

February 7, 1994
kwm\121

INTRODUCED BY Pullen

PROPOSED NO. 94-58

ORDINANCE NO. **11236**

AN ORDINANCE approving Crestview Tracts #3
Water Supply Association Comprehensive Plan.

PREAMBLE:

K.C.C. 13.24 requires approval of comprehensive plans for water purveyors as a prerequisite to the granting of right-of-way franchises and approval of right-of-way construction permits.

On October 13, 1993 the King County Utilities Technical Review Committee met to consider the plan and finding it consistent with K.C.C. 13.24 recommended approval.

The Crestview Tracts #3 Water Supply Association Water System Comprehensive Plan was approved by vote of the Crestview Tracts #3 Water Supply Association Board of Directors on April 19, 1993.

The Crestview Tracts #3 Water Supply Association is categorically exempt from issuing an environmental review on the Plan in accordance with the State Environmental Policy Act.

BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

SECTION 1. The Crestview Tracts #3 Water Supply Association Water Comprehensive Plan, attached as Exhibit A, is hereby approved without conditions.

INTRODUCED AND READ for the first time this 31st day of January, 1994.

PASSED by a vote of 12 to 0 this 22nd day of February, 1994.

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

Kent Pullen
Chair

ATTEST:

Janet Masuo
Deputy Clerk of the Council

APPROVED this 2nd Day of March, 1994
Benj. Lohr
King County Executive

Attachment:

A. Exhibit A: Crestview Tracts #3 Water Supply Association Comprehensive Plan dated September 2, 1993.

11236

King County
Utilities Technical Review Committee
Checklist
In Accordance with K.C.C. 13.24

DISTRICT NAME Crestview Tracts #3 Water Supply Association
TYPE OF PLAN Water System Comprehensive Plan
CONTACT PERSON Jim Cunningham
TITLE Board Member of Crestview Tracts #3 W.S.A.
PHONE 206 852-5371

I. Background Information

A. Reason for Submittal:

- 1. New Plan X
- 2. Plan Update Date of Previous Plan
- 3. Plan Amendment Date of Current Plan 4/19/93

B. Number of Connections:

- 1. Existing 31
- 2. Obligation 36
- 3. Source Capacity 36
- 4. DOH Approval 36

C. Size of Largest Pipe 2 - 1/2"

D. System Class - (Chap. 246-290 WAC-Water Only) Class A

E. Critical Water Supply Area (Water Only) South King County

F. Groundwater Planning Area (Water Only) South King County

G. Community Planning Area(s) Soos Creek

H. Plan Approval (Attach copy)

Date 04/19/93 (By Board of Directors of Crestview Tracts #3 WSA
Resolution No. N/A

I. Environmental Review

- 1. Categorically Exempt Yes X No
(Attach Rationale) **
- 2. If no, what is determination?
(Attach Checklist or EIS)

**see beginning of narrative report.

II.	Narrative Report (Indicate page numbers in Plan where the item appears)	Page
A.	Short History of Purveyor or Utility	<u>1</u>
	1. Description of existing and requested service area	<u>1</u>
	2. Purpose of Plan	<u>1</u>
	3. Objectives of Plan	<u>1</u>
B.	Population Projection	<u>2</u>
	Source or basis	<u>2</u>
<i>Water Purveyors Complete Items C Through G</i>		
C.	Water System Description	<u>2</u>
	1. Source: Surface? _____ Ground? <u> X </u>	<u>2</u>
	2. Do you supply own water?	
	Yes <u> X </u>	
	No _____	
	If no, who is supplier? _____	
	3. Storage and distribution facilities	<u>2</u>
	4. Water quality documentation	<u>2</u>
	If surface supply with disinfection:	
	a. Watershed restrictions and conditions	<u>3</u>
	b. Programs for control	<u>3</u>
	5. Source protection measures	<u>3</u>
D.	Fireflow Planning	<u>3</u>
	1. Fire Districts	<u>3</u>
	2. Min. design standards	<u>3</u>
	3. Land uses (description: residential, commercial)	<u>3</u>
E.	System Improvements	<u>3-4</u>
	1. Needs assessment	<u>4</u>
	<i>10 years for systems > 1,000 connections</i>	
	<i>5 years for systems ≤ 1,000 connections</i>	
	2. Time schedule	<u>4</u>
	3. If open reservoirs, plans for covering	<u>4</u>
F.	Conservation Element	
	1. Long Term	<u>4-7</u>
	<i>(refer to conservation checklist)</i>	
	2. Water Shortage Response Plan	<u>4-7</u>
G.	Satellite System Management Plan	<u>8</u>

Sewer Utilities Complete Items H Through J		
H.	Description of Physical and Natural Features	_____
	1. Topography	_____
	2. Drainage Basin and characteristics	_____
	3. Land use	_____
	4. Relationship of natural features to sewer system planning	_____
	<i>N/A</i>	
I.	Sewer System Design Criteria	_____
	1. Explanation and justification	_____
J. Description of Existing Facilities and Disposal Systems		

All Utilities and Purveyors Complete Items K Through N

K.	Improvement Schedule	
	1. Construction schedule	8
	2. Financing plan	8
L.	Neighboring Purveyor Issues	
	1. Issues	8
	2. Agreements	8
	3. Boundary disputes	8
	4. Comments from neighboring jurisdictions	8
	Comments	
	<u>SEE APPENDIX FOR COMMENTS FROM</u>	
	<u>NEIGHBORING WATER PURVEYORS</u>	

M.	Developer Extension Guidelines	8
N.	Consistency With Other Plans and Policies <i>(Demonstrate consistency)</i>	
	1. King County Comprehensive Plan and Community Plan(s)	9
	2. Sewerage General Plan <i>(sewer only)</i>	9
	3. Coordinated Water Supply Plan <i>(water only)</i>	9

III. **Maps and Figures** (Indicate page numbers in Plan where map appears and please use this terminology on the maps)

Page

- A. Vicinity Map (existing and proposed service area) Map A
- B. Corporate Boundaries, Existing and Proposed Service Areas (USGS 7-1/2 min. quad., or comparable topographical map) Map B
- C. Existing Zoning 9
- D. Community Planning Area Boundaries 9

Water Purveyors Complete F through I

- F. Existing and Proposed Mains and Hydrants (scale 1":400') Map F
- G. Critical Elevations and Pressure Zones (scale 1":1,000') 9
- H. Storage and Pumping Facilities, With Capacities 10
- I. Community Plan WSA Boundary (if applicable) 10

~~Sewer Utilities Complete J Through N~~

N/A

- J. Existing System, With Capacities _____
- K. Location of Pump Stations, Trunk Interceptors, Etc. _____
- L. DOE or DOH Identified Health Hazard Area, If Any _____
- M. Potential Health Hazard Area _____
- N. Current King County LSA Boundary _____

- O. City of Kent Water Service Area Appendix

Comments

CRESTVIEW TRACTS #3
Water Supply Association
Comprehensive Plan

II. NARRATIVE REPORT

This plan is exempt from threshold determination and EIS requirements in accordance with the State Environmental Policy Act Rules (WAC 197-11-900) because the largest size of pipe in the system is less than eight inches in diameter.

