

ORIGINAL
FILE COPY

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B. KENNETH GATLIN
WAYNE L. SCHIEFELBEIN
KATHRYN G.W. COWDERY

March 13, 1997

HAND DELIVERY

Blanca S. Bayo, Director
Division of Records & Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Docket No. 961299-WS
Application for Grandfather Certificates to Provide Water and
Wastewater Service in Polk County by Garden Grove Water
Company, Inc.

Dear Ms. Bayo:

Garden Grove Water Company, Inc. has requested by the above
application that its water and wastewater franchise areas, as
established by Polk County, be certified in its entirety by the
Florida Public Service Commission under grandfather rights.

ACK _____
AFA _____
APP _____
CAF _____
CMU _____
CTR _____
EAG _____
LEG _____
LIN _____
OPC _____
RC _____
In support of its request and in response to Mr. John Williams' December 10, 1996 letter to the undersigned counsel, we herewith submit an Analysis of the Applicant's territory and water and wastewater facilities prepared by Pickett & Associates, Inc. Please note that the original of the analysis is submitted under seal of that engineering firm. The Analysis concludes that prior to May 14, 1996, the water and wastewater franchise areas (as requested by the above application), in their entirety, has service available from the Applicant.

Under separate cover we are directly transmitting to Mr. Williams and to Kathleen Johnson, Staff Counsel, one set of color-coded maps depicting the conclusions of said Analysis.

JTH _____

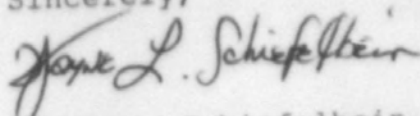
RECEIVED & FILED
EPSC-BUREAU OF RECORDS

DOCUMENT NUMBER-DATE
02665 MAR 13 97
FPSC-RECORDS/REPORTING

Ms. Blanca S. Bayo
Docket No. 961299-WS
March 13, 1997
Page 2

Please acknowledge receipt of the foregoing by stamping the enclosed extra copy of this letter and returning same to my attention. Thank you for your assistance.

Sincerely,



Wayne L. Schiefelbein

WLS/pav
Enclosures

cc: w/encl. John D. Williams (Hand Deliver)
Kathleen Johnson, Esq. (Hand Deliver)

PICKETT & ASSOCIATES, INC.

Engineers • Surveyors • Planners

475 South First Avenue
Bartow, Florida 33830841-533-9095
Fax 841-534-1464Directors:
Marion T. (Pete) Bell, Jr.
John M. Clyatt, P.L.E.
Kendall S. Phillips, P.E.**GARDEN GROVE WATER COMPANY, INC.
WATER AND WASTEWATER SERVICE AVAILABILITY ANALYSIS**GENERAL:

Attached are two colored maps depicting the water and wastewater utility service provided to the Garden Grove Franchise Area by Garden Grove Water Company, Inc. as of May 14, 1996. Outlined below is a brief report on each facility, a description of the map color code reflecting the status of service, and my conclusion as to service availability for the franchise

WATER SYSTEM:

In 1982 the Garden Grove Water Company had an engineering study made regarding all facilities of the water system. This study surveyed every well, pump, water quality, treatment provided, water plant and storage facility, and flow data. The report analyzed the system flow demands, made some population projections and made recommendations for system improvements. This report was supplemented in 1985 with a detailed study of the franchise area. The franchise study utilized zoning maps, flood hazard maps, soil maps, and other data from each Section, Township and Range of the franchise area to determine the development potential. From this study the ultimate population of the franchise area was determined to be 18,214 ERC's (equivalent residential connections). Following this study, Garden Grove Water Company proceeded to provide additional facilities in accordance with a master plan to service the franchise area. These improvements included a 2000 g.p.m. new well, a 250,000 gallon elevated water storage tank, pump housing and treatment, additional distribution system piping, and appurtenances. The water system status was reviewed again in 1989 and further improvements were made in the distribution system including 8 inch, 10 inch and 12 inch mains. A hardy cross network analysis system was implemented for evaluating the distribution system under various flow conditions. In 1992 a capital improvement program and used and useful study was made of the system with a resulting evaluation of 90%. Since that time, new water plant facilities were completed in early 1996 bringing the Garden Grove Water Company service capacity to 6,705,600 gallons per day based on a 16 hour day. This capacity equates to 18,627 ERC's. Thus the water treatment plant facilities are in place to provide service throughout the franchise area.

