

3/17/93

ILLINOIS POLLUTION CONTROL BOARD
DOCKET SHEET

Page 2

CASE NUMBER
CASE NAME:

PCB 90-187
Herman W. Presque v. City of Sycamore

CLOSED: 3/11/93

FILING FEE:

COUNTY: DeKalb

HEARING OFFICER: Medint, M.

CASE TYPE: W-E, Citizens

DATE FILED: 10/16/90 ✓

AGENDA DATE:

STATUTORY DECISION DATE:

NEWSPAPER NOTICES: 05/17/91

08/14/91

PETITIONER/
COMPLAINANT:

Jack C. Slingerland
Gallagher, Klein and Brady
114 West State Street
Sycamore IL 60178
815/985-5141

RESPONDENT:

Peter Thomas Smith
207 West State Street

Sycamore IL 60178
815/895-4591

INTERVENOR:

AMICUS CURIAE:

- ✓ 10/29/90 Appearance on behalf of Respondent by Peter Thomas Smith;
Respondent's Motion for Extension of Time to File Motion to Strike
and Dismiss Complaint as Frivolous
- ✓ 11/29/90 Respondent's Motion to Dismiss Petition as Frivolous
- ✓ 12/19/90 Complainant's Response to Respondent's Motion to Dismiss

3/17/93

ILLINOIS POLLUTION CONTROL BOARD
DOCKET SHEET

CASE NUMBER
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PCB 90 187
Herman W. Prescott v. City of Sycamore

(fax copy)

- ✓ 12/20/90 Appearance on behalf of Complainant by Jack A. Blingerland
Response to Respondent's Motion to Dismiss (replacement for fax copy)
- ✓ 12/20/90 Order of the Board by J. C. Marlin: Respondent's motion to dismiss denied; matter is accepted for hearing
- ✓ 12/31/90 Hearing Officer notification of acceptance of case assignment
- ✓ 01/25/91 Hearing Officer Scheduling Order; hearing set for July 10 and 11, 1991, 10:00 a.m., DeKalb County Courthouse, Room 206, 133 West State Street, Sycamore, Illinois--CANCELLED July 3, 1991 at 2:35 p.m.
- ✓ 01/31/91 Hearing Officer report on pre-hearing conference held January 21, 1991
- ✓ 03/14/91 Respondent's Motion for Leave to File Answer and Affirmative Defenses
- ✓ 04/11/91 Order of the Board by J. C. Marlin: Complainant's Motion for Leave to File Answer and Affirmative Defenses granted
- ✓ 04/25/91 Respondent's Answer and Affirmative Defenses
- ✓ 05/02/91 Complainant's proof of service for Response to Respondent's First Request for Production of Documents and First Interrogatories
- ✓ 07/01/91 Copy of letter by Hearing Officer to parties regarding pre-hearing conference held June 14, 1991
- ✓ 07/05/91 Complainant's Motion to Continue
- ✓ 08/09/91 Copy of letter by Hearing Officer to parties; Hearing set for October 2 and 3, 1991, 10:00 a.m., Holmes Student Center, Lucinda and Normal Road, Room 505, DeKalb, Illinois--CANCELLED
- ✓ 03/24/92 Copy of letter by Hearing Officer to parties regarding setting a date
- ✓ 04/09/92 Order of the Board by M. Nardulli: Board on its own motion directs Hearing Officer to schedule this matter for hearing by May 11, 1992 and to complete hearings by July 15, 1992; failure to complete hearings according to this schedule will subject proceeding to dismissal for want of prosecution
- ✓ 04/28/92 Hearing Officer Scheduling Order; Hearing set for June 2 and 3, 1992, 10:00 a.m., Sycamore City Hall, Council Chambers, 539 DeKalb Avenue, Sycamore, Illinois
- ✓ 06/03/92 Hearing Officer report on hearings held June 2 and 3, 1992

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Complainant's Exhibits 1 through 5, 7 through 11 and 13
Respondent's Exhibits A, C through N

06/15/92 Petitioner and Respondent's stipulation with Petitioner's Exhibit 12

06/30/92 Transcript of hearing held June 2, 1992

07/01/92 Hearing Officer transmittal letter with Exhibit 12

07/08/92 Transcript of hearing held June 3, 1992

07/16/92 Brief and Closing Argument of Complainant

07/31/92 Brief for Respondent

08/07/92 Complainant's Reply to Brief of Respondent

10/29/92 Interim Order of the Board by R. C. Flemal. Board orders parties to submit document/stipulation regarding type of public water system used by Sycamore according to categories listed from Sec. 611.240 to the Board on or before November 16, 1992

11/13/92 Joint Stipulation of Facts

12/17/92 Opinion and Order of the Board by R. C. Flemal

12/28/92 Dissenting Opinion by B. Forcade

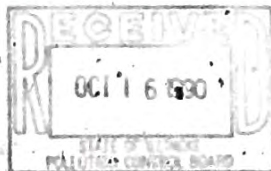
01/15/93 Complainant's Motion for Reconsideration; Brief in Support of Complainant's Motion for Reconsideration

01/29/93 Respondent's Response to Motion for Reconsideration

03/11/93 Supplemental Opinion and Order of the Board by R. C. Flemal: Complainant failed to show that the violation as alleged has occurred, complaint is dismissed; docket closed

PETITION

Original Do Not Remove



STATE OF ILLINOIS
POLLUTION CONTROL BOARD
100 W. RANDOLPH STREET, SUITE 11-500
CHICAGO, ILLINOIS 60601

NOTE: All items must be completed. If there is insufficient space to complete any item, additional sheets may be attached, specifying the number of the item you are completing. Once completed, you must file the original and nine copies with the Board.

FORMAL COMPLAINT

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

Herman W. Prescott
462 E. Exchange
Sycamore, IL 60178

(Insert your name(s) on
lines above).

Complainant,

City of Sycamore, Illinois
Svd Albrecht
Water Department Superintendent

(Insert names of alleged
polluter(s) on lines
above).

Respondent.

PCB

90-187
(For use by the Board)

1. Your Name, Address and Phone:

Herman W. Prescott
462 E. Exchange
Sycamore, IL 60178
Phone (815) 895-3715

2. Place where you can be contacted during normal business hours (if different from above):

Sycamore, IL 60178

Phone (815) 895-1715

3. Name and Address of Respondent (Alleged Polluter)

City of Sycamore, Illinois
Svd Albrecht

Water Department, Supt.

535 DeKalb Avenue
Sycamore, IL 60178

Phone (815) 895-2548
(if known)

4. Describe the type of business or activity which you allege (believe) is causing pollution (for example, manufacturing company, grain elevator, home repair shop)

City of Sycamore, Water Supply

5. List specific Sections of the Environmental Protection Act and/or Board regulations which you allege (believe) are being violated.

A. Section 653.604 of Subtitle F Public Water Supply

B. Section 654.403 of Subtitle F Public Water Supply

6. Describe the type of alleged pollution (for example air, odor, noise, water, drinking water, sewer back-ups, etc.) and location of the alleged pollution. Be as specific as possible in describing the pollution discharge or exposure.

An insufficient chlorine residual is being maintained in the Northeast quadrant of the city, and I believe the iron contents of the water supply to be above levels that are specified as acceptable in Subtitle F, Public Water Supply.

7. Describe the duration and frequency of the alleged pollution. Be as specific as possible about when you first noticed the alleged pollution, how frequently it occurs, and whether it is still continuing; include dates and/or times of day if available. The problem has existed since November 10, 1988

when we moved to Sycamore. The water had a terrible odor and was frequently extremely rusty. After five months of trying to get the problem solved by the City of Sycamore, the I.E.P.A. was contacted. On June 6, 1989, a Mr. Bret Hanson collected water samples from 462 E. Exchange and 157 Vista Terrace in Sycamore plus other sites. Iron and manganese contents in results of tests appear to be much higher than standards for finished water.

8. Describe any bad effects which you believe the alleged pollution has on human health, plant or animal life, or the environment. I am not sure what bad effects this problem has on health, plant or animal life or the environment. All I can say is that it is a most unpleasant odor much of the time and the rust in the water is terrible. I am also going to send a petition signed by some 85 people who are experiencing the same problems.

7. Continued

I began taking samples as suggested by I.E.P.A. from November 22, 1989 through January 22, 1990. Results show no improvement in chlorine residual except when hydrants are run. Tests were taken at various times of the day and are included in this report. As far as I know, the condition still exists.

Results of Total chlorine residual tests as referred
to in Section 7 of formal Complaint No. 104.

Date	Time	Reading
11-22	8:40	.015
11-23	9:25	.01
11-24	8:45	.015
11-25	11:00	.0
11-26	3:30	.03
11-27	5:15	.02
11-28	9:00	.015
11-29	11:45	.0
11-30	8:00	.015
12-4	9:20	.0
12-5	9:00	.0
12-6	8:00	.0
12-7	7:30	.0
12-8	9:15	.0
12-9	10:00	.03
12-10	3:15	.03
12-11	12:00	.015
12-12	9:45	.0
12-13	11:30	.0
12-14	8:00	.0
12-15	9:00	.0
12-16	8:30	.0
12-17	3:30	.0
12-18	8:00	.0
12-19	8:00	.015
12-20	1:15	.0
12-27	1:30	.0

Date	Time	Reading
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1-3-90	5:30	.4
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1-4	8:00	.0
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1-13	8:00	.0
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1-22	8:30	.4
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Readings taken at 480 Exchange St. Sycamore

11-28 -89	1:30	.0
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11-29	4:30	.0
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12-9	9:00	.3
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12-10	9:00	.3
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Reading taken at 486 Exchange St. Sycamore

11-28	1:45	.0
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9. Describe the relief you want the Board to grant. For example, an order that the Respondent: (a) shut down, permit a specific action, make a specific change in its operations, and/or pay a money penalty; the Board can order Respondent to pay you money, damages, attorney's fees or any out-of-pocket expenses which you incur by filing this complaint.

Require the City of Sycamore to supply the Northeast section of the city
a steady supply of chloring up to standards as spelled out in Title 45
Subpart F Public Water Supply and to conform to recommendations made
by the I.E.P.A. in a letter dated July 20, 1990. A copy of this letter is
submitted with this complaint.

10. State whether you know if there is any court or other forum in which you are or anyone else is suing or complaining against this Respondent for the same alleged pollution discharge or emission.

To the best of my knowledge, no one else is suing this respondent, but
I believe several other people have filed informal complaints with the
Illinois Pollution Control Board about the same problems.

11. CERTIFICATION (Optional but encouraged)

I, Herman W. Prescott, having read the above do hereby swear and attest that I have read the foregoing and I have filled out the above form accurately and to the best of my knowledge.

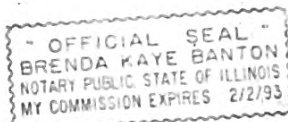
Herman W. Prescott

Subscribed to and Sworn
before me this 13th day
of October, 1990.

Brenda Kaye Banton
Notary Public

My Commission Expires

2/2/93



Sycamore, Illinois

October 11, 1990

State of Illinois

Pollution Control Board

100 W. Randolph St. Suite 11-500

Chicago, Ill. 60601

Dear Sirs,

After trying since November 1988 to get the City of Sycamore to do something about the quality of the water we are being furnished, it seems that this is the last step.

We have had many meetings with Officials of the City of Sycamore and The I.E.P.A.. All agree we have a problem but as of this date not much progress has been made on curing the situation that exists.

I am enclosing a copy of the latest correspondence from the I.E.P.A. to the City of Sycamore for your perusal. As far as I can tell the City of Sycamore has not complied with any of the recommendations as set forth by the I.E.P.A.

Sincerely,

Herman W. Prescott

Herman W. Prescott



July 20, 1990

Facility No. 037-0550
Sycamore -- DeKalb County

Mayor and Council
City Hall
535 DeKalb Avenue
Sycamore, Illinois 60178

Gentlemen:

During November 1989, this office received a copy of the enclosed petition. The petition was circulated during the period July 7th. to July 13th. 1989, to residents in the Northeast area of Sycamore by Mr. Prescott who resides at 462 East Exchange street. The petition requested relief from the frequent problems the residents experienced with the community water supply. (odor, rust which ruined many clothes, black colored water, sediment, etc.).

These complaints indicate that the water provided the northeast area of Sycamore was in violation of the Illinois Pollution Control Board's rules and regulations. Title 35, Subtitle F, Chapter 1, Section 601.10 states that owners and official custodians of a public water supply shall provide continuous operation and maintenance of public water supply facilities so that the water shall be assuredly safe in quantity, clean, adequate in quantity and of satisfactory mineral quality for ordinary domestic use.

The odor (smell of rotten eggs) mentioned by the petition is caused by hydrogen sulfide dissolved in the water. The black sediment is iron sulfide which results when hydrogen sulfide reacts with dissolved iron in the water.

Hydrogen sulfide is oxidized by chlorine, therefore, hydrogen sulfide is not present in the chlorinated water discharged to the distribution system from the Sycamore wells. The hydrogen sulfide is formed when nuisance bacteria grow in the distribution system and reduce the sulfates in the water to sulfides.

Chlorine also prevents the growth of sulfate reducing bacteria, therefore, odor and black water problems occur only in areas of the distribution system where the chlorine injected at the wells has been used up by oxidizing the iron which the corrosive well water dissolves from the unlined cast iron water mains. In Sycamore problems of rotten egg odor and black water are probably further restricted to areas which receive water from Well #1 because this is the only active well where the raw water contains an appreciable amount of dissolved sulfates.

July 20, 1990

The rust which the petition reports as being a problem is oxidized iron which is corroded from the walls of the cast iron mains and present in the raw water from the wells. It would be expected that residents in the Northeast area of Sycamore, which is adjacent to Well #1, would experience more severe rust problems than residents in some other parts of town. This is because Well #1 is the only active well where the raw water contains an excessive amount of dissolved iron.

The water quality problems are undoubtedly also more severe at Mr. Prescott's residence (462 East Exchange Street) because his service line is tapped into an unlined, cast iron, dead end main. The water does not circulate in a dead end main and therefore, if the dead end is not lined or constructed of corrosion resistant material, the dissolved iron buildup and loss of chlorine residual with resultant growth of nuisance bacteria occurs more quickly.

A meeting was held December 7, 1989 at the Sycamore Water Department office to review the above problems and outline a program to improve the water quality in the Northeast area of town. In attendance were, Mr. Albrecht, Water Superintendent, Mr. Johnson, Mayor, Council Members, and this writer.

During this meeting I recommended that, 1) Well #1, because of the dissolved sulfates and high dissolved iron, not be pumped to the system, except during emergencies, 2) injection of phosphate to reduce corrosion be continued, 3) the entire distribution system be flushed thoroughly each spring and fall and 4) that chlorine residuals in the Northeast area of Sycamore be monitored and when no or low residuals were found a hydrant be opened and run slowly to bring water with residual chlorine in from the wells.

Your operating records show that Well #1 is being used only sparingly, phosphate is being injected and we observed that some hydrants were flushed in March 1990. However, Mr. Albrecht reports that he is no longer opening hydrants in areas where the chlorine residual is low or absent. Apparently water from the flowing hydrants creates a problem of standing water where it discharges from the storm sewer which serves the Northeast Area of town. In addition Mr. Albrecht reports that several of the old hydrants in the Northeast Area failed after being opened and closed several times and have not been repaired.

During May and June 1990, this Agency measured the chlorine residuals at several locations in the Northeast Area of Sycamore. The results which are tabulated below show that there are still section of the water main where there is no or low chlorine residual. Title 35, Subtitle F, Chapter 11, Section 653.604 states that a minimum combined chlorine residual of 0.5 mg./l. shall be maintained in the distribution system.

Chlorine residual measurements

Location	5/8/90	5/23/90	5/31/90	6/6/90	6/14/90	6/26/90
Hyd. Walnut @ Exchange	0.6 Cl.					
Hyd. State @ Sabin	0.0 Cl.					
Hyd. Elm @ Kishwaukee	0.0 Cl.					
Hyd. Sabin @ Sycamore	0.5 Cl.					
Hyd. Walnut @ Sycamore	1.0 Cl.					
Hyd. Walnut @ State	0.7 Cl.					
Hyd. 465 Exchange	0.6 Cl.					
Ser. @ 485 Exchange		0.0 Cl.	0.1 Cl.	Tr. Cl.	0.3 Cl.	0.4 Cl.
Ser. @ 481 Exchange				0.1 Cl.		
Ser. @ 471 Exchange					0.0 Cl.	
Ser. @ 465 Exchange		0.3 Cl.	0.4 Cl.			0.2 Cl.
Ser. @ 462 Exchange		0.1 Cl.	0.2 Cl.	0.0 Cl.	0.1 Cl.	0.0 Cl.
Ser. @ 433 Exchange				0.4 Cl.		
Ser. @ 429 Exchange		0.6 Cl.	0.5 Cl.	0.3 Cl.	0.2 Cl.	0.6 Cl.

Almost all of the water obtained from wells in Northern Illinois tends to be corrosive and therefore, communities which use wells and where the distribution system consists of unlined cast iron mains usually find that to provide clean water to the residents they must follow a program which includes:

- a) supplying as much water as possible from the wells with the best raw water quality or providing treatment at the wells to remove hydrogen sulfide, iron, manganese, etc.

July 20, 1990

b) flushing every hydrant thoroughly each spring and fall to remove iron sediment from the mains.

c) regularly checking chlorine residuals and opening and flowing hydrants in areas where chlorine residual are found to be low. (Where an excessive amount of water must be wasted to maintain adequate chlorine residuals, that section of main should be replaced with corrosion resistant pipe.)

We therefore will expect that, 1) the drainage for the storm sewer which serves the Northeast part of Sycamore will be improved, 2) the broken hydrants on Exchange and Sabin streets will be repaired and 3) hydrants will be flowed as necessary to maintain a 0.5 mg./l. chlorine residual in the system or as an alternative, mains in areas of low or no chlorine residual will be replaced with corrosion resistant material.

Since it appears that an excessive amount of water may need to be wasted to maintain a chlorine residual in the unlined dead end main serving Mr. Prescott's residence, this dead end main should be replaced with corrosion resistant material or the services to the condominium complex should be retapped into the looped main which runs along the North side of Exchange Street.

We also recommend that the City pass an ordinance requiring that all future mains either be looped, cement lined, or constructed of corrosion resistant material.

We would further expect that the entire Sycamore distribution system would be flushed thoroughly each spring and fall and that Well #1 would be used as little as possible.

A summary of the chemical analysis and production data, available in our Rockford office for the Sycamore Community Water Supply, is enclosed.

If you have questions regarding the above please do not hesitate to contact our office in Rockford or Elgin, phone 815-987-7760 or 708-741-7771.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY


Leonard A. Lindstrom, P.E.
Regional Manager
Division of Public Water Supplies

1a1/LAL

cc: Sycamore City Clerk
Certified Operator, Mr. Albrecht
Council Members,
Mr. Herman Prescott

To the Mayor and Members of the City Council of Sycamore,

Whereas, We as citizens of the City of Sycamore have been subjected to putting up with Water Problems such as ODOR, RUST, (Which has ruined many clothes), Black Colored Water, Sediment, Low Water Pressure, Etc. for as long as Thirty years in some cases, and

Whereas, We as citizens are in doubt as to whether or not the water we are being furnished by the City of Sycamore is safe for us and members of our families to be drinking, and

Whereas, After the City of Sycamore had the water tested and were advised that there were sulfide reducing bacteria present in the main that act on the sulfide deposits which line the inside walls of the water main, producing a hydrogen sulfide gas which causes an horrendous odor, and

Whereas, Several Families have had whole loads of clothes RUINED by Rust and Discolored water from the City Water supply, and

Whereas, there is in many cases a continuing problem with low water pressure in the affected area, and

Whereas, We feel that we are paying our fair share of Property Taxes and City Water and Sewer Bills, therefore,

Be it Resolved that the Mayor and members of the City Council acting on behalf of the citizens in the area of the City with the above mentioned problems, authorize the hiring of some type of Water Experts to see what can be done about correcting the problems, and further be it,

Resolved that the action be taken as soon as possible, as we the under signed are tired of being treated and classified as SECOND CLASS CITIZENS.

Name

Address

Lillian W. Prescott

412 E. EXCHANGE ST.

Vivian A. Gustafson

411 E. Exchange St.

Joe G. Persson

462 E. Exchange St.

Dorrie Ekman

432 E. Exchange St.

Barbara Brummel

436 E. Exchange St.

Thom Brum

436 E. Exchange St.

Joe Gargatz

486 E. Exchange St.

Pat Postume

480 E. Exchange St.

Ken Gargatz

486 E. Exchange St.

Joni Kaufman

Judy + Steve Kelley

494 E. Exchange St.

Brenda Fenn

143 Sabin St.

Paul A. Farrell

385 Parkside Dr.

Lissa M. Parrish

133 N. Sabin

Doris L. Sundberg

133 N. Sabin

Norman A. Sundberg

125 Sabin St.

Marjorie R. Haley

125 Sabin St.

Harold R. Haley

157 Vista Terrace

Matt + Pat Postume

157 Vista Terr. Exp.

Ray Monroe Kingen

480 E. EXCHANGE ST.

Raymond A. Kingen

476 E. Exchange St.

James E. (Woodbury)

476 E. EXCHANGE ST.

John Bradshaw

150 N. Sabin St.

Elizabeth Riehl

120 W. Sabin St.

Ray Sellner

134 Vista Terrace

145 Vista Terrace

145 Vista Terrace

Name

Address

Lore a Dutton	229 E. Lincoln
James D Dutton	229 E. LINCOLN
Gyle Egman	230 Home St
Debby Shick	306 Home St
Lucille Shuen	128 Home St
Robert Sherer	128 Home St
Rebecca Hardt	523 S. Locust
Sara Chellant	122 E. Lincoln
Phyllis Helmer	230 E. Lincoln
Betty Corn	236 E. Lincoln
Ramona Carlson	304 Home St.
Bill Parn	315 Home St
Ludie Powers	315 Home St.
Cheryl Swasberg	321 Home St.
May Shoup	350 Home St
Elmer J Frazier	374 Home St
Mrs George Sobier	316 Home St.
Jenny Carlson	304 Home St.
Joanne Edwards	219 E. Ottawa
Gloria Welcker	320 S. Walnut
Nikki Marsh	325 E. Ottawa
Pat Tucker	404 S. Walnut

Name

Address

Cathy Caldwell

522 E. Sycamore

James L. Caldwell

522 E. Sycamore

Kimberly Miller

539 E. Sycamore St.

~~Margaret Van Ostrand~~

518 E. Sycamore St.

~~Arthur Van Ostrand~~

518 E. Sycamore St.

Lisa Atkins

360 E. Sycamore St.

Nadine Tucker

356 E. Sycamore St.

Betty Henderson

352 E. Sycamore St.

Bob & JACKIE TYRRELL

328 E. Sycamore St.

Ron Luffert

328 E. Sycamore

Joanne Luffert

321 E. Exchange St.

Amy Mathey

321 E. Exchange St.

Kevin Mathey

325 E. Sycamore St.

Chris Merkmann

360 E. Sycamore St.

Mark Olzman

Margaret Yardleys
 Dick Richardson
 Albert H. Stenersen
 Mary Fleming
 Clarence and Sylvia Hand
 Mrs. Leonard Perrot
 Michael J. Daly
 Joe Reed
 Mary L. Price
 E. Bell
 Russell W. Miller
 Donald K. Kline
 Orin Jensen
 Peter Christensen

225 Sabin St. Sycamore
 226 Sabin St. Syc.
 230 Sabin St. Syc.
 528 E. Sycamore St. Sycamore
 227 N. Sabin St. Sycamore
 220 Sabin, Sycamore
 219 SABIN, Sycamore
 213 Sabin, Syc.
 126 N. Sabin, Syc. Ill.
 212 Sabin Sycamore
 539 E Sycamore St., Sycamore Ill.
 Box 21 A Motel Rd Syc.
 329 E. Elm, Sycamore.
 329 E. Elm, Sycamore

Elaine Sigurdson
 Patricia Nordstrom
 William Sjogren
 Marilyn Sjogren
 E. Sjogren
 Ole Leif Ryge

144 Vista Terrace
 150 N. Sabin St.
 160 Sabin St.
 160 Sabin St.
 430 E Exchange St.
 430 E. Exchange St.

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address and ZIP Code
in the space below

- Complete items 1, 2, 3 and 4 on the reverse
- Attach to front of article if space permits; otherwise affix to back of article
- Endorse article Return Receipt Requested adjacent to number



ENTER ZIP CODE

RETURN

TO



Print Sender's name, address, and ZIP Code in the space below

HERMAN W. PRESCOTT
462 E. EXCHANGE ST.
SYCAMORE, ILL. 60178

SENDER ☐ Prepay postage and handling charges. ☐ Prepay postage and handling charges and insure contents.
To: ☐ Registered mail. ☐ Registered mail and insured.
The following items are enclosed:
1. ☐ 1st class. ☐ 2nd class. ☐ 3rd class. ☐ 4th class. ☐ 5th class. ☐ 6th class. ☐ 7th class. ☐ 8th class. ☐ 9th class. ☐ 10th class.