A. History of Crestview Tract #3 W.S.A.

Crestview Tracts #3 Plat was developed in 1963 by Robert Osborne. The water system was owned and operated by Mr. Osborne until 1978. At that time the current Association's members took over the operation of the system. In 1984, the association purchased the water system and has owned and operated it since then.

The service area that we are currently serving and are requesting a comprehensive plan for is all of Crestview Tracts #3 Plat plus the adjoining tax lot numbers 70 and 76. These two residences along our south border have been served by this water system for over 25 years.

The purpose of this plan is to comply with KCC 6.27 which requires private utilities to obtain a franchise to operate and maintain a water utility on county road right of ways.

The objectives of this plan are to enable Crestview Tract #3 W.S.A. to obtain the required franchise.

B. Population Projection

Crestview Tracts #3 W.S.A. is a class A system which intends only to continue servicing the 34 lots on Crestview Tracts #3 and the two adjoining residences to the south. The number of service connections currently in use is 31 and the estimated population of our service area is 77 (assuming an average of 2.5 people per household). We have no intention of expanding our service area. Under current zoning, population growth in this area is anticipated to be minimal and will not affect Crestview Tracts #3 W.S.A. The attached corporate boundary map (Map B) shows four lots on our plat (numbers 4, 19, 24 and 25) that are undeveloped. Some of these lots have perk problems, some were left vacant for other reasons. These lots may or may not be built upon in the future. If they are, Crestview Tracts #3 Water Supply Association can accommodate their water needs.

C. Water System Description

The source of our water is ground water wells. Therefore Crestview Tracts #3 W.S.A. does supply our own water from wells situated on association owned property. This property is approximately 1¹/₄ acres in size.

Our storage and distribution system begins with a 32,000 gallon concrete reservoir which is partially underground. On top of this reservoir is a pumphouse containing a 1,000 gallon pressure tank, a primary and secondary supply pump for transferring water from the reservoir to the pressure tank, an air-water level regulator for balancing the pressure tank, and all necessary valves and electrical connections to run the system. The water is delivered through a master meter at the pumphouse (used to monitor all water flow), then through a network of 2-¹/₂" plastic pipe and individual meters on each lot to the homes.

Water quality documentation can be found at the end of this report in the form of copies of a "Volatile Organic Chemical Report", a "Water Sample Information for Radiation Analysis", and a "Water Sample Information for Inorganic Chemical Analysis", all of which describe tests done on our water in 1992.

Crestview Tracts #3 W.S.A. draws its water from a 265' deep well. We have no control over the aquifer the well taps, but source protection measures we can control are observed (i.e. controlling access to the pumphouse, well-head and reservoir, and performing housekeeping duties as necessary to insure a sanitary pumphouse environment).

D. Fireflow Planning

Crestview Tracts #3 W.S.A. is located in the Kent Fire District with the closest station located approximately two (2) miles away. This system was not designed to meet current minimum design standards regarding fire flow. Members of our Board of Directors have contacted the Kent Fire Department personnel regarding our willingness to grant the fire department access to our reservoir for auxiliary water during an emergency since we have no hydrants in our neighborhood. They have declined stating that they carry adequate water in their tankers when fighting fire in this area. We are exempt from fire flow regulations due to the year of our origin.

King County Code 17.08.030 states that a building permit will not be issued for a lot in a subdivision that contain lots less than 35,000 square feet in size. This code may restrict future development of the vacant lots in this plat which in turn would mean that this water system would not be depended upon to provide services for said lots. The only land use in Crestview Tracts #3 W.S.A. service area is for residential homes.

E. System Improvements

Crestview Tracts #3 W.S.A. does not anticipate any future capitalization needs. The system is in place and has no plans for expansion and the existing system will accommodate the additional hookups as specified in this document with minor modifications. Any required modifications will be made on a cash basis. Expenses will be limited to operation and maintenance. Contingency plans for emergency situations include arrangements with Water Systems and Pump Service, Ltd. (206-939-5859), a local contractor.

Since our facilities are already constructed, approved and no capital improvements are anticipated, we have no set time schedule for system improvements. Maintenance will be performed on a scheduled and "as needed" basis. Anticipated needs for the next five (5) years are limited to routine maintenance. Our reservoir is completely enclosed so we have no concern regarding an open reservoir. We maintain an account balance at the bank of several thousand dollars to accommodate our maintenance needs or for pump replacement, etc.

F. Conservation Element

In the event of short term problems with water supply, our water shortage response plan consists mainly of a phone committee which notifies all water certificate owners of the problem and what action they should take. Whether or not the situation is minor (temporary shut-down of the system for reservoir cleaning, mainline repair or general maintenance), or a serious problem (seasonal drought) all customers are made aware of the condition and are expected to do their part to alleviate it. With few exceptions we've been victorious in moving people to use common sense and smart water conservation habits during seasonal drought periods.

Long term water conservation has been a goal of Crestview Tracts #3 W.S.A. ever since it's inception. As a matter of fact it may be difficult for our certificate owners to conserve an additional 8% over the decade of the 1990's. For several years we have been successfully implementing and observing most of the techniques suggested in the UTRC conservation checklist and already have made great strides toward our water conservation goals. To illustrate this, please note the following figures which show our system usage since we have been keeping accurate records:

1985	576,810	c.f.
1986	582,766	c.f.
1987	596,116	c.f.
1988	525,975	c.f.
1989	453,557	c.f.
1990	445,126	c.f.
1991	424,730	c.f.
1992	479,024	c.f.

From our peak usage in 1987 we have conserved 171,386 c.f./year through 1991 or 29%. Through 1992 our conservation has been 117,092 c.f./year or 20%. 1992 is a bad year to measure because one of the contractors for the City of Kent, while doing extensive construction in our area on the Kent Springs Water Main Project, caused several major leaks in our mains that went unrepaired for several weeks.

THE UTRC REVIEW CHECKLIST

Internal Measures

Crestview Tracts #3 W.S.A. has utilized meters ever since the system was built. However, we have only been faithfully recording monthly consumption by household since 1985. The master source meter was also installed that same year. The master meter has been a tremendous aid in identifying leaks in the main and consequently finding and fixing those leaks. Consistent reading of the household meters has greatly helped the Board of Directors to identify "problem" consumers and publishing consumption figures has held those individuals responsible for their actions. We think that by doing even more of this and in greater detail we can conserve another 1% to comply with the goals of the South King County Coordinated Water System Plan.

In 1989 we set up new rates that encourage water conservation. We feel this was the largest single factor in bringing down water consumption in our system. The method we implemented was the inverted block rate. We feel that additional savings of up to 5% may be made over the next several years by either increasing these "penalty" rates or instituting one of your other suggested methods (seasonal surcharges, goal billing or frequent water billing) during high usage periods.

We watch for water leaks very closely although a more regular and systematic program of auditing for unaccounted-for water loss may be instituted and a savings of up to 1% may be made in this area.

We have no reason to require pressure reducing valves on our service connections since our pressure is fairly uniform throughout the system at 40 to 45 psi. We also don't feel that a system the size of Crestview Tracts #3 W.S.A. has the resources to conduct technical studies in attempts to improve our efficiencies. The

Board however does endeavor to stay informed about the workings of the system and any ways we may be able to improve it.

External Measures - Substantive

We are a small system that has been operating for many years, serve homes that have been in place for a long time, don't anticipate serving any new homes or having any new construction in our area, and we do not serve any industry, parks or agricultural operations. Fittingly, most of the items mentioned in this part of the checklist shouldn't apply to us.

One of the checklist's suggestions does present an opportunity to increase our efficiency by up to 1% over the next few years. That is the idea of providing retrofit kits to the certificate owners that include water-saving devices that may be used or installed in their homes; i.e. faucet aerators, showerhead flow restrictors, leak detection tablets and, objects to place in toilet tanks that displace water and therefore reduce the amount of water per flush.

External Measures - Delivery

Here again, considering the size of our system, the only suggestion in this category that applies to our operation is the performance of routine audits of residential water use. As mentioned previously in this report, we do monitor this on a regular basis but there is probably room for improvement as indicated under the heading of a systematic program of auditing for unaccounted-for water loss. These two categories are very similar in our view but share a potential for additional water conservation by our association.

**UTRC REVIEW CHECKLIST:
WATER COMPREHENSIVE PLAN CONSERVATION ELEMENTS
FOR GROUP A WATER SYSTEMS**

11236

Crestview Tracts
#3 W.S.A. _____ Water System
Located in or Closest to South King County
Coordinated Water System Planning Area (CWSP)

Required Conservation % Goal per CWSP
4 % Reduction in water use by 1995
8 % Reduction in water use by 2000

CONSERVATION ELEMENT OPTIONS	DESCRIPTION	HOW UTILITY WILL IMPLEMENT THIS ELEMENT (PAGE # IN PLAN)	ESTIMATED SAVINGS (% PER CAPITA)
INTERNAL MEASURES			
Require meters a. Master source meter b. Individual source meter	Necessary for accurate water use data planning and implementation of other measures such as season pricing, consumption history, customer audits, etc.	5	- 0 -
Provide a bill showing consumption history	Bill format showing the percentage of increase or decrease in water use compared to the same period in the previous year.	5	- 1% -
Set Rates to encourage conservation: a. Seasonal surcharges b. Inverted block rates c. Goal billing d. Frequent water billing during periods of high water demand e. Other	- Seasonal surcharges that increase the unit price of water during the high use period. - Charging an increased amount for increasing increments of water used. - Offering an incentive to customers who reduce their water use by some amount determined by the water system. - Receiving bills frequently will focus customer attention on water costs and water conservation.	6	- 5% -
Detect unaccounted for water/leak by a water system audit	A regular and systematic program should be conducted to find and repair leaks in system mains and laterals and a regular program of testing and repairing meters. Compares the amount of water taken from the system's source of supply to the amount of water sold. If more water is supplied by the system than is sold by the system, leaks, unmetered uses, and/or meter malfunctions are occurring.	6	- 1% -
Require pressure reducing valves on service connections.	Reduce pressure to 45 psi	6	- 0 -

Conduct technical studies	Research of other conservation methods which could include: redesigning storage systems; more efficient methods of collecting water from the existing source; using evapotranspiration information to improve storage and transport of water; development of a system for using treated effluent that meets state and local regulations; and audits of commercial/industrial customer's water use for each Standard Industrial Classification (SIC) grouping, etc.	11236 6	- 0 -
Other			- 0 -

EXTERNAL MEASURES - SUBSTANTIVE

Require or encourage large scale irrigation (Nurseries/Agriculture)	Applies current technology to water use practices of large urban irrigation operations such as nurseries and parks.	6	- 0 -
Require or encourage recycling/reuse	Based on DOH guidelines, water may be recycled for manufacturing processes, industrial cooling, power plant cooling, and for municipal irrigation. Other uses (specify).	7	- 0 -
Provide single family/multi-family retrofit kits	Distribute kits containing inexpensive, easily installed, water-saving devices to single-family residential homes and the owners and managers of apartment buildings and condominiums. These kits commonly include: - Toilet dams, bags or bottles that displace water in the toilet tank to reduce the amount of water used per flush, - Flushing devices for use on standard gravity flush toilets that give the customer the option of a low water consumption flush, - Toilet tank leak detection dye tablets, - Showerhead flow restrictors or low flow showerheads that reduce the amount of water that flows through the showerhead each minute, - Faucet aerators that mix air into the flow of water thereby directing and decreasing the flow, - Water conservation literature.	7	- 1% -
Finance plumbing fixture replacement (Utility financed retrofit)	Installation of water efficient toilets in existing residences and commercial/industrial facilities through one of the following programs: a. Providing fixtures at no cost. b. Offering a rebate to customers who purchase efficient fixtures. c. Arranging for suppliers to provide fixtures to the customers at cost. d. Financing customers' purchases of efficient plumbing fixtures through the use of zero-interest or low-interest loans.	7	- 0 -

Provide incentives to promote efficiency in new construction	Such as a sliding scale hook up fee supporting local land use. Water users who do not install water efficient fixtures and landscapes can be charged more for their hook up, thus keeping the revenue impact of sliding scale fees neutral. Other methods (specify).	11236 N/A	- 0 -
Require or encourage low water use landscaping (Landscape management/playfields)	<p>Low water use landscaping consists of the following elements:</p> <ol style="list-style-type: none"> a. Soil improvements b. Appropriate use of turfgrass c. Efficient irrigation d. Use of mulches e. Selection of low water use plants f. Planning and design g. Appropriate maintenance <p>Water users can be encouraged to pursue low water use landscaping by:</p> <ol style="list-style-type: none"> 1. Providing information to the public on the potential savings and water quality benefits of low water use landscaping. 2. Providing technical assistance to interested residents, commercial landscapers, and nurseries on how to improve the efficiency of their water use. 3. Offering connection charge discounts to the builders of new homes that have installed low water using landscapes. 4. Sponsoring a demonstration garden at a public or private building. 5. Developing a plant list with the help of county extension agents, master gardeners, botanists, native plant organizations and nursery owners. 6. Offering an incentive, such as a rebate, for customers to remove part of their lawn and replace it with low water using plants and ground cover. 7. Developing an award program for the creators of residential and commercial low water landscapes. 8. Working with the local land use/planning body to create low water use landscaping guidelines or ordinances. 	7	- 0 -
Other			- 0 -
EXTERNAL MEASURES - DELIVERY			
Provide purveyor assistance/customer assistance	Water systems may provide assistance to other purveyors of water for their development and implementation of conservation plans. Water systems may provide assistance to customers interested in improving the efficiency of their water use.	7	- 0 -

<p>Perform routine or regular audits of residential water use</p>	<p>A audit of water use in residential buildings assists water users in improving their water use efficiency. After analyzing the customer's water use, a trained water system staff person can offer information about different conservation measures that suit the customer's needs.</p>	<p style="text-align: right; font-size: 2em;">11236</p> <p style="text-align: center;">7</p>	<p style="text-align: center;">- 0 -</p>
<p>Perform routine or regular audits of commercial and industrial customer's water use</p>	<p>Work directly with commercial and industrial customers to develop methods of reducing water use and monitoring the reduction in water use.</p>	<p style="text-align: center;">7</p>	<p style="text-align: center;">- 0 -</p>
<p>Promote the Conservation Program by Public Education</p> <p>Goals:</p> <ul style="list-style-type: none"> - Promote the general concept of water conservation and the reasons to pursue water conservation. - Educate adults about the need for water conservation. - Increase awareness of local water resources and encourage water conservation practices by children. 	<p>Objectives:</p> <ul style="list-style-type: none"> - Employee outreach: Training all water system employees about water conservation so that they will be prepared to do public outreach. - Theme shows and fairs: Participation in theme shows or fairs. - School outreach: Activities include school presentations, preparation of new curriculum material, distribution of new and existing materials, and tours of water utility facilities. - Speakers bureau: Actively seeking speaking opportunities and making speakers available to a wide cross-section of service, community, and other groups on water conservation. 	<p style="text-align: center;">7</p>	<p style="text-align: center;">- 0 -</p>
<p>Other</p>			<p style="text-align: center;">- 0 -</p>
<p>TOTAL OVERALL SAVINGS FROM CONSERVATION MEASURES</p>			<p style="text-align: center;">- 8% -</p>

G. Satellite System Management Plan

We have no satellite management program. This does not pertain to Crestview Tracts #3 W.S.A. because we serve only this plat and are a self-contained entity. There are no smaller water systems within our boundaries.

K. Improvement Schedule

Crestview Tracts #3 W.S.A. does not need a construction schedule or financing plan since we were built over 30 years ago and have been in operation ever since. We borrowed money from Seafirst Bank when the association first purchased the system. We prefer to operate through current cash flow and membership assessments, but would resort to financing again when and if necessary.

L. Neighboring Purveyor Issues

Crestview Tracts #3 W.S.A. has not identified any issues with regards to other water utilities in our area, nor have we entered into any agreements with them or had any boundary disputes. The Derbyshire water district to our east and the Crestview Tracts #2 district to our west are very similar in design and age to our own. We have no interties with either of these systems and do not plan to construct interties in the future. The only comments from neighboring jurisdictions are regarding general land use questions concerning our general area. In general, we have had no comments regarding our association's business.

M. Developer Extension Guidelines

As previously mentioned in this document, Crestview Tracts #3 W.S.A. has no plans for extension of any kind and no reason to do so.

N. Consistency With Other Plans and Policies

This plan is consistent with the King County Comprehensive Plan, the Soos Creek Community Plan and the Coordinated Water Supply Plan since our system and others like it have been in place for many years and the above mentioned plans have been developed around and to include it. Further, our system adopts the water conservation goals of the CWSP. As mentioned previously in this plan, Crestview Tracts #3 Water Supply Association has no plans for future expansion of our system or service area.

III. C. Existing Zoning

All the land area within the boundaries of our service area is currently zoned RS 15,000.

D. Community Planning Area Boundaries

Our water system lies wholly within the boundaries of the Soos Creek Community Planning Area.

G. Critical Elevations and Pressure Zones

The service area of Crestview Tracts #3 W.S.A. has very little elevation change within our boundaries (+/- 20') and therefore don't experience any critical elevations and pressure zones. The water pressure remains fairly constant throughout the system.

H. Storage and Pumping Facilities with Capacities

Reservoir - 32,000 capacity, concrete construction, partially subterranean.

Pressure Tank - 1,000 gallon capacity, horizontal steel, 2" galvanized manifold with relief valve.

Well Pump - 4" series, Sta-Rite, 5 HP, model #40P4J92S.

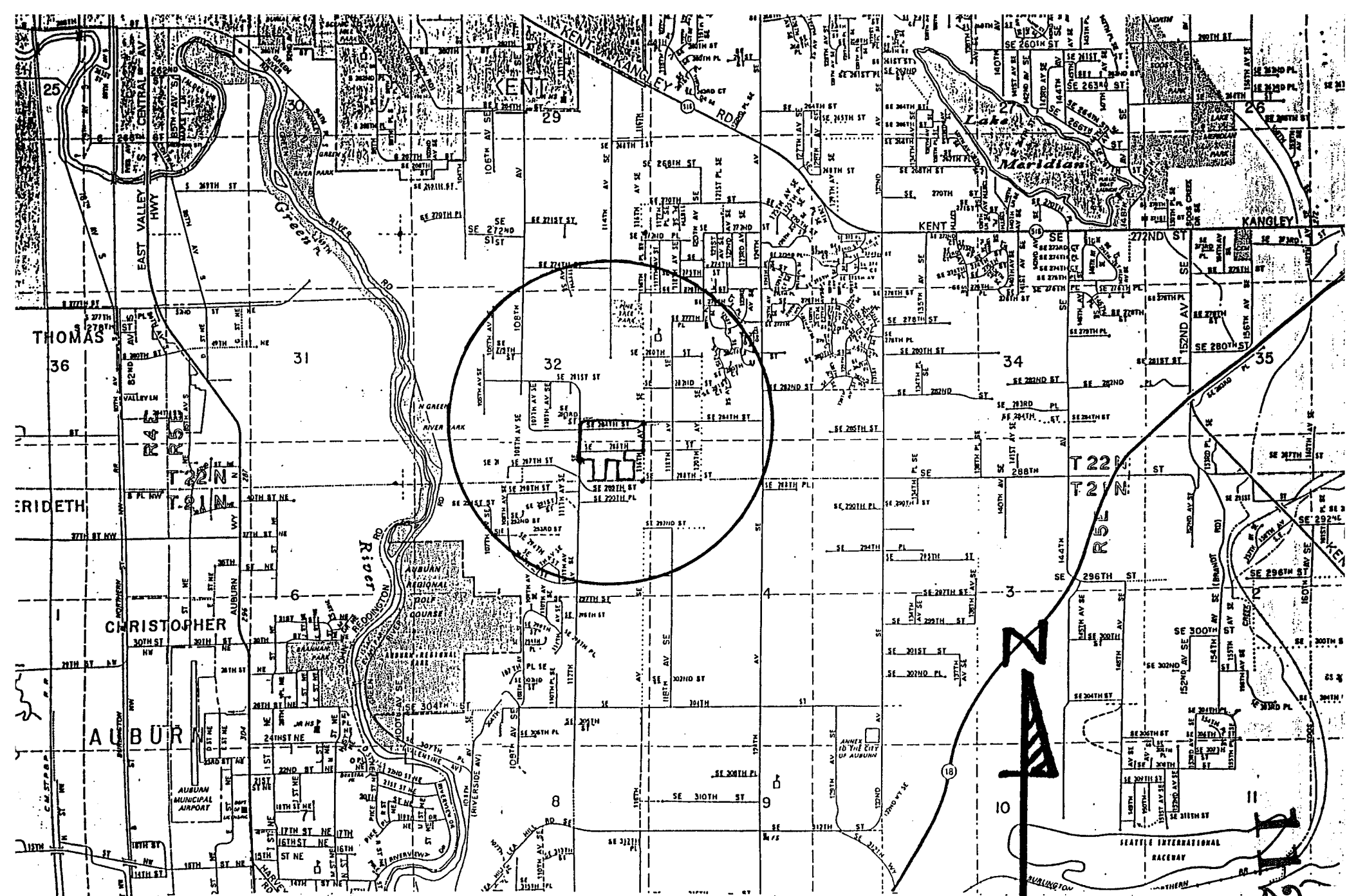
Supply Pumps - On line - 2 HP Berkley submersible, model #4CLM10, pumps 45 gpm @ 55 lbs. and 29 gpm @ 75 lbs. Backup - 7-1/2 HP Jacuzzi centrifugal, model #75PL1¹/45B.

Air Control - Whitewater Air Rite #610 automatic air volume control.

Master Water Meter -

I. Community Plan WSA Boundary

The identification of the Water Service Area Boundary is not applicable in the case of Crestview Tracts #3 W.S.A.



VICINITY MAP - MAP A - EXISTING AND PROPOSED SERVICE AREA
 CRESTVIEW TRACTS #3 WATER SUPPLY ASSOCIATION
 LOCATED IN THE SE 1/4 OF THE SE 1/4 S32, T22N, R5E, W.M.

SCALE: 2" = 1 MILE

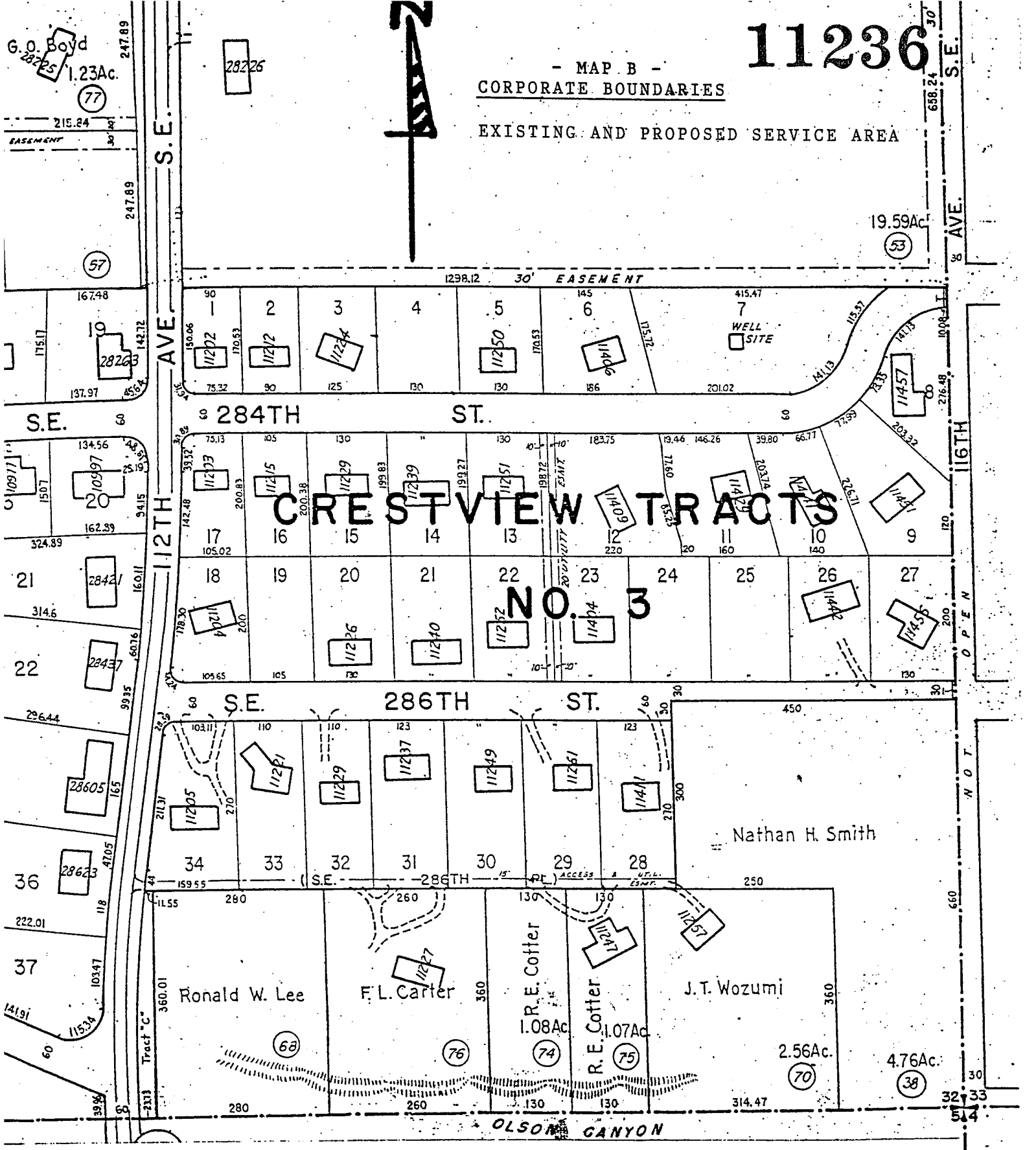
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(MAD-A)

11236

- MAP B - CORPORATE BOUNDARIES

EXISTING AND PROPOSED SERVICE AREA



LEGEND

- BUILDING APPROX. STORIES HOUSE NUMBER
- RAILROAD
- MAIN THOROUGHFARE
- TAX LOT NUMBER

SE 1/4 OF THE SE 1/4, S32, T22N, R5E W.M
KING COUNTY, WASHINGTON

CRESTVIEW TRACTS #3 WATER SUPPLY
ASSOCIATION SERVICE AREA.

SCALE 1" = 200'




- MAP F -
CRESTVIEW TRACTS #3 WATER SUPPLY ASSOC.

EXISTING MAINS

- * No Proposed Mains
- * No Hydrants

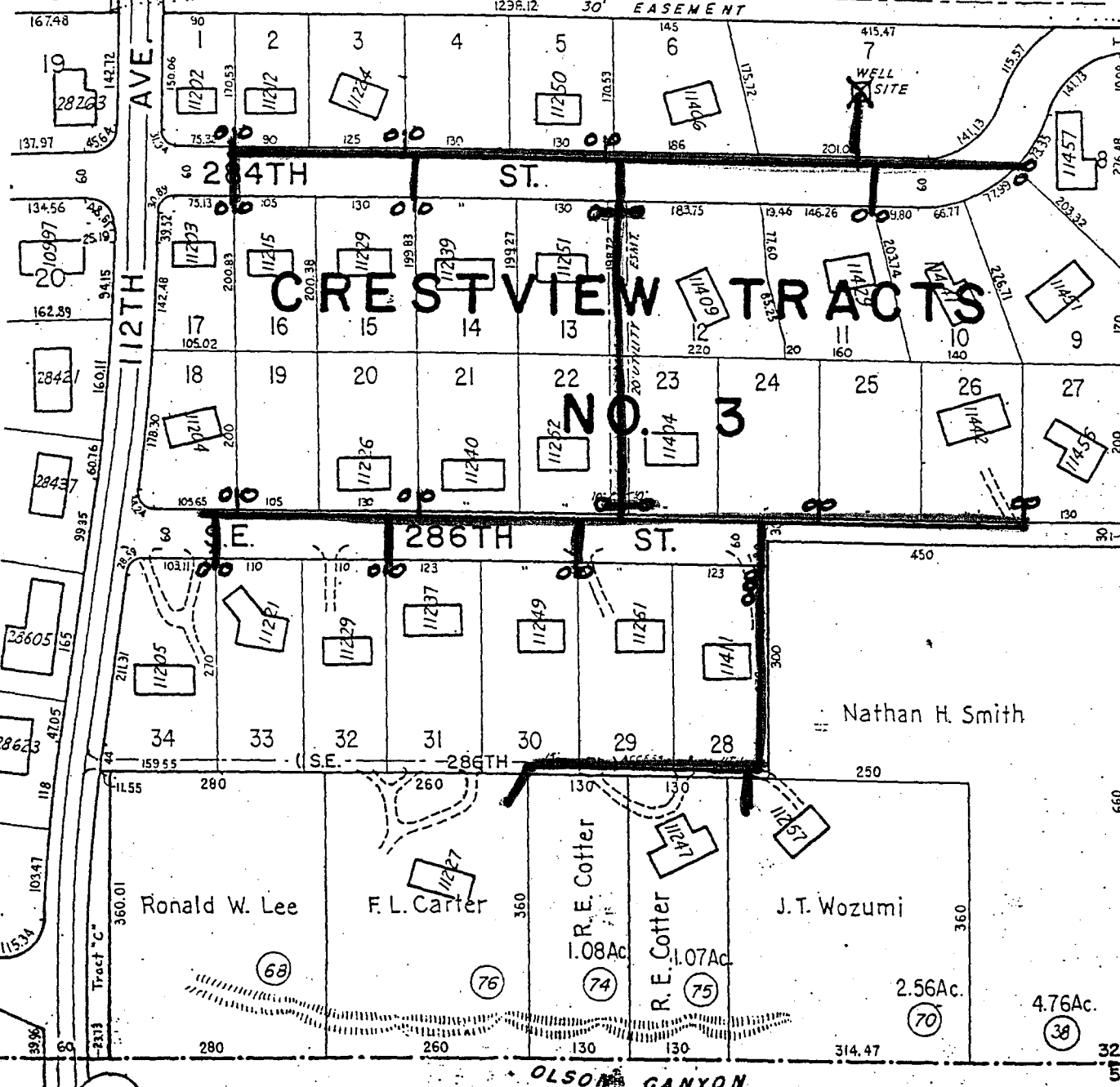
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LEDGEND

- Scale ... 1" = 200'
 ... Meters
 ... Well Site & Pumphouse
 ... Mains (2-1/2" O.D.)

4.26Ac.
 56
 1.23Ac.
 77
 247.89
 247.89
 57
 167.48
 10
 28263
 137.97
 60
 134.56
 109.97
 20
 162.89
 28421
 18
 28437
 3605
 165
 28623
 118
 4705
 115.34
 10347
 39.96
 66
 112TH AVE S.E.
 661.02
 30
 30
 30

30' EASEMENT
 658.24
 S.E.
 19.59Ac.
 53
 36 AVE.
 116TH
 276.48
 120
 170
 200
 200
 30
 30
 660
 30
 32' 33'
 514
 NOT
 NOT
 OPEN



VOLATILE ORGANIC CHEMICAL REPORT

Customer : Crestview Tracts #3/Patricia Surr
Address : 11237 SE 286th Bill to: same
City : Kent
State ZIP : WA ,98031
County : King

Charge: \$260

WATER SAMPLE INFORMATION FOR VOLATILE ORGANIC CHEMICAL ANALYSIS
NON COMPOSITED

System Name : Crestview Tracts #3 Water Supply Assn
System ID Number : 16231Y Lab Number : 5405958
DOH Source Number : S01 Date Collected : 4-26-92
Source Type : well Date Tested : 4-29-92
County : King EPA Method : 524.2

RESULTS OF ANALYSIS BY EPA METHOD 524.2

Measurement of Purgeable Organic Compounds in Water by Capillary Column
Gas Chromatography/Mass Spectrometry

Analyst : Nancy
Data File : >3D29H

Date of Report :
Supervisor's Initials :

Spostar
CO

Regulated Compounds

EPA Code #	Compound Name	* MCL(µg/l)	**Amount (µg/l)
2976	VINYL CHLORIDE	2	ND
2977	1,1-DICHLOROETHYLENE	7	ND
2981	1,1,1-TRICHLOROETHANE	200	ND
2982	CARBON TETRACHLORIDE	5	ND
2990	BENZENE	5	ND
2980	1,2-DICHLOROETHANE	5	ND
2984	TRICHLOROETHYLENE	5	ND
2969	P-DICHLOROBENZENE	75	ND

* Maximum Contaminant Level

** NOTE: An amount of ND µg/l indicates that the true concentration is less than the method detection limit of 0.5 µg/l.

RESULTS OF ANALYSIS BY EPA METHOD 524.2 (continued)

11236

Lab Number : 5405958

Data File : >3D29H

Unregulated Compounds
Monitoring Required

EPA Code #	Compound Name	*Amount (µg/l)
2210	CHLOROMETHANE	ND
2214	BROMOMETHANE	ND
2216	CHLOROETHANE	ND
2964	METHYLENE CHLORIDE	ND
2979	T-1,2-DICHLOROETHYLENE	ND
2978	1,1-DICHLOROETHANE	ND
2416	2,2-DICHLOROPROPANE	ND
2380	CIS-1,2-DICHLOROETHYLENE	ND
2410	1,1-DICHLOROPROPENE	ND
2983	1,2-DICHLOROPROPANE	ND
2408	DIBROMOMETHANE	ND
2991	TOLUENE	ND
2985	1,1,2-TRICHLOROETHANE	ND
2987	TETRACHLOROETHYLENE	ND
2412	1,3-DICHLOROPROPANE	ND
2989	CHLOROBENZENE	ND
2986	1,1,1,2-TETRACHLOROETHANE	ND
2992	ETHYL BENZENE	ND
2995	M/P-XYLENE	ND
2997	O-XYLENE	ND
2996	STYRENE	ND
2993	BROMOBENZENE	ND
2414	1,2,3-TRICHLOROPROPANE	ND
2988	1,1,2,2-TETRACHLOROETHANE	ND
2965	O-CHLOROTOLUENE	ND
2966	P-CHLOROTOLUENE	ND
2967	M-DICHLOROBENZENE	ND
2968	O-DICHLOROBENZENE	ND

* NOTE: An amount of ND µg/l indicates that the true concentration is less than the method detection limit of 0.5 µg/l.

RESULTS OF ANALYSIS BY EPA METHOD 524.2 (continued)

11236

Lab Number : 5405958

Data File : >3D29H

*Unregulated Compounds
Monitoring Required*

<u>EPA Code #</u>	<u>Compound Name</u>	<u>*Amount (µg/l)</u>
2212	DICHLORODIFLUOROMETHANE	ND
2218	TRICHLOROFLUOROMETHANE	ND
2430	BROMOCHLOROMETHANE	ND
2994	ISOPROPYLBENZENE	ND
2998	N-PROPYLBENZENE	ND
2424	1,3,5-TRIMETHYLBENZENE	ND
2426	TERT-BUTYLBENZENE	ND
2418	1,2,4-TRIMETHYLBENZENE	ND
2428	SEC-BUTYLBENZENE	ND
2030	P-ISOPROPYLTOLUENE	ND
2422	N-BUTYLBENZENE	ND
2378	1,2,4-TRICHLOROBENZENE	ND
2248	NAPHTHALENE	ND
2246	HEXACHLOROBUTADIENE	ND
2420	1,2,3-TRICHLOROBENZENE	ND

Trihalomethanes (THM)

2941	CHLOROFORM	ND
2943	BROMODICHLOROMETHANE	ND
2944	CHLORODIBROMOMETHANE	ND
2942	BROMOFORM	ND

* NOTE: An amount of ND µg/l indicates that the true concentration is less than the method detection limit of 0.5 µg/l.

11236



STATE OF WASHINGTON
 DEPARTMENT OF HEALTH
 PUBLIC HEALTH LABORATORIES
 OFFICE OF RADIATION LABORATORIES
 1610 N.E. 150TH ST., SEATTLE, WA 98155-7224

Please Print Plainly
 USE HEAVY PENCIL

WATER SAMPLE INFORMATION FOR RADIATION ANALYSES

LAB. NUMBER <u>1 0 1 0 3 5 2 4</u>	SYSTEM NAME: <u>Crestview Tracts #3 Water Sup.</u>	SYSTEM I.D. NO. <u>1 1 2 3 7 Y</u>	SYSTEM CLASS (circle one) <u>A</u> <u>B</u>	SOURCE NUMBER
Is this follow up of a previous out of compliance sample? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Assn. <input type="checkbox"/>			COUNTY <u>King</u>	
If yes, what was the laboratory number of the previous sample? _____			IF SAMPLE WAS DRAWN FROM DISTRIBUTION SYSTEM IT WAS COLLECTED FROM SYSTEM AT: (ADDRESS)	
SOURCE TYPE: <u>1. SURFACE</u> <u>3. WELL</u> <u>2. SPRING</u> <u>4. PURCHASE</u>	IF SOURCE IS LAKE OR STREAM, ENTER NAME			

DATE OF FINAL REPORT
2/23/92

SEND REPORT TO: (PRINT FULL NAME & ADDRESS)

(Patricia O. Surr)
 NAME
Crestview Tracts #3 Water Supply Ass
11237 S.E. 285th
 STREET
Kent WA 98031-8723
 CITY WA ZIP CODE
 TELEPHONE: (206) 854-8289
 AREA CODE 854-1832 (BUS.)

	DATE COLLECTED	DATE RECEIVED
<u>1</u>	<u>2/10/92</u>	<u>2/11/92</u>

LABORATORY REPORT (DO NOT WRITE BELOW THIS LINE)

ANALYSES	LESS THAN	RESULTS pCi/L	*MCL pCi/L	COMPLIANCE		CHEMIST INITIALS
				YES	NO	
Gross Alpha	<u><</u>	<u>3.0</u>		<input checked="" type="checkbox"/>		<u>MS</u>
Uranium						<u>D</u>
Gross Alpha minus Uranium			15			
Radium-226			3			
Radium-228						
Radium-226 Plus Radium-228			5			
Radon-222						
Gross Beta			50			
Strontium-89			80			
Strontium-90			8			
Cesium-134			80			
Iodine-131			3			
Tritium			20,000			

LABORATORY SUPERVISOR
 (Name or Initials)

DR

QUALITY ASSURANCE SUPERVISOR
 (Name or Initials)

W. H. ...

CHARGE: \$ 45.00

REMARKS:

*MCL is the maximum contaminant Level Allowed

Please Print Plainly
 USE HEAVY PENCIL
 DO NOT WRITE IN SHADED AREAS

Date Collected: 6-24-92
 State of Washington
 Department of Health
 DIVISION OF LABORATORIES
 1610 N.E. 150th St., Seattle WA 98156-7224
 (206) 361-2898

11236 SEE BACK FOR INSTRUCTIONS

WATER SAMPLE INFORMATION FOR INORGANIC CHEMICAL ANALYSES

LAB. NUMBER 5113788	DATE RECEIVED 6/25/92	DATE COLLECTED 06.24.92	COLLECTED BY JUDY JAMES Telephone: 206-752-7354
SYSTEM I.D. NO. 162314	SYSTEM NAME OCEVIEW TRACTS #3 WATER SUPPLY ASSOCIATION	SYSTEM CLASS (circle one) 1 2 3 4	COUNTY KING
SOURCE TYPE 1. Surface <input checked="" type="checkbox"/> 3. Well 2. Spring <input type="checkbox"/> 4. Purchase <input type="checkbox"/>	SOURCE NO. (Well No.) 1	IF SOURCE IS LAKE OR STREAM ENTER NAME	FEE SCHEDULE FEE SCHEDULE IS AVAILABLE FROM THIS DEPARTMENT.
THIS SAMPLE WAS TAKEN <input checked="" type="checkbox"/> Before Treatment <input type="checkbox"/> After Treatment	IF SAMPLE WAS DRAWN FROM DISTRIBUTION SYSTEM IT WAS COLLECTED FROM SYSTEM AT: (Address) 11770 SE 24TH		PARTY TO PAY FOR FEE FOR SERVICE TESTING Signature (Required) Patricia D. Vura (Print Full Name & Address) 11770 SE 24TH Street KING WA 98148 City WA Zip Code Telephone: (206) 752-1854 Area Code
IF TAKEN AFTER TREATMENT WAS IT _____ FILTERED _____ FLUORIDATED _____ CHLORINATED _____ WATER SOFTENER: TYPE USED _____			
REMARKS: (Water quality problems, address for additional copies, etc.)			

LABORATORY REPORT

(DO NOT WRITE BELOW THIS LINE)

TESTS	MCL	LESS THAN	RESULTS	UNITS	Compliance		CHEMIST INITIALS
					YES	NO	
arsenic As	0.05*	<	0.010	mg/l	✓		CKW
barium Ba	1.0*	<	0.10	mg/l	✓		PO
cadmium Cd	0.01*	<	0.002	mg/l	✓		PO
chromium Cr	0.05*	<	0.010	mg/l	✓		PO
copper Cu	0.3	<	0.10	mg/l	✓		PO
lead Pb	0.05*	<	0.002	mg/l	✓		CKW
manganese Mn	0.05*	<	0.010	mg/l	✓		PO
mercury Hg	0.002*	<	0.0005	mg/l	✓		JDU
molybdenum Mo	0.01*	<	0.005	mg/l	✓		CKW
nickel Ni	0.05*	<	0.010	mg/l	✓		PO
nitrate NO3			8	mg/l			PO
nitrogen N			67	mg/l AS CaCO3			PO
conductivity	700		170	Micromhos/cm 25° C	✓		PO
turbidity	1.0*		0.1	NTU	✓		PO
color	15.0	<	5.0	Color Units	✓		PO
fluoride F	2.0*	<	0.2	mg/l	✓		JDU
nitrate NO3	10.0*		0.3	mg/l	✓		KK
chloride Cl	250	<	5	mg/l	✓		KK
sulfate SO4	250			mg/l			
total dissolved solids TDS	500			mg/l			
copper Cu	1.0	<	0.2	mg/l	✓		PO
zinc Zn	5.0	<	0.2	mg/l	✓		PO

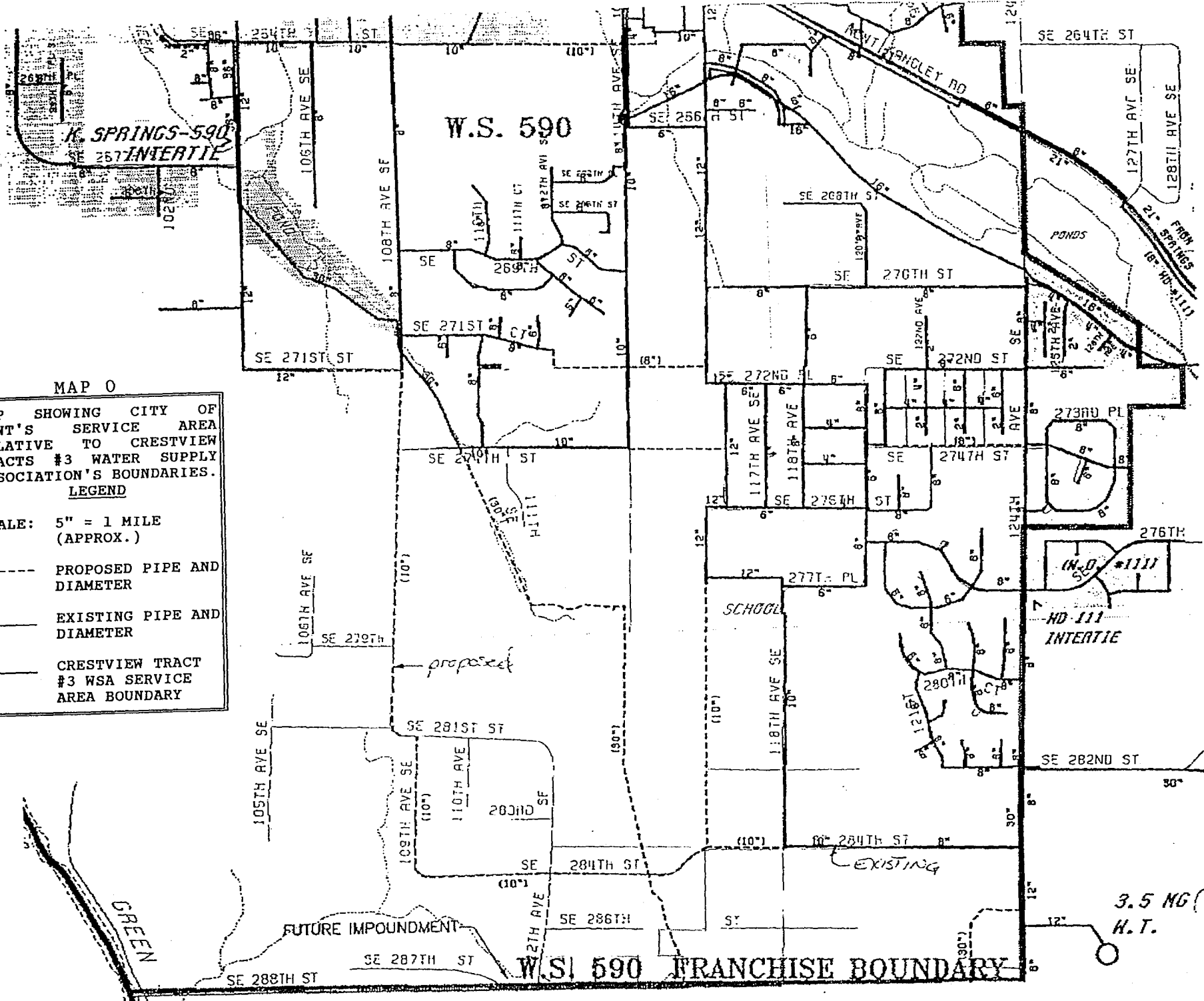
DATE OF FINAL REPORT:
7/9/92

LABORATORY SUPERVISOR
 (Name or Initials)
 PO
 CHARGE: #225
 REMARKS: ✓ CKW
 PP. 1/4
 15-00

*MCL is the Maximum Contaminant Level Allowed * Primary Standard

11236

Appendix



MAP 0

MAP SHOWING CITY OF KENT'S SERVICE AREA RELATIVE TO CRESTVIEW TRACTS #3 WATER SUPPLY ASSOCIATION'S BOUNDARIES.

LEGEND

SCALE: 5" = 1 MILE (APPROX.)

----- PROPOSED PIPE AND DIAMETER

————— EXISTING PIPE AND DIAMETER

————— CRESTVIEW TRACT #3 WSA SERVICE AREA BOUNDARY

11236

DERBYSHIRE SCENIC ACRES
WATER ASSN.
11657 SE. 28th A
KENT, WA 98031

11236

To Whom It May Concern:

We have read the part of Crestview Tracts #3 Water Supply Association's Revised Comprehensive Plan regarding neighboring water conveyance issues. Derbyshire Water Assn. has no disagreement with the text of the plan. We have never entered into any agreements with Crestview Tracts #3 and have never had nor do we ever intend to have any business relationships. We have also never had nor currently have any boundary disputes.

Derbyshire Water Association is an 80 acre plat and is a self contained entity.

Dated Sept 10, 1993

Jack Meredith

Jack Meredith, Secretary
Derbyshire Scenic Acres
Water Assn.

Tel: 206-631-1799

11236

Crestview West Water Company Incorporated
P.O. Box 194
Kent, Washington 98035-0194

September 16, 1993

To whom it may concern,

The Crestview Tracts #2 Board of Directors have read the Crestview Tracts #3 Water Supply Association Comprehensive Plan section L Neighboring Purveyor Issues and have no disagreement with this section as presented to us in August, 1993.

The two above mentioned water systems have entered into no business agreements or relationships of any kind. There have been no issues, concerns, or problems between us that we are currently aware of.

Mark Gould



Secretary Treasurer
Crestview West Water Co. Inc.