sodium, dissolved	130000 µg/L	160000 µg/L	97-L21767-3	EPA_6010
MW-6	22-Jan-98	Sodium, dissolved	99000 µg/L	160000 µg/L	98-8000602001	EPA_6010
MW-6	20-Jul-98	Sodium, dissolved	110000 µg/L	160000 µg/L	98-8004891005	EPA_6010
MW-6	17-Jan-97	Temperature	21.9 C	NA	97-01-221-03A	EPA_170_1
MW-6	17-Jul-97	Temperature	27.1 C	NA	97-L21767-3	EPA_170_1
MW-6	22-Jan-98	Temperature	22 C	NA	98-8000602001	EPA_170_1
MW-6	20-Jul-98	Temperature	26 C	NA	98-8004891005	EPA_170_1
MW-6	17-Jan-97	Total dissolved solids	442 mg/L	500 mg/L	97-01-221-03A	EPA_160_1
MW-6	17-Jul-97	Total dissolved solids	600 mg/L	500 mg/L	97-L21767-3	EPA_160_1
MW-6	22-Jan-98	Total dissolved solids	370 mg/L	500 mg/L	98-8000602001	EPA_160_1
MW-6	20-Jul-98	Total dissolved solids	460 mg/L	500 mg/L	98-8004891005	EPA_160_1
MW-6	17-Jul-97	Turbidity	10.3 NTU	NA	97-L21767-3	EPA_180_1
MW-6	22-Jan-98	Turbidity	100 NTU	NA	98-8000602001	EPA_180_1
MW-6	20-Jul-98	Turbidity	7.52 NTU	NA	98-8004891005	EPA_180_1
MW-6	17-Jan-97	Turbidity, field filtered	3.2 NTU	NA	97-01-221-03A	EPA_180_1
MW-6	17-Jul-97	Turbidity, field filtered	0.14 NTU	NA	97-L21767-3	EPA_180_1
MW-6	20-Jul-98	Turbidity, field filtered	0.62 NTU	NA	98-8004891005	EPA_180_1
MW-6	17-Jan-97	Vinyl chloride	2 µg/L	1 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jan-97	Vinyl chloride	2 µg/L	1 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jul-97	Vinyl chloride	4 µg/L	1 µg/L	97-L21767-3	EPA 8260
MW-6	22-Jan-98	Vinyl chloride	4.6 µg/L	1 µg/L	98-8000602001	EPA 8260
MW-6	20-Jul-98	Vinyl chloride	3.5 µg/L	1 µg/L	98-8004891005	EPA 8260
MW-6	17-Jan-97	Xylenes, total	4 µg/L	10000 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jan-97	Xylenes, total	4 µg/L	10000 µg/L	97-01-221-03A	EPA 8260
MW-6	17-Jul-97	Xylenes, total	5.7 µg/L	10000 µg/L	97-L21767-3	EPA 8260
MW-6	17-Jul-97	Xylenes, total	5.7 µg/L	10000 µg/L	97-L21767-3	EPA 8260

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**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-6	22-Jan-98	Xylenes, total	4 µg/L	10000 µg/L	98-8000602001	EPA 8260
MW-6	22-Jan-98	Xylenes, total	4 µg/L	10000 µg/L	98-8000602001	EPA 8260
MW-6	17-Jan-97	Zinc	90 µg/L	5000 µg/L	97-01-221-03A	EPA_6010
MW-6	17-Jul-97	Zinc, dissolved	290 µg/L	5000 µg/L	97-L21767-3	EPA_6010
MW-6	22-Jan-98	Zinc, dissolved	200 µg/L	5000 µg/L	98-8000602001	EPA_6010
MW-6	20-Jul-98	Zinc, dissolved	51 µg/L	5000 µg/L	98-8004891005	EPA_6010
MW-7	17-Sep-97	Antimony	6.9 µg/L	6 µg/L	97-L23895-1A	EPA_6010
MW-7	17-Sep-97	Antimony	6.9 µg/L	6 µg/L	97-L23895-1	UNK
MW-7	21-Jul-98	Antimony, dissolved	6.2 µg/L	6 µg/L	98-8004951003	EPA_6010
MW-7	22-Jan-98	Arsenic, dissolved	9.1 µg/L	50 µg/L	98-8000602003	EPA_6010
MW-7	21-Jul-98	Arsenic, dissolved	9.3 µg/L	50 µg/L	98-8004951003	EPA_6010
MW-7	17-Sep-97	Barium	25 µg/L	2000 µg/L	97-L23895-1A	EPA_6010
MW-7	17-Sep-97	Barium	25 µg/L	2000 µg/L	97-L23895-1	EPA_6010
MW-7	22-Jan-98	Barium, dissolved	160 µg/L	2000 µg/L	98-8000602003	EPA_6010
MW-7	21-Jul-98	Barium, dissolved	220 µg/L	2000 µg/L	98-8004951003	EPA_6010
MW-7	17-Sep-97	Chloride	8.9 mg/L	250 mg/L	97-L23895-1	EPA300.0
MW-7	22-Jan-98	Chloride	8.2 mg/L	250 mg/L	98-8000602003	EPA300.0
MW-7	21-Jul-98	Chloride	8.7 mg/L	250 mg/L	98-8004951003	EPA300.0
MW-7	17-Sep-97	Chloroform	2.1 µg/L	6 µg/L	97-L23895-1	EPA 8260
MW-7	17-Sep-97	Chloroform	2.1 µg/L	6 µg/L	97-L23895-1A	EPA_8260
MW-7	22-Jan-98	Chromium, dissolved	3.3 µg/L	100 µg/L	98-8000602003	EPA_6010
MW-7	21-Jul-98	Chromium, dissolved	3.1 µg/L	100 µg/L	98-8004951003	EPA_6010
MW-7	17-Sep-97	Colors & Sheens	0 NA	NA	97-L23895-1	UNK
MW-7	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602003	NA
MW-7	21-Jul-98	Colors & Sheens	0 NA	NA	98-8004951003	NA
MW-7	17-Sep-97	Conductivity	725 umhos/cm	NA	97-L23895-1	EPA_120_1
MW-7	22-Jan-98	Conductivity	700 umhos/cm	NA	98-8000602003	EPA_120_1
MW-7	21-Jul-98	Conductivity	540 umhos/cm	NA	98-8004951003	EPA_120_1
MW-7	22-Jan-98	Copper, dissolved	4.6 µg/L	1000 µg/L	98-8000602003	EPA_6010
MW-7	17-Sep-97	Dissolved oxygen	4.6 mg/L	NA	97-L23895-1	UNK
MW-7	22-Jan-98	Dissolved oxygen	5.4 mg/L	NA	98-8000602003	EPA_360_1
MW-7	21-Jul-98	Dissolved oxygen	6.8 mg/L	NA	98-8004951003	EPA_360_1
MW-7	22-Jan-98	Iron, dissolved	360 µg/L	300 µg/L	98-8000602003	EPA_6010
MW-7	21-Jul-98	Iron, dissolved	300 µg/L	300 µg/L	98-8004951003	EPA_6010
MW-7	17-Sep-97	Lead	6.6 µg/L	15 µg/L	97-L23895-1A	EPA_6010
MW-7	17-Sep-97	Lead	6.6 µg/L	15 µg/L	97-L23895-1	EPA_6010

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**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-7	21-Jul-98	Nitrogen, ammonia	0.07 mg/L	NA	98-8004951003	EPA_350_1
MW-7	17-Sep-97	pH	8 units	6.5-8.5	97-L23895-1	EPA_150_1
MW-7	22-Jan-98	pH	7.4 units	6.5-8.5	98-8000602003	EPA_150_1
MW-7	21-Jul-98	pH	7.1 units	6.5-8.5	98-8004951003	EPA_150_1
MW-7	22-Jan-98	Sodium, dissolved	140000 µg/L	160000 µg/L	98-8000602003	EPA_6010
MW-7	21-Jul-98	Sodium, dissolved	120000 µg/L	160000 µg/L	98-8004951003	EPA_6010
MW-7	17-Sep-97	Temperature	24.9 C	NA	97-L23895-1	EPA_170_1
MW-7	22-Jan-98	Temperature	22 C	NA	98-8000602003	EPA_170_1
MW-7	21-Jul-98	Temperature	25 C	NA	98-8004951003	EPA_170_1
MW-7	17-Sep-97	Total dissolved solids	500 mg/L	500 mg/L	97-L23895-1	EPA_160_1
MW-7	22-Jan-98	Total dissolved solids	420 mg/L	500 mg/L	98-8000602003	EPA_160_1
MW-7	21-Jul-98	Total dissolved solids	360 mg/L	500 mg/L	98-8004951003	EPA_160_1
MW-7	17-Sep-97	Turbidity	13.17 NTU	NA	97-L23895-1	UNK
MW-7	22-Jan-98	Turbidity	45 NTU	NA	98-8000602003	EPA_180_1
MW-7	21-Jul-98	Turbidity	38.3 NTU	NA	98-8004951003	EPA_180_1
MW-7	21-Jul-98	Turbidity, field filtered	9.5 NTU	NA	98-8004951003	EPA_180_1
MW-7	17-Sep-97	Vanadium	16 µg/L	49 µg/L	97-L23895-1	UNK
MW-7	17-Sep-97	Vanadium	16 µg/L	49 µg/L	97-L23895-1A	EPA_6010
MW-7	22-Jan-98	Vanadium, dissolved	14 µg/L	49 µg/L	98-8000602003	EPA_245_1
MW-7	21-Jul-98	Vanadium, dissolved	11 µg/L	49 µg/L	98-8004951003	EPA_245_1
MW-7	22-Jan-98	Zinc, dissolved	140 µg/L	5000 µg/L	98-8000602003	EPA_6010
MW-7	21-Jul-98	Zinc, dissolved	140 µg/L	5000 µg/L	98-8004951003	EPA_6010
MW-8R	17-Dec-97	1,4-Dichlorobenzene	11 µg/L	75 µg/L	97-76840002	EPA 8260
MW-8R	17-Dec-97	1,4-Dichlorobenzene	11 µg/L	75 µg/L	97-76840002	EPA 8260
MW-8R	17-Dec-97	1,4-Dichlorobenzene	11 µg/L	75 µg/L	97-76840002A	EPA_8270
MW-8R	17-Dec-97	1,4-Dichlorobenzene	11 µg/L	75 µg/L	97-76840002A	EPA_8270
MW-8R	20-Jan-98	1,4-Dichlorobenzene	12 µg/L	75 µg/L	98-8000480001	EPA 8260
MW-8R	20-Jan-98	1,4-Dichlorobenzene	12 µg/L	75 µg/L	98-8000480001	EPA 8260
MW-8R	20-Jul-98	1,4-Dichlorobenzene	12 µg/L	75 µg/L	98-8004891001	EPA 8260
MW-8R	20-Jul-98	1,4-Dichlorobenzene	12 µg/L	75 µg/L	98-8004891001	EPA 8260
MW-8R	17-Dec-97	Barium	24 µg/L	2000 µg/L	97-76840002A	EPA_6010
MW-8R	17-Dec-97	Barium	24 µg/L	2000 µg/L	97-76840002	EPA_6010
MW-8R	20-Jan-98	Barium	14 µg/L	2000 µg/L	98-8000480001	EPA_6010
MW-8R	20-Jul-98	Barium	36 µg/L	2000 µg/L	98-8004891001	EPA_6010
MW-8R	17-Dec-97	Benzene	3.5 µg/L	1 µg/L	97-76840002	EPA 8260
MW-8R	17-Dec-97	Benzene	3.5 µg/L	1 µg/L	97-76840002A	EPA_8260

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**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-8R	20-Jan-98	Benzene	4.1 µg/L	1 µg/L	98-8000480001	EPA 8260
MW-8R	20-Jan-98	Benzene	4.1 µg/L	1 µg/L	98-8000480001	EPA 8260
MW-8R	20-Jul-98	Benzene	4.2 µg/L	1 µg/L	98-8004891001	EPA 8260
MW-8R	20-Jul-98	Benzene	4.2 µg/L	1 µg/L	98-8004891001	EPA 8260
MW-8R	17-Dec-97	Chloride	8.8 mg/L	250	97-76840002	EPA300.0
MW-8R	20-Jan-98	Chloride	8.6 mg/L	250	98-8000480001	EPA300.0
MW-8R	20-Jul-98	Chloride	9.8 mg/L	250	98-8004891001	EPA300.0
MW-8R	17-Dec-97	Chlorobenzene	6.2 µg/L	100 µg/L	97-76840002	EPA 8260
MW-8R	20-Jan-98	Chlorobenzene	6.9 µg/L	100 µg/L	98-8000480001	EPA 8260
MW-8R	20-Jul-98	Chlorobenzene	7.5 µg/L	100 µg/L	98-8004891001	EPA 8260
MW-8R	17-Dec-97	cis-1,2-Dichloroethene	10 µg/L	70 µg/L	97-76840002A	EPA_8260
MW-8R	20-Jan-98	cis-1,2-Dichloroethene	12 µg/L	70 µg/L	98-8000480001	EPA 8260
MW-8R	20-Jul-98	cis-1,2-Dichloroethene	10 µg/L	70 µg/L	98-8004891001	EPA 8260
MW-8R	17-Dec-97	Colors & Sheens	0 NA	NA	97-76840002	UNK
MW-8R	20-Jan-98	Colors & Sheens	0 NA	NA	98-8000480001	NA
MW-8R	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891001	NA
MW-8R	17-Dec-97	Conductivity	250 umhos/cm	NA	97-76840002	EPA_120_1
MW-8R	20-Jan-98	Conductivity	180 umhos/cm	NA	98-8000480001	EPA_120_1
MW-8R	20-Jul-98	Conductivity	230 umhos/cm	NA	98-8004891001	EPA_120_1
MW-8R	17-Dec-97	Dissolved oxygen	3.7 mg/L	NA	97-76840002	UNK
MW-8R	20-Jan-98	Dissolved oxygen	2.1 mg/L	NA	98-8000480001	EPA_360_1
MW-8R	20-Jul-98	Dissolved oxygen	3.8 mg/L	NA	98-8004891001	EPA_360_1
MW-8R	20-Jan-98	Iron	270 µg/L	300 µg/L	98-8000480001	EPA_6010
MW-8R	20-Jul-98	Iron	1100 µg/L	300 µg/L	98-8004891001	EPA_6010
MW-8R	20-Jan-98	Nickel	5.6 µg/L	100 µg/L	98-8000480001	EPA_6010
MW-8R	17-Dec-97	Nitrogen, ammonia	1.1 mg/L	NA	97-76840002	EPA_350_1
MW-8R	20-Jan-98	Nitrogen, ammonia	1.2 mg/L	NA	98-8000480001	EPA_350_1
MW-8R	20-Jul-98	Nitrogen, ammonia	1.6 mg/L	NA	98-8004891001	EPA_350_1
MW-8R	17-Dec-97	Nitrogen, nitrate	0.076 mg/L	10 mg/L	97-76840002	EPA_300.0
MW-8R	17-Dec-97	pH	4.8 units	6.5-8.5	97-76840002	EPA_150_1
MW-8R	20-Jan-98	pH	6.1 units	6.5-8.5	98-8000480001	EPA_150_1
MW-8R	20-Jul-98	pH	5.4 units	6.5-8.5	98-8004891001	EPA_150_1
MW-8R	20-Jan-98	Sodium	19000 µg/L	160000 µg/L	98-8000480001	EPA_6010
MW-8R	20-Jul-98	Sodium	17000 µg/L	160000 µg/L	98-8004891001	EPA_6010
MW-8R	17-Dec-97	Temperature	23 C	NA	97-76840002	EPA_170_1
MW-8R	20-Jan-98	Temperature	21 C	NA	98-8000480001	EPA_170_1

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values

Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-8R	20-Jul-98	Temperature	25 C	NA	98-8004891001	EPA_170_1
MW-8R	17-Dec-97	Total dissolved solids	1700 mg/L	500 mg/L	97-76840002	EPA_160_1
MW-8R	20-Jan-98	Total dissolved solids	99 mg/L	500 mg/L	98-8000480001	EPA_160_1
MW-8R	20-Jul-98	Total dissolved solids	110 mg/L	500 mg/L	98-8004891001	EPA_160_1
MW-8R	17-Dec-97	Turbidity	5 NTU	NA	97-76840002	EPA_180_1
MW-8R	20-Jan-98	Turbidity	1.3 NTU	NA	98-8000480001	EPA_180_1
MW-8R	20-Jul-98	Turbidity	1.3 NTU	NA	98-8004891001	EPA_180_1
MW-8R	17-Dec-97	Vinyl chloride	2.7 µg/L	1 µg/L	97-76840002A	EPA_8260
MW-8R	17-Dec-97	Vinyl chloride	2.7 µg/L	1 µg/L	97-76840002	EPA_8260
MW-8R	17-Dec-97	Vinyl chloride	2.7 µg/L	1 µg/L	97-76840002A	EPA_8260
MW-8R	20-Jan-98	Vinyl chloride	4.2 µg/L	1 µg/L	98-8000480001	EPA_8260
MW-8R	20-Jul-98	Vinyl chloride	10 µg/L	1 µg/L	98-8004891001	EPA_8260
MW-8R	20-Jul-98	Vinyl chloride	10 µg/L	1 µg/L	98-8004891001	EPA_8260
MW-8R	17-Dec-97	Xylenes, total	4.8 µg/L	10000 µg/L	97-76840002	EPA_8260
MW-8R	17-Dec-97	Xylenes, total	4.8 µg/L	10000 µg/L	97-76840002	EPA_8260
MW-8R	17-Dec-97	Xylenes, total	4.8 µg/L	10000 µg/L	97-76840002A	EPA_8260
MW-8R	17-Dec-97	Xylenes, total	4.8 µg/L	10000 µg/L	97-76840002A	EPA_8260
MW-8R	20-Jan-98	Xylenes, total	7.8 µg/L	10000 µg/L	98-8000480001	EPA_8260
MW-8R	20-Jan-98	Xylenes, total	7.8 µg/L	10000 µg/L	98-8000480001	EPA_8260
MW-9	17-Sep-97	1,4-Dichlorobenzene	4.2 µg/L	75 µg/L	97-L23895-3A	EPA_8270
MW-9	17-Sep-97	1,4-Dichlorobenzene	4.2 µg/L	75 µg/L	97-L23895-3A	EPA_8270
MW-9	17-Sep-97	1,4-Dichlorobenzene	5.2 µg/L	75 µg/L	97-L23895-3	EPA_8260
MW-9	17-Sep-97	1,4-Dichlorobenzene	5.2 µg/L	75 µg/L	97-L23895-3	EPA_8260
MW-9	20-Jan-98	1,4-Dichlorobenzene	6 µg/L	75 µg/L	98-8000480004	EPA_8260
MW-9	20-Jan-98	1,4-Dichlorobenzene	6 µg/L	75 µg/L	98-8000480004	EPA_8260
MW-9	20-Jul-98	1,4-Dichlorobenzene	5.9 µg/L	75 µg/L	98-8004891004	EPA_8260
MW-9	20-Jul-98	1,4-Dichlorobenzene	5.9 µg/L	75 µg/L	98-8004891004	EPA_8260
MW-9	20-Jan-98	Arsenic	11 µg/L	50 µg/L	98-8000480004	EPA_6010
MW-9	20-Jan-98	Arsenic	11 µg/L	50 µg/L	98-8000480004	EPA_6010
MW-9	20-Jul-98	Arsenic	12 µg/L	50 µg/L	98-8004891004	EPA_6010
MW-9	20-Jul-98	Arsenic	12 µg/L	50 µg/L	98-8004891004	EPA_6010
MW-9	17-Sep-97	Barium	98 µg/L	2000 µg/L	97-L23895-3	EPA_6010
MW-9	17-Sep-97	Barium	98 µg/L	2000 µg/L	97-L23895-3A	EPA_6010
MW-9	20-Jan-98	Barium	120 µg/L	2000 µg/L	98-8000480004	EPA_6010
MW-9	20-Jul-98	Barium	120 µg/L	2000 µg/L	98-8004891004	EPA_6010
MW-9	17-Sep-97	Benzene	1.2 µg/L	1 µg/L	97-L23895-3A	EPA_8260

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values
Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-9	17-Sep-97	Benzene	1.2 µg/L	1 µg/L	97-L23895-3	EPA 8260
MW-9	17-Sep-97	Chloride	18 mg/L	250 mg/L	97-L23895-3	EPA300.0
MW-9	20-Jan-98	Chloride	15 mg/L	250 mg/L	98-8000480004	EPA300.0
MW-9	20-Jul-98	Chloride	16 mg/L	250 mg/L	98-8004891004	EPA300.0
MW-9	17-Sep-97	Chlorobenzene	1.3 µg/L	100 µg/L	97-L23895-3	EPA 8260
MW-9	17-Sep-97	Chlorobenzene	1.3 µg/L	100 µg/L	97-L23895-3A	EPA_8260
MW-9	20-Jan-98	Chlorobenzene	2.3 µg/L	100 µg/L	98-8000480004	EPA 8260
MW-9	20-Jul-98	Chlorobenzene	2.2 µg/L	100 µg/L	98-8004891004	EPA 8260
MW-9	17-Sep-97	cis-1,2-Dichloroethene	1.9 µg/L	70 µg/L	97-L23895-3A	EPA_8260
MW-9	20-Jan-98	Cobalt	9.7 µg/L	NA	98-8000480004	EPA_6010
MW-9	20-Jul-98	Cobalt	10 µg/L	NA	98-8004891004	EPA_6010
MW-9	17-Sep-97	Colors & Sheens	0 NA	NA	97-L23895-3	UNK
MW-9	20-Jan-98	Colors & Sheens	0 NA	NA	98-8000480004	NA
MW-9	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891004	NA
MW-9	17-Sep-97	Conductivity	850 umhos/cm	NA	97-L23895-3	EPA_120_1
MW-9	20-Jan-98	Conductivity	800 umhos/cm	NA	98-8000480004	EPA_120_1
MW-9	20-Jul-98	Conductivity	720 umhos/cm	NA	98-8004891004	EPA_120_1
MW-9	17-Sep-97	Dissolved oxygen	2.4 mg/L	NA	97-L23895-3	UNK
MW-9	20-Jan-98	Dissolved oxygen	1.1 mg/L	NA	98-8000480004	EPA_360_1
MW-9	20-Jul-98	Dissolved oxygen	2.4 mg/L	NA	98-8004891004	EPA_360_1
MW-9	20-Jan-98	Iron	1000 µg/L	300 µg/L	98-8000480004	EPA_6010
MW-9	20-Jul-98	Iron	12000 µg/L	300 µg/L	98-8004891004	EPA_6010
MW-9	17-Sep-97	Nickel	8.2 µg/L	100 µg/L	97-L23895-3	EPA_6010
MW-9	17-Sep-97	Nickel	8.2 µg/L	100 µg/L	97-L23895-3A	EPA_6010
MW-9	20-Jan-98	Nickel	16 µg/L	100 µg/L	98-8000480004	EPA_6010
MW-9	20-Jul-98	Nickel	13 µg/L	100 µg/L	98-8004891004	EPA_6010
MW-9	17-Sep-97	Nitrogen, ammonia	1.3 mg/L	NA	97-L23895-3	EPA_350_1
MW-9	20-Jan-98	Nitrogen, ammonia	2.3 mg/L	NA	98-8000480004	EPA_350_1
MW-9	20-Jul-98	Nitrogen, ammonia	28 mg/L	NA	98-8004891004	EPA_350_1
MW-9	17-Sep-97	pH	6.6 units	6.5-8.5	97-L23895-3	EPA_150_1
MW-9	20-Jan-98	pH	7 units	6.5-8.5	98-8000480004	EPA_150_1
MW-9	20-Jul-98	pH	6.3 units	6.5-8.5	98-8004891004	EPA_150_1
MW-9	20-Jan-98	Sodium	12000 µg/L	160000 µg/L	98-8000480004	EPA_6010
MW-9	20-Jul-98	Sodium	10000 µg/L	160000 µg/L	98-8004891004	EPA_6010
MW-9	17-Sep-97	Temperature	27.5 C	NA	97-L23895-3	EPA_170_1
MW-9	20-Jan-98	Temperature	24 C	NA	98-8000480004	EPA_170_1

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-9	20-Jul-98	Temperature	27 C	NA	98-8004891004	EPA_170_1
MW-9	17-Sep-97	Total dissolved solids	520 mg/L	500 mg/L	97-L23895-3	EPA_160_1
MW-9	20-Jan-98	Total dissolved solids	450 mg/L	500 mg/L	98-8000480004	EPA_160_1
MW-9	20-Jul-98	Total dissolved solids	460 mg/L	500 mg/L	98-8004891004	EPA_160_1
MW-9	17-Sep-97	Turbidity	1.71 NTU	NA	97-L23895-3	UNK
MW-9	20-Jan-98	Turbidity	3.1 NTU	NA	98-8000480004	EPA_180_1
MW-9	20-Jul-98	Turbidity	1.8 NTU	NA	98-8004891004	EPA_180_1
MW-9	17-Sep-97	Vinyl chloride	3.5 µg/L	1 µg/L	97-L23895-3	EPA 8260
MW-9	17-Sep-97	Vinyl chloride	3.5 µg/L	1 µg/L	97-L23895-3A	EPA_8260
MW-9	17-Sep-97	Vinyl chloride	3.5 µg/L	1 µg/L	97-L23895-3A	EPA_8260
MW-9	20-Jan-98	Vinyl chloride	2.6 µg/L	1 µg/L	98-8000480004	EPA 8260
MW-9	20-Jul-98	Vinyl chloride	3.3 µg/L	1 µg/L	98-8004891004	EPA 8260
MW-9	17-Sep-97	Zinc	11 µg/L	5000 µg/L	97-L23895-3A	EPA_6010
MW-9	17-Sep-97	Zinc	11 µg/L	5000 µg/L	97-L23895-3	UNK
MW-AA	15-Jan-97	1,4-Dichlorobenzene	10 µg/L	75 µg/L	97-01-191-01A	EPA 8260
MW-AA	15-Jan-97	1,4-Dichlorobenzene	10 µg/L	75 µg/L	97-01-191-01A	EPA 8260
MW-AA	21-Jul-97	1,4-Dichlorobenzene	6.7 µg/L	75 µg/L	97-L31898-1	EPA 8260
MW-AA	21-Jul-97	1,4-Dichlorobenzene	6.7 µg/L	75 µg/L	97-L31898-1	EPA 8260
MW-AA	20-Jan-98	1,4-Dichlorobenzene	8.7 µg/L	75 µg/L	98-8000480003	EPA 8260
MW-AA	20-Jan-98	1,4-Dichlorobenzene	8.7 µg/L	75 µg/L	98-8000480003	EPA 8260
MW-AA	20-Jul-98	1,4-Dichlorobenzene	7.6 µg/L	75 µg/L	98-8004891002	EPA 8260
MW-AA	20-Jul-98	1,4-Dichlorobenzene	7.6 µg/L	75 µg/L	98-8004891002	EPA 8260
MW-AA	20-Jan-98	Barium	36 µg/L	2000 µg/L	98-8000480003	EPA_6010
MW-AA	15-Jan-97	Barium, dissolved	34 µg/L	2000 µg/L	97-01-191-01A	EPA_6010
MW-AA	21-Jul-97	Barium, dissolved	35 µg/L	2000 µg/L	97-L31898-1	EPA_6010
MW-AA	20-Jul-98	Barium, dissolved	200 µg/L	2000 µg/L	98-8004891002	EPA_6010
MW-AA	21-Jul-97	Benzene	1.4 µg/L	1 µg/L	97-L31898-1	EPA 8260
MW-AA	15-Jan-97	Chloride	7.8 mg/L	250 mg/L	97-01-191-01A	EPA_325_2
MW-AA	21-Jul-97	Chloride	5.2 mg/L	250 mg/L	97-L31898-1	EPA300.0
MW-AA	20-Jan-98	Chloride	3.2 mg/L	250 mg/L	98-8000480003	EPA300.0
MW-AA	20-Jul-98	Chloride	7.5 MG/L		98-8004891002	EPA300.0
MW-AA	20-Jan-98	Chlorobenzene	1.3 µg/L	100 µg/L	98-8000480003	EPA 8260
MW-AA	20-Jan-98	Chromium	2.2 µg/L	100 µg/L	98-8000480003	EPA_6010
MW-AA	20-Jan-98	Chromium	2.2 µg/L	100 µg/L	98-8000480003	EPA_6010
MW-AA	15-Jan-97	cis-1,2-Dichloroethene	4 µg/L	70 µg/L	97-01-191-01A	EPA 8260
MW-AA	21-Jul-97	cis-1,2-Dichloroethene	3.5 µg/L	70 µg/L	97-L31898-1	EPA 8260

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-AA	20-Jul-98	cis-1,2-Dichloroethene	2.7 µg/L	70 µg/L	98-8004891002	EPA 8260
MW-AA	20-Jan-98	Cobalt	22 µg/L	NA	98-8000480003	EPA_6010
MW-AA	15-Jan-97	Cobalt, dissolved	25 µg/L	NA	97-01-191-01A	EPA_6010
MW-AA	21-Jul-97	Cobalt, dissolved	23 µg/L	NA	97-L31898-1	EPA_6010
MW-AA	20-Jul-98	Cobalt, dissolved	22 µg/L	NA	98-8004891002	EPA_6010
MW-AA	21-Jul-97	Colors & Sheens	0 NA	NA	97-L31898-1	NA
MW-AA	20-Jan-98	Colors & Sheens	0 NA	NA	98-8000480003	NA
MW-AA	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891002	NA
MW-AA	15-Jan-97	Conductivity	750 umhos/cm	NA	97-01-191-01A	EPA_120_2
MW-AA	21-Jul-97	Conductivity	430 umhos/cm	NA	97-L31898-1	EPA_120_1
MW-AA	20-Jan-98	Conductivity	760 umhos/cm	NA	98-8000480003	EPA_120_1
MW-AA	20-Jul-98	Conductivity	680 umhos/cm	NA	98-8004891002	EPA_120_1
MW-AA	15-Jan-97	Dissolved oxygen	2.3 mg/L	NA	97-01-191-01A	EPA_360_1
MW-AA	21-Jul-97	Dissolved oxygen	2.2 mg/L	NA	97-L31898-1	EPA_360_1
MW-AA	20-Jan-98	Dissolved oxygen	1.8 mg/L	NA	98-8000480003	EPA_360_1
MW-AA	20-Jul-98	Dissolved oxygen	4 mg/L	NA	98-8004891002	EPA_360_1
MW-AA	20-Jan-98	Iron	14000 µg/L	300 µg/L	98-8000480003	EPA_6010
MW-AA	15-Jan-97	Iron, dissolved	12000 µg/L	300 µg/L	97-01-191-01A	EPA_6010
MW-AA	21-Jul-97	Iron, dissolved	14000 µg/L	300 µg/L	97-L31898-1	EPA_6010
MW-AA	20-Jul-98	Iron, dissolved	13000 µg/L	300 µg/L	98-8004891002	EPA_6010
MW-AA	15-Jan-97	Nickel	17 µg/L	100 µg/L	97-01-191-01A	EPA_6010
MW-AA	20-Jan-98	Nickel	18 µg/L	100 µg/L	98-8000480003	EPA_6010
MW-AA	21-Jul-97	Nickel, dissolved	16 µg/L	100 µg/L	97-L31898-1	EPA_6010
MW-AA	20-Jul-98	Nickel, dissolved	18 µg/L	100 µg/L	98-8004891002	EPA_6010
MW-AA	15-Jan-97	Nitrogen, ammonia	0.51 mg/L	NA	97-01-191-01A	EPA_350_1
MW-AA	21-Jul-97	Nitrogen, ammonia	0.75 mg/L	NA	97-L31898-1	EPA_350_1
MW-AA	20-Jan-98	Nitrogen, ammonia	0.05 mg/L	NA	98-8000480003	EPA_350_1
MW-AA	20-Jul-98	Nitrogen, ammonia	0.77 mg/L	NA	98-8004891002	EPA_350_1
MW-AA	15-Jan-97	Nitrogen, nitrate	0.17 mg/L	10	97-01-191-01A	EPA_353_2
MW-AA	15-Jan-97	pH	6.38 units	6.5-8.5	97-01-191-01A	EPA_150_1
MW-AA	21-Jul-97	pH	6.3 units	6.5-8.5	97-L31898-1	EPA_150_1
MW-AA	20-Jan-98	pH	7 units	6.5-8.5	98-8000480003	EPA_150_1
MW-AA	20-Jul-98	pH	6.1 units	6.5-8.5	98-8004891002	EPA_150_1
MW-AA	20-Jan-98	Sodium	5500 µg/L	160000 µg/L	98-8000480003	EPA_6010
MW-AA	15-Jan-97	Sodium, dissolved	7000 µg/L	160000 µg/L	97-01-191-01A	EPA_6010
MW-AA	21-Jul-97	Sodium, dissolved	6600 µg/L	160000 µg/L	97-L31898-1	EPA_6010

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-AA	20-Jul-98	Sodium, dissolved	12000 µg/L	160000 µg/L	98-8004891002	EPA_6010
MW-AA	15-Jan-97	Temperature	24.1 C	NA	97-01-191-01A	EPA_170_1
MW-AA	21-Jul-97	Temperature	27.2 C	NA	97-L31898-1	EPA_170_1
MW-AA	20-Jan-98	Temperature	22 C	NA	98-8000480003	EPA_170_1
MW-AA	20-Jul-98	Temperature	26 C	NA	98-8004891002	EPA_170_1
MW-AA	15-Jan-97	Total dissolved solids	434 mg/L	500 mg/L	97-01-191-01A	EPA_160_1
MW-AA	21-Jul-97	Total dissolved solids	700 mg/L	500 mg/L	97-L31898-1	EPA_160_1
MW-AA	20-Jan-98	Total dissolved solids	430 mg/L	500 mg/L	98-8000480003	EPA_160_1
MW-AA	20-Jul-98	Total dissolved solids	430 mg/L	500 mg/L	98-8004891002	EPA_160_1
MW-AA	21-Jul-97	Turbidity	4.06 NTU	NA	97-L31898-1	EPA_180_1
MW-AA	20-Jan-98	Turbidity	4.5 NTU	NA	98-8000480003	EPA_180_1
MW-AA	20-Jul-98	Turbidity	11.93 NTU	NA	98-8004891002	EPA_180_1
MW-AA	21-Jul-97	Turbidity, field filtered	0.23 NTU	NA	97-L31898-1	EPA_180_1
MW-AA	20-Jul-98	Turbidity, field filtered	1.4 NTU	NA	98-8004891002	EPA_180_1
MW-AA	15-Jan-97	Vinyl chloride	4 µg/L	1 µg/L	97-01-191-01A	EPA 8260
MW-AA	15-Jan-97	Vinyl chloride	4 µg/L	1 µg/L	97-01-191-01A	EPA 8260
MW-AA	21-Jul-97	Vinyl chloride	3.6 µg/L	1 µg/L	97-L31898-1	EPA 8260
MW-AA	21-Jul-97	Vinyl chloride	3.6 µg/L	1 µg/L	97-L31898-1	EPA 8260
MW-AA	20-Jan-98	Vinyl chloride	3.1 µg/L	1 µg/L	98-8000480003	EPA 8260
MW-AA	20-Jul-98	Vinyl chloride	7.8 µg/L	1 µg/L	98-8004891002	EPA 8260
MW-AA	21-Jul-97	Zinc, dissolved	17 µg/L	5000 µg/L	97-L31898-1	EPA_6010
MW-AA	20-Jul-98	Zinc, dissolved	63 µg/L	5000 µg/L	98-8004891002	EPA_6010
MW-B	22-Jan-98	Barium	190 µg/L	2000 µg/L	98-8000602006	EPA_6010
MW-B	17-Jul-97	Barium, dissolved	480 µg/L	2000 µg/L	97-L21767-4	EPA_6010
MW-B	17-Jan-97	Chloride	4.5 mg/L	250 mg/L	97-01-221-04A	EPA_325_2
MW-B	17-Jul-97	Chloride	8.3 mg/L	250 mg/L	97-L21767-5FD	EPA300.0
MW-B	17-Jul-97	Chloride	7.7 mg/L	250 mg/L	97-L21767-4	EPA300.0
MW-B	22-Jul-98	Chloride	9.5 mg/L	250 mg/L	98-8005056001	EPA300.0
MW-B	17-Jul-97	Colors & Sheens	0 NA	NA	97-L21767-5FD	NA
MW-B	17-Jul-97	Colors & Sheens	0 NA	NA	97-L21767-4	NA
MW-B	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602006	NA
MW-B	22-Jul-98	Colors & Sheens	0 NA	NA	98-8005056001	NA
MW-B	17-Jan-97	Conductivity	58 umhos/cm	NA	97-01-221-04A	EPA_120_2
MW-B	17-Jul-97	Conductivity	90 umhos/cm	NA	97-L21767-4	EPA_120_1
MW-B	17-Jul-97	Conductivity	70 umhos/cm	NA	97-L21767-5FD	EPA_120_1
MW-B	22-Jan-98	Conductivity	80 umhos/cm	NA	98-8000602006	EPA_120_1

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values

Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-B	22-Jul-98	Conductivity	70 umhos/cm	NA	98-8005056001	EPA_120_1
MW-B	22-Jan-98	Copper	11 µg/L	1000 µg/L	98-8000602006	EPA_6010
MW-B	22-Jul-98	Copper	16 µg/L	1000 µg/L	98-8005056001	EPA_6010
MW-B	17-Jan-97	Dissolved oxygen	4.5 mg/L	NA	97-01-221-04A	EPA_360_1
MW-B	17-Jul-97	Dissolved oxygen	3.4 mg/L	NA	97-L21767-5FD	EPA_360_1
MW-B	17-Jul-97	Dissolved oxygen	3.8 mg/L	NA	97-L21767-4	EPA_360_1
MW-B	22-Jan-98	Dissolved oxygen	3.1 mg/L	NA	98-8000602006	EPA_360_1
MW-B	22-Jul-98	Dissolved oxygen	1.5 mg/L	NA	98-8005056001	EPA_360_1
MW-B	22-Jan-98	Iron	54 µg/L	300 µg/L	98-8000602006	EPA_6010
MW-B	22-Jul-98	Iron	130 µg/L	300 µg/L	98-8005056001	EPA_6010
MW-B	17-Jan-97	Iron, dissolved	100 µg/L	300 µg/L	97-01-221-04A	EPA_6010
MW-B	17-Jul-97	Iron, dissolved	100 µg/L	300 µg/L	97-L21767-5FD	EPA_6010
MW-B	17-Jul-97	Iron, dissolved	220 µg/L	300 µg/L	97-L21767-4	EPA_6010
MW-B	17-Jan-97	Mercury	0.29 µg/L	2 µg/L	97-01-221-04A	EPA_7470
MW-B	17-Jan-97	Mercury	0.29 µg/L	2 µg/L	97-01-221-04A	EPA_7470
MW-B	22-Jan-98	Nickel	5.9 µg/L	100 µg/L	98-8000602006	EPA_6010
MW-B	17-Jan-97	Nitrogen, ammonia	0.01 mg/L	NA	97-01-221-04A	EPA_350_1
MW-B	22-Jul-98	Nitrogen, ammonia	0.2 mg/L	NA	98-8005056001	EPA_350_1
MW-B	17-Jan-97	Nitrogen, nitrate	1.98 mg/L	10 mg/L	97-01-221-04A	EPA_353_2
MW-B	17-Jul-97	Nitrogen, nitrate	2.5 mg/L	10 mg/L	97-L21767-5FD	EPA300.0
MW-B	17-Jul-97	Nitrogen, nitrate	2.6 mg/L	10 mg/L	97-L21767-4	EPA300.0
MW-B	22-Jul-98	Nitrogen, nitrate	2.5 mg/L	10 mg/L	98-8005056001	EPA300.0
MW-B	17-Jan-97	pH	5.29 units	6.5-8.5	97-01-221-04A	EPA_150_1
MW-B	17-Jul-97	pH	5.3 units	6.5-8.5	97-L21767-4	EPA_150_1
MW-B	17-Jul-97	pH	4.8 units	6.5-8.5	97-L21767-5FD	EPA_150_1
MW-B	22-Jan-98	pH	4.9 units	6.5-8.5	98-8000602006	EPA_150_1
MW-B	22-Jul-98	pH	4.9 units	6.5-8.5	98-8005056001	EPA_150_1
MW-B	22-Jan-98	Sodium	11000 µg/L	160000 µg/L	98-8000602006	EPA_6010
MW-B	22-Jul-98	Sodium	6800 µg/L	160000 µg/L	98-8005056001	EPA_6010
MW-B	17-Jan-97	Sodium, dissolved	7000 µg/L	160000 µg/L	97-01-221-04A	EPA_6010
MW-B	17-Jul-97	Sodium, dissolved	9300 µg/L	160000 µg/L	97-L21767-5FD	EPA_6010
MW-B	17-Jul-97	Sodium, dissolved	9500 µg/L	160000 µg/L	97-L21767-4	EPA_6010
MW-B	17-Jan-97	Temperature	17.8 C	NA	97-01-221-04A	EPA_170_1
MW-B	17-Jul-97	Temperature	30.2 C	NA	97-L21767-4	EPA_170_1
MW-B	17-Jul-97	Temperature	28.2 C	NA	97-L21767-5FD	EPA_170_1
MW-B	22-Jan-98	Temperature	24 C	NA	98-8000602006	EPA_170_1

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-B	22-Jul-98	Temperature	25 C	NA	98-8005056001	EPA_170_1
MW-B	17-Jul-97	Tetrachloroethene	1.1 µg/L	3 µg/L	97-L21767-4	EPA 8260
MW-B	17-Jul-97	Tetrachloroethene	1.1 µg/L	3 µg/L	97-L21767-4	EPA 8260
MW-B	17-Jan-97	Total dissolved solids	156 mg/L	500 mg/L	97-01-221-04A	EPA_160_1
MW-B	17-Jul-97	Total dissolved solids	40 mg/L	500 mg/L	97-L21767-4	EPA_160_1
MW-B	17-Jul-97	Total dissolved solids	42 mg/L	500 mg/L	97-L21767-5FD	EPA_160_1
MW-B	22-Jan-98	Total dissolved solids	16 mg/L	500 mg/L	98-8000602006	EPA_160_1
MW-B	22-Jul-98	Total dissolved solids	62 mg/L	500 mg/L	98-8005056001	EPA_160_1
MW-B	17-Jul-97	Turbidity	3.83 NTU	NA	97-L21767-4	EPA_180_1
MW-B	17-Jul-97	Turbidity	2.15 NTU	NA	97-L21767-5FD	EPA_180_1
MW-B	22-Jan-98	Turbidity	11 NTU	NA	98-8000602006	EPA_180_1
MW-B	22-Jul-98	Turbidity	1.5 NTU	NA	98-8005056001	EPA_180_1
MW-B	17-Jul-97	Turbidity, field filtered	0 NTU	NA	97-L21767-5FD	EPA_180_1
MW-B	17-Jul-97	Turbidity, field filtered	0 NTU	NA	97-L21767-4	EPA_180_1
MW-B	17-Jan-97	Zinc	1700 µg/L	5000 µg/L	97-01-221-04A	EPA_6010
MW-B	22-Jan-98	Zinc	290 µg/L	5000 µg/L	98-8000602006	EPA_6010
MW-B	22-Jul-98	Zinc	220 µg/L	5000 µg/L	98-8005056001	EPA_6010
MW-B	17-Jul-97	Zinc, dissolved	500 µg/L	5000 µg/L	97-L21767-4	EPA_6010
MW-B	17-Jul-97	Zinc, dissolved	400 µg/L	5000 µg/L	97-L21767-5FD	EPA_6010
MW-C	17-Jul-97	Barium, dissolved	450 µg/L	2000 µg/L	97-L21767-6	EPA_6010
MW-C	22-Jan-98	Barium, dissolved	200 µg/L	2000 µg/L	98-8000602008	EPA_6010
MW-C	15-Jan-97	Chloride	3.8 mg/L	250 mg/L	97-01-191-02A	EPA_325_2
MW-C	15-Jan-97	Chloride	3.9 mg/L	250 mg/L	97-01-191-03AFD	EPA_325_2
MW-C	17-Jul-97	Chloride	7.3 mg/L	250 mg/L	97-L21767-6	EPA300.0
MW-C	22-Jan-98	Chloride	4.3 mg/L	250 mg/L	98-8000602008	EPA300.0
MW-C	22-Jul-98	Chloride	7.6 mg/L	250 mg/L	98-8005056002	EPA300.0
MW-C	15-Jan-97	cis-1,2-Dichloroethene	3 µg/L	70 µg/L	97-01-191-02A	EPA 8260
MW-C	17-Jul-97	Colors & Sheens	0 NA	NA	97-L21767-6	NA
MW-C	22-Jan-98	Colors & Sheens	0 NA	NA	98-8000602008	NA
MW-C	22-Jul-98	Colors & Sheens	0 NA	NA	98-8005056002	NA
MW-C	15-Jan-97	Conductivity	191 umhos/cm	NA	97-01-191-02A	EPA_120_2
MW-C	15-Jan-97	Conductivity	195 umhos/cm	NA	97-01-191-03AFD	EPA_120_2
MW-C	17-Jul-97	Conductivity	170 umhos/cm	NA	97-L21767-6	EPA_120_1
MW-C	22-Jan-98	Conductivity	220 umhos/cm	NA	98-8000602008	EPA_120_1
MW-C	22-Jul-98	Conductivity	220 umhos/cm	NA	98-8005056002	EPA_120_1
MW-C	15-Jan-97	Copper	17 µg/L	1000 µg/L	97-01-191-02A	EPA_6010

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-C	15-Jan-97	Copper	10 µg/L	1000 µg/L	97-01-191-03AFD	EPA_6010
MW-C	15-Jan-97	Dissolved oxygen	6 mg/L	NA	97-01-191-02A	EPA_360_1
MW-C	15-Jan-97	Dissolved oxygen	7.8 mg/L	NA	97-01-191-03AFD	EPA_360_1
MW-C	17-Jul-97	Dissolved oxygen	5 mg/L	NA	97-L21767-6	EPA_360_1
MW-C	22-Jan-98	Dissolved oxygen	3.8 mg/L	NA	98-8000602008	EPA_360_1
MW-C	22-Jul-98	Dissolved oxygen	6.5 mg/L	NA	98-8005056002	EPA_360_1
MW-C	22-Jul-98	Iron	780 µg/L	300 µg/L	98-8005056002	EPA_6010
MW-C	15-Jan-97	Iron, dissolved	330 µg/L	300 µg/L	97-01-191-02A	EPA_6010
MW-C	15-Jan-97	Iron, dissolved	410 µg/L	300 µg/L	97-01-191-03AFD	EPA_6010
MW-C	17-Jul-97	Iron, dissolved	390 µg/L	300 µg/L	97-L21767-6	EPA_6010
MW-C	22-Jan-98	Iron, dissolved	43 µg/L	300 µg/L	98-8000602008	EPA_6010
MW-C	15-Jan-97	Nitrogen, ammonia	0.08 mg/L	NA	97-01-191-02A	EPA_350_1
MW-C	15-Jan-97	Nitrogen, ammonia	0.09 mg/L	NA	97-01-191-03AFD	EPA_350_1
MW-C	22-Jul-98	Nitrogen, ammonia	0.17 mg/L	NA	98-8005056002	EPA_350_1
MW-C	15-Jan-97	Nitrogen, nitrate	0.03 mg/L	10 mg/L	97-01-191-02A	EPA_353_2
MW-C	15-Jan-97	Nitrogen, nitrate	0.07 mg/L	10 mg/L	97-01-191-03AFD	EPA_353_2
MW-C	22-Jul-98	Nitrogen, nitrate	0.05 mg/L	10 mg/L	98-8005056002	EPA300.0
MW-C	15-Jan-97	pH	7.69 units	6.5-8.5	97-01-191-02A	EPA_150_1
MW-C	15-Jan-97	pH	7.88 units	6.5-8.5	97-01-191-03AFD	EPA_150_1
MW-C	17-Jul-97	pH	7.5 units	6.5-8.5	97-L21767-6	EPA_150_1
MW-C	22-Jan-98	pH	7.6 units	6.5-8.5	98-8000602008	EPA_150_1
MW-C	22-Jul-98	pH	7.4 units	6.5-8.5	98-8005056002	EPA_150_1
MW-C	22-Jul-98	Sodium	2200 µg/L	160000 µg/L	98-8005056002	EPA_6010
MW-C	15-Jan-97	Sodium, dissolved	2300 µg/L	160000 µg/L	97-01-191-02A	EPA_6010
MW-C	15-Jan-97	Sodium, dissolved	2500 µg/L	160000 µg/L	97-01-191-03AFD	EPA_6010
MW-C	17-Jul-97	Sodium, dissolved	4400 µg/L	160000 µg/L	97-L21767-6	EPA_6010
MW-C	22-Jan-98	Sodium, dissolved	8800 µg/L	160000 µg/L	98-8000602008	EPA_6010
MW-C	15-Jan-97	Temperature	20.8 C	NA	97-01-191-02A	EPA_170_1
MW-C	15-Jan-97	Temperature	22.6 C	NA	97-01-191-03AFD	EPA_170_1
MW-C	17-Jul-97	Temperature	25.1 C	NA	97-L21767-6	EPA_170_1
MW-C	22-Jan-98	Temperature	24 C	NA	98-8000602008	EPA_170_1
MW-C	22-Jul-98	Temperature	24 C	NA	98-8005056002	EPA_170_1
MW-C	15-Jan-97	Total dissolved solids	154 mg/L	500 mg/L	97-01-191-02A	EPA_160_1
MW-C	15-Jan-97	Total dissolved solids	154 mg/L	500 mg/L	97-01-191-03AFD	EPA_160_1
MW-C	17-Jul-97	Total dissolved solids	110 mg/L	500 mg/L	97-L21767-6	EPA_160_1
MW-C	22-Jan-98	Total dissolved solids	40 mg/L	500 mg/L	98-8000602008	EPA_160_1

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-C	22-Jul-98	Total dissolved solids	120 mg/L	500 mg/L	98-8005056002	EPA_160_1
MW-C	17-Jul-97	Turbidity	4.49 NTU	NA	97-L21767-6	EPA_180_1
MW-C	22-Jan-98	Turbidity	24 NTU	NA	98-8000602008	EPA_180_1
MW-C	22-Jul-98	Turbidity	3.2 NTU	NA	98-8005056002	EPA_180_1
MW-C	17-Jul-97	Turbidity, field filtered	0 NTU	NA	97-L21767-6	EPA_180_1
MW-C	17-Jul-97	Zinc, dissolved	210 µg/L	5000 µg/L	97-L21767-6	EPA_6010
MW-C	22-Jan-98	Zinc, dissolved	70 µg/L	5000 µg/L	98-8000602008	EPA_6010
MW-D	15-Jan-97	Barium, dissolved	11 µg/L	2000 µg/L	97-01-191-04A	EPA_6010
MW-D	21-Jul-97	Barium, dissolved	19 µg/L	2000 µg/L	97-L31898-2	EPA_6010
MW-D	21-Jan-98	Barium, dissolved	120 µg/L	2000 µg/L	98-8000568002	EPA_6010
MW-D	22-Jul-98	Barium, dissolved	230 µg/L	2000 µg/L	98-8005056003	EPA_6010
MW-D	15-Jan-97	Chloride	4 mg/L	250 mg/L	97-01-191-04A	EPA_325_2
MW-D	21-Jul-97	Chloride	7.7 mg/L	250 mg/L	97-L31898-2	EPA300.0
MW-D	21-Jan-98	Chloride	5.6 mg/L	250 mg/L	98-8000568002	EPA300.0
MW-D	22-Jul-98	Chloride	8.1 mg/L	250 mg/L	98-8005056003	EPA300.0
MW-D	21-Jul-97	Colors & Sheens	0 NA	NA	97-L31898-2	NA
MW-D	21-Jan-98	Colors & Sheens	0 NA	NA	98-8000568002	NA
MW-D	22-Jul-98	Colors & Sheens	0 NA	NA	98-8005056003	NA
MW-D	15-Jan-97	Conductivity	195 umhos/cm	NA	97-01-191-04A	EPA_120_2
MW-D	21-Jul-97	Conductivity	215 umhos/cm	NA	97-L31898-2	EPA_120_1
MW-D	21-Jan-98	Conductivity	410 umhos/cm	NA	98-8000568002	EPA_120_1
MW-D	22-Jul-98	Conductivity	270 umhos/cm	NA	98-8005056003	EPA_120_1
MW-D	15-Jan-97	Dissolved oxygen	7.8 mg/L	NA	97-01-191-04A	EPA_360_1
MW-D	21-Jul-97	Dissolved oxygen	3.4 mg/L	NA	97-L31898-2	EPA_360_1
MW-D	21-Jan-98	Dissolved oxygen	2.3 mg/L	NA	98-8000568002	EPA_360_1
MW-D	22-Jul-98	Dissolved oxygen	8.6 mg/L	NA	98-8005056003	EPA_360_1
MW-D	15-Jan-97	Iron, dissolved	180 µg/L	300 µg/L	97-01-191-04A	EPA_6010
MW-D	21-Jul-97	Iron, dissolved	220 µg/L	300 µg/L	97-L31898-2	EPA_6010
MW-D	21-Jan-98	Iron, dissolved	1400 µg/L	300 µg/L	98-8000568002	EPA_6010
MW-D	22-Jul-98	Iron, dissolved	1500 µg/L	300 µg/L	98-8005056003	EPA_6010
MW-D	21-Jan-98	Nickel, dissolved	10 µg/L	100 µg/L	98-8000568002	EPA_6010
MW-D	15-Jan-97	Nitrogen, ammonia	0.04 mg/L	NA	97-01-191-04A	EPA_350_1
MW-D	21-Jan-98	Nitrogen, ammonia	0.13 mg/L	NA	98-8000568002	EPA_350_1
MW-D	15-Jan-97	Nitrogen, nitrate	0.03 mg/L	10 mg/L	97-01-191-04A	EPA_353_2
MW-D	21-Jan-98	Nitrogen, nitrate	0.009 mg/L	10 mg/L	98-8000568002	EPA300.0
MW-D	15-Jan-97	pH	7.88 units	6.5-8.5	97-01-191-04A	EPA_150_1

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**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-D	21-Jul-97	pH	7.4 units	6.5-8.5	97-L31898-2	EPA_150_1
MW-D	21-Jan-98	pH	7.5 units	6.5-8.5	98-8000568002	EPA_150_1
MW-D	22-Jul-98	pH	7.5 units	6.5-8.5	98-8005056003	EPA_150_1
MW-D	15-Jan-97	Sodium, dissolved	3200 µg/L	160000 µg/L	97-01-191-04A	EPA_6010
MW-D	21-Jul-97	Sodium, dissolved	4200 µg/L	160000 µg/L	97-L31898-2	EPA_6010
MW-D	21-Jan-98	Sodium, dissolved	12000 µg/L	160000 µg/L	98-8000568002	EPA_6010
MW-D	22-Jul-98	Sodium, dissolved	4700 µg/L	160000 µg/L	98-8005056003	EPA_6010
MW-D	15-Jan-97	Temperature	22.6 C	NA	97-01-191-04A	EPA_170_1
MW-D	21-Jul-97	Temperature	26.6 C	NA	97-L31898-2	EPA_170_1
MW-D	21-Jan-98	Temperature	24 C	NA	98-8000568002	EPA_170_1
MW-D	22-Jul-98	Temperature	26 C	NA	98-8005056003	EPA_170_1
MW-D	15-Jan-97	Total dissolved solids	184 mg/L	500 mg/L	97-01-191-04A	EPA_160_1
MW-D	21-Jul-97	Total dissolved solids	240 mg/L	500 mg/L	97-L31898-2	EPA_160_1
MW-D	21-Jan-98	Total dissolved solids	300 mg/L	500 mg/L	98-8000568002	EPA_160_1
MW-D	22-Jul-98	Total dissolved solids	160 mg/L	500 mg/L	98-8005056003	EPA_160_1
MW-D	21-Jul-97	Turbidity	25 NTU	NA	97-L31898-2	EPA_180_1
MW-D	21-Jan-98	Turbidity	5.5 NTU	NA	98-8000568002	EPA_180_1
MW-D	22-Jul-98	Turbidity	8.6 NTU	NA	98-8005056003	EPA_180_1
MW-D	15-Jan-97	Turbidity, field filtered	0.18 NTU	NA	97-01-191-04A	EPA_180_1
MW-D	21-Jul-97	Turbidity, field filtered	0.06 NTU	NA	97-L31898-2	EPA_180_1
MW-D	22-Jul-98	Turbidity, field filtered	2.6 NTU	NA	98-8005056003	EPA_180_1
MW-D	15-Jan-97	Zinc	75 µg/L	5000 µg/L	97-01-191-04A	EPA_6010
MW-D	21-Jul-97	Zinc, dissolved	27 µg/L	5000 µg/L	97-L31898-2	EPA_6010
MW-D	22-Jul-98	Zinc, dissolved	86 µg/L	5000 µg/L	98-8005056003	EPA_6010
MW-E	15-Jan-97	1,4-Dichlorobenzene	7 µg/L	75 µg/L	97-01-191-05A	EPA 8260
MW-E	15-Jan-97	1,4-Dichlorobenzene	7 µg/L	75 µg/L	97-01-191-05A	EPA 8260
MW-E	21-Jul-97	1,4-Dichlorobenzene	4.1 µg/L	75 µg/L	97-L31898-3	EPA 8260
MW-E	21-Jul-97	1,4-Dichlorobenzene	4.1 µg/L	75 µg/L	97-L31898-3	EPA 8260
MW-E	20-Jul-98	1,4-Dichlorobenzene	2.5 µg/L	75 µg/L	98-8004891003	EPA 8260
MW-E	20-Jul-98	1,4-Dichlorobenzene	2.5 µg/L	75 µg/L	98-8004891003	EPA 8260
MW-E	15-Jan-97	Arsenic	20 µg/L	50 µg/L	97-01-191-05A	EPA_6010
MW-E	15-Jan-97	Arsenic	20 µg/L	50 µg/L	97-01-191-05A	EPA_6010
MW-E	20-Jan-98	Arsenic	11 µg/L	50 µg/L	98-8000480002	EPA_6010
MW-E	20-Jan-98	Arsenic	11 µg/L	50 µg/L	98-8000480002	EPA_6010
MW-E	20-Jul-98	Arsenic	5.4 µg/L	50 µg/L	98-8004891003	EPA_6010
MW-E	20-Jul-98	Arsenic	5.4 µg/L	50 µg/L	98-8004891003	EPA_6010

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Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-E	21-Jul-97	Arsenic, dissolved	12 µg/L	50 µg/L	97-L31898-3	EPA_6010
MW-E	20-Jan-98	Barium	87 µg/L	2000 µg/L	98-8000480002	EPA_6010
MW-E	20-Jul-98	Barium	58 µg/L	2000 µg/L	98-8004891003	EPA_6010
MW-E	15-Jan-97	Barium, dissolved	110 µg/L	2000 µg/L	97-01-191-05A	EPA_6010
MW-E	21-Jul-97	Barium, dissolved	76 µg/L	2000 µg/L	97-L31898-3	EPA_6010
MW-E	15-Jan-97	Chloride	4.7 mg/L	250 mg/L	97-01-191-05A	EPA_325_2
MW-E	21-Jul-97	Chloride	6 mg/L	250 mg/L	97-L31898-3	EPA300.0
MW-E	20-Jan-98	Chloride	4.1 mg/L	250 mg/L	98-8000480002	EPA300.0
MW-E	20-Jul-98	Chloride	0.5 MG/L	250 mg/L	98-8004891003	EPA300.0
MW-E	21-Jul-97	cis-1,2-Dichloroethene	1.3 µg/L	70 µg/L	97-L31898-3	EPA 8260
MW-E	21-Jul-97	Colors & Sheens	0 NA	NA	97-L31898-3	NA
MW-E	20-Jan-98	Colors & Sheens	0 NA	NA	98-8000480002	NA
MW-E	20-Jul-98	Colors & Sheens	0 NA	NA	98-8004891003	NA
MW-E	15-Jan-97	Conductivity	700 umhos/cm	NA	97-01-191-05A	EPA_120_2
MW-E	21-Jul-97	Conductivity	390 umhos/cm	NA	97-L31898-3	EPA_120_1
MW-E	20-Jan-98	Conductivity	670 umhos/cm	NA	98-8000480002	EPA_120_1
MW-E	20-Jul-98	Conductivity	540 umhos/cm	NA	98-8004891003	EPA_120_1
MW-E	15-Jan-97	Dissolved oxygen	2.8 mg/L	NA	97-01-191-05A	EPA_360_1
MW-E	21-Jul-97	Dissolved oxygen	2.8 mg/L	NA	97-L31898-3	EPA_360_1
MW-E	20-Jan-98	Dissolved oxygen	2.3 mg/L	NA	98-8000480002	EPA_360_1
MW-E	20-Jul-98	Dissolved oxygen	3.4 mg/L	NA	98-8004891003	EPA_360_1
MW-E	20-Jan-98	Iron	12000 µg/L	300 µg/L	98-8000480002	EPA_6010
MW-E	20-Jul-98	Iron	8200 µg/L	300 µg/L	98-8004891003	EPA_6010
MW-E	15-Jan-97	Iron, dissolved	17000 µg/L	300 µg/L	97-01-191-05A	EPA_6010
MW-E	21-Jul-97	Iron, dissolved	10000 µg/L	300 µg/L	97-L31898-3	EPA_6010
MW-E	15-Jan-97	Nickel	11 µg/L	100 µg/L	97-01-191-05A	EPA_6010
MW-E	20-Jan-98	Nickel	8.4 µg/L	100 µg/L	98-8000480002	EPA_6010
MW-E	15-Jan-97	Nitrogen, ammonia	0.38 mg/L	NA	97-01-191-05A	EPA_350_1
MW-E	20-Jan-98	Nitrogen, ammonia	0.12 mg/L	NA	98-8000480002	EPA_350_1
MW-E	20-Jul-98	Nitrogen, ammonia	0.33 mg/L	NA	98-8004891003	EPA_350_1
MW-E	15-Jan-97	Nitrogen, nitrate	0.18 mg/L	10	97-01-191-05A	EPA_353_2
MW-E	15-Jan-97	pH	6.71 units	6.5-8.5	97-01-191-05A	EPA_150_1
MW-E	21-Jul-97	pH	6.8 units	6.5-8.5	97-L31898-3	EPA_150_1
MW-E	20-Jan-98	pH	7.2 units	6.5-8.5	98-8000480002	EPA_150_1
MW-E	20-Jul-98	pH	6.7 units	6.5-8.5	98-8004891003	EPA_150_1
MW-E	20-Jan-98	Sodium	3300 µg/L	160000 µg/L	98-8000480002	EPA_6010

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values

Field Duplicates are not included

**1997 AND 1998 DETECTIONS AND RELATED MCL VALUES
CITRUS COUNTY LANDFILL**

StationID	Col. Date	Parameter	Anal. Value	MCL - FDEP	SampleID	AnalMethod
MW-E	20-Jul-98	Sodium	3300 µg/L	160000 µg/L	98-8004891003	EPA_6010
MW-E	15-Jan-97	Sodium, dissolved	5000 µg/L	160000 µg/L	97-01-191-05A	EPA_6010
MW-E	21-Jul-97	Sodium, dissolved	7500 µg/L	160000 µg/L	97-L31898-3	EPA_6010
MW-E	15-Jan-97	Temperature	23.8 C	NA	97-01-191-05A	EPA_170_1
MW-E	21-Jul-97	Temperature	25.9 C	NA	97-L31898-3	EPA_170_1
MW-E	20-Jan-98	Temperature	21 C	NA	98-8000480002	EPA_170_1
MW-E	20-Jul-98	Temperature	26 C	NA	98-8004891003	EPA_170_1
MW-E	15-Jan-97	Total dissolved solids	460 mg/L	500 mg/L	97-01-191-05A	EPA_160_1
MW-E	21-Jul-97	Total dissolved solids	580 mg/L	500 mg/L	97-L31898-3	EPA_160_1
MW-E	20-Jan-98	Total dissolved solids	380 mg/L	500 mg/L	98-8000480002	EPA_160_1
MW-E	20-Jul-98	Total dissolved solids	360 mg/L	500 mg/L	98-8004891003	EPA_160_1
MW-E	21-Jul-97	Turbidity	40.6 NTU	NA	97-L31898-3	EPA_180_1
MW-E	20-Jan-98	Turbidity	0.66 NTU	NA	98-8000480002	EPA_180_1
MW-E	20-Jul-98	Turbidity	0.92 NTU	NA	98-8004891003	EPA_180_1
MW-E	15-Jan-97	Turbidity, field filtered	4.72 NTU	NA	97-01-191-05A	EPA_180_1
MW-E	21-Jul-97	Turbidity, field filtered	0.93 NTU	NA	97-L31898-3	EPA_180_1
MW-E	15-Jan-97	Vinyl chloride	1 ug/l	1 µg/L	97-01-191-05A	EPA 8260
MW-E	21-Jul-97	Vinyl chloride	3.3 µg/L	1 µg/L	97-L31898-3	EPA 8260
MW-E	20-Jan-98	Vinyl chloride	2.1 µg/L	1 µg/L	98-8000480002	EPA 8260
MW-E	20-Jul-98	Vinyl chloride	2.4 µg/L	1 µg/L	98-8004891003	EPA 8260
MW-E	21-Jul-97	Zinc, dissolved	17 µg/L	5000 µg/L	97-L31898-3	EPA_6010

NOTES: Bolded analytical values indicate exceedences of the FDEP MCL values
Field Duplicates are not included