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

City of Syracuse

445 711 244
X

X
X
X
10-15 90

PS Form 3811, (1989) • U.S.G.P.O. 1989-230-015 DOMESTIC RETURN RECEIPT

0000

CERTIFICATE OF SERVICE

The undersigned, being first sworn, states that an original copy of the complaint and a copy of the notice of filing was mailed, or personally served, to the Respondent of this action at the below listed address on this date 12-15-90 by: _____

(Check appropriate line)

~~Certified Mail (attach copy of receipt)~~

Registered Mail (attach copy of receipt)

Personal Service

RESPONDENT'S ADDRESS

NAME: City of Sycamore Mr. Syd Albrecht Water Sup.

STREET: 535 DeKalb Ave

CITY, STATE AND ZIP: Sycamore, Illinois 60178

Person is Present
Complainant(s)

Complainant(s)

SIGNED AND SWORN to before me
this date.

Notary Public

MOTIONS AND OTHER LEGAL DOCUMENTS

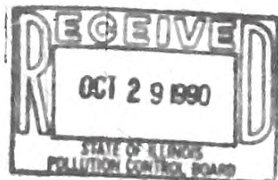
Original Do Not Remove
Smith & Strauss

ATTORNEYS AT LAW
207 W. STATE STREET
CHICAGO, ILLINOIS 60601

PETER THOMAS SMITH
MARCE STRAUSS

MAIL
FAX 800 122
TEL & PHONE
TEL 800 4201
TELETYPE
811 895 6424

October 26, 1990



The Clerk of the
Illinois Pollution Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601

PCB 90-187

Re: City of Sycamore v. Herrman W. Prescott, PCB No.

Gentlemen:

Enclosed please find an original and ten copies of a Notice of Filing, Entry of Appearance, and Motion For Extension of Time To File Motion To Strike and Dismiss Complaint as Frivolous in the above referenced case. Please file these documents with your office.

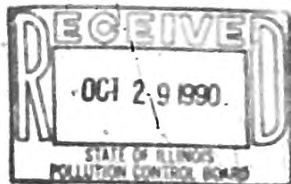
Your Courtesy in this matter is appreciated. Should you have any questions or comments concerning this matter, please do not hesitate to contact me.

Cordially yours,

Peter Thomas Smith
Peter Thomas Smith

PTS/ca
enclosure

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERRMAN W. PRESCOTT,
Complainant,

v.

THE CITY OF SYCAMORE, ILLINOIS,
Respondent.

FCB No. 90-187

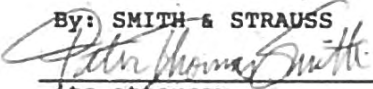
To: Herrman W. Prescott
462 E. Exchange Street
Sycamore, IL 60178

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 26th day of October 1990, I have caused to be filed, the Entry of Appearance and Motion For Extension Of Time To File Motion To Strike and Dismiss Complaint As Frivolous of the Respondent, CITY OF SYCAMORE, in the above captioned case with the Pollution Control Board, Chicago, Illinois. A copy of said documents is attached hereto and herewith served upon you.

CITY OF SYCAMORE

By: SMITH & STRAUSS


its attorney

STATE OF ILLINOIS)
) SS:
COUNTY OF DEKALB)

Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on October 26, 1990.

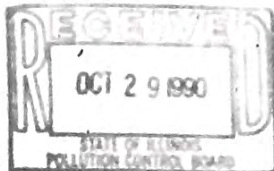
Cynthia Anderson

Subscribed and sworn to before me this 26th day of October, 1990.

Robert Thomas Smith

Notary Public

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERRMAN W. PRESCOTT,

Complainant,

v.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

ENTRY OF APPEARANCE

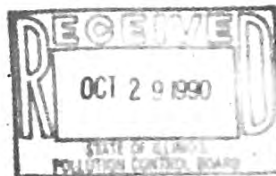
We, the undersigned attorneys, hereby enter our appearance on behalf of the Respondent, CITY OF SYCAMORE, in the above-entitled matter.

DATED this 26th day of October, 1990.

SMITH & STRAUSS

By: *Patricia M. Smith*

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERRMAN W. PRESCOTT,

Complainant,

v.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 70-187

MOTION FOR EXTENSION OF TIME TO FILE MOTION
TO STRIKE AND DISMISS COMPLAINT AS FRIVOLOUS

The Respondent, the CITY OF SYCAMORE, Illinois, a municipal corporation, (CITY OF SYCAMORE) by and through its City Attorneys, PETER THOMAS SMITH and TIMOTHY JOHNSON, move that the Illinois Pollution Control Board grant an extension of time to file a Motion To Strike and Dismiss the Complaint in the above captioned case as frivolous. In support of its Motion, the CITY OF SYCAMORE, Illinois, states as follows:

1. On or about October 17, 1990, Respondent, CITY OF SYCAMORE, received a copy of the unfiled Formal Complaint in the above captioned case with a notice that the Illinois Pollution Control Board will not accept this unfiled Formal Complaint if the case is determined to be duplicitous or frivolous.

2. The Illinois Pollution Control Board's notice further gave the Respondent, CITY OF SYCAMORE, two weeks from the date of

service to file a Motion with the Board if it believed the case to be duplicitous or frivolous.

3. On or about October 18, 1990, the Water Department Superintendent for the Respondent, CITY OF SYCAMORE, Sid Albrecht, brought the unfiled Formal Complaint to the City Attorney and provided preliminary information and background on the legal and factual basis for the unfiled Formal Complaint.

4. On or about October 20, 1990, the said Water Department Superintendent, Sid Albrecht, suffered a heart attack, was hospitalized in Rockford, Illinois for his physical condition, and to date remains hospitalized.

5. The Respondent, CITY OF SYCAMORE's, principal source of factual and technical background in the above captioned case is its Water Department Superintendent, Sid Albrecht, and his hospitalization makes it difficult, if not impossible, for the Respondent to prepare a properly founded Motion to Strike and Dismiss the Complaint as duplicitous or frivolous within the two weeks of the date of service.

6. The physical condition of the said Water Department Superintendent, Sid Albrecht, is improving and he is expected to be released from the hospital and available for consultation in this matter within three to four weeks.

7. A preliminary review of the factual and legal background in the above captioned case indicates that there is a substantial question concerning the frivolous nature of this case from a legal and factual standpoint and Motion To Strike and Dismiss should be filed in this case in the interest of conserving the time and energies of the Illinois Pollution Control Board and the parties.

IN WITNESS WHEREOF, the CITY OF SYCAMORE requests that the Illinois Pollution Control Board grant an extension of four weeks to November 28, 1990 for the respondent to file a Motion To Strike and Dismiss the above captioned case as duplicative or frivolous.

Respectfully submitted,

The CITY OF SYCAMORE, Illinois

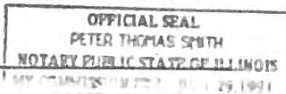
By: Peter Thomas Smith
Peter Thomas Smith

CERTIFICATION

Under penalties as provided by law pursuant to Section 1-109 of the Illinois Code of Civil Procedure, the undersigned certifies that the statements set forth in this Motion are true and correct, except as to matters therein stated to be on information and belief and as to such matters the undersigned certifies as aforesaid that he verily believes the same to be true.

Peter Thomas Smith

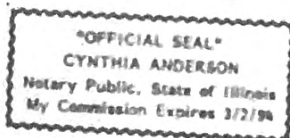
PETER THOMAS SMITH



Subscribed and sworn to before me this 26th day of October, 1990.

Cynthia Anderson
Notary Public

Peter Thomas Smith, Esq.
SMITH & STRAUSS
207 W. State
P.O. Box 332
Sycamore, Illinois 60178
(815)895-4591



Original Do Not Remove
Smith & Strauss

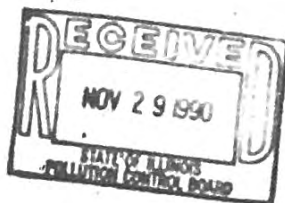
PETER THOMAS SMITH
MARC J STRAUSS

ATTORNEYS AT LAW
300 W. STATE STREET
EVI. 000004 11-11-1990 00:28

MAIL
FAX 800 712
TELEPHONE
EVI 000004
TELETYPE
EVI 000004

November 28, 1990

The Clerk of the
Illinois Pollution Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601



Re: City of Sycamore v. Herman W. Prescott, PCB No. 90-187

Dear Sir:

Enclosed please find an original and ten copies of a Notice of Filing and Motion To Strike and Dismiss Complaint as Frivolous in the above referenced case. These pleadings are being submitted in keeping with the Respondent's Motion For Extension of Time to File Motion to Dismiss Complaint as Frivolous which was submitted to your office on October 26, 1990. Please file these documents with your office.

Your courtesy in this matter is appreciated. Should you have any questions or comments, please do not hesitate to contact me.

Cordially yours,

Peter Thomas Smith
Peter Thomas Smith

PTS/ca
enclosure

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,
Complainant,

v.

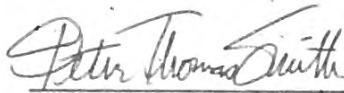
CITY OF SYCAMORE, ILLINOIS,
Respondent.

PCB No. 90-187

To: Herman W. Prescott
462 E. Exchange Street
Sycamore, IL 60178

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 28th day of November 1990, I have caused to be filed, a Motion To Dismiss Complaint as Frivolous of the Respondent, CITY OF SYCAMORE, in the above captioned case with the DeKalb County Courthouse, DeKalb, Illinois. A copy of said document is attached hereto and herewith served upon you.


His attorney

STATE OF ILLINOIS)
COUNTY OF DEKALB) SS:

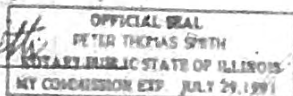
Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing

named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on November 28, 1990.

Cynthia Anderson

Subscribed and sworn to before me this 28th day of November, 1990.

Peter Thomas Smith
Notary Public



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT.

Complainant,

y.

CITY OF SYCAMORE, ILLINOIS.

Respondent.

PCB No.

MOTION TO DISMISS PETITION AS FRIVOLOUS

The Respondent, CITY OF SYCAMORE, by and through its attorneys, SMITH & STRAUSS, moves to dismiss as frivolous the Formal Complaint of the Petitioner, HERMAN W. PRESCOTT, in the above captioned case and states in support of the Motion as follows:

1. Paragraph 5 of the Formal Complaint indicates that the Sections of the Illinois Environmental Protection Act which are thought to be violated are Sections 653.604 and 654.403 of Subtitle F, Public Water Supply.
2. Section 654.403 of Subtitle F, Public Water Supply of the Illinois Environmental Protection Act is simply a "recommendation" for secondary maximum contaminant levels for finished water and is not an enforceable tolerance for finished water. As such, there

can be no enforcement action taken or relief granted and the Formal Complaint is frivolous with regard to that Section.

3. Section 653.604 of Subtitle F, Public Water Supply of the Illinois Environmental Protection Act requires that a minimum free chlorine residual of 0.2 mg/l or a minimum combined residual of 0.5 mg/l be maintained in all active parts of the distribution systems at all times.

4. The Petitioner, Mr. PRESCOTT, has provided the results of chlorine residual tests in paragraph 7 of the Formal Complaint, apparently for a time from November 22, 1989 to January 22, 1990, but those results do not show the type of reading, i.e. mg/l, ppm, etc.; do not indicate the type of test done; and do not indicate where the water samples were taken, which has particular importance since he has a water softener and a water filter on his property which remove chlorine and result in an inaccurate test result. A Formal Complaint can not be properly founded on such undocumented and unfounded allegations.

5. Section 654.604 of Subtitle F of the Illinois Environmental Protection Act requires, the Respondent, CITY OF SYCAMORE, to test for chlorine residuals at frequent and regular intervals and the Respondent has done so in the area of Sycamore of which the Respondent, Mr. PRESCOTT, complains. The results of those tests are kept as business records, are relied on by the Respondent in its water treatment activities, and are attached and

incorporated in this Motion as Exhibit A.

6. The results shown in Exhibit A are stated in mg/l and indicate consistent chlorine residuals of more than 0.2 mg/l in the northeast area of the City of Sycamore (East Exchange Street) and a combined residual of more than 0.5 mg/l in all active parts of the distribution system, all in compliance with Section 654.604 of Subtitle F of the Illinois Environmental Protection Act. These official test results directly contradict the Petitioner, Mr. PRESCOTT'S, testing and directly contradict any allegation of a continuing violation of the Illinois Environmental Protection Act.

7. The Petitioner, Mr. PRESCOTT, has complained that the water has an odor and was frequently rusty, but does not provide any test results to indicate that there has been any violation of the maximum level of contaminants for iron or manganese and does not claim a violation of the Section of Subtitle F which deals with that topic. A Formal Complaint can not be properly founded on such undocumented and unsubstantiated allegations and relief can not be granted under the Section alleged.

8. To improve and seal its water system against iron contamination, the Respondent, CITY OF SYCAMORE, has been conducting a phosphate treatment program since September, 1989 and has been conducting testing to monitor the effectiveness of the treatment. A copy of a July 30, 1990 letter from Hydronics, Inc.,

the company providing the phosphate treatment, and enclosures showing test results for iron and phosphate content is attached and incorporated in this Motion as Exhibit B.

9. As indicated in the July 30, 1990, the test results show that the phosphate treatment program is progressing successfully, but slowly, as expected; that the successful treatment results in iron scale (which is black and odorous) breaking off and passing through the water system, usually in flushing; and that the iron levels for finished water in the system are in compliance with the 1.0 mg/l requirement of Section 604.202 of Subtitle F of the Illinois Environmental Protection Act.

10. Finally, the Petitioner, Mr. PRESCOTT, requests that conform to the recommendations of the Illinois Environmental Protection Agency in a letter dated July 20, 1990, but does not indicate which Section of the Illinois Environmental Protection Act requires such compliance or how the Respondent, CITY OF SYCAMORE, is has failed to complied with that letter. In as much as, the July 20, 1990 letter simply makes recommendations for system operation, it is not a proper subject for an enforcement action or relief and is frivolous.

11. In fact, the Respondent, CITY OF SYCAMORE, has complied fully with the recommendations of the July 20, 1990 letter because Well #1 is not being pumped except in emergencies, the phosphate treatment is continuing, the distribution system is flushed thoroughly each spring and fall and the chlorine residuals are

being monitored. Contrary to the assertions and implications in the July 20, 1990 letter, there were no broken hydrants in the area to be repaired, the water line in the area of the Petitioner's residence is cement lined and non-corrosive, and the Respondent has been installing cement lined water lines since the mid-1970's. The response of Syd Albrecht, Superintendent of the Water Department to the July 20, 1990 letter is attached and incorporated as Exhibit C.

WHEREFORE, the Respondent, CITY OF SYCAMORE, requests that Illinois Pollution Control Board dismiss as frivolous the Formal Complaint of the Respondent, Mr. PRESCOTT, in this matter.

Dated this 28th day of November, 1990.

Respectfully submitted,
CITY OF SYCAMORE, Respondent
SMITH & STRAUSS

By: Peter Thomas Smith

Peter Thomas Smith, Esq.
SMITH & STRAUSS
207 W. State Street
Sycamore, IL 60178
(815) 895-4591

EXHIBIT A

DOCUMENT C

CHLORINE RESIDUALS AT 433 E. EXCHANGE

TOTAL

6-20-89	.6
7-18-89	.3
8-15-89	.3
9-19-89	.5
10-17-89	.6
11-14-89	.8
12-19-89	.5
1-16-90	.7
2-13-90	.8
3-20-90	1.1
4-17-90	1.8
5-15-90	1.0
6-19-90	.3

DOCUMENT H

DATE	ADDRESS	FREE	TOTAL
MARCH 21, 1930	HYD. SABIN & EXCH.	.30	.50
	HYD. STATE & WALNUT	.50	.70
	HYD. SYC. & PLEASANT	.40	.70
	HYD. SABIN & SYC.	.70	
	HYD. EXCH. & GOVENOR	.00	.40
	HYD. WALNUT & SYC.	.60	

DOCUMENT 1

DATE	ADDRESS	FREE	TOTAL
MAY 8, 1990	HYD. WALNUT & EXCH.		.60
	HYD. STATE & SABIN		.00
	HYD. ELM & KISH.		.00
	HYD. SABIN & SYC.		.50
	HYD. WALNUT & SYC.		1.00
	HYD. WALNUT & STATE		.70
	HYD. 465 EXCHANGE		.60
MAY 23, 1990	485 E. EXCHANGE		.00
	462 E. EXCHANGE		.10
	465 E. EXCHANGE		.30
	429 E. EXCHANGE		.60
MAY 31, 1990	485 E. EXCHANGE		.10
	465 E. EXCHANGE		.40
	462 E. EXCHANGE		.20
	429 E. EXCHANGE		.50
JUNE 6, 1990	485 E. EXCHANGE		TRACE
	481 E. EXCHANGE		.10
	462 E. EXCHANGE		.00
	433 E. EXCHANGE		.40
	429 E. EXCHANGE		.30
JUNE 14, 1990	485 E. EXCHANGE		.30
	471 E. EXCHANGE		.00
	462 E. EXCHANGE		.10
	429 E. EXCHANGE		.20
JUNE 26, 1990	485 E. EXCHANGE		.40
	465 E. EXCHANGE		.20
	462 E. EXCHANGE		.00
	429 E. EXCHANGE		.60

DOCUMENT J - 4

DATE	ADDRESS	FREE	TOTAL
JUNE 26, 1990	485 E. EXCHANGE	.25	.30
	459 E. EXCHANGE	.20	.25
	429 E. EXCHANGE	.30	.60
	462 E. EXCHANGE	.00	.00
JULY 10, 1990	485 E. EXCHANGE	.40	.40
	471 E. EXCHANGE	.40	.50
	429 E. EXCHANGE	.60	.70
	462 E. EXCHANGE	.00	.00

DOCUMENT D

CHLORPINE RESIDUALS

DATE	LOCATION	FREE	TOTAL
10-16-89	WEST SCHOOL	1.0	1.4
	307 OTTAWA	.5	.7
	SUTER CO.	.5	.9
	147 MASON CT.	.5	.9
	422 E. EXCHANGE	.4	.6
	HOSPITAL	.5	.7
	239 W. STATE	1.0	1.4
10-17-89	GEORJEAN & PARK	.2	.6
	ELM & KISH. DR.	.2	.4
	LINCOLN & S. MAIN	.5	.9
	HOME & KISH. DR.	.2	.5
	PAGE ST.	1.0	1.4
	239 W. STATE	.8	1.1
	JR. HIGH	1.0	1.4
	SYCAMORE & MAPLE	.9	1.2
10-18-89	WATERMAN & S. CALIF.	.5	.9
	S. AVE. & EDWARD	.2	.5
	EDWARD & MEADOW	.7	1.1
	HOSPITAL	.5	.8
	239 W. STATE	.8	1.1
	PAGE ST.	.8	1.1
10-19-89	PAGE ST.	1.0	1.4
	HOSPITAL	.5	.9
	239 W. STATE	1.0	1.4
	EASTGATE DR & OAK	1.5	2.0
	I-MART	.7	1.0
	MALTA BANK	1.3	1.7
10-20-89	WOODGATE DR.	1.1	1.6
	KERRYBROOK CT.	1.1	1.6
	DEALB AVE. & STARK	.4	.7
	ALBERT & WEST	.7	1.1
	GRANT & GREELY	.5	.9
	PAGE ST.	1.0	1.4
	HOSPITAL	.6	1.0
	239 W. STATE	1.0	1.4
10-23-89	239 W. STATE	.7	1.1
	PAGE ST.	.7	1.0
	HOSPITAL	.4	.8
	LONGWOOD DR.	.5	.9
	ALBERT & WEST	1.0	1.5
	GRANT & GREELY	.2	.4

10-23-89

MAPLE & W. SYCAMORE	1.0	1.4
WALNUT & PLYMOUTH	.6	1.0
PLEASANT ST.	.6	1.0
VISTA TERRACE	.4	.7
SABIN & STATE	.0	.2
HARDEE'S	.5	.7
GOVENOR & STATE	.6	.9
WALNUT & STATE	.9	1.3
MAIN & STATE	.7	1.1
S. MAIN & ALLEY	1.0	1.3
WALNUT & ELM	.9	.9
ELM & GOVENOR	.6	.9
ELM & KISHWAUKEE	.3	.6

10-24-89

PAGE ST.	1.0	1.3
239 W. STATE	1.0	1.3
HOSPITAL	.4	.7
411 GEORJEAN CT.	.4	.7
224 W. SYCAMORE	.5	.9
2587 LILAC LN.	1.3	1.5
HARDEE'S	.3	.6
GOVENOR & STATE	.4	.7
WALNUT & STATE	.7	1.0
MAIN & STATE	.7	1.0
WALNUT & PLYMOUTH	.7	.9
PLEASANT ST.	.4	.7
VISTA TERRACE	.3	.6
WALNUT & ELM	.5	.8
ELM & GOVENOR	.3	.6
ELM & KISHWAUKEE DR.	TRACE	.2

10-25-89

PAGE ST.	1.0	1.4
239 W. STATE	1.0	1.4
HOSPITAL	.6	.9
PLEASANT ST.	1.3	1.6
VISTA TERRACE	.5	.8
SABIN & STATE	TRACE	.2
HARDEE'S	.8	1.1
GOVENOR & STATE	1.0	1.4
WALNUT & STATE	1.1	1.4
WALNUT & ELM	1.0	1.4
ELM & GOVENOR	1.0	1.4
SABIN & E. SYCAMORE	.5	.9
SABIN & E. EXCHANGE	.4	.8
433 E. EXCHANGE	.6	.9
WALNUT & E. EXCHANGE	1.0	1.3
LOCUST & E. EXCHANGE	.9	1.3
LOCUST & E. SYCAMORE	1.0	1.4
WALNUT & E. SYCAMORE	1.1	1.5
PLEASANT & E. SYCAMORE	.4	.7
581 E. SYCAMORE	.3	.5

10-26-89

239 W. STATE	1.1	1.4
PAGE ST.	1.0	1.4

10-26-89

HOSPITAL	.5	.8
PLEASANT ST.	.6	1.0
VISTA TERRACE	.5	.7
SABIN & STATE	.7	1.0
HARDEE'S	.7	1.1
GOVERNOR & STATE	1.1	1.4
WALNUT & STATE	1.1	1.4
WALNUT & ELM	.9	1.2
ELM & GOVERNOR	.8	1.0
ELM & KISHWAUKEE DR.	.6	.9
SABIN & SYCAMORE	.7	1.0
SABIN & E. EXCHANGE	.8	1.1
433 E. EXCHANGE	.7	.9
LOCUST & E. EXCHANGE	.9	1.3
LOCUST & E. SYCAMORE	1.0	1.4
WALNUT & E. SYCAMORE	.7	.9
PLEASANT & E. SYCAMORE	.3	.6
531 E. SYCAMORE	.3	.5
WALNUT & S. EXCHANGE	.9	1.3

10-27-89

239 W. STATE	1.1	1.4
PAGE ST.	1.0	1.4
HOSPITAL	.5	.8
PLEASANT ST.	.4	.7
VISTA TERRACE	1.5	1.9
SABIN & STATE	.3	.6
HARDEE'S	.6	1.0
GOVERNOR & STATE	.9	1.3
WALNUT & STATE	1.1	1.5
WALNUT & ELM	1.1	1.4
ELM & GOVERNOR	1.0	1.3
ELM & KISHWAUKEE	.5	.7
SABIN & E. SYCAMORE	1.4	1.7
SABIN & E. EXCHANGE	.4	.7
433 E. EXCHANGE	.5	.8
WALNUT & E. EXCHANGE	1.0	1.4
LOCUST & E. EXCHANGE	1.0	1.3
LOCUST & E. SYCAMORE	1.2	1.5
WALNUT & E. SYCAMORE	1.0	1.3
PLEASANT & E. SYCAMORE	.3	.6
531 E. SYCAMORE	.3	.4

DOCUMENT E

SANDY

ENCLOSED ARE A FEW RECENT CHLORINE RESIDUALS TAKEN IN
AND AROUND THE PROBLEM AREAS.