Although the treatment plant facilities are in place to provide service throughout the franchise area, the color code for the water system map attached to this report reflects the systems service as follows:

DOCUMENT NUMBER-DATE

02665 MAR 13 86

FPSC-RECORDS/REPORTING

- RED:** This color reflects the Orchid Springs Franchise Area, a private development with two wells excluded from this report.
- BLUE:** This color reflects the areas either actually being served, or if developed, could be served from existing water mains in the area.
- YELLOW:** This color show the area were water mains are permitted for construction or where actual construction may be taking place. A copy of the permit letter is attached (1994).
- GREEN:** This color represents the area capable of being served when distribution systems are constructed. Several small developments with private wells could also be served by connecting to the Garden Grove Water System

WASTEWATER FACILITIES:

In 1985 the Garden Grove Water Company was operating two wastewater treatment plants, one in the Garden Grove Pines area east of Lake Florence and one in the Cypresswood area east of Lake Daisy. The Cypresswood treatment plant had a capacity of 375,000 gallon per day but was expanded shortly thereafter to 720,000 gallons per day. In looking forward to a master plan for service for the franchise area, a series of programmed expansions were scheduled.

First Cypresswood was expanded to a 1.4 million gallons per day in 1989. The Garden Grove Pines treatment plant with only a capacity of 118,000 gallons per day was phased out in 1993 with a lift station to transfer its flow over to the Cypresswood treatment plant. In 1991 plans were started to design tertiary treatment into the Cypresswood plant and to master plan it for 2.0 million gallons per day with the treated effluent to be recycled for citrus grove irrigation. Plans were completed and a construction permit DC53-204515 was issued in January, 1995. Construction of tertiary filters of 1.4 M.G.D. capacity with expansion ability to 2.0 M.G.D. along with bar screens, degrit facilities and surge tank for 2.0 M.G.D. was completed in March of 1996. The construction permit (copy attached) also provides time until June 30, 1999 to construct additional improvements to bring the complete plant up to its target of 2.0 M.G.D. or its capacity to serve up to the franchise ultimate 7,407 ERC's. Current flow at the plant is running around 650,000 gallons per day from 2,407 ERC's. Even at the plants current 1.4 M.G.D. capacity it could handle 5,185 ERC's or more than twice its present load.

The color code for the wastewater facilities map attached reflects the current status of the franchise area:

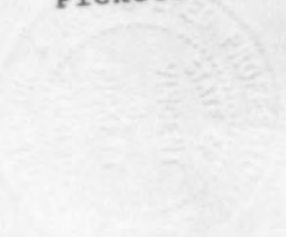
- RED:** This color represents the Orchid Springs Franchise Area, a private development with its own wastewater treatment plant.
- ORANGE:** This color reflects areas that developed utilizing septic tanks.
- BLUE:** This color represents either areas being served by Cypresswood treatment plant or if developed could utilize existing lift stations or force mains.
- YELLOW:** This color shows the area where force mains are permitted for construction. Copy of the permit letter is attached (1995).
- GREEN:** This color represents the area capable of being served when collection systems and force mains are constructed.

CONCLUSION:

Based on the plant capacity for both water and wastewater constructed by Garden Grove Water Company, Inc. prior to May 14, 1996, it is my conclusion that the entire franchise area has service available as reflected in this report and the color coded maps.

Respectfully Submitted,

Vincent B. Pickett, P.E.
Vincent B. Pickett
Pickett & Associates, Inc.





STATE OF FLORIDA
 DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
 POLK COUNTY PUBLIC HEALTH UNIT

DISTRICT FOURTEEN

RECEIVED
 Pickett & Assoc. Inc.

APR 15 1994
 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

CS/Garden Grove Water Company
 West Lake Ruby Drive Water Supply Main
 04-15-94

Mark Kluytenaar
 Garden Grove Water Plant
 3601 Cypress Gardens Road
 Winter Haven, FL 33884

Re: Notification of Use of General Permit

Approval Number: 5394-2533-3G
 PATS Number: 248432

Dear Mr. Kluytenaar:

In response to your request, this letter is to advise you that the Department has received your notice of intent to use a general permit as provided in *Rule 17-555.540, Florida Administrative Code* to construct an extension to a public water supply distribution system and does not object to your use of such general permit. Please be advised that you are required to abide by all conditions in *Rules 17-4.510 through 17-4.540, Florida Administrative Code*, the general requirements for general permits; and *Rule 17-555.410, Florida Administrative Code*.

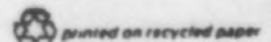
Sincerely,

Donald R. Guthrie, P.E.
 Environmental Engineering
 Administrator

DRG/HT/ejt

xc: Vincent B. Pickett, P.E. -- Pickett & Associates, Inc. ✓
 File Copy -- CS/Garden Grove Water Company

ENVIRONMENTAL ENGINEERING · ENVIRONMENTAL HEALTH
 2090 E. CLOWER STREET BARTOW FL 33830-6741
 813 533-3398



U.S. EMBASSY LIBRARY



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE NAME:
Garden Grove
Water Company
3601 Cypress Gardens Rd.
Winter Haven, FL 33884

Attention:
Mr. Mark Kluytenaar
Vice President of
Operations

PERMIT/CERTIFICATION:
GMS ID No: 4053P00022
Permit No: DC53-204515
Date of Issue: JAN 1, 1999
Expiration Date: June 30, 1999
County: Polk
Lat/Long: 27° 59' 46"
81° 39' 06"
Sec/Town/Range: 06/29/27
Project: Cypresswood WWTP
Processor: S.G. Thompson


This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-3, 62-4, 62-300, 62-500 and 62-600 Series. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached thereto or on file with the Department and made a part thereof and specifically described as follows:

Expansion by construction of the existing 1.4 MGD facility into a 2.0 MGD extended aeration wastewater treatment plant with the chlorinated and filtered effluent routed to 275 acres of citrus grove. An on-site holding pond will provide greater than three (3) days holding time.

Location: Approximately five (5) miles south east of Winter Haven and two (2) miles west of U.S. 27 in Polk County, Florida.

Replaces Permit No. N/A Expired: N/A

page 1 of 12



Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

Lawton Chiles
Governor

PERMITTEE

Garden Grove Water Company, Inc.
3601 Cypress Gardens Road
Winter Haven, FL 33884

ATTN: Mark Kluytenaar
Vice President of
Operations

PERMIT/CERTIFICATION

Permit No: CS53-252476
Date of Issue: 02-01-95
Expiration Date: 04-01-96
County: Polk
Project: West Lake Ruby Drive
Force Main
Processor: Lorri A. Floyd

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4 and 17-604. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

Description of Project: Construction of approximately 1.36 miles of 8-inch diameter force main to serve existing and future development in the area. Flows transported by the system will be committed against the Garden Grove Cypresswood Wastewater Treatment Plant (WWTP) under separate permits for on-site sewers.

This is a dry line approval and requires separate departmental approval prior to being placed in service.

Location: Beginning at the intersection of West Lake Ruby Drive with Eloise Loop Road and Thompson Nursery Road, the force main will run north to the northern terminus of West Lake Ruby Drive, which becomes C.R. 540-A as it turns east. It will then continue along C.R. 540-A for approximately 1900 feet, thence north approximately 760 feet through an orange grove, thence west along S.R. 540 approximately 447 feet to connect to an existing force main, all in Polk County, Florida.

BOARD OF COUNTY COMMISSIONERS - IMPERIAL POLK COUNTY
 ROADWAY MAINTENANCE & CONSTRUCTION SERVICES DIVISION ⁶⁷
 3000 SHEFFIELD ROAD - 813-534-0011, FAX 534-0013
 POST OFFICE BOX 1519 - BARTOW, FLORIDA 33830
 330 WEST CHURCH STREET - 813-534-6712

RECEIVED

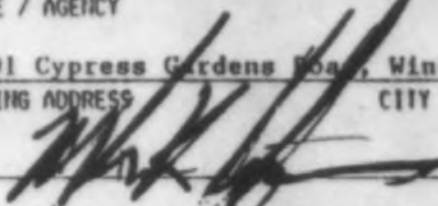
APPLICATION FOR PERMITTING OF ENCROACHMENTS IN POLK COUNTY MAINTAINED ROADWAYS
 AND UTILITY COORDINATION VERIFICATION
 (type or print information requested below) MAY 23 1994

) "FAST TRACK APPLICATION"

ROADWAY MAINTENANCE
 DIVISION

Garden Grove Water Company, Inc. - Mark Kluytenaar (813) 324-4319
 PERMITTEE / AGENCY CONTACT PERSON & TELEPHONE NUMBER (for questions)

3601 Cypress Gardens Road, Winter Haven, FL 33880 (813) 324-4319
 MAILING ADDRESS CITY STATE ZIP CODE 24-HOUR EMERGENCY CONTACT NUMBER

BY:  TITLE: Director/Operations DATE: 3/30/94

The above representative is authorized to endorse this permitting application acknowledges that the construction and materials specifications, as depicted on the attached sketches or plans, are in compliance with industry standards for this area and all other federal, state, county, or municipal requirements that may be applicable to this work. It is further acknowledged that these facilities placed in, on, or over the rights of way are subject to relocation at the permittee's expense when so directed by the County Engineer due to proposed roadway improvements or maintenance conflicts per Florida Statutes. The permittee will maintain accurate records of all such facilities, provide such information upon request from agencies, and provide field locations of in-place facilities upon forty-eight (48) hours request.

PERMIT FEE ATTACHED: BILLING/JOB NUMBER: (if less than five permits per month) (billing status or fee deposit verified)

IF APPLICATION IS PREPARED BY OTHER THAN PERMITTEE: COPY OF APPROVED PERMIT REQUESTED (X) YES () NO

Pickett & Associates, Inc. Vincent B. Pickett (813) 533-9095
 PREPARED BY: (name of engineering firm) CONTACT PERSON & TELEPHONE NUMBER (for questions)

475 South First Avenue, Bartow, Florida 33830 (813) 534-1464
 MAILING ADDRESS CITY STATE ZIP CODE FAX NUMBER

LOCATION OF CONSTRUCTION TO BE PERMITTED:

County Road 540-A and West Lake Ruby Drive between S.R. 540 and Eloise Loop Road
 (posted roadname, community area or geographical section)

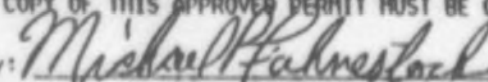
Underground lines will indicate the use of the line(s), length of line(s) to be installed in feet, diameter of line(s) and casings, material and grade specification of line(s), all appurtenances associated with the type of line(s) being installed, and number of road crossings and method of crossing.

Aerial power lines will indicate the number of phases, whether transmission or distribution, length and size of conductor, number and sizes of poles to be set, and any other appurtenances associated with this type of utility construction (to include span guys). Aerial utility lines will indicate the general type, i.e. telephone, cable television, fiberoptic, the length of the installation, and any appurtenances associated with this type of utility construction. Any other use to be permitted will be described as to nature and type of activity.

QUANTITY OF CONSTRUCTION TO BE PERMITTED:

4,650 L.F. Buried 10 inch PVC Domestic Water Distribution Main AWWA-900 with Fire Hydrants
 and approximately 7,200 L.F. Buried 8 inch PVC Sanitary Force Main with Air Release Valves.
 Two Bored Casing Crossings near Eloise Loop Road.

APPROVAL OF PERMIT (A COPY OF THIS APPROVED PERMIT MUST BE ON THE JOBSITE DURING ALL ACTIVITIES)

by: 
 (for the County Engineer)

BOARD OF COUNTY COMMISSIONERS - IMPERIAL POLK COUNTY
ROADWAY MAINTENANCE & CONSTRUCTION SERVICES DIVISION
3000 SHEFFIELD ROAD - 813-534-0011, FAX 534-0013
POST OFFICE BOX 1519 - BARTOW, FLORIDA 33830
330 WEST CHURCH STREET - 813-534-6712

RECEIVED

APPLICATION FOR PERMITTING OF ENCROACHMENTS IN POLK COUNTY MAINTAINED ROADWAYS
AND UTILITY COORDINATION VERIFICATION
(type or print information requested below)

MAY 23 1994

) "FAST TRACK APPLICATION"

ROADWAY MAINTENANCE
DIVISION

Garden Grove Water Company, Inc. - Mark Kluytenaar (813) 324-4319
PERMITTEE / AGENCY CONTACT PERSON & TELEPHONE NUMBER (for questions)

3601 Cypress Gardens Road, Winter Haven, FL 33880 (813) 324-4319
MAILING ADDRESS CITY STATE ZIP CODE 24-HOUR EMERGENCY CONTACT NUMBER

Y: [Signature] TITLE: Director/Operations DATE: 3/30/94

The above representative is authorized to endorse this permitting application acknowledges that the construction and materials specifications, as depicted on the attached sketches or plans, are in compliance with industry standards or this area and all other federal, state, county, or municipal requirements that may be applicable to this work. It is further acknowledged that these facilities placed in, on, or over the rights of way are subject to relocation at the permittee's expense when so directed by the County Engineer due to proposed roadway improvements or maintenance conflicts per Florida Statutes. The permittee will maintain accurate records of all such facilities, provide such information upon request from agencies, and provide field locations of in-place facilities upon forty-eight (48) hours request.

PERMIT FEE ATTACHED: _____ BILLING/JOB NUMBER: _____
(if less than five permits per month) ** (billing status or fee deposit verified)

IF APPLICATION IS PREPARED BY OTHER THAN PERMITTEE; COPY OF APPROVED PERMIT REQUESTED (X) YES () NO

Pickett & Associates, Inc. Vincent B. Pickett (813) 533-9095
PREPARED BY: (name of engineering firm) CONTACT PERSON & TELEPHONE NUMBER (for questions)

475 South First Avenue, Bartow, Florida 33830 (813) 534-1464
MAILING ADDRESS CITY STATE ZIP CODE FAX NUMBER

LOCATION OF CONSTRUCTION TO BE PERMITTED:

County Road 540-A and West Lake Ruby Drive between S.R. 540 and Eloise Loop Road

(post roadname, community area or geographical section)

Underground lines will indicate the use of the line(s), length of line(s) to be installed in feet, diameter of line(s) and casings, material and grade specification of line(s), all appurtenances associated with the type of line(s) being installed, and number of road crossings and method of crossing.

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PRIMARY OF CONSTRUCTION TO BE PERMITTED:

4,650 L.F. Buried 10 inch PVC Domestic Water Distribution Main AWWA-900 with Fire Hydrants

and approximately 7,200 L.F. Buried 8 inch PVC Sanitary Force Main with Air Release Valves.

Two Bored Casing Crossings near Eloise Loop Road.

APPROVAL OF PERMIT (A COPY OF THIS APPROVED PERMIT MUST BE ON THE JOBSITE DURING ALL ACTIVITIES)

by: [Signature] (for the County Engineer)

PERMIT NUMBER: 40-001-3-95 ONE-CALL ID NUMBER: _____ DATE OF APPROVAL: 21 FEB 95
(Inspector use only)

SPECIAL PROVISIONS:

(see reverse for utility coordination, notification requirements, and permit conditions)