	FREE	TOTAL
11-7-89		
LINCOLNSHIRE	.5	.7
LINCOLN & WALNUT	.7	1.0
LINCOLN & KISH. DR.	.4	.7
VISTA TERRACE	.5	.8
11-8-89		
500 CHARLES	.2	.4
VISTA TERRACE	.7	1.0
SABIN & EXCH.	.6	.8
FAIRWAY LN.	.3	.4
11-9-89.		
CENTER AVE & STARK	.6	.7
EDWARD & ELMWOOD	.5	.8
HOME & KISH. DR.	.4	.5
FAIRWAY LN.	.2	.2
531 E. SYCAMORE	.5	.5

DOCUMENT F

DATE	ADDRESS	FREE	TOTAL
NOV. 22, 1989 3 PM.	531 E. SYCAMORE	1.10	1.40
	433 E. EXCHANGE	.30	.30
	HYD. SABIN & EXCH.	2.30	2.70
	VISTA TERRACE	2.40	2.60
	V. TERRACE & KINGS.	1.60	1.80
10 PM.	531 E. SYCAMORE	1.00	1.30
	433 E. EXCHANGE	.70	1.00
1 AM.	531 E. SYCAMORE	.70	.90
	HYD. KOHLER PROP.	.70	.90
	433 E EXCHANGE	.70	.90
3 AM.	531 E. SYCAMORE	.40	.60
	433 E. EXCHANGE	.30	.60
	HYD. KOHLER PROP.	.30	.40



HYDRONICS INC.

July 30, 1990

Mr. Syd Albrecht, Superintendent
Water Department
City of Sycamore
533 DeKalb Ave
Sycamore, IL 60178

Dear Syd:

Attached are results and graphs pertaining to the phosphate treatment of the City of Sycamore Water Supply. As we have discussed, phosphate treatment was initiated at Sycamore for the following reasons:

1. The reduction of red water complaints.
2. Reduction in the time and expense in hydrant flushing.
3. The slow removal of existing iron and corrosion by product scale from the internal surface of the water mains. This was due to the fact that a reduction in scale will reduce the chlorine demand allowing a reduction in chlorine use as well as obtaining stable chlorine residuals. It was also hoped that this removal of scale would allow a greater chlorine residual to be maintained in the problem areas of town.
4. To reduce odor complaints due to the oxidation of sulfate by the water and/or sulfate reducing bacteria.
5. To act as corrosion inhibitor for cast iron based metals as well as lead and copper.

The graphs indicate that the removal of iron scale is occurring according to schedule. This is borne out by the gradual increase in iron levels at several locations and their subsequent reduction from September, 1989 to the present. Since the iron levels at your wells never exceed 1.2 mg/l from a raw sample, any level above 1.2 mg/l can only come from the dispersion and removal of existing iron scale in the mains and/or consumer service line. As you know this is a slow process but you can see that in most cases the iron levels did increase (along with a corresponding increase in phosphate level) and are now in line with the raw iron levels. Also, before you were instructed to discontinue use of Well # 1, we did see a reduction in chlorine demand which indicates the program is progressing as planned.

The key to reducing odor complaints is again tied to chlorine demand and resulting residuals. As you know, chlorine can cause the odor to occur if fed at too high or low a level. However, until the chlorine demand is stabilized in as many ways as possible (in this case iron scale) the demand is not consistent and odor problems may continue. I feel we are well on our way and going in the right direction for this to be achieved in the near future.

Many of our other goals are being achieved. As we have discussed, red water complaints have been reduced. Also, the flushing of hydrants is taking less time than before phosphate treatment was commenced. I base this on both comments you have made and my own personal observations while I was present at hydrant flushing in March and June of 1990.

Mr. Syd Albrecht
Page 2
July 30, 1990

The removal during flushing of the large black scale precipitates indicates we are removing this chlorine demand and paving the way for an effective phosphate film to be established for corrosion protection. This black, corrosion by product scale is also an ideal environment for sulfate reducing bacterial. The removal of this scale eliminates the protective layer which allows bacterial reproduction. The removal also exposes the organisms to chlorine disinfection and their eventual eradication.

In conclusion, I feel we have accomplished a great deal in 10 months. In many cities this level of success is not reached for 12-18 months. There is still more work that needs to be done but regular monitoring by both your department and Hydronics will assure continued success. If you have any additional questions please do not hesitate to contact our office.

Sincerely,

HYDRONICS, INC.



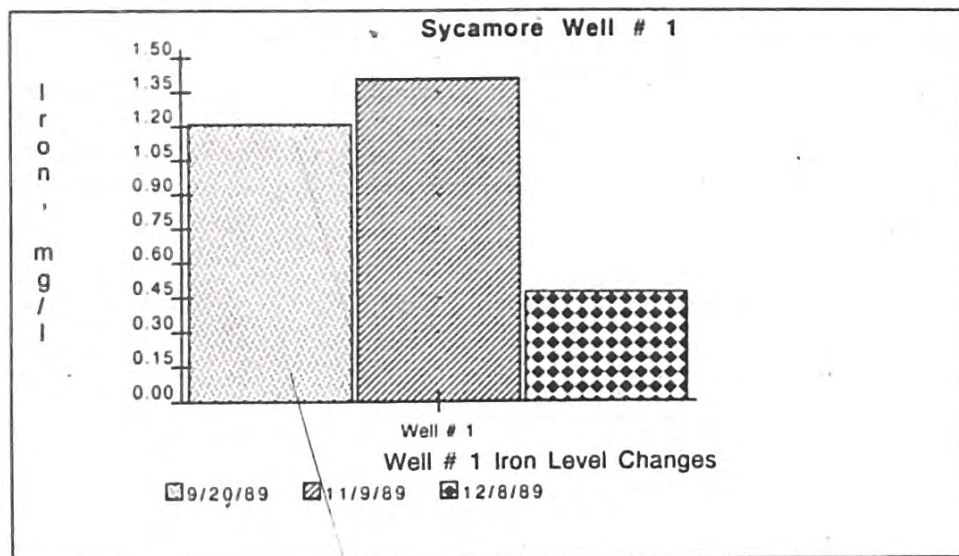
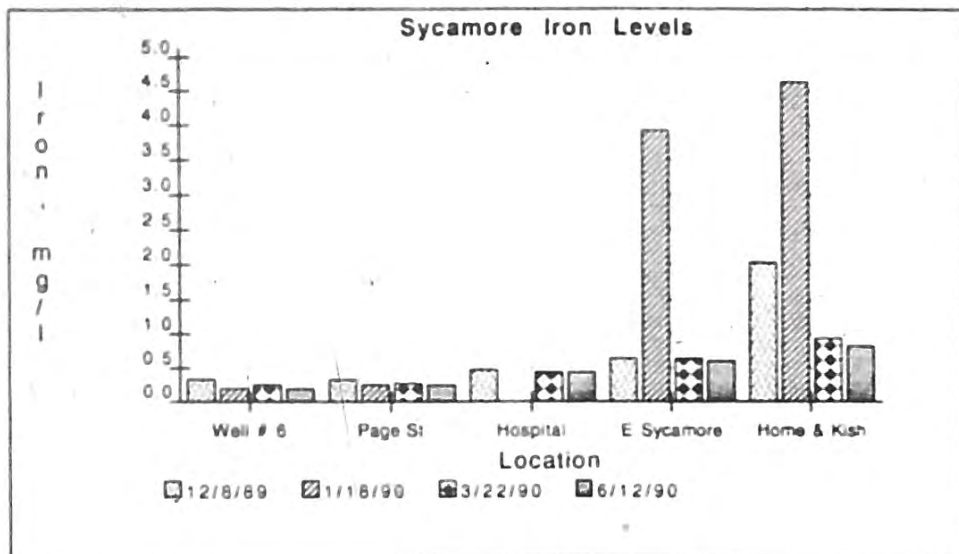
Kevin G. Lookis
KL/eh

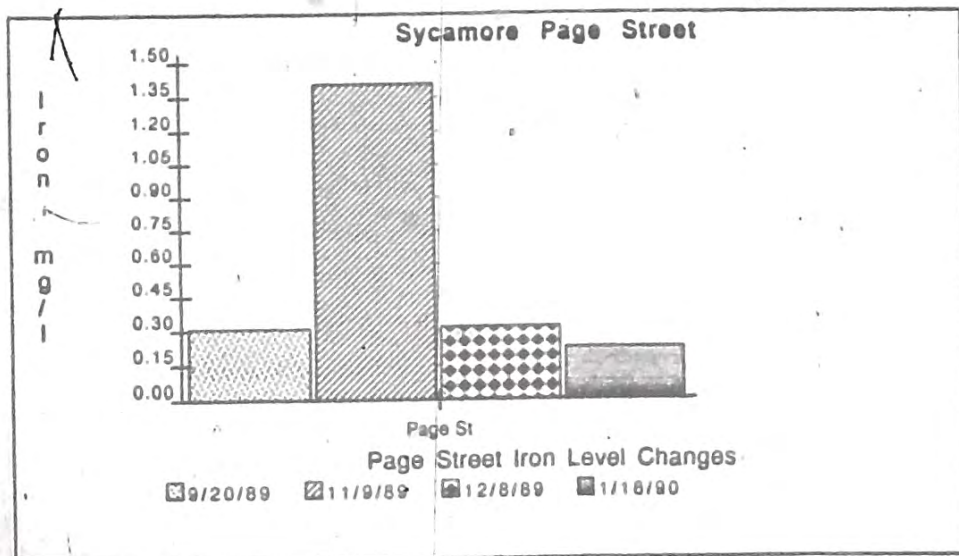
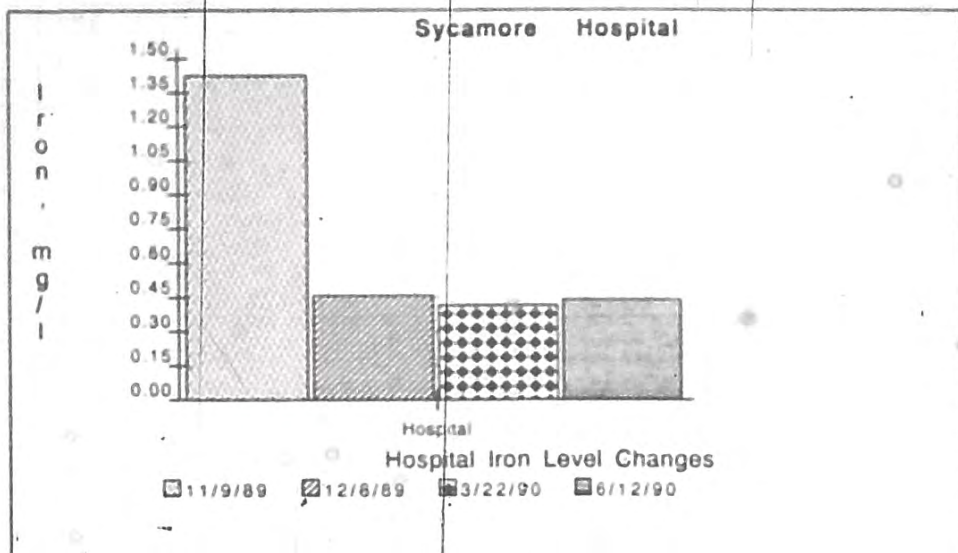
Enclosures: Sycamore Chart
Graphs

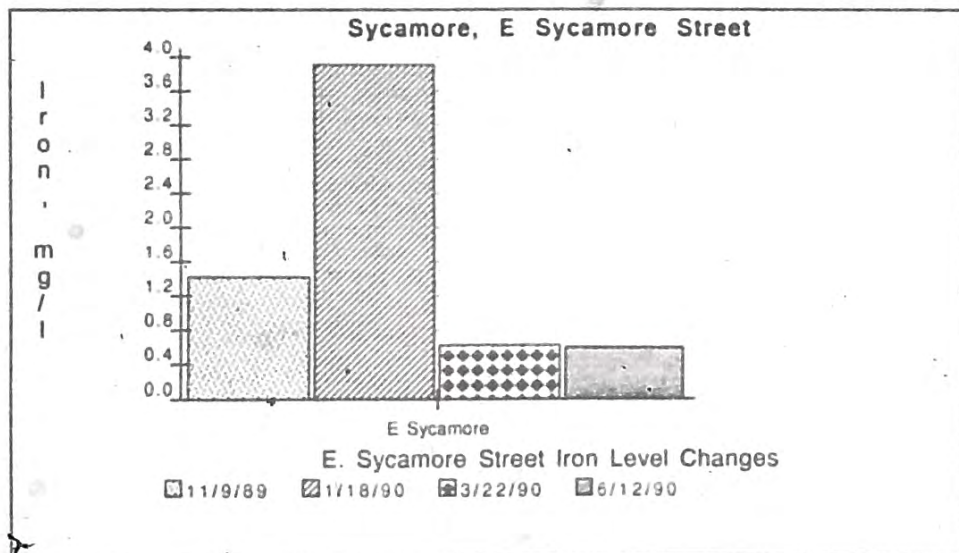
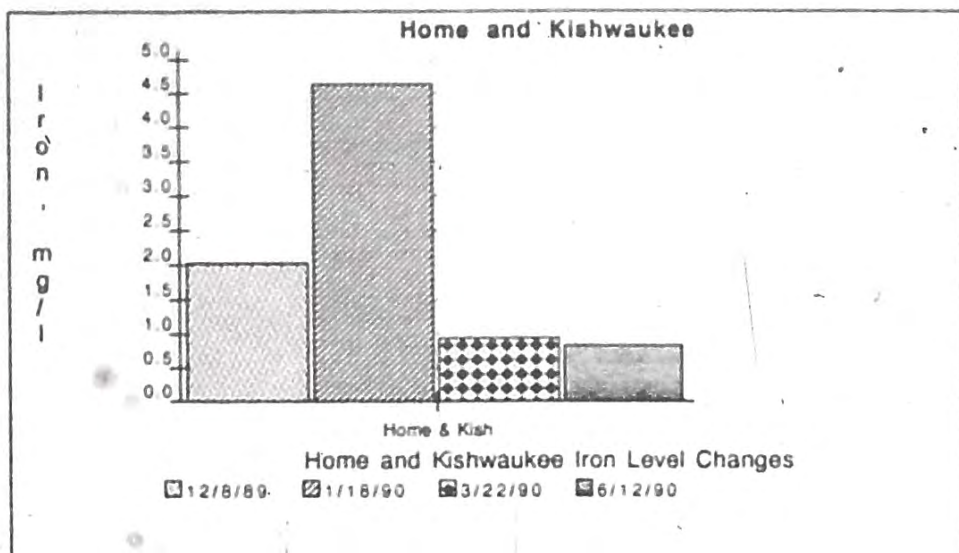
GRAPH EXPLANATION

PLEASE NOTE IRON LEVELS INCREASE AND DECREASE, THEN INCREASE AGAIN OVER TIME. THIS IS DUE TO THE FACT THAT IRON SCALE BUILDS UP IN THE MAINS LAYER BY LAYER. AS A LAYER IS REMOVED DUE TO SOFTENING BY THE PHOSPHATE AND FLUSHING A NEW LAYER IS EXPOSED WHICH IS THEN SUBJECT TO SOFTENING BY THE PHOSPHATE AND REMOVAL BY FLUSHING. UNTIL ALL LAYERS ARE REMOVED, THIS CYCLE WILL CONTINUE.

Sycamore, Illinois Iron, Phosphate Levels Hydronics Inc				
	Loc	Fe	Pod	
9/20/89	Well #1	1.2		0.63
	Well #6	0.3		0.56
	Albrecht Res	0.3		0.35
	Page St	0.25		0.35
	76 Stat	1.1		0.35
11/9/90	Well #1	1.4		0.71
	Well #6	0.4		0.67
	Well #8	0.22		0.31
	Page	1.4		0.67
	Hosp	1.42		0.67
	E. Syc	1.4		0.66
	Home & Kish	1.6		0.72
	Center Ave & Stark	0.97		0.67
	Fairway	2.3		1.57
	Edmund & Elmwood	0.93		0.33
	Walnut & Lincoln	1.6		0.94
12/8/89	Well #1	0.47		0.46
	Well #6	0.3		0.51
	Page	0.31		0.51
	Hosp	0.45		0.6
	E. Syc	0.61		0.56
	Home & Kish	2		1.91
1/18/90	Well #6	0.18		0.56
	Well #8	0.15		0.47
	Page	0.22		0.5
	Hosp			
	E. Syc	3.68		3.56
	Home & Kish	4.6		4.1
	Fairway	4.66		4.2
	Walnut & Lincoln	2.36		2.26
3/22/90	Well #6	0.2		0.57
	Well #8	0.19		0.5
	Page	0.24		0.51
	Hosp	0.41		0.56
	E. Syc	0.6		0.6
	Home & Kish	0.91		0.87
6/12/90	Well #6	0.18		0.55
	Well #8	0.17		0.51
	Page	0.22		0.49
	Hosp	0.43		0.6
	E. Syc	0.57		0.61
	Home & Kish	0.8		0.79







In response to your letter of July 20, 1990

On June 2, 1989 we were contacted by Kevin Lookis of Hydronics, Inc. for the purpose of adding phosphate to the water to control rusty water complaints, odor, and higher chlorine residuals. In September we started adding phosphate to our water supply.

Prior to this time different people from the Rockford E.P.A. had made suggestions as how to deal with these problems, such as running Well #1, which is the closest well to the problem area, for the purpose of raising the chlorine residuals which in turn would get rid of sulfate reducing bacteria which causes the odor also injecting bleach at Well #3 directly into the main.

The water line that supplies Mr. Prescott is a dead end, but the main is cement lined, therefore, it is of non corrosive material. In March there was found to be a substantial amount of chlorine in that section of town. One reason hydrants were not opened after March was because of the weather and because we were working on Lincoln St., moving fire hydrants, and lowering water main for the street project.

The fire hydrants mentioned are not broken, or have not failed as you stated in your letter, we repair or replace hydrants in this town if they are in that kind of shape. I don't appreciate you insinuating I would even be a part of that scenario. Also these hydrants were scheduled to be replaced in May, but you told me, through Walter Purcell, that I was not to run any fire hydrants or run Well #1 during your chlorine sampling period. When hydrants are replaced in this town, we open hydrants in the area, to get rid of any discolored water that might have been caused by the removal of the fire hydrant. The Technical Policy Statement also reads that a .2 free chlorine residual is satisfactory. If you're going to quote rules, let's quote the whole statement, not just the one that fits your needs.

The city has been installing cement lined mains since the middle 1970's.



July 20, 1990

Facility No. 037-0550
Sycamore -- DeKalb County

Mayor and Council?
City Hall
535 DeKalb Avenue
Sycamore, Illinois 60178

Gentlemen:

During November 1989 this office recieved a copy of the enclosed petition. The petition was circulated during the period July 7th. to July 13th. 1989, to residents in the Northeast area of Sycamore by Mr. Prescott who resides at 462 East Exchange street. The petition requested relief from the frequent problems the residents experienced with the community water supply. (odor, rust which ruined many clothes, black colored water, sediment, etc.).

These complaints indicate that the water provided the northeast area of Sycamore was in violation of the Illinois Pollution Control Board's, rules and regulations. Title 35, Subtitle F, Chapter 1, Section 601.101 states that owners and official custodians of a public water supply shall provide continuous operation and maintenance of public water supply facilities so that the water shall be assuredly safe in quantity, clean, adequate in quantity and of satisfactory mineral quality for ordinary domestic use.

The odor (smell of rotten eggs) mentioned by the petition is caused by hydrogen sulfide dissolved in the water. The black sediment is iron sulfide which results when hydrogen sulfide reacts with dissolved iron in the water.

Hydrogen sulfide is oxidized by chlorine, therefore, hydrogen sulfide is not present in the chlorinated water discharged to the distribution system from the Sycamore wells. The hydrogen sulfide is formed when nuisance bacteria grow in the distribution system and reduce the sulfates in the water to sulfides.

Chlorine also prevents the growth of sulfate reducing bacteria, therefore, odor and black water problems occur only in areas of the distribution system where the chlorine injected at the wells has been used up by oxidizing the iron which the corrosive well water dissolves from the unlined cast iron water mains. In Sycamore problems of rotten egg odor and black water are probably further restricted to areas which receive water from Well #1 because this is the only active well where the raw water contains an appreciable amount of dissolved sulfates.

The rust which the petition reports as being a problem is oxidized iron which is corroded from the walls of the cast iron mains and present in the raw water from the wells. It would be expected that residents in the Northeast area of Sycamore, which is adjacent to Well #1, would experience more severe rust problems than residents in some other parts of town. This is because Well #1 is the only active well where the raw water contains an excessive amount of dissolved iron.

The water quality problems are undoubtedly also more severe at Mr. Prescott's residence (462 East Exchange Street) because his service line is tapped into an unfired, cast iron, dead end main. The water does not circulate in a dead end main and therefore, if the dead end is not lined or constructed of corrosion resistant material, the dissolved iron buildup and loss of chlorine residual with resultant growth of nuisance bacteria occurs more quickly.

A meeting was held December 7, 1989 at the Sycamore Water Department office to review the above problems and outline a program to improve the water quality in the Northeast area of town. In attendance were, Mr. Albrecht, Water Superintendent, Mr. Johnson, Mayor, Council Members and this writer.

During this meeting I recommended that, 1) Well #1, because of the dissolved sulfates and high dissolved iron, not be pumped to the system, except during emergencies, 2) injection of phosphate to reduce corrosion be continued, 3) the entire distribution system be flushed thoroughly each spring and fall and 4) that chlorine residuals in the Northeast area of Sycamore be monitored and when no or low residuals were found a hydrant be opened and run slowly to bring water with residual chlorine in from the wells.

Your operating records show that well #1 is being used only sparingly, phosphate is being injected and well observed that some hydrants were flushed in March 1990. However, Mr. Albrecht reports that he is no longer opening hydrants in areas where the chlorine residual is low or absent. Apparently water from the flowing hydrants creates a problem of standing water where it discharges from the storm sewer which serves the Northeast Area of town. In addition Mr. Albrecht reports that several of the old hydrants in the Northeast Area failed after being opened and closed several times and have not been repaired.

During May and June 1990, this Agency measured the chlorine residuals at several locations in the Northeast Area of Sycamore. The results which are tabulated below show that there are still section of the water main where there is no or low chlorine residual. Title 35, Subtitle F, Chapter 11, Section 653.604 states that a minimum combined chlorine residual of 0.5 mg./l. shall be maintained in the distribution system.

Chlorine residual measurements

Location	5/8/90	5/23/90	5/31/90	6/6/90	6/14/90	6/26/90
Hyd. Walnut	0.6 Cl.					
@ Exchange						
Hyd. State	0.0 Cl.					
@ Sabin						
Hyd. Elm @	0.0 Cl.					
Kishwaukee						
Hyd. Sabin	0.5 Cl.					
@ Sycamore						
Hyd. Walnut	1.0 Cl.					
@ Sycamore						
Hyd. Walnut	0.7 Cl.					
@ State						
Hyd. 465	0.6 Cl.					
Exchange						
Ser. @ 485		0.0 Cl.	0.1 Cl.	Tr. Cl.	0.3 Cl.	0.4 Cl.
Exchange						
Ser. @ 481				0.1 Cl.		
Exchange						
Ser. @ 471					0.0 Cl.	
Exchange						
Ser. @ 465		0.3 Cl.	0.4 Cl.			0.2 Cl.
Exchange						
Ser. @ 462		0.1 Cl.	0.2 Cl.	0.0 Cl.	0.1 Cl.	0.0 Cl.
Exchange						
Ser. @ 433				0.4 Cl.		
Exchange						
Ser. @ 429		0.6 Cl.	0.5 Cl.	0.3 Cl.	0.2 Cl.	0.6 Cl.
Exchange						

Almost all of the water obtained from wells in Northern Illinois tends to be corrosive and therefore, communities which use wells and where the distribution system consists of unlined cast iron mains usually find that to provide clean water to the residents they must follow a program which includes:

a) supplying as much water as possible from the wells with the best raw water quality or providing treatment at the wells to remove hydrogen sulfide, iron, manganese, etc.

July 20, 1990

b) flushing every hydrant thoroughly each spring and fall to remove iron sediment from the mains.

c) regularly checking chlorine residuals and opening and flowing hydrants in areas where chlorine residual are found to be low. (Where an excessive amount of water must be wasted to maintain adequate chlorine residuals, that section of main should be replaced with corrosion resistant pipe.)

We therefore will expect that, 1) the drainage for the storm sewer which serves the Northeast part of Sycamore will be improved, 2) the broken hydrants on Exchange and Sabin streets will be repaired and 3) hydrants will be flowed as necessary to maintain a 0.5 mg./l. chlorine residual in the system or as an alternative, mains in areas of low or no chlorine residual will be replaced with corrosion resistant material.

Since it appears that an excessive amount of water may need to be wasted to maintain a chlorine residual in the unfired dead end main serving Mr. Prescott's residence, this dead end main should be replaced with corrosion resistant material or the services to the condominium complex should be retapped into the looped main which runs along the North side of Exchange Street.

We also recommend that the City pass an ordinance requiring that all future mains either be looped, cement lined, or constructed of corrosion resistant material.

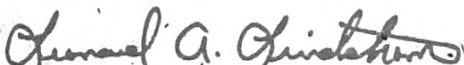
We would further expect that the entire Sycamore distribution system would be flushed thoroughly each spring and fall and that well #1 would be used as little as possible.

A summary of the chemical analysis and production data, available in our Rockford office for the Sycamore Community Water Supply, is enclosed.

If you have questions regarding the above please do not hesitate to contact our office in Rockford or Elgin, phone 815-987-7760 or 708-741-7771.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY



Leonard A. Lindstrom P.E.
Regional Manager
Division of Public Water Supplies

lal/LAL

cc: Sycamore City Clerk
Certified Operator, Mr. Albrecht
Council Members,
Mr. Herman Prescott
Springfield

Sycamore, Illinois

October 13, 1990

State of Illinois

Pollution Control Board

100 W. Randolph St. Suite 11-500

Chicago, Ill. 60601

Dear Sirs,

After trying since November 1988 to get the City of Sycamore to do something about the quality of the water we are being furnished, it seems that this is the last step.

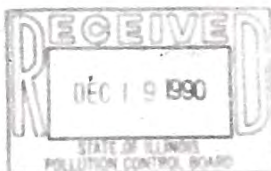
We have had many meetings with Officials of the City of Sycamore and The I.E.P.A.. All agree we have a problem but as of this date not much progress has been made on curing the situation that exists.

I am enclosing a copy of the latest correspondence from the I.E.P.A. to the City of Sycamore for your perusal. As far as I can tell the City of Sycamore has not complied with any of the recommendations as set forth by the I.E.P.A.

Sincerely,

Herman W. Prescott

Herman W. Prescott

Original Do Not Remove**GALLAGHER, KLEIN & BRADY
ATTORNEYS AT LAW**114 WEST STATE STREET
SYCAMORE, ILLINOIS 60178TELEPHONE (815) 895-5151
FAX NO. (815) 895-5557T. JORDAN GALLAGHER
KURT P. KLEIN
WILLIAM R. BRADYLISA M. ROYE
JACK C. SLINGERLAND
BARBARA J. SLINGERLANDGENERAL ILLINOIS OFFICES
SUITE 900
HILLCREST CENTER
444 EAST HILLCREST
OFFSHORE, ILLINOIS 60115
TEL. (815) 758-7481
FAX NO. (815) 758-5311

December 19, 1990

Illinois Pollution Control Board
State of Illinois Center
100 West Randolph Street
Suite 11-500
Chicago, IL 60601

VIA FAX and U.S. Postal Service Express Mail

Re: Prescott v. City of Sycamore
PCF No. 90-187
Our File No. 10181

Attention Ms. Elizabeth Harvey

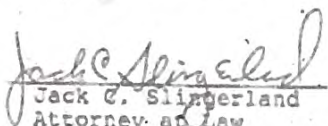
Dear Ms. Harvey:

Enclosed you will find our Entry of Appearance, Response to Respondent's Motion and Complainant's Memorandum in Support of his Response. In accordance with our discussion, please cause these documents to be filed on complainant's behalf with the Pollution Control Board for consideration at its December 20, 1990 meeting.

Sincerely yours,

GALLAGHER, KLEIN and BRADY

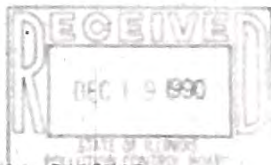
By


Jack C. Slingerland
Attorney at Law

JCS:rj

Enclosure

cc: Mr. Peter T. Smith



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

vs

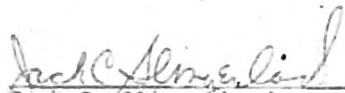
PCB NO. 90-187

CITY OF SYCAMORE, ILLINOIS

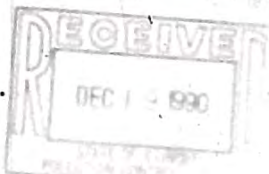
Respondent.

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 19th day of December, 1990, I have caused to be filed a Response to Respondent's Motion to Dismiss Complaint as Frivolous and a Memorandum in Support thereof in the above captioned case with the Illinois Pollution Control Board, Chicago, Illinois by sending such documents via FAX and thereafter by sending the original via U.S. Postal Service Express Mail to State of Illinois Center, Suite 11-500, Chicago, IL. A copy of said documents are attached hereto and herewith served upon you.


Jack C. Slingeland
Attorney for Complainant

GALLAGHER, KLEIN, and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

vs

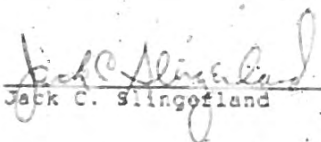
PCB NO. 90-187

CITY OF SYCAMORE, ILLINOIS

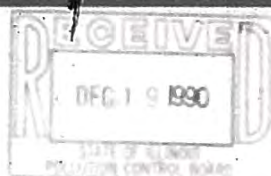
Respondent.

APPEARANCE

I hereby file my appearance in this proceeding, on
behalf of HERMAN W. PRESCOTT.


Jack C. Slingofland

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

vs

CITY OF SYCAMORE, ILLINOIS

Respondent.

PCB NO. 90-187

RESPONSE TO RESPONDENT'S MOTION TO DISMISS

Now comes HERMAN W. PRESCOTT, by and through GALLAGHER, KLEIN and BRADY, his attorneys, in response to defendant's motion to dismiss, moves to strike said motion, and in support of the motion to strike, states as follows:

1. That the formal complaint of Herman W. Prescott was prepared and submitted on forms supplied by the Board, and provides all information requested thereon.

2. That the subject matter of the complaint, finished water quality standards, is within the jurisdiction of the Pollution Control Board (Ill. Rev. Stats., Ch. 111 1/2, §1001 et. seq. Title III).

3. That the respondent, City of Sycamore, does not alleged in its motion that the complaint fails to allege facts to demonstrate the basis upon which the claim is founded.

4. That the respondent, City of Sycamore, does not allege in its motion that the complaint fails to advise the

respondent of the nature of the violations so as to allow preparation of a defense.

5. That respondent, City of Sycamore, does not allege in its motion that the complaint states ~~only~~ the conclusions of the pleader.

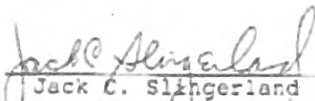
6. That respondent, City of Sycamore, does not allege in its motion that the complaint, in its entirety, fails to state a claim upon which relief may be granted.

7. That respondent, City of Sycamore, does not allege in its motion that the complaint is void of facts which would reasonably inform the respondent of the manner and extent to which the Environmental Protection Act or regulation thereunder are being violated.

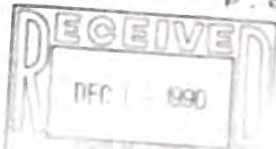
WHEREFORE, complainant, Herman W. Prescott, respectfully requests the Board to strike and deny respondent's motion to dismiss, and to set the matter for hearing on the complaint filed herein.

HERMAN W. PRESCOTT

By


Jack C. Slingerland
Attorney for Complainant

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

vs

PCB NO. 90-187

CITY OF SYCAMORE, ILLINOIS

Respondent.

MEMORANDUM AND ARGUMENT IN SUPPORT OF COMPLAINANT'S RESPONSE
TO RESPONDENT'S MOTION TO DISMISS

A formal complaint filed with the Pollution Control Board may be dismissed as frivolous if it utterly fails to state a cause of action upon which relief may be granted. City of Des Plaines v. Metropolitan Sanitary District of Greater Chicago, et al., 60 Ill.App.3d 995, 377 N.E.2d, 114, 17 Ill.Dec. 924 (1978). In considering a motion to dismiss, the Board must view the allegations of the complaint as true. City of Des Plaines Id. Contrary to these well established principles, respondent attempts to secure a dismissal of the complaint by alluding to the existence of evidence which refutes the complaint. A weighing of the evidence available to support or refute the complaint is not proper on a motion to dismiss based on frivolousness, and therefore, respondent's motion should be denied.

A formal complaint is frivolous within the meaning of Section 31 of the Environmental Protection Act if it is legally

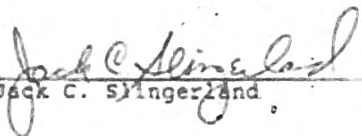
or factually deficient. Rocke v. Illinois Pollution Control Board, 78 Ill.App.3d 476, 397 N.E.2d 51, 23 Ill.Dec. 718 (1979). A complaint is deficient if it fails to inform the respondents of the manner in which the Act is being violated (Rocke, at Ill.Dec. 722), if it pleads only conclusions of the pleader (City of Des Plaines, at Ill.Dec. 929), or if it fails to advise respondents with sufficient particularity to allow for the preparation of a defense (Rocke, at Ill.Dec. 722). In its motion, the respondent has not alleged that the complaint is deficient for any of the above reasons. Instead, respondent pleads that the complaint be dismissed because the complaint lacks documentation (Motion to Dismiss, paragraphs 4 and 7), that respondent has prepared a meritorious defense (Paragraph 6), or that the relief requested "is not a proper subject for an enforcement action" (Paragraph 10). These heretofore unrecognized "grounds" for granting a motion to dismiss are simply legally insufficient to support a dismissal motion.

In administrative pleadings, written complaints need not comply with technical requirements to the same extent as complaints filed in court actions. Winnetkans Interested in Protecting the Environment (WIPE) v. Illinois Pollution Control Board, 55 Ill.App.3d 475, 370 N.E.2d 1176, 13 Ill.Dec. 149 (1977). The complainant here supplied all of the information demanded on the "Formal Complaint" form provided to him by the Pollution Control Board. No allegation is made by the respondent

that the complaint is unclear, pleads only conclusions or fails to follow the prescribed form.

For all of the above reasons, respondent's motion should be denied.

Respectfully submitted,

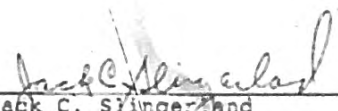

Jack C. Syngersland

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

CERTIFICATE OF SERVICE

I, the undersigned, certify that I have served the attached Appearance, Response to Motion to Strike and Memorandum in Support of Response to Motion to Strike, by deposit in the U. S. Mail on December 19, 1990 at Sycamore, Illinois upon the following persons:

Peter T. Smith
Attorney at Law
207 West State Street
Sycamore, IL 60178



Jack C. Springer and

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

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GALLAGHER, KLEIN & BRADY
ATTORNEYS AT LAW

118 WEST STATE STREET
SYCAMORE, ILLINOIS 60178

TELEPHONE (815) 895-8141
FAX NO. (815) 895-8567

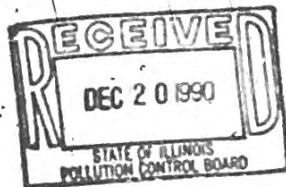
T. JORDAN GALLAGHER
KURT P. ALLEN
WILLIAM H. BRADY

LISA M. ROYE
JACK C. SLINGERLAND
BARBARA J. SLINGERLAND

CHICAGO ILLINOIS OFFICES
SUITE 300
HILLCREST CENTER
444 EAST HILLCREST
CHICAGO, ILLINOIS 60611
TEL. (312) 758-7421
FAX NO. (312) 758-8311

December 19, 1990

Illinois Pollution Control Board
State of Illinois Center
100 West Randolph Street
Suite 11-500
Chicago, IL 60601



VIA FAX and U.S. Postal Service Express Mail

Re: Prescott v. City of Sycamore
PCF No. 90-187
Our File No. 10181

Attention Ms. Elizabeth Harvey

Dear Ms. Harvey:

Enclosed you will find our Entry of Appearance, Response to Respondent's Motion and Complainant's Memorandum in Support of his Response. In accordance with our discussion, please cause these documents to be filed on complainant's behalf with the Pollution Control Board for consideration at its December 20, 1990 meeting.

Sincerely yours,

GALLAGHER, KLEIN and BRADY

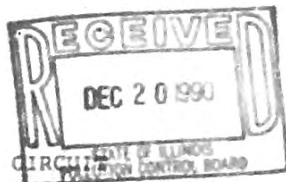
By

Jack C. Slingerland
Jack C. Slingerland
Attorney at Law

JCS:rj

Enclosure

cc: Mr. Peter T. Smith



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

VS

PCB NO. 90-187

CITY OF SYCAMORE, ILLINOIS

Respondent.

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 19th day of December, 1990, I have caused to be filed a Response to Respondent's Motion to Dismiss Complaint as Frivolous and a Memorandum in Support thereof in the above captioned case with the Illinois Pollution Control Board, Chicago, Illinois by sending such documents via FAX and thereafter by sending the original via U.S. Postal Service Express Mail to State of Illinois Center, Suite 11-500, Chicago, IL. A copy of said documents are attached hereto and herewith served upon you.



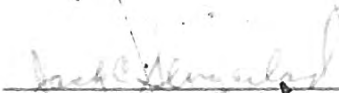
Jack C. Slingerland
Attorney for Complainant

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

CERTIFICATE OF SERVICE

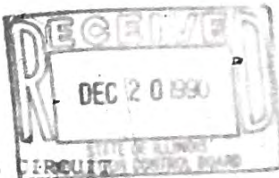
I, the undersigned, certify that I have served the attached Appearance, Response to Motion to Strike and Memorandum in Support of Response to Motion to Strike, by deposit in the U. S. Mail on December 19, 1990 at Sycamore, Illinois upon the following persons:

Peter T. Smith
Attorney at Law
207 West State Street
Sycamore, IL 60178



Jack C. Slingerland

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

vs

PCB NO. 90-187

CITY OF SYCAMORE, ILLINOIS

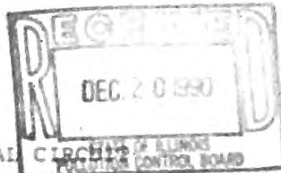
Respondent.

APPEARANCE

I hereby file my appearance in this proceeding, on
behalf of HERMAN W. PRESCOTT.

John C. Slingerland
John C. Slingerland

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL, 60178
Telephone: (815) 895-5141



STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

vs

PCB NO. 90-187

CITY OF SYCAMORE, ILLINOIS

Respondent.

RESPONSE TO RESPONDENT'S MOTION TO DISMISS

Now comes HERMAN W. PRESCOTT, by and through GALLAGHER, KLEIN and BRADY, his attorneys, in response to defendant's motion to dismiss, moves to strike said motion, and in support of the motion to strike, states as follows:

1. That the formal complaint of Herman W. Prescott was prepared and submitted on forms supplied by the Board, and provides all information requested thereon.

2. That the subject matter of the complaint, finished water quality standards, is within the jurisdiction of the Pollution Control Board (Ill. Rev. Stats., Ch. 111 1/2, §1001 et. seq. Title III).

3. That the respondent, City of Sycamore, does not alleged in its motion that the complaint fails to allege facts to demonstrate the basis upon which the claim is founded.

4. That the respondent, City of Sycamore, does not allege in its motion that the complaint fails to advise the

respondent of the nature of the violations so as to allow preparation of a defense.

5. That respondent, City of Sycamore, does not allege in its motion that the complaint states only the conclusions of the pleader.

6. That respondent, City of Sycamore, does not allege in its motion that the complaint, in its entirety, fails to state a claim upon which relief may be granted.

7. That respondent, City of Sycamore, does not allege in its motion that the complaint is void of facts which would reasonably inform the respondent of the manner and extent to which the Environmental Protection Act or regulation thereunder are being violated.

WHEREFORE, complainant, Herman W. Prescott, respectfully requests the Board to strike and deny respondent's motion to dismiss, and to set the matter for hearing on the complaint filed herein.

HERMAN W. PRESCOTT

By

Jack C. Slingerland
Jack C. Slingerland
Attorney for Complainant

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

STATE OF ILLINOIS
IN THE CIRCUIT COURT FOR THE SIXTEENTH JUDICIAL CIRCUIT
COUNTY OF DE KALB

HERMAN W. PRESCOTT,

Complainant,

VS

CITY OF SYCAMORE, ILLINOIS

Respondent.

PCB NO. 90-187

MEMORANDUM AND ARGUMENT IN SUPPORT OF COMPLAINANT'S RESPONSE
TO RESPONDENT'S MOTION TO DISMISS

A formal complaint filed with the Pollution Control Board may be dismissed as frivolous if it utterly fails to state a cause of action upon which relief may be granted. City of Des Plaines v. Metropolitan Sanitary District of Greater Chicago, et al., 69 Ill.App.3d 995, 377 N.E.2d, 114, 17 Ill.Dec. 924 (1978). In considering a motion to dismiss, the Board must view the allegations of the complaint as true. City of Des Plaines Id. Contrary to these well established principles, respondent attempts to secure a dismissal of the complaint by alluding to the existence of evidence which refutes the complaint. A weighing of the evidence available to support or refute the complaint is not proper on a motion to dismiss based on frivolousness, and therefore, respondent's motion should be denied.

A formal complaint is frivolous within the meaning of Section 31 of the Environmental Protection Act if it is legally

or factually deficient. Rocke v. Illinois Pollution Control Board, 78 Ill.App.3d 476, 397 N.E.2d 51, 33 Ill.Dec. 718 (1979). A complaint is deficient if it fails to inform the respondents of the manner in which the Act is being violated (Rocke, at Ill.Dec. 722), if it pleads only conclusions of the pleader (City of Des Plaines, at Ill.Dec. 929), or if it fails to advise respondents with sufficient particularity to allow for the preparation of a defense (Rocke, at Ill.Dec. 722). In its motion, the respondent has not alleged that the complaint is deficient for any of the above reasons. Instead, respondent pleads that the complaint be dismissed because the complaint lacks documentation (Motion to Dismiss, paragraphs 4 and 7), that respondent has prepared a meritorious defense (Paragraph 6), or that the relief requested "is not a proper subject for an enforcement action" (Paragraph 10). These heretofore unrecognized "grounds" for granting a motion to dismiss are simply legally insufficient to support a dismissal motion.

In administrative pleadings, written complaints need not comply with technical requirements to the same extent as complaints filed in court actions. Winnetkians Interested in Protecting the Environment (WIPE) v. Illinois Pollution Control Board, 55 Ill.App.3d 475, 370 N.E.2d 1176, 13 Ill.Dec. 149 (1977). The complainant here supplied all of the information demanded on the "Formal Complaint" form provided to him by the Pollution Control Board. No allegation is made by the respondent

that the complaint is unclear, pleads only conclusions or fails to follow the prescribed form.

For all of the above reasons, respondent's motion should be denied.

Respectfully submitted,



Jack C. Slingerland

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

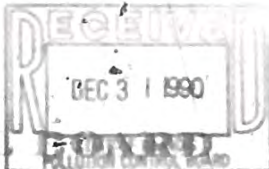


STATE
OF
ILLINOIS

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POLLUTION CONTROL BOARD

STATE OF ILLINOIS CENTER • 500 WEST RANDOLPH STREET • SUITE 2500 • CHICAGO, ILLINOIS 60601 • 312 654 3620



JOHN C. MARLIN, CHAIRMAN
URBANA, ILLINOIS

JOAN G. ANDERSON
WESTERN SPRINGS, ILLINOIS

JACOB D. DUMELLE
OAK PARK, ILLINOIS

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DELAWARE, ILLINOIS

BILL S. FORCADE
CHICAGO, ILLINOIS

J. THEODORE MEYER
CHICAGO, ILLINOIS

MICHAEL L. NARDULLI
CHICAGO, ILLINOIS

December 21, 1990

Mr. Marvin I. Medintz
Moore & Maisel
35 East Wacker Drive
Suite 568
Chicago, Illinois 60601

Re: Assignment of Case: PCB 90-187, Herman W. Prescott v.
City of Sycamore

Date Filed: October 16, 1990

Dear Mr. Medintz:

Please indicate by your signature below, acceptance of the above-referenced case assignment(s). One copy should be kept for your record and one signed copy returned to the Clerk's Office, to the attention of Adaleen Hogan. Pertinent case file documents and an invoice-voucher are enclosed.

A hearing in this matter must be held within 90 days of the above-referenced filing date in accordance with Section 103.125 Notice of Hearing of the Board's Procedural Rules, Subtitle A General Provisions.

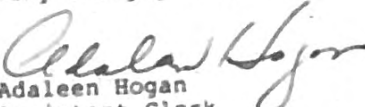
Accordingly, this matter should be scheduled:

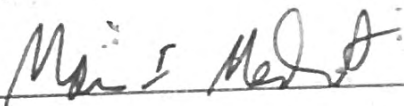
- (i) in sufficient time to give the Clerk's Office 45 days advance notice for newspaper publication and the necessary procedural steps for decision; and
- (ii) if you are unable to arrive at a mutually agreeable hearing date with the parties, you must unilaterally schedule the hearing.

If extenuating circumstances arise that can affect the setting of the hearing, please notify the undersigned or the Clerk's office immediately.

Your cooperation is appreciated.

Very truly yours,


Adaleen Hogan
Assistant Clerk

Hearing Officer Acceptance: 

Date: 11/27/90

PCB/Enforcement

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ILLINOIS POLLUTION CONTROL BOARD

HERRMAN W. PRESCOTT,

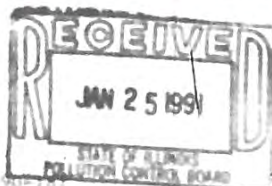
Complainant,

v.

THE CITY OF SYCAMORE,
ILLINOIS,

Respondent.

PCB



HEARING OFFICER SCHEDULING ORDER

The following schedule shall govern the completion of record in this proceeding:

1. Decision Due-Date (based on Board Meeting Schedule): _____
2. Statutory Decision Deadline: _____
3. Date Initial Petition Filed: _____
4. Date of Most Recent Amendment of Petition (if any): _____
5. Date Hearing was Scheduled: January 27, 1991
6. Discovery Cut-Off Date (if applicable): May 17, 1991
7. Pre-Hearing Conference Date (if any): June 14, 1991
8. Date of Hearing: July 10 and July 11, 1991, at 10:00 a.m. in Room 206, DeKalb Co. Courthouse, 133 W. State, Sycamore, IL 60178
[The initial hearing must be scheduled for a date at least 40 days after the date that notice of the hearing is communicated to the Clerk of the Board and at least 35 days prior to the Decision Due-Date. Rescheduled hearings must be scheduled for a date at least 50 days after the date of notice is communicated to the Clerk and at least 40 days prior to the Decision Due-Date. All hearings must be completed at least 35 days prior to the Decision Due-Date.]
9. Date for Filing Petitioner's Brief (if any): _____
10. Date for Filing Respondent's Brief (if any): _____
11. Date for Filing Reply Brief (if any): _____
[The date for submission of the final brief must be at least 20 days prior to the Decision Due-Date.]

NOTE: No motion to reschedule a hearing will be granted unless it is accompanied by at least a 120-day waiver of the then applicable Statutory Decision Deadline and the requested hearing date is at least 50 days after the date of the motion. Other dates may be extended so long as such extension will not interfere with the timing of the hearing and will allow the Board at least 30 days to consider the entire case record prior to the Decision Due-Date.

ENTER: 1/23/91

M. J. M.

W-E
CITIZEN



STATE
OF
ILLINOIS

POLLUTION CONTROL BOARD

STATE OF ILLINOIS CENTER • 100 WEST RANDOLPH STREET • SUITE 1100 • CHICAGO, ILLINOIS 60601 • TEL 814 3620

JOHN C. MARLIN, CHAIRMAN
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J. THEODORE MEYER
CHICAGO, ILLINOIS

MICHAEL L. NARDULLI
CHICAGO, ILLINOIS

May 17, 1991

Sycamore Republican News
Legal Notice Department
215 South Sacramento Street
P. O. Box 217
Sycamore, Illinois 60178

Dear Sir:

Please publish the notice as it appears one day only no later than May 24, 1991. Please publish legal style. Do not enlarge.

Enclosed is an Invoice-Voucher form. Please complete this form including your "FEIN" (Federal Employer Identification Number, Item 2 of the instructions). Return it to us along with your Certification of Publication for payment.

Very truly yours,

Adaleen Hogan
Assistant Clerk of the Board

ILLINOIS POLLUTION CONTROL BOARD
NOTICE OF HEARING

Public Notice is hereby given that the Pollution Control Board will hold a public hearing in the matter of PCB 90-187, Herman W. Prescott v. the City of Sycamore, on July 10 and 11, 1991 at 10:00 a.m., at the DeKalb County Courthouse, Room 206, 133 West State Street, Sycamore, Illinois. This date is subject to change without notice and may be confirmed by contacting the Office of the Clerk, 312/814-3620.

John C. Marlin
Chairman

Publisher's Certificate of Publication

Robert A. Shaw

certify that I am the publisher of

The Sycamore Republican News

weekly

regular newspaper of general circulation

within the county(s) of

DeKalb

regularly published in the city of

Sycamore

in the county of

DeKalb

and state of Illinois, and which has been so published

for more than 12 months prior to the first publication of hereunto entered notice or advertisement

relating to the matter of

PCB 90-187, Herman Prescott vs City of Sycamore

was published in said newspaper

1

times being

1

consecutive

day

commencing

May 29,

A D 19 91

and ending

same

A D 19

which were the dates of first and last insertions. I further certify that said newspaper is a newspaper as defined by the terms and conditions of Chapter 100, paragraph 1 et seq. Illinois Revised Statutes 1961

Given under my hand at

Sycamore

Illinois

May 29,

A D 19 91

Robert A. Shaw

publisher

PUBLIC NOTICE

ALANIS POLKSON
DISTRICT CLERK
NOTICE OF HEARING
Public Notice is hereby given that the Probation Control Board will hold a public hearing in the matter of PCB 90-187, Herman W. Prescott vs the City of Sycamore, on July 29 and 31, 1991 at 10:00 A.M. at the DeKalb County Courthouse, Room 204, 120 West State Street, Sycamore, Illinois. This case is subject to change without notice and may be continued by order of the Office of the Clerk, DeKalb County.
John C. Wirth
Clerk
Published in the Sycamore Republican News May 29, 1991
1056713

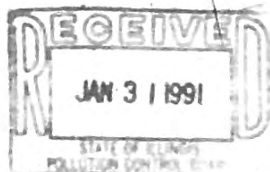
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MARVIN I. MEDINTZ

ATTORNEY AT LAW

35 EAST WACKER DRIVE SUITE 568
CHICAGO, ILLINOIS 60601

(312) 977-0180



January 25, 1991

BY COUNSEL TO MOORE & HANSEN

Clerk
Illinois Pollution Control Board
100 W. Randolph Street - Suite 11-500
Chicago, IL 60601

Re: Prescott v. City of Sycamore,
PCB 90-187

Dear Ms. Hogan:

This letter will confirm that I conducted a pre-hearing conference with counsel for the parties on January 21, 1991, in which was resolved matters of discovery content and scheduling, and further prehearing conference and hearing scheduling. I memorialized the matters resolved in the scheduling order previously sent to you.

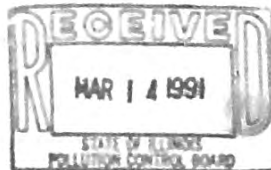
Please call me if you have further questions.

Very truly yours,

A handwritten signature in dark ink, appearing to be "M. Medintz", written over a horizontal line.

Marvin I. Medintz

MIM/mm



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

To: Jack Slingerland
Attorney for Complainant
Gallagher, Klein & Brady
114 W. State Street
Sycamore, Illinois 60178

Marvin I. Medintz
Hearing Officer
35 E. Wacker Drive
Suite 568
Chicago, Illinois 60601

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 11th day of March, 1991, I have caused to be filed Respondent's Motion for Leave to File Answer and Affirmative Defenses in the above captioned case with the Clerk of the Illinois Pollution Control Board. A copy of said document is enclosed and is hereby served upon you.

Respectfully submitted,

THE CITY OF SYCAMORE

By: Peter Thomas Smith

One of its Attorneys

STATE OF ILLINOIS)

) SS:

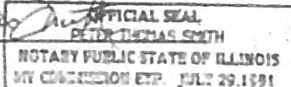
COUNTY OF DEKALB)

Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on March 11, 1991.

Cynthia Anderson

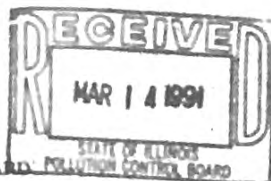
Subscribed and sworn to before me this 11th day of March, 1991.

Peter Thomas Smith
Notary Public



Peter Thomas Smith
Attorney for the Respondent
SMITH & STRAUSS
207 W. State Street
Sycamore, IL 60178
(815) 895-4591

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

MOTION FOR LEAVE TO FILE ANSWER AND AFFIRMATIVE DEFENSES

Pursuant to §§ 103.122(d) and 103.210 of Title 35: Environmental Protection, Subtitle A: Chapter I: Pollution Control Board Rules and Regulations, the Respondent, the CITY OF SYCAMORE, Illinois, a municipal corporation (CITY) by and through its Attorneys, PETER THOMAS SMITH and TIMOTHY JOHNSON, moves for leave to file its Answer and Affirmatives Defenses to the Complainant's Complaint in the above captioned case. In support of its Motion, the CITY states that it has certain affirmative defenses which it wants to assert in this case, that it is necessary to do so in writing to prevent undue surprise to the Complainant, and allowing an answer to the Complaint will simplify the proof and factual issues when this case comes to hearing.

Respectfully submitted,

THE CITY OF SYCAMORE

By:

Peter Thomas Smith

One of its Attorneys

PETER THOMAS SMITH
MARCI STRAUSS

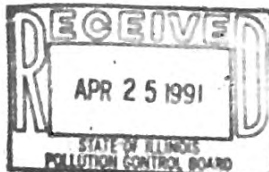
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Smith & Strauss

ATTORNEYS AT LAW
201 W. STATE STREET
SPRINGFIELD, ILLINOIS 62761

MAIL
FAX 800-732
TEL 800-732
TEL 800-732
TEL 800-732
TEL 800-732

April 22, 1991

The Clerk of the
Illinois Pollution Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601



Re: Herman W. Prescott v. City of Sycamore,
PCB No. 90-187

Dear Sir:

Enclosed for filing with your office is an original and ten copies of the Notice of Filing and Answer and Affirmative Defenses in the above referenced matter. Should you have any questions or comments concerning this matter, please do not hesitate to contact me.

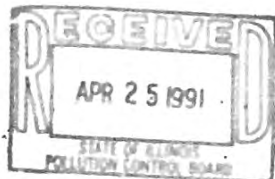
Cordially yours,

A handwritten signature in cursive script that reads "Peter Thomas Smith".

Peter Thomas Smith

PTS/ca
Enclosure
cc: Harold R. Johnson, Mayor

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE, ILLINOIS

Respondent.

PCB No. 90-187

To: Jack Slingerland, Esq.
Attorney for Complainant
Gallagher, Klein & Brady
114 W. State Street
Sycamore, Illinois 60178

Marvin I. Medintz
Hearing Officer
35 E. Wacker Drive
Suite 568
Chicago, Illinois 60601

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 22nd day of April, 1991, I have caused to be filed, an Answer and Affirmative Defenses on behalf of the Respondent, CITY OF SYCAMORE, in the above captioned case with the Clerk of the Illinois Pollution Control Board in Chicago, Illinois. A copy of said document is attached hereto and herewith served upon you.

Respectfully submitted,

THE CITY OF SYCAMORE

By: Peter Thomas Smith
One of Its Attorneys

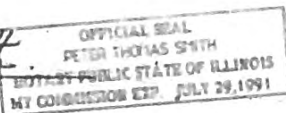
STATE OF ILLINOIS)
) SS:
COUNTY OF DEKALB)

Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on April 22, 1991.

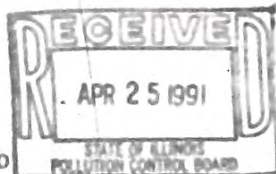
Cynthia Anderson

Subscribed and sworn to before me this 22nd day of April, 1991.

Peter Thomas Smith
Notary Public



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

ANSWER AND AFFIRMATIVE DEFENSES

The Respondent, the CITY OF SYCAMORE, Illinois, a municipal corporation (CITY) by and through its Attorneys, PETER THOMAS SMITH and TIMOTHY JOHNSON, states for its Answer to the Complainant's Complaint as follows:

1. The CITY admits the allegations in ¶ 1 of the Complaint.
2. The CITY lacks sufficient knowledge or information to form a belief as to the truth of allegations contained in ¶ 2 of Complainant's Complaint and demands strict proof thereof.
3. The CITY admits the allegations in ¶ 3 of the Complaint.
4. The CITY denies the allegations contained in ¶ 4 of the Complaint.

5. The CITY denies the allegations contained in ¶ 5 of the Complaint.

6. The CITY denies the allegations contained in ¶ 6 of the Complaint.

7. The CITY denies the allegations contained in ¶ 7 of the Complaint except with respect to contact with the Illinois Environmental Protection Agency and sampling by Mr. Hanson of which the CITY lacks sufficient knowledge or information to form a belief as to the truth of the allegation and demands strict proof thereof.

8. The CITY lacks sufficient knowledge or information to form a belief as to the truth of allegations contained in ¶ 8 of the Complaint and demands strict proof thereof.

AFFIRMATIVE DEFENSES

The Respondent, THE CITY OF SYCAMORE, Illinois, a municipal corporation, (CITY) by and through its City Attorneys, PETER THOMAS SMITH and TIMOTHY JOHNSON, states for its Affirmative Defenses as follows:

1. Paragraph 5 of the Complaint alleges that The CITY has violated § 654.403 of Subtitle F of the Illinois Environmental Protection Act, which is merely a "recommendation" and cannot be

enforced. Therefore, Complainant fails to state a claim upon which relief can be granted.

2. The CITY has complied with § 653.604 of subsection F of the Illinois Environmental Protection Act by testing for chlorine residuals at frequent and regular intervals; the CITY has recorded the results of the tests described herein and relies upon this information in its water treatment activities; § 653.604 requires that a minimum free chlorine residual of .2 mg/l or a minimum combined residual of .5 mg/l be maintained in all active parts of the distribution system at all times; the results of chlorine testing pursuant to § 653.604 are attached and incorporated herein as Exhibit A and indicate consistent chlorine residuals of more than .2 mg/l in the northeast area of the City of Sycamore, the area of which Complainant complains, and a combined residual of more than .5 mg/l in all active parts of the distribution system; the results of Chlorine testing show the City is in compliance with the minimum requirements of § 653.604.

3. Section 604.202 of Subpart F of the Illinois Environmental Protection Act allows a maximum limit of 1.0 mg./l. for iron contaminant; the CITY has tested for iron contaminants through Hydronics, Inc., and has a record of those results dated July 30, 1990, a copy of which is attached and incorporated herein as Exhibit "B"; The iron contaminant testing results indicate that the CITY is in compliance with the 1.0 mg/l requirement of § 604.202.

4. The Complainant does not allege specific areas of non-compliance with the Illinois Environmental Protection Agency letter to the CITY dated July 20, 1990; The letter made recommendations only, which are not enforceable, and therefore the Complainant fails to state a claim upon which relief can be granted; The CITY has complied fully with the recommendations of the July 20, 1990 letter by not pumping well # 1, except in emergencies; continuing phosphate treatment; flushing the distribution system each spring and fall and by monitoring chlorine levels. There were no broken hydrants to be repaired, the water line in the area of the Complainant's residence is cement lined and non-corrosive, and the CITY has been installing cement-lined water lines since the mid-1970's.

Respectfully submitted,

THE CITY OF SYCAMORE

By: Peter Thomas Smith
One of its Attorneys

Under penalties as provided by law pursuant to Section 1-109 of the Code of Civil Procedure, the undersigned certifies that the statements set forth in this instrument, including any want of knowledge, are true and correct, except as to matters therein stated to be on information and belief, and as to such matters the undersigned certifies as aforesaid that he verily believes the same to be true.

THE CITY OF SYCAMORE

By: Peter Thomas Smith

CERTIFICATE OF ATTORNEY

I, PETER THOMAS SMITH, certify that I have read the above pleading, motion or other paper; that to the best of my knowledge, information, and belief formed after reasonable inquiry, it is well grounded in fact and is warranted by existing law or a good faith argument for the extension, modification, or reversal of existing law, and that it is not interposed for any improper purpose, such as to harass or to cause unnecessary delay or needless increase in the cost of litigation, in accordance with Supreme Court Rule 137.

Peter Thomas Smith

Peter Thomas Smith
SMITH & STRAUSS
207 W. State St.
Sycamore, IL 60178
(815) 895-4591
Attorney No. 02650754

STATE OF ILLINOIS)
COUNTY OF DEKALB) SS.

I, Cynthia Anderson, a notary public for the State of Illinois, hereby certify that one PETER THOMAS SMITH whose name is subscribed to this instrument, appeared before me this 22nd day of APRIL, 1991 and acknowledged that he signed this instrument as his free and voluntary act.

Cynthia Anderson
"OFFICIAL SEAL"
CYNTHIA ANDERSON
Notary Public, State of Illinois
My Commission Expires 3/2/94

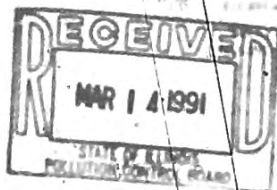
My Commission Expires: 3/2/94

2/21/91

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Original Do Not Remove
Smith & Strass

PETER THOMAS SMITH
MARIO STRASS

ATTORNEYS AT LAW
207 W. STATE STREET
SYCAMORE, ILLINOIS 60178



March 11, 1991

The Clerk of the
Illinois Pollution Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601

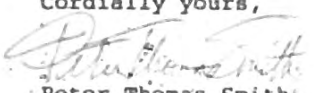
Re: City of Sycamore v. Herman W. Prescott, POCB No. 90-187

Dear Sir:

Enclosed please find an original and ten copies of a Notice of Filing and Motion for Leave to File Answer and Affirmative Defenses in the above referenced case. Please file these documents with your office.

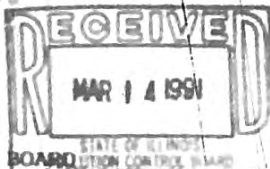
Your courtesy in this matter is appreciated. Should you have any questions or comments, please do not hesitate to contact me.

Cordially yours,


Peter Thomas Smith

PTS/ca
enclosure

Original Do Not Remove



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

To: Jack Slingerland
Attorney for Complainant
Gallagher, Klein & Brady
114 W. State Street
Sycamore, Illinois 60178

Marvin I. Medintz
Hearing Officer
35 E. Wacker Drive
Suite 568
Chicago, Illinois 60601

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 11th day of March, 1991, I have caused to be filed Respondent's Motion for Leave to File Answer and Affirmative Defenses in the above captioned case with the Clerk of the Illinois Pollution Control Board. A copy of said document is enclosed and is hereby served upon you.

Respectfully submitted,

THE CITY OF SYCAMORE

By: John Thomas Smith

One of its Attorneys

STATE OF ILLINOIS)

) ss:

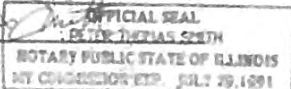
COUNTY OF DEKALB)

Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on March 11, 1991.

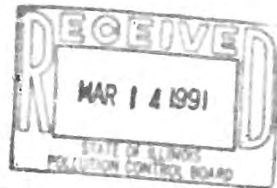
Cynthia Anderson

Subscribed and sworn to before me this 11th day of March, 1991.

Peter Thomas Smith
Notary Public



Peter Thomas Smith
Attorney for the Respondent
SMITH & STRAUSS
207 W. State Street
Sycamore, IL 60178
(815) 895-4591



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

MOTION FOR LEAVE TO FILE ANSWER AND AFFIRMATIVE DEFENSES

Pursuant to §§ 103.122(d) and 103.210 of Title 35: Environmental Protection, Subtitle A: Chapter I: Pollution Control Board Rules and Regulations, the Respondent, the CITY OF SYCAMORE, Illinois, a municipal corporation (CITY) by and through its Attorneys, PETER THOMAS SMITH and TIMOTHY JOHNSON, moves for leave to file its Answer and Affirmative Defenses to the Complainant's Complaint in the above captioned case. In support of its Motion, the CITY states that it has certain affirmative defenses which it wants to assert in this case, that it is necessary to do so in writing to prevent undue surprise to the Complainant, and allowing an answer to the Complaint will simplify the proof and factual issues when this case comes to hearing.

Respectfully submitted,

THE CITY OF SYCAMORE

By:

John Thomas Smith

One of its Attorneys

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GALLAGHER, KLEIN & BRADY
ATTORNEYS AT LAW

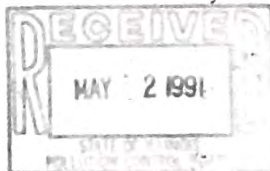
114 WEST STATE STREET
SYCAMORE, ILLINOIS 60178

TELEPHONE (815) 895-5141
FAX NO. (815) 895-8567

April 30, 1991

T. JORDAN GALLAGHER
KURT P. KLEIN
WILLIAM P. BRADY

LISA M. ROVE
JACK C. SLINGERLAND
BARBARA J. SLINGERLAND



DEKALB ILLINOIS OFFICES
SUITE 300
HILLCREST CENTER
444 EAST HILLCREST
DEKALB, ILLINOIS 60115
TEL. (815) 758-7491
FAX NO. (815) 758-5311

Illinois Pollution Control Board
Attention Ms. Elizabeth Harvey
State of Illinois Center
100 West Randolph Street, Suite 11-500
Chicago, IL 60601

Re: Herman W. Prescott v The City of Sycamore, Illinois
PCB No. 90-187

Dear Ms. Harvey:

Enclosed you will find Certificate of Mailing. Please file in the above captioned file. Thank you for your consideration.

Sincerely yours,

GALLAGHER, KLEIN and BRADY

By

Jack C. Slingerland
Jack.C. Slingerland

JCS:rj

Enclosure

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

CERTIFICATE OF MAILING

I, the undersigned, being first duly sworn on oath depose and state that I mailed Response to Respondent's First Request for Production of Documents and First Interrogatories propounded by the Respondent to:

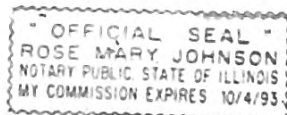
Mr. Peter Thomas Smith
Smith and Strauss
207 West State Street
Sycamore, IL 60178

by placing said document in a properly addressed envelope with sufficient postage and depositing it in a U.S. Mail receptacle at Sycamore, Illinois on the 1st day of May, 1991.

Subscribed and sworn to before me

this 1st day of May, 1991.

Rose Mary Johnson
Notary Public



GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

Original Do Not Remove

MARVIN I. MEDINTZ

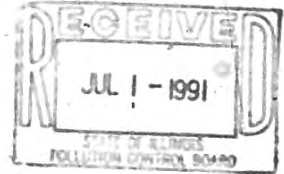
ATTORNEY AT LAW
35 EAST WACKER DRIVE SUITE 568
CHICAGO, ILLINOIS 60601

(312) 877-0150

June 26, 1991

Mr. Jack Slingerland
GALLAGHER, KLEIN & BRADY
114 West State Street
Sycamore, Illinois 60178

Mr. Peter T. Smith
SMITH & STRAUSS
207 W. State Street, P.O. Box 332
Sycamore, Illinois 60178



Re: Prescott v. Sycamore
PCB 90-187

Dear Attorneys:

This letter will constitute the order of the Hearing Officer pursuant to the pre-hearing conference held on June 14, 1991:

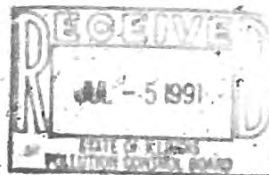
1. Discovery deadline is extended to July 9, 1991;
2. Hearing dates remain unchanged; and
3. Any motions for continuance shall be filed not later than July 3, 1991, and should be in full compliance with Board Procedural Rules regarding continuances.

MARVIN I. MEDINTZ
Hearing Officer

MIM/lmt
91-151.1t1

cc: Clerk, Illinois Pollution Control Board

Original Do Not Remove



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs

PCB NO. 90-187

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PROOF OF SERVICE

To: Mr. Marvin I. Medintz
Hearing Officer
35 East Wacker Drive - Suite 558
Chicago, IL 60601

Illinois Pollution Control Board
State of Illinois Center
100 West Randolph Street
Suite 11-500
Chicago, IL 60601

Mr. Peter T. Smith
Attorney at Law
207 West State Street
Sycamore, IL 60178

I, the undersigned being first duly sworn on oath depose and state that I served the above Motion to Continue and Waiver of Deadline on each person therein addressed by mailing a copy thereof on the 1st day of July, 1991.

Patrick C. Gallagher

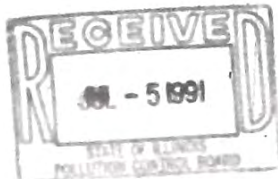
Subscribed and sworn to before me
this 1st day of July, 1991.

Rose Mary Johnson
Notary Public

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

OFFICIAL SEAL
ROSE MARY JOHNSON
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 10/4/93

0000 0623



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,
Complainant,

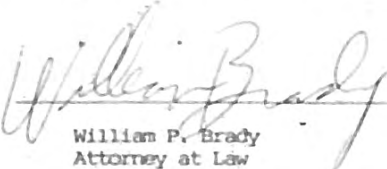
vs

THE CITY OF SYCAMORE, ILLINOIS,
Respondent.

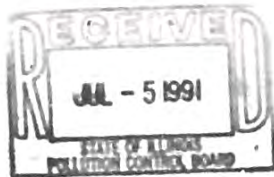
PCB NO. 90-187

WAIVER OF DEADLINE

Now comes your Complainant, HERMAN PRESCOTT, by and through his attorneys, GALLAGHER, KLEIN and BRADY, and hereby files with this Board a waiver of the deadline for final Board action as specified in Sections 3B, 40, 40.1 and 41 of the Act. Said waiver is an open waiver and is filed as a result of the Complainant's request for a continuance in the above entitled matter.


William P. Brady
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

MOTION TO CONTINUE

Now comes your Complainant, HERMAN PRESCOTT, by and through his attorneys, GALLAGHER, KLEIN and BRADY, and respectfully requests that the Hearing Officer enter an Order continuing the Hearing in the above entitled matter and as grounds therefor states the following:

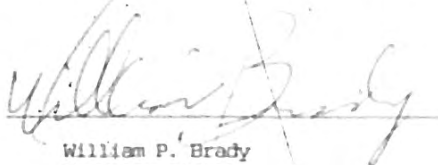
1. That this matter is presently set for hearing on July 10 and 11, 1991.
2. That the attorney handling the above entitled matter for your Claimant, HERMAN PRESCOTT, is JACK C. SLINGERLAND, who is a member of the Firm of GALLAGHER, KLEIN and BRADY.
3. That Mr. Slingerland's job duties have required him to be working with the Legislature in Springfield, Illinois during its Spring Session.
4. That it was anticipated that the Legislature would be completed with its work on or about June 30, 1991 and, therefore, Mr. Slingerland's job duties would have been terminated on or before that date.
5. That the State of Illinois Legislature has held over its session past the June 30th cut-off date which will materially affect Mr. Slingerland's ability to prepare for the hearing in the above entitled matter.

6. That the other attorneys with the firm are not sufficiently familiar with the file and they have conflicts for the dates set forth.

7. That July 1st is the last day upon which this motion may be filed and due to the uncertainty of the future, Mr. Slingerland presently believes that he will not be able to properly prepare for and attend the hearing presently set.

8. Counsel for Complainant has contacted Counsel for the City of Sycamore and has been advised that they are not objecting to the Motion for Continuance.

WHEREFORE, your Complainant respectfully requests that this Hearing Officer enter an Order continuing this matter for approximately thirty (30) days so that the Complainant may have proper representation at the hearing.



William P. Brady
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

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MARVIN I. MEDINTZ

ATTORNEY AT LAW

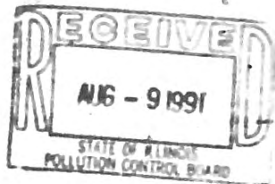
35 EAST WACKER DRIVE SUITE 568

CHICAGO, ILLINOIS 60601

(312) 977-0150

OF COUNSEL TO WOOLY & MARSH

August 8, 1991



Mr. Jack Slingerland
GALLAGHER, KLEIN & BRADY
114 West State Street
Sycamore, Illinois 60178

Mr. Peter T. Smith
SMITH & STRAUSS
207 W. State Street, P.O. Box 332
Sycamore, Illinois 60178

Re: Prescott v. Sycamore
PCB 90-187

Dear Attorneys:

This letter will serve as ORDER setting hearing in the above cause. Hearing will be held on October 2 and 3, 1991, beginning at 10:00 a.m. each day, in Room 505, Holmes Student Center, Lucinda and Normal Road, DeKalb, Illinois.

The parties are advised that this date is final.

Very truly yours,

Marvin I. Medintz

MIM/lmt
91-151.1t2

cc: ✓Clerk, IPCB
Ms. Roz Randall; Holmes Student Center



STATE
OF
ILLINOIS

POLLUTION CONTROL BOARD

STATE OF ILLINOIS, CENTER • 100 WEST RANDOLPH STREET • SUITE 11500 • CHICAGO, ILLINOIS 60601 • 312 814 3620

JOHN C. MARLIN, CHAIRMAN
URBANA, ILLINOIS

JOAN G. ANDERSON
WESTERN SPRING, ILLINOIS

JACOB D. DUMELLE
OAK PARK, ILLINOIS

RONALD C. FLEMAL
DEKALB, ILLINOIS

BILL S. FORCADE
CHICAGO, ILLINOIS

J. THEODORE MEYER
CHICAGO, ILLINOIS

MICHAEL L. NARDULLI
CHICAGO, ILLINOIS

August 14, 1991

Sycamore Republican News
Legal Notice Department
215 South Sacramento Street
P. O. Box 217
Sycamore, Illinois 60178

Dear Sir:

Please publish the notice as it appears one day only no later than August 30, 1991. Please publish legal style. Do not enlarge.

Enclosed is an Invoice-Voucher form. Please complete this form including your "FEIN" (Federal Employer Identification Number, Item 2 of the instructions). Return it to us along with your Certification of Publication for payment.

Very truly yours,

Adaleen Hogan
Assistant Clerk of the Board

ILLINOIS POLLUTION CONTROL BOARD
NOTICE OF HEARING

Public Notice is hereby given that the Pollution Control Board will hold a public hearing in the matter of PCB 90-187, Herman W. Prescott v. the City of Sycamore, on October 2 and 3, 1991 at 10:00 a.m., at the Holmes Student Center, Room 505, Lucinda and Normal Road, DeKalb, Illinois. This date is subject to change without notice and may be confirmed by contacting the Office of the Clerk, 312/814-3620.

John C. Marlin
Chairman

181-187

Attn: **PUBLIC NOTICE**
SILICON POLLUTION
NOTICE OF HEARING
Public Notice is hereby given that the following persons have filed and been appointed as parties to the matter of No. 8-90-187 regarding the proposed siting of a hazardous waste transfer station on the property of the City of San Jose, California, known as the "San Jose Transfer Station".
Interested parties are invited to appear at the hearing and be heard. The date is subject to change and interested parties may be disappointed by sight.
The Office of the Hearing Officer is located at:
1100 S. 1st Street
San Jose, California 95128
Telephone: 438-3333
FAX: 438-3334

Published in the
Supplement for
1999

Given under my hand and seal:

Mad. C. C. C.
(Signature of publisher)

Original Do Not Remove

MARVIN I. MEDINTZ

ATTORNEY AT LAW

35 EAST WACKER DRIVE SUITE 560

CHICAGO, ILLINOIS 60601

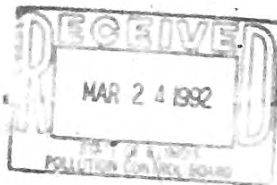
(312) 577-0160

ST. PETERSBURG TO MOBILE & MAUND

March 23, 1992

Jack C. Slingerland
GALLAGHER, KLEIN & BRADY
114 West State Street
Sycamore Illinois 60178

Mr. Peter Thomas Smith
SMITH & STRAUSS
207 West State Street
P.O. Box 332
Sycamore, Illinois 60178



Re: Prescott v. Sycamore
PCB 90-167

Dear Attorneys:

Please consult with each other and report back to me with the following information:

1. How many days of hearings this matter will require; and
2. What consecutive days during the first half of May, 1992 the parties can agree the hearings should be held.

If I do not hear from you within seven days after the date of this letter, I will set the matter for hearing at my convenience.

After the hearing date is set, I will allow no further continuances.

Very truly yours,

Marvin I. Medintz

MIM/lmt
91-1511t.1

cc: Clerk, IPCB

Prescott

PCE 10/107

City of Sycamore

HEARING OFFICER SCHEDULING ORDER

The following schedule shall govern the completion of record in this proceeding:

1. Decision Due-Date (based on Board Meeting Schedule):

N/A

2. Statutory Decision Deadline:

N/A

3. Date Initial Petition Filed:

N/A

4. Date of Most Recent Amendment of Petition (if any):

N/A

5. Date Hearing was Scheduled:

April 27, 1992

6. Discovery Cut-Off Date (if applicable):

N/A

7. Pre-Hearing Conference Date (if any):

N/A

8. Date of Hearing: June 2, and 3, 1992*

[The initial hearing must be scheduled for a date at least 40 days after the date that notice of the hearing is communicated to the Clerk of the Board and at least 35 days prior to the Decision Due-Date. Rescheduled hearings must be scheduled for a date at least 50 days after the date of notice is communicated to the Clerk and at least 40 days prior to the Decision Due-Date. All hearings must be completed at least 35 days prior to the Decision Due-Date.]

9. Date for Filing Petitioner's Brief (if any):

10. Date for Filing Respondent's Brief (if any):

11. Date for Filing Reply Brief (if any):

[The date for submission of the final brief must be at least 20 days prior to the Decision Due-Date.]

NOTE: No motion to reschedule a hearing will be granted unless it is accompanied by at least a 120-day waiver of the then applicable Statutory Decision Deadline and the requested hearing date is at least 50 days after the date of the motion. Other dates may be extended so long as such extension will not interfere with the timing of the hearing and will allow the Board at least 30 days to consider the entire case record prior to the Decision Due-Date.

ENTER: April 27, 1992

*beginning each day at 10:00 A.M.
at the Sycamore City Hall, Council
Chambers, 535 DeKalb Avenue,
Sycamore, IL 60178

Marvin I. Medintz
Hearing Officer

Notes on Scheduling Order

- 1 & 2 The Decision Due-Date and the Statutory Decision Deadline will be supplied to you by the Clerk of the Board at the time the case is offered to you. The Statutory Decision Deadline is calculated according to the applicable decision period under the Illinois Environmental Protection Act, as modified by waivers or the filing of amended petitions in variance cases. The Decision Due-Date is simply determined by the date of the Board meeting immediately prior to the Statutory Decision Deadline. The Clerk will inform you of any changes in the deadlines. Any questions regarding the Decision Due-Date or the Statutory Decision Deadline should be directed to the Clerk's Office, 312/917-3629.
5. Each time a hearing is scheduled, a new Scheduling order must be issued. The date on which notice was given to the Clerk of the Board (which should be by telephone, followed by written confirmation) of the scheduling of the hearing should be filled in here.
8. The Date of Hearing must be established to allow sufficient time for notice to be published (at least 40 days) and sufficient time for Board decision (at least 35 days from the Date of Hearing). Even these time periods are tight however. Therefore, if the hearing is rescheduled, the Board will require a waiver which allows these dates to be extended somewhat (from 35 to 40 for decision and from 40 to 50 for notice).
- 9, 10 & 11 There is no right to file a brief. However, if time allows, Briefs may be filed so long as the final brief is filed at least 20 days prior to the Decision Due-Date.

NOTE:

If hearing is to be rescheduled, the petitioner (or landfill applicant) must waive the Statutory Decision Deadline for at least 120 days. Essentially, the petitioner (or landfill applicant) is requesting the entire proceeding to be restarted. A 120 day waiver will allow at least 50 days for newspaper notice and 40 days subsequent to hearing for briefing and Board decision. As noted under #8, above, this provides somewhat looser constraints on the progress of the proceeding.



STATE
OF
ILLINOIS

POLLUTION CONTROL BOARD

STATE OF ILLINOIS CENTER • 100 WEST RANDOLPH STREET • SUITE D 500 • CHICAGO, ILLINOIS 60601 • 312 814 3620

JOHN C. MARLIN, CHAIRMAN
URBANA, ILLINOIS

JOAN G. ANDERSON
WESTERN SPRINGS, ILLINOIS

RONALD C. FLEMAL
DEKALB, ILLINOIS

BILL S. FORCADE
CHICAGO, ILLINOIS

G. TANNER GIRARD
GRAFTON, ILLINOIS

J. THEODORE MEYER
CHICAGO, ILLINOIS

MICHAEL L. NAROUZZI
CHICAGO, ILLINOIS

April 29, 1992

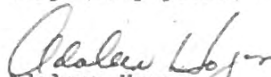
Sycamore Republican News
Legal Notice Department
215 South Sacramento Street
P. O. Box 217
Sycamore, Illinois 60178

Dear Sir:

Please publish the notice as it appears one day only, no later than May 8, 1992. Please publish legal style. Do not enlarge.

Enclosed is an Invoice-Voucher form. Please complete this form including your "FEIN" (Federal Employer Identification Number; Item 2 of the instructions). Return it to us along with your Certification of Publication for payment.

Very truly yours,


Adaleen Hogan
Assistant Clerk of the Board

ILLINOIS POLLUTION CONTROL BOARD
NOTICE OF HEARING

Public Notice is hereby given that the Pollution Control Board will hold a public hearing in the matter of PCB 90-187, Herman W. Prescott v. The City of Sycamore, on June 2 and 3, 1992, at 10:00 a.m., at the Sycamore City Hall, Council Chambers, 535 DeKalb Avenue, Sycamore, Illinois. This date is subject to change without notice and may be confirmed by contacting the Office of the Clerk, 312/814-3620.

John C. Marlin
Chairman

Mark Oliverius

Publication of Notice

Do hereby

I certify that I am the publisher of The Kishwaukee Independent
 a weekly secular newspaper of general circulation
 within the county(s) of DeKalb
 regularly published in the city of Sycamore
 in the county of DeKalb and state of Illinois, and which has been so published

for more than 12 months prior to the first publication of hereunto annexed notice or advertisement.

relating to the matter of Illinois Pollution Control Board

Notice of Hearing

was published in said newspaper 1 times, being 1 consecutive week
 commencing May 6 A.D. 1992
 and ending May 6 A.D. 1992

which were the dates of first and last insertions, I further certify that said newspaper is a newspaper as defined by the terms and conditions of Chapter 100, paragraph 1 et. seq. Illinois Revised Statutes 193).

Given under my hand at Sycamore Illinois

Mark Oliverius
 Publisher

MAY 13 1992

NOTICE OF HEARING

ILLINOIS POLLUTION CONTROL BOARD

Public Notice is hereby given that the Pollution Control Board will hold a public hearing on the matter of PCB 90-187 Herman W. Prescott v. The City of Sycamore, on June 2 and 3, 1992, at 10:00 A.M. at the Sycamore City Hall Council Chambers, 53 DeKalb Avenue Sycamore, Illinois. This date is subject to change without notice and may be confirmed by contacting the Office of the Clerk, 312-614-3620.
 John C. Martin
 Chairman
 (Published in the Kishwaukee Independent May 6, 1992)
 W17689

703-91-187

Original Do Not Remove

MARVIN I. MEDINTZ,

ATTORNEY AT LAW

35 EAST WACKER DRIVE SUITE 900

CHICAGO, ILLINOIS 60601

312 977 0150

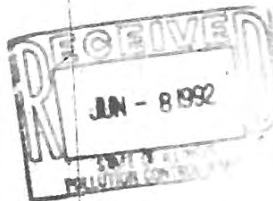
June 8, 1992

Clerk

ILLINOIS POLLUTION CONTROL BOARD

100 W. Randolph Street, Suite 11-500

Chicago, Illinois 60601



Re: Herrman W. Prescott v. The
City of Sycamore
PCB90-187

Dear Clerk:

I conducted the hearing in the above cause on June 2, and June 3, 1992, at the Sycamore City Hall.

Enclosed herewith are the hearing exhibits: Complainant 1-5, 7-11, and 13; Respondent A, C-N.

The briefing schedule is: Complainant's Initial Brief is due July 15, 1992; Respondent's Brief is due July 29, 1992; Complainant's Reply Brief is due August 5, 1992.

All witnesses were credible. Thus, credibility of witnesses is not an issue.

Please call me if you have any questions regarding this matter.

Very truly yours,

Marvin I. Medintz

MIM/lmt
91-151LTR.2

Enclosures

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Smith & Strauss

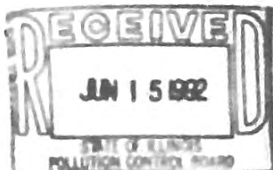
PETER THOMAS SMITH
MARK J. STRAUSS

ATTORNEYS AT LAW
207 W. STATE STREET
CHICAGO, ILLINOIS 60601

MAIL
P.O. BOX 112
TELEPHONE
312-461-4201
TELEFAX
312-461-5425

June 11, 1992

Clerk of the Illinois Pollution
Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601



Re: Prescott v. City of Sycamore, PCB No. 90-187
Our File: 900068.004

Dear Clerk:

Enclosed you will find an original and copy of a Stipulation in the above referenced case. Please file these documents and return the copy to us in the enclosed self addressed stamped envelope. Please contact Mr. Peter Thomas Smith if you have any questions regarding this matter.

Sincerely,

SMITH & STRAUSS

Edward T. Short

Edward T. Short

enc.

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE, ILLINOIS,

Respondent.

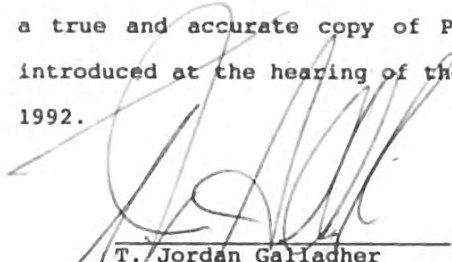
PCB No. 90-187

STIPULATION

TO: Mr. Marvin I. Medintz
Attorney At Law
35 East Wacker Drive
Suite 568
Chicago, IL. 60601

Clerk of the Illinois Pollution
Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL. 60601

The attorneys for the Petitioner and Respondent stipulate and agree that the document attached as Petitioner's Exhibit 12 is a true and accurate copy of Petitioner's Exhibit 12 as it was introduced at the hearing of the above referenced case on June 3, 1992.


T. Jordan Gallagher
Attorney for Complainant
114 West State Street
Sycamore, Illinois 60178


Peter Thomas Smith
Attorney for Respondent
207 West State Street
Sycamore, Illinois 60178

CERTIFICATE OF SERVICE

STATE OF ILLINOIS)
COUNTY OF DEKALB) SS:

Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Stipulation upon the foregoing named parties by enclosing a copy of the said Stipulation in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on June 11, 1992.

Cynthia Anderson
Cynthia Anderson

Subscribed and sworn to before me June 11, 1992.


Peter Thomas Smith
Notary Public

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
 Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL 61105-Phone (815) 987-7760

 County/Supply DeKalb / Syracuse Interviewed _____ Date 2-21-90

Address _____ Phone _____

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

 Changes Complaint of low and no chlorine residual
in the past.

The following checked items were discussed during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices.

#	X	ITEM	#	X	ITEM	#	X	ITEM
1		WELL OR SOURCE	9		SEDIMENTATION	17		RECORD KEEPING
2		CHLORINATION	10		FILTRATION	18		TESTING
3		FLUORIDATION	11		WASTE DISCHARGE (NPDES)	19		OPERATIONAL REPORTING
4		METERING	12		STORAGE	20		BACTERIOLOGICAL QUALITY
5		SOFTENING	13		DISTRIBUTION	21		MINERAL QUALITY
6		AERATION	14		OWNERSHIP	22		ADEQUACY
7		REACTION BASIN	15		FINANCIAL	23		
8		FLOCCULATION	16		OPERATOR CERTIFICATION	24		

ITEM	REMARKS AND RECOMMENDATION FOR CORRECTIONS	CORRECTED BY
	A visit was made to the Syracuse water supply to check the chlorine residual at the Prescott Residence on East Exchange street due to complaint of low or non evident chlorine residuals in their distribution system area. A total chlorine residual of 0.2 ppm & a free chlorine residual of 0.2 ppm was found.	

 Free Chlorine Residual 0.2 mg/l, Location of Test E Exchange St. B. Sample Collected 0

 Agency Person Frank Dando FY 19 _____ F/U _____

 Report Received By _____ Class/Cert.# 1 F/U _____

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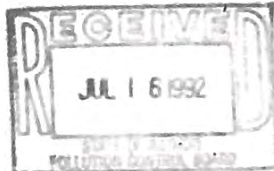
**GALLAGHER, KLEIN & BRADY
ATTORNEYS AT LAW**

114 WEST STATE STREET
SYCAMORE, ILLINOIS 60178

TELEPHONE (815) 895-5141
FAX NO. (815) 895-5567

T. JORDAN GALLAGHER
KURT P. KLEIN
WILLIAM P. BRADY

LISA M. ROYE
JACK C. SLINGERLAND
BARBARA J. SLINGERLAND
PAUL D. ANDERSON



DEKALB, ILLINOIS OFFICES
SUITE 300
HILLCREST CENTER
444 EAST HILLCREST
DEKALB, ILLINOIS 60115
TEL. (815) 758-7491
FAX NO. (815) 758-5311

July 15, 1992

Ms. Dorothy M. Gunn
Clerk of the Pollution Control Board
State of Illinois Center
100 West Randolph
Suite 11-500
Chicago, IL 60601

Re: Herman W. Prescott vs The City of Sycamore, Illinois
No. 90-187

Dear Ms. Gunn:

Please file the enclosed Notice of Filing and Brief and Closing Argument of Complainant in the above captioned case. Also enclosed is an extra copy of the documents. Please file stamp the copy and return it to my office in the stamped self-addressed envelope. If you have any questions or comments, please contact my office. Thank you for your cooperation in this matter.

Sincerely yours,

GALLAGHER, KLEIN and BRADY

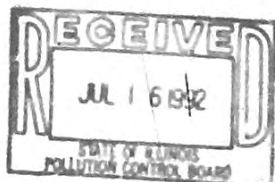
By

Barbara J. Slingerland
Barbara J. Slingerland

BJS:rj

Enclosure

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

NOTICE OF FILING

To: Mr. Marvin I. Medintz
Hearing Officer
35 East Wacker Drive - Suite 568
Chicago, IL 60601

Mr. Timothy Johnson
Attorney at Law
315 West Elm Street
Sycamore, IL 60178

Mr. Peter T. Smith
Attorney at Law
207 West State Street
Sycamore, IL 60178

YOU ARE HEREBY NOTIFIED that on the 15th day of July, 1992, I filed the original and nine copies of the Brief and Closing Argument of Complainant with the Illinois Pollution Control Board by mailing said documents to Dorothy M. Gurn, Clerk of the Pollution Control Board, State of Illinois Center, 100 West Randolph, Suite 11-500, Chicago, IL, 60601.

Robert J. Fitzgerald

Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

PROOF OF SERVICE

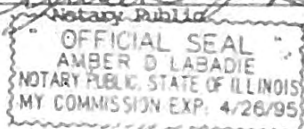
I, the undersigned being first duly sworn on oath depose and state that I served the above Notice on each person therein addressed by ~~(hand delivery or mailing)~~ a copy thereof on the 15th day of July 1992.

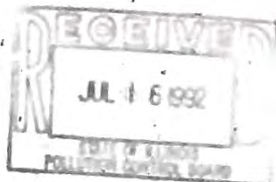
Jose Maria Lopez

Subscribed and sworn to before me

this 15th day of July 1992.

Amber D. Labadie





BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs
THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

BRIEF AND CLOSING ARGUMENT OF COMPLAINANT

(PROPOSED FINDINGS OF FACT AND CONCLUSIONS OF LAW)

Now comes your Complainant, HERMAN W. PRESCOTT, by and through his attorneys, GALLAGHER, KLEIN and BRADY, and for his Brief and Closing Argument, states as follows:

I. PROPOSED FINDINGS OF FACT

The Complainant, Herman W. Prescott, filed a Complaint with the Illinois Pollution Control Board on or about October, 1990. The Complainant alleged, inter alia, that an insufficient chlorine residual was being maintained in the area of the City of Sycamore in which he resided. The Complainant alleged a violation of Section 653.604 of Subtitle F, Chapter II, of the Board Regulations, 35 ILL.ADM.CODE. This section provides that

"A minimum free chlorine residual of 0.2 MG/L or a minimum combined residual of 0.5 MG/L shall be maintained in all active parts of the distribution system at all times".

The Respondent, City of Sycamore, filed an answer denying that it was in violation of the Act and/or Board Regulations.

A hearing was conducted before Mr. Marvin Medintz, Hearing Officer, on the 2nd and 3rd of June, 1992. In the opinion of the Hearing Officer, all parties testified candidly and truthfully. (R.479) The evidence at the hearing established that the waterline going to the Complainant's residence dead ends at a hydrant. (R.45,145,339-340) According to testimony and exhibits of the plans for the project, the Complainant receives water through a 4 or 6 inch pipe which was connected to the main water system and run straight (as versus looped) for 230 or 265 feet until it dead ended at the hydrant. (R.44-5,340,350, Complainant's Group Exhibit "1")

All of the expert testimony indicated that such a dead ended line causes water to sit, and that chlorine levels go down as a result of a lack of sufficient water flowing through the pipe. (R.145,399,429) Mr. Leonard Lindstrom, the Regional Supervisor of the Elgin and Rockford Regions of the E.P.A., has an educational background and over thirty years experience in the area of public water supply (R.80-2). He testified that a dead end line causes low chlorine residual. (R.145) Mr. Lindstrom testified that there was also a problem with Well No. 1 requiring treatment for iron, that Well No. 1 fed into the area in question, and that the added iron from Well No. 1 affected the chlorine residual. (R.147-9) In his opinion "the major problem for (the Complainant) was his dead end main from which he took service". (R.150) He believed "that the water quality in that area could be better (and that it was) a very poor situation for the City to leave users with..." (R.153) Even if the dead end main is cement lined, Mr. Lindstrom believed,

there could still be a growth of sulfate reducing bacteria and a corresponding rotten egg smell. (R.178-9).

Mr. Lindstrom had been to the Complainant's residence and testified that the Complainant is in a low flow area. (R.144) He testified that "low flow areas are inactive areas where it's extremely difficult to maintain the chlorine residual...", but that they are "certainly...part of the distribution system and the people there certainly shouldn't be discriminated against because they live in the corner of town". (R.214)

The Complainant first moved to Sycamore and the residence in question in November of 1988. (R.23) The first time he turned on the water it came out black and had a terrible odor of rotten eggs. (R.23) He called the builder who said to flush the hydrant; when the hydrant was flushed, the water was no longer black, but still had an odor. (R.24) The Complainant then called the Water Department and spoke with the City's Water Supervisor, Mr. Albrecht, who came to see him. (R.25) When Mr. Albrecht said there was nothing he could do, the Complainant went to the Mayor of the City of Sycamore, and also contacted a company regarding the purchase of a water filter. (R.26) After the filter was installed, an odor still remained, and the Complainant contacted the E.P.A. (R.27) The Complainant still noticed an odor from the water even after removing a manganese core from his water heater. (R.69)

An E.P.A. agent came out and tested the water; when the agent's test results came back, the Complainant was advised to file a complaint with the Illinois Pollution Control Board. (R.27) During one of the occasions that the E.P.A. was testing his water, the Complainant volunteered to do some of the tests so that the results could be obtained faster. (R.28) The E.P.A. representative lent him a test kit and advised him that a similar kit could be

obtained from the Hach Company in Colorado. (R.28-9) The Complainant obtained a Hach kit, and it was admitted into evidence as Complainant's Exhibit "2". (R.29-30,229)

The Complainant conducted tests for total chlorine residual levels according to the directions which came with the kit, and according to the instructions given him by the E.P.A. representative. (R.30,44) The kit used by the Complainant was identical to the kit used by the E.P.A. (R.32, 127-8,451) The Respondent's consultant, Mr. Lookis testified that about one-half of the water systems that he was familiar with used the Hach Test. (R.396-7) Mr. Lindstrom testified that the Hach Test has a plus or minus .1 error ratio. (R.160) The Environmental Consultant, Mr. Mangan, testified that the Hach Test for chlorine had an error of 10% to 20%. (R.416) The City of Sycamore used the Hach test kit to check for chlorine residual levels. (R.260-1,270)

The Hearing Officer specifically found that the Complainant's tests were sufficient to produce a reliable result. (R.26) Complainant always ran the water for five minutes, and always took the water from an outside tap which was not connected to a water softener. (R.33). He always rinsed out the vials which he used for testing with water from an outside tap as required by the kit's instruction. (R.64,67) The water for the test done on his residence came through a hose, and tests for other residents came out of a faucet. (R.69) The Environmental Consultant, Mr. Mangan, testified that running the test water through the hose could have caused more chlorine content. (R.422) The Complainant waited as close to three minutes as he could get with a wrist watch before checking the results. (R.72-3)

Mr. Lindstrom from the E.P.A. testified that he also washes out the tubes with water from the line. (R.163). He testified that "the chlorine test is not one in which there are a lot of doubts about what the results are," (R.165). He further testified that "the chlorine test is such that if there is a lot of chlorine there, it turns red and it is readily apparent to anyone...if there is practically no chlorine when you shake it up, it will be just a tinge, and it is readily apparent to everybody that there is practically no chlorine in the water; and if you shake it up and it stays clear or it doesn't have any red color to it at all, then we say there is no chlorine." (R.158). Mr. Lindstrom sometimes uses his finger on the top of the vial when shaking it. (R.160). He testified that the development of chlorine readings is quite rapid, "its not a case of waiting for the full three minutes to get most of the residual." (R.167). Mr. Mangan, the Respondent's consultant, admitted that chlorine dissipates quickly, so generally tests must be run at the site as versus in a lab. (R.432-3)

The Complainant's Exhibits "3", "4" and "5" represent the dates, times of day and readings for total chlorine as recorded by the Complainant, and admitted into evidence. (R.35-9,227). The readings were taken between November 22, 1989 and May 30, 1992. (Complainant's Exhibits "3-5"). In late 1989 and early 1990, the readings ranged between .0 and .03, except for readings at the Complainant's residence taken on January 1 and 22 of 1990, which reflected rates of .4. (Complainant's Exhibit "3") The readings from October 24, 1990 through December 30, 1990, reflect readings of mostly .0, with several .2s and one .3. (Complainant's Exhibit "4"). The test results for April 7, 1992 through May 30, 1992 reflect readings ranging from .0 to .05. (Complainant's Exhibit "5")

The Complainant met with Mr. Lindstrom from the E.P.A. in the fall of 1989 and discussed the water problem. (R.83) On December 7, 1989, Mr. Lindstrom met with the Mayor of Sycamore, the Water Department Supervisor, Mr. Albrecht, and most of the City Council members to discuss complaints of odor and red and black water. (R.87-8) Mr. Lindstrom was aware that a petition had been signed by quite a number of people about a problem with the water in the area where the Complainant resided. (R.110)

Mr. Albrecht, the Water Supervisor for the City of Sycamore, also testified to having heard complaints about rust and smell in the water from the area where the Complainant resided. (R.233) Mr. Albrecht testified that his January 3, 1989 testing of the water at issue showed the presence of sulphur reducing bacteria which would cause an odor in the water. (R.282) Mr. Albrecht further testified that after Well No. 1 had been closed in December, 1989, the water in the area in question became dirty again and smelled like rotten eggs. (R.253) He admitted that many protesters came to a Council Meeting. (R.257) The Respondent's consultant, Mr. Lookis, was also familiar with the water problems in the area in question. (R.358,390) Mr. Purcell from the E.P.A. who had conducted testing in the area in question also testified that on June 6, 1990, he had detected an odor from the water in the area. (R.465-7)

E.P.A. Representatives had gone door-to-door in the area in question, and had heard complaints. (R.110) The E.P.A. conducted a survey on or about November, 1990, which was admitted into evidence as proof that the E.P.A. was trying to determine if a problem existed and what measures to take as a result of any such problem. (R.99-101,122-4, Complainant's Exhibit "9") The E.P.A. received 62 responses out of approximately 100 (R.104), and advised the City of the survey results via a letter written by Mr. Purcell, and admitted into evidence as Complainant Exhibit "8". (R.99,475)

Mr. Lindstrom testified that, based on his training and experience, black water is caused by iron sulfide, iron sulfide is in turn made when iron combines with hydrogen sulfide; and hydrogen sulfide smells like rotten eggs. (R.92,95-6) To remedy a black water/rotten egg odor, Mr. Lindstrom testified that a chlorine residual must be maintained out in the distribution system to get rid of the hydrogen sulfide. (R.97) Mr. Lindstrom determined that in the area where the Complainant resided, there was a problem due to low chlorine in many places and no chlorine in some places. (R.139-140)

Mr. Lindstrom testified that at his December 7, 1989 meeting with the City, he recommended that the City monitor the level of chlorine residual, and open the hydrants in the area in question until the chlorine could flow into the area; he felt this would help more than anything else. (R.174) Mr. Lookis, the Respondent's consultant, agreed with Mr. Lindstrom that flowing the hydrant on the property at issue would help to get the water moving through the line and bring up the chlorine residual level. (R.400-2) Mr. Mangan, also a consultant for the Respondent, admitted that opening the hydrants would temporarily solve problems. (R.435) Mr. Mangan estimated that it would take 85 minutes to run the water from the line through a household tap in order to get a sample of water from the main distribution system." (R.425,436) If a hydrant had been opened, he testified it would take only approximately 6 minutes. (R.427)

The City of Sycamore received a letter dated July 20, 1990 from the E.P.A. (R.243-4, 137, Complainant's Exhibit "7") In that letter, the City was advised that the area in question, and particularly the Complainant's residence, was being supplied with water in violation of the Illinois Pollution Control Board's Rules and Regulations. (Complainant's Exhibit "7") The City was advised that the E.P.A. "expected" that "hydrants will be flowed

as necessary to maintain a 0.5 mg. 11 chlorine residual in the system...".
(Complainant's Exhibit "7")

Mr. Lindstrom testified that the City did not cooperate in opening the hydrants and letting them flow. (R.172) Mr. Albrecht admitted that the City only flushed some of its hydrants, and flushed these only twice a year. (R.238) He also admitted that the City does not flush the hydrant in front of the Complainant's residence. (R.300) Finally, Mr. Albrecht admitted that hydrants in the area in question were never allowed to flow for any great length of time such as an hour or two a day for a period of 3 weeks as recommended by the E.P.A. (R.300)

Mr. Lindstrom testified that the E.P.A. had tested the water in the area where the Complainant resided and had found that the area was without a chlorine residual. (R.110-111) The E.P.A. tested for "total" chlorine residual level, as did the Complainant. (R.132) Mr. Lindstrom testified that the terms "combined" and "total" are interchangeable. (R.98) Tests were run both from the hydrants and the residences. (R.126) When the E.P.A. tested in May, 1990, Mr. Albrecht from the the City went with Mr. Lindstrom and hydrants were opened for testing. (R.129) In May, 1990, the residences were checked for chlorine residuals by Mr. Purcell of the E.P.A. (R.129) Their tests revealed that a good chlorine residual existed to the west of the area in question (the main system), but that low chlorine was present in the water at or near Complainant's residence (along the dead ended line). (R.130-1)

Mr. Purcell of the E.P.A. testified that he tested the water at the Complainant's residence on May 23, 1990, and obtained readings of .15 total chlorine and .1 free chlorine. (R.458) He tested the Complainant's water on June 6, 1990 and obtained readings of 0.0 for both total and free chlorine. (R.460,1) He also tested the Complainant's water on June 14, 1990 and

received a reading of .1 for both free and total chlorine. (R.462) Mr. Purcell further testified that on June 26, 1990, he obtained 0.0 readings at the Complainant's residence. (R.463) Finally, on July 10, 1990, he tested the Complainant's water and received readings of 0.0 for both total and free chlorine. (R.465) He testified that when he was at the Complainant's residence, he would first try the hose, and if he found no chlorine, he would then use the faucet directly for testing. (R.464)

Complainant's Exhibit "7" which was admitted into evidence, is a letter sent by Mr. Lindstrom to the City on or about July 20, 1990. (R.129,474) Page 3 of that letter recited that Section 653.604 of the Board Regulations required a minimum combined chlorine residual of 0.5 MG/L to be maintained in the distribution system, and set forth certain chlorine residual measurements taken in the area in question, along with the dates upon which they were obtained. (Complainant's Exhibit "7") The readings for the chlorine in the water at the Complainant's residence, i.e., 462 Exchange Street, ranged from 0.0 to 0.2. (Complainant's Exhibit "3") These were measurements of total chlorine. (R.132) These tests were conducted either by Mr. Lindstrom or someone under his supervision. (R.133)

Mr. Albrecht, the City Water Supervisor, admitted that when he tested the area in question in November of 1988, he found no chlorine. (R.255-6) During the testing, both Mr. Lindstrom and Mr. Albrecht read the results. (R.192) Mr. Albrecht corroborated Mr. Lindstrom's testimony regarding the results of the testing of the hydrants in May, 1990. (R.294-5) Mr. Albrecht also had no dispute with the test results as reflected in the letter from Mr. Lindstrom to the City on or about July 20, 1990. (R.295)

On May 8, 1990 when Mr. Lindstrom was testing the hydrants with Mr. Albrecht, they were unable to open one or two hydrants which were in the heart

of the area where the Complainant resided. (R.190-1) Mr. Albrecht did not deny that the hydrants could not be opened, but testified that they did work now, at the time of hearing. (R.244) Mr. Albrecht testified that he wrote a response to the E.P.A.'s letter of July 20, 1990, wherein he stated that the hydrants were scheduled to be replaced in May, and that one reason that the hydrants hadn't been open after March was because of the weather and because they had been moving other hydrants. (R.246, Respondent's Exhibit "B")

The parties stipulated at the hearing that the Complainant's Group Exhibit "1" were true and correct copies of correspondence between the City of the Sycamore and the Illinois Environmental Pollution Agency with regard to the water service at or near the Complainant's residence. (R.74-5) The City Engineer, Mr. John Brady, had sent the E.P.A. a permit application for the water supply project at issue on or about April 15, 1988. (Complainant's Exhibit "1") The City's Water Supervisor, Mr. Albrecht, testified that he thought permits were required for the project at issue. (R.18) The City of Sycamore received a letter dated May 4, 1988 from Illinois E.P.A. stating that the Agency was denying approval of the proposed water supply project at the Exchange Street Townhouses, the line in question. (R.335, Complainant's Exhibit "1")

Mr. Brady, the City Engineer, admitted that the application had been denied after the City had joined in the application. (R.335) Mr. Brady testified that he felt the E.P.A. had wanted to make sure that the City would be responsible for the supervision and operation of the line in question. (R.335-6) The application was sent by Mr. Brady to the E.P.A. on behalf of the City, and was sent approximately two months after the plans for the project at issue had already been approved by the City. (R.336-7) Mr. Brady

admitted that the City was to have the sole responsibility for the supervision and operation of the line in question in perpetuity. (R.339) He further admitted that the line in question was supposed to be in compliance with local laws. (R.338). He argued that there was no formal agreement with Mr. Kohler, the owner of the property at the time of development, but admitted that the City had issued occupancy permits even after they were aware that the E.P.A. had denied the permit for the water. (R.346-8).

Of the Respondent's testing exhibits, only Exhibit "F" contains readings from the area at issue. (R.302-3) Mr. Albrecht testified that the hydrant at or nearest the Complainant's residence had been flushed once in 1989. (R.300) Respondent's Exhibit "F" reflects that the hydrant at or near the Complainant's residence was tested at 1:00 a.m. on November 22, 1989 with readings of .7 free and .9 total, but that when it was retested two hours later at 3:00 a.m., results of only .3 free and .4 total were obtained. (Respondent's Exhibit "F") It is logical and reasonable to infer that this hydrant was flushed just before the 1:00 a.m. testing. Mr. Albrecht admitted that the tests which are recorded in Respondent's Exhibit "G" were taken immediately after fire hydrants had been flushed and chlorine levels were thus up. (R.298) Mr. Lookis also admitted that in the Respondent's Exhibit "G", the readings have been taken right after a flushing where new water had been brought in and all the old water taken out. (R.393)

CONCLUSION/ARGUMENT

The evidence establishes that the Respondent is the official custodian of the water supply system at issue in this matter. The Respondent, through its City Engineer, submitted an application to the E.P.A. for a permit to

construct a dead end water line to service the Complainant's residence, and informed the E.P.A., in its cover letter, that the City would be supervising the operation, maintenance and repair of this line.

In the application, the City's Mayor signed an acknowledgement that "The City of Sycamore shall have the sole responsibility for the "Supervision" and "Operation" of all water main extensions upon completion of installation and in perpetuity.." The City approved the plans for the project two months before submitting this application, and approved the plans without any written approval from the E.P.A. The E.P.A. denied its approval of the application and the project, but the City went ahead and issued occupancy permits to the Complainant and others in the area, even though the City was aware that the E.P.A. had not given its written approval.

The evidence establishes that the Respondent failed to maintain a free chlorine residual of 0.2 MG. 11 or a combined residual of 0.5 MG. 11 in all active parts of its distribution system at all times. In addition, the evidence establishes that the Respondent failed to provide for the maintenance of its water supply so that water was assuredly safe in quantity, clean, adequate in quantity and of satisfactory mineral quality for ordinary domestic use. The City allowed a dead end line to be added to its distribution system. This dead end line was²"active" in that it actively serviced the townhouses where the Complainant resided; it was not a line which had been closed or sealed off from use by the public.

This dead end line causes the insufficient circulation of the water, leading to an iron buildup, a loss of chlorine residual, and a resultant growth of odor causing bacteria forming hydrogen sulfide. Although the City argues that the tests for "total" or "combined" chlorine conducted by the E.P.A. and the Complainant do not establish that the levels of free chlorine

were inadequate, the City's Water Supervisor has admitted the accuracy of the E.P.A. tests for "free" chlorine on May 23, 1990, June 6, 1990 and June 26, 1990. These tests revealed not only insufficient total or combined chlorine residuals, but also "free" chlorine results of only .1, .0 and .0 respectively. Moreover, the City's own testing on January 3, 1989 showed the presence of sulphur reducing bacteria. The City offered no recent test results of the water specifically at issue in this matter; i.e., water at or near the Complainant's residence.

The Complainant, on the other hand, offered the results of 23 tests taken between April 7, 1992 and May 30, 1992, all of which show chlorine to be almost non-existent in his water.

The City has been well aware of the problem with the Complainant's water since 1988. The City failed to take any action to correct the problem. The City was specifically and repeatedly advised by the E.P.A. that they should regularly flush the old, standing water out of the dead end line in order to improve the chlorine level by bringing in new water. The City has admitted that it failed to follow this advice, and has admitted that the hydrant at or near the Complainant's residence has not been flushed since 1989. The City never opened the hydrant for an hour or two a day for a period of three weeks, or let it slowly leak as recommended to them by Mr. Lindstrom. In fact, the City's own experts agreed that this would have been a solution, and the evidence established that the line could be drained and filled with new water in a matter of 6 minutes if the hydrant was opened, and in a matter of 85 minutes if a household tap was used for draining. It is thus clear that compliance with Board Regulations would not impose an arbitrary or unreasonable hardship on the City.

II. PROPOSED CONCLUSIONS OF LAW

Section 15 of Title IV (Public Water Supplies) of the Environmental Protection Act, Ill.Rev.Stat., Ch. 111 1/2, 101 et seq. provides that owners or legal custodians of public water supplies shall submit plans and specifications to the agency and obtain written approval before construction of any proposed public water supply installation, change or addition is started. Section 601.105 of Title 35, Subtitle F, Chapter I, of the Act, defines "official custodian" as any officer of an organization which is the owner or operator of a public water supply, and who has direct administrative responsibility for the supply." The Respondent clearly operated the water supply going to the Complainant's residence. The Respondent violated Section 15 of the Act when it allowed the addition of the dead end line to its system without written approval from the E.P.A.

Section 604.401(b) of the Illinois Pollution Control Board Regulations states that the Illinois Environmental Protection Agency may set levels and promulgate procedures for chlorination. 35 Ill.Adm. Code 604.401(b) The agency requires a minimum free chlorine residual of 0.2 MG/L or a minimum combined residual of 0.5 MG/L in all active parts of the distribution system at all times. 35 Ill.Adm. Code 653.604 No definition of "active parts of a distribution system" is provided in the Board Regulations. The dead end line running to the Complainant's residence was an active part of the system. Reliable, undisputed test results established insufficient chlorine residuals in the water at the Complainant's residence. The Respondent has violated Section 653.604.

Section 18 of the Environmental Protection Act and Section 601.101 of the Board Regulations provides that owners and official custodians of public

water supplies shall direct and maintain the continuous operation and maintenance of water supply facilities so that water shall be assuredly safe and quality, clean, adequate in quantity, and of satisfactory mineral character for ordinary domestic consumption. The Respondent has violated these Sections.

Section 31(c) of the Act provides that the Complainant has the burden to show that the Respondent has violated or threatens to violate any provision of this Act or any rule or regulation of the Board; and that if such proof has been made, the burden then shifts to the Respondent to show that compliance with the Board's regulations would impose an arbitrary or unreasonable hardship. The Complainant has met its burden, and the Respondent has failed to show any hardship.

Section 33(a) of Title VIII of the Environmental Protection Act provides that (1) it shall not be a defense to findings of violations of the provisions of the Act or Board regulations or a bar to the assessment of civil penalties that the person (here the City of Sycamore) has come into compliance subsequent to the violation..." There has been no showing of compliance by the Respondent, and even assuming there has been, compliance is not a defense in this matter.

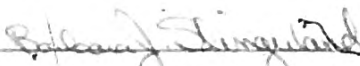
Finally, Section 33(b) of the Act provides that the Board may direct the City to cease and desist from violations of the Act or Board Regulations, and may impose penalties in accord with Section 42 of the Act, i.e., \$50,000.00 for a violation, and \$10,000.00 for each day during which the violation continues.

WHEREFORE, the Complainant Herman W. Prescott, respectfully requests that this Honorable Board find that the Respondent, City of Sycamore, is in violation of the Environmental Protection Act and the Illinois Pollution

Control Board's regulations; direct the Respondent to immediately cease and desist from its violations; impose such penalties as it deems proper; and award such other and further relief as it sees fit.

Respectfully submitted,

HERMAN W. PRESCOTT, Complainant

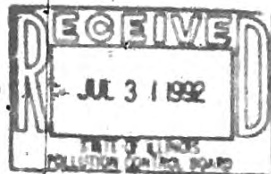


Barbara J. Slingerland
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

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BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

To: Jack Slingerland, Esq.
Attorney for Complainant
Gallagher, Klein & Brady
114 W. State Street
Sycamore, Illinois 60178

Marvin I. Medintz
Hearing Officer
35 E. Wacker Drive
Suite 568
Chicago, Illinois 60601

NOTICE OF FILING

PLEASE TAKE NOTICE that on the 29th day of July, 1992, I have caused to be filed, the original and nine copies of the Brief of Respondent and Certificate of Mailing on behalf of the Respondent, CITY OF SYCAMORE, in the above captioned case with the Clerk of the Illinois Pollution Control Board in Chicago, Illinois. A copy of said document is attached hereto and herewith served upon you.

Respectfully submitted,

THE CITY OF SYCAMORE

By: Peter Thomas Smith

One of Its Attorneys

STATE OF ILLINOIS)

) SS:

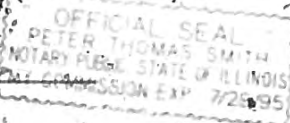
COUNTY OF DEKALB)

Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on July 29, 1992.

Cynthia Anderson

Subscribed and sworn to before me this 29th day of July, 1992.

Peter Thomas Smith
Notary Public



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

THE CITY OF SYCAMORE, ILLINOIS

Respondent.

PCB 90-187

BRIEF FOR RESPONDENT

INTRODUCTION

After reviewing the Brief and Closing Argument of the Complainant, HERMAN PRESCOTT ("PRESCOTT"), it is clear that alleged violations which were not included in the Formal Complaint have been argued improperly. In addition, major portions of the record -- particularly testimony concerning the accuracy and validity of certain testing and the actions of the CITY OF SYCAMORE, Illinois ("CITY") concerning its treatment of the community water supply -- have been purposely omitted. As such, it is necessary in this Brief to restate both the issues and the facts to provide an accurate perspective for the members of the Illinois Pollution Control Board ("Board").

This matter is before the Board on the Complainant, PRESCOTT'S, Formal Complaint that the CITY has failed to provide "...the northeast section of the City a steady supply of chlorine up to standards as spelled out in Title 35, Subpart F, Public Water Supply...." Formal Complaint at Paragraph 9. The Board, in ruling on the CITY'S November 29, 1990, Motion to Dismiss Petition As Frivolous determined that the Formal Complaint had not cited any applicable Board rule regarding manganese or iron concentrations and agreed that enforcement of written recommendations of the Illinois Environmental Protection Agency (IEPA) contained in a letter dated July 20, 1990, to the CITY may be a remedy, but was not a proper basis for an enforcement action. Order of the Board, December 20, 1990. PRESCOTT did not amend his Formal Complaint prior to the hearing and he did not present evidence concerning manganese and iron concentrations during the hearing.

In his argument, the Complainant, PRESCOTT, proposes as a conclusion of law that the CITY violated Chapter 111-1/2, § 101, et seq., of the Illinois Revised Statutes by failing to submit plans and specifications to the Illinois Environmental Protection Agency (IEPA) and obtaining written approval before construction of any proposed public water supply installation, change or addition is started. Brief and Closing Argument of Complainant at 14. Such a violation was not, however, alleged within the Formal Complaint, and, as is discussed fully later in this brief, the Illinois

statutes and regulations do not require a construction permit or other written approval under the facts in this case.

ISSUES PRESENTED FOR REVIEW

Whether the CITY complied with 35 Ill. Adm. Code § 653.604 by maintaining a free chlorine residual of 0.2 mg/l or a minimum combined residual of 0.5 mg/l in all active parts of the distribution system at all times?

STATEMENT OF FACTS

In his Brief and Closing Argument, the Complainant, PRESCOTT, purposely omitted or misconstrued major portions of the testimony of every witness presented during the two day hearing. The purposeful omissions include testimony from the Complainant, PRESCOTT, and John Brady, the Engineer for the CITY, concerning the nature of the service line to the Complainant's residence and its installation and ownership; Leonard Lindstrom of the Illinois Environmental Protection Agency ("IEPA"), Kevin Lookis of Hydronics, Inc. and Thomas Mangan of Prairie Environmental Specialists, Inc. concerning the accuracy and validity of the chlorine testing on which the Complainant seeks to rely; and, the testimony of Sidney Albrecht, the CITY Water Superintendent, concerning the actions of the CITY to increase the chlorine content of the water.

supply for all residents of Sycamore, Illinois, particularly those in the northeast section of town.

The piping system which provides water to the residence of the Complainant, PRESCOTT, is an approximately 230 foot line extending from a water main in the CITY's distribution system. The 230 foot line is six inches in diameter, cement lined, and terminates with a six inch lead to a fire hydrant on the condominium property (R.45 and 330). The ten condominium units which were constructed on the property all receive water from that line. The water service line is on property owned by the condominium owners association of which the Complainant is a member. (R.46 and Respondent's Exhibit J). Mr. PRESCOTT admitted in his testimony that if the line were not dedicated to the CITY, he would, as one of the members of the condominium owners association, be a part owner of the water service. (R.47).

John Brady, the Engineer for the CITY, testified that the water service to the Complainant, PRESCOTT'S, residence extends from the CITY's distribution system 230 feet across the condominium owners association property. (R.330). The location of the water distribution system and the water service line are indicated by broken lines and solid lines, respectively, on the Site Utility Plan for the project, which is Respondent's Exhibit K in evidence. The CITY does not own the water service line, does not own the property which the water service line occupies, does not have any

easements or rights of way on the property which the water service line occupies, and did not pay any portion of the cost of construction of the water service line. (R.333). This testimony was not contradicted in the hearing.

Don Koehler, the construction contractor for the condominium project, brought the plan for the water service line to the CITY and Mr. Brady reviewed and approved the Site Utility Plan. (R.328). Mr. Koehler applied for an IEPA permit which was not granted due to time delays. (R.334 and 344). In 1988, the IEPA did not require through its regulations that construction permits be obtained or that water service lines be looped for projects similar to Mr. Koehler's. (R.334). Other projects similar to Mr. Koehler's have been completed in Sycamore, Illinois without permits or looped water service lines. (R.334). The IEPA has known of Mr. Koehler's project since 1988 and has not taken action against Mr. Koehler for any violation of its regulations.

At the IEPA's request, the CITY was asked to join in Mr. Koehler's application to make certain that the CITY would supervise the maintenance and operation of the line, but the owner would maintain and operate it. (R.336 and 345). No formal agreement of any kind was ever entered into with Mr. Koehler with regard to supervising the maintenance and operation of the six inch water service line. (R.346).

In his testimony concerning chlorine testing, the Complainant, PRESCOTT, stated that he tested at his residence which was supplied by the water service line; that he used a Hach Free and Total Chlorine Test Kit Model CN66/66P/66T ("Hach Test Kit") borrowed from the IEPA and later his own kit (Complainant's Exhibit 2); and that he tested for "total chlorine" only, not "free" chlorine, although he was not sure what "total chlorine" meant. (R.33).

Mr. PRESCOTT indicated in his testimony that he followed the IEPA instructions and the instructions in the Hach Test Kit. On cross examination, however, he admitted that Sandy Sands of the IEPA advised him which test kit to use and later, at the Rockford, Illinois office, Miss Sands gave him a test kit and instructed him in its use. (R.49). Mr. PRESCOTT further testified that when he received his kit from the IEPA he was instructed on its use orally, but there was no instruction booklet in the test kit he received from IEPA. (R.51). He also admitted that he recalled being asked in his deposition if there was an instruction booklet or anything that comes with the kit and responding "You know, I'm not sure. I think there is, though." (R.51). The Complainant apparently wants the Board to believe the logical contradiction that he read an instruction booklet for the Hach Test Kit and followed its procedures, when he did not know if there was such an instruction booklet.

With regard to the procedures he followed, the Complainant, PRESCOTT, testified that the water samples were taken through a rubber or vinyl hose which was 7 or 8 feet long and contained a red rusty appearing residue on the inside (R.54 and 407); that he did not test the reagent capsules to see if they were good (R.55); that he put the vial with the water to be tested into the kit and then emptied the contents of the capsule into the vial (R.55); that he covered the vial with his index finger to shake it (R.70); that he waited 3 minutes or less to take all of the readings, but didn't know how many he took at 2 1/2 minutes rather than at 3 minutes (R.71); that the instruction book specifically states at Instruction 3 under the total chlorine test "let stand for 3 minutes but not more than 6 to allow color development" (R.72); and that after testing he washed the vials out with tap water, dried the outside of the vial with a paper towel, and allowed the inside to drip dry (R.59). The Complainant, Mr. PRESCOTT is 69 years old, nearsighted and wears corrective glasses. (R.60).

With regard to Hach Test itself, Mr. Lindstrom of the IEPA indicated that the margin of error for the Hach Test was plus or minus .1 mg/l, i.e. a reading of .1 might be .0 or .2. (R.160). In Mr. Lindstrom's opinion the Hach Test was simply a field test, it's not a true quantitative test, and he did not take a chlorine sample into the lab. (R.165). Mr. Lindstrom further testified that when taking his own tests for IEPA, he used either his finger or the rubber stopper to cover the vial while shaking it (R.161),

that after testing the sample is thrown out, that the vial is cleaned with water from the hydrant, and that he has never used detergent and has not used distilled water to clean the vial, though distilled water may have been used infrequently (R.164).

Kevin Lookis is a vice president of Hydronics, Inc. in Springfield, Illinois, a firm specializing in water quality and treatment. (R.355). He received a masters degree from Eastern Illinois University in Science and Botany, specializing in water quality, and has worked in the field of water quality and testing for 12 years. Mr. Lookis testified that the Hach Test has a margin of error of plus or minus 20% to 25% (R.376), is not approved by the U.S. Environmental Protection Agency for chlorine testing (R.377), and, in his opinion, is not a suitable test for detecting low levels of chlorine (R.375). In Mr. Lookis' opinion, the only accurate test at low levels of chlorine is the spectrophotometer. (R.377). Factors which could adversely effect the accuracy of the Hach Test include not allowing enough time for the reagent to react, the condition of the eyes, the condition of the reagent powder and the sample size. (R.378-380). Mr. Lookis testified that running water through the hose in evidence as Respondent's Exhibit A could affect the accuracy of the chlorine reading, because there is a build-up of iron inside the hose which creates a chlorine demand and non-pathogenic bacteria may also be living within the film as well, and that those conditions would definitely reduce or at least use up some of the chlorine. (R.380-383).

Thomas Mangan is the president of Prairie Environmental Specialists, Inc., a firm specializing in hydrogeological and environmental assessments. He received a degree in Earth Sciences and Environmental Studies from the University of Wisconsin, Green Bay, Wisconsin. (R.415-416). Mr. Mangan testified that the Hach Test was considered to be qualitative (a field test), as opposed to a quantitative lab test (R.418); that the test had a 10% to 20% margin of error, and a great many factors could affect the accuracy (R.418-419); and, that not waiting the full 3 minutes, covering the tube with the finger, running the water through a rubber or vinyl hose, and not rinsing the test vial with distilled water could all adversely affect the accuracy of the test. (R.420-422). Mr. Mangan also calculated that it would take 85 minutes to run sufficient water from Mr. PRESCOTT's outside tap to clear the water service line and obtain a sample from the CITY's distribution system. (R.426).

With regard to the action of the Respondent, CITY, concerning the chlorine content of its water supply, Sidney Albrecht, the Water Superintendent for the CITY, testified that when the water problem in the northeast section of the CITY first came to his attention he contacted Walter Purcell of the IEPA and followed his recommendations by flushing the CITY fire hydrants in the area, injecting bleach at Well #3, and running Well #1, both of which are in the northeast section of town; and, that in addition to

following the recommendations of the IEPA on flushing and injecting additional chlorine, the CITY started a phosphate treatment program in July, 1989 (R.237). Mr. Albrecht further testified that in the phosphate treatment program, the CITY flushed all CITY hydrants throughout town twice a year, conducted chlorine residual tests at the time the hydrants were flushed, and injected phosphate at the wells throughout town (R.238); that the phosphate treatment program began in September, 1989, and continues to the present (R.239); and, that IEPA made no further recommendations with regard to the chlorine content before a December 7, 1989, meeting with the mayor of the CITY, certain alderman and Mr. Albrecht. (R.240).

In his testimony, Mr. Lookis of Hydronics, Inc. stated that the phosphate treatment program sequesters minerals, particularly iron and manganese, acts as a corrosion inhibitor to reduce the corrosion within the distribution system, and disburses iron and manganese into smaller particles so that they can be removed and washed out of the system. (R.361-362). Mr. Lookis also testified that the effect of the program on chlorine over the long term is to reduce the chlorine demand and stabilize it by reducing the tuberculation and scale that builds up within a distribution system (R.363); and, that the success rate for this type of treatment in the northern Illinois area is over 90%. (R.364).

It was Mr. Albrecht's further testimony that at the December 7, 1989 meeting with the mayor, certain alderman and Mr. Albrecht,

Mr. Lindstrom of the IEPA recommended that the CITY not run Well #1 (R.240-241); that no other recommendations were made, but the CITY was to provide an outline of things to do to improve the quality of the community's water supply (R.241); that the CITY recommended monitoring chlorine residuals, instituting a phosphate program and flushing the hydrants throughout town twice a year (R.241); that the IEPA did not respond positively or negatively to the recommendations (R.241); and, that the CITY carried them out and shut down Well #1 in the northeast section of town as Mr. Lindstrom requested. (R.241-242).

In July, 1990 the CITY received a letter from Mr. Lindstrom of the IEPA. It was Mr. Albrecht's testimony that the July 20, 1990, letter was factually inaccurate in that two fire hydrants which were supposedly inoperable were in fact operable and did not need to be replaced; the storm sewer which was supposedly inoperable was in fact operable and did not need to be replaced (the drainage simply went into an area where the water accumulated causing residents to complain of mosquitos and flooding a private property owner's truck garden); the CITY's supposed failure to flush hydrants was not true, since the CITY had been running fire hydrants in the northeast section of town until the IEPA directed them not to do so during the month to six weeks when IEPA was conducting chlorine residual tests prior to the July 20, 1990 letter; and, the letter also indicates that the water service on the condominium owners association property is an unlined pipe when

it is in fact cement line. (R.246). Mr. Albrecht testified that the CITY followed all of the recommendations which IEPA made in the July 20, 1990 letter, which were not factually in error, except that of replacing the water mains in the northeast section of town. (R.248-250).

Mr. Albrecht further stated that in addition to following all of the IEPA recommendations from July 20, 1990, the CITY renovated Well #3 and started up Well #1 (R.253); that prior to closing down Well #1 at the recommendation of the IEPA, the chlorine content of the water in the northeast section of town had improved (R.253 and 466); and, that after the IEPA closed Well #1 the water quality in the northeast section of town deteriorated back to the condition it had been in when the complaints first started showing up (R.253); and, that Well #1 is now run with a stronger phosphate to combat the iron content and both wells #1 and #3 are in the northeast section of town (R.254-255). In his testimony, Mr. Lindstrom of the IEPA admitted that in recommending that Well #1 not be run, except in an emergency, he was reducing and, thereby aggravating, the chlorine situation in the northeast section of town. (R.188).

Mr. Albrecht concluded his testimony by stating that since June, 1989, the CITY has taken water samples from 433 E. Exchange Street, Sycamore, Illinois, and other locations throughout town, tested for field tested total chlorine using the Hach Test Kit and

forwarded the samples to the National Environmental Testing, Inc. laboratory in Bartlett, Illinois for bacteriological tests (R.266-269); that at IEPA'S request, the CITY also conducted the same type of field tests for total chlorine residual at hydrant locations throughout its distribution system (R.270); that the results from the National Environmental Testing, Inc. laboratory show no bacteriological problems in the CITY'S finished water and generally satisfactory chlorine residual (Respondent's Exhibit E); and, that the CITY'S periodic field testing for total chlorine residual at its hydrant locations also show generally satisfactory chlorine residual. (Respondent's Exhibit F).

Mr. Lookis of Hydronics, Inc. testified that he took water samples within the CITY'S distribution system at each of its hydrants when the hydrants were flushed for the CITY. (R.367). He used a Hach Digital Spectrophotometer to test for three substances and personally conducted each of the tests. (R.367 and 368). Mr. Lookis prepared graphs showing the amounts of chlorine and iron on the dates tested for the six locations where samples were taken, including the northeast section of town. (Respondent's Exhibit L). Those graphs show that all Mr. Lookis' testing indicated free chlorine residuals greater than .2 mg/l throughout town, including the northeast section. (R.371). The graphs also show a general reduction of iron and an increase of chlorine over time. (R.372). In interpreting the graphs, it was Mr. Lookis' opinion that the

phosphate treatment program is showing results and will eventually reduce the problems the CITY has with its water. (R.372).

ARGUMENT

The so called Conclusions of Law and the Conclusion/Argument of the Complainant, PRESCOTT, to the contrary notwithstanding, the evidence in this hearing does not demonstrate that the CITY failed to comply with 35 Ill.Admn.Code § 653.604 by failing to maintain adequate chlorine levels in all active parts of its distribution system at all times. For purposes of 35 Ill.Admn.Code § 653.604, the term "distribution system" is defined in accordance with the Glossary of Water and Waste Water Control Engineering published jointly by The American Public Health Association, The American Society of Civil Engineers, The American Waterworks Association and The Water Pollution Control Federation, 1981 edition. 35 Ill.Admn-.Code § 651.103. The Glossary of Water and Waste Water Control Engineering, 1981 edition, defines "distribution system" as follows:

"A system of conduits and their appurtenances by which water is distributed to consumers. This terms applies particularly to the network of pipelines in the streets in a domestic water system."

A water service line on private property which the CITY did not construct, does not own, does not have an easement on, and does not operate cannot be considered part of the CITY's distribution

system, as defined above. The CITY's "distribution system" ends at the water main, as has been very clearly established by Mr. Brady, the CITY engineer, on Respondent's Exhibit K in evidence.

The totally unsupported contention of the Complainant, PRESCOTT, that the CITY violated Section 15 of Title 4 (Public Water Supplies, of the Environmental Protection Act) is clearly in error. The Complainant, PRESCOTT, has failed to review the applicable IEPA regulations which state as follows:

"A construction permit is not needed for normal work items such as:

- 1) installation of customer service connections to distribution system water mains;..."
- 35 Ill. Admn. Code § 652.101(b).

The contractor, Mr. Koehler's, construction of the six inch water service line on the property he then owned to supply water to the condominiums he was constructing was a customer service connection to the CITY'S "distribution system" water main. The Complainant, PRESCOTT, argues contrary to both fact and applicable law when he asserts that the addition of the water service line to the "distribution system" without written approval from the IEPA violated Section 15 of Title 5 (Public Water Supplies) of the Environmental Protection Act. Ill. Rev. Stat., Ch. 111 1/2, §§ 101, et seq.

The Complainant, PRESCOTT, is also clearly in error when he suggests that the customer service line which is on property that

he is a part owner of is an active part of the "distribution system." When Mr. Lindstrom of the IEPA, the Complainant's own expert, was asked if the pipe carrying water into Mr. PRESCOTT's condominiums was part of the active distribution system he replied, "no". (R.203 and 204). It is, instead, a customer service line with which the CITY has no right to tamper. In fact, the property is posted "Private Property" and the hydrant is beyond that sign. For that reason, the hydrant on the condominium owners' property was not flushed as part of the CITY's hydrant flushing program in its "distribution system." (R.309).

The Complainant, PRESCOTT, asserts in his Brief and Closing Argument that reliable test results established insufficient chlorine residuals in the water at the Complainant's residence. Brief and Closing Argument at 4. Nothing could be further from the truth. At the time the test results were introduced substantial and significant objections were made with regard to their reliability.

Contrary to his assertion, when the test results of the Complainant, PRESCOTT, were admitted the hearing officer did not specifically find that the tests were sufficient to produce a reliable result. (R.226).¹ In making his ruling, Hearing Officer

¹ Hearing Officer Medintz's statement that "...I'm satisfied that the test was conducted, if not in letter perfect performance to the instructions, with sufficient conformance to the instructions to produce a reliable result" was mere dicta. It was not a specific finding of reliability or validity and was made before the

Medintz stated "...I'll let the Board determine the proper probative weight to be given to the particular test results in support of or as against those allegations in the Complaint." (R.227).

With regard to the reliability of the Complainant, Mr. PRESCOTT'S, test results, it is first clear that he was not testing water from the CITY'S "distribution system." He did not allow the water to run long enough to obtain water from the CITY'S main (R.423-426). Because Mr. PRESCOTT used a method of testing in which he took a sample through an 8 foot rusty hose, placed his finger on top of the vial to shake it, and waited 3 minutes or less for a reaction before reading a difference in color, the likelihood of obtaining valid readings of a low level of chlorine is remote. (R.378-383). The Complainant's admitted procedures contaminated his samples and make the results inherently unreliable.

Since the Complainant, PRESCOTT, only tested for total chlorine residual, and a free chlorine test was not conducted, the test results are also incomplete. The IEPA standard requires that either a free chlorine residual of 0.2 mg/l or a combined residual of 0.5 mg/l shall be maintained. 35 Ill. Admn. Code § 653.604. The

testimony of experts on the proper testing procedure, the accuracy of the Hach Test Kit at low chlorine levels, and the effect of certain nonconforming procedures, eg. taking a sample through a rusty hose, shaking the vial with a finger over the top, and failing to clean the test vial.

Complainant failed to test for free chlorine, though the Hach Test Kit allowed such testing.

Such procedurally flawed and incomplete testing should not be relied on as evidence that the Respondent, CITY, failed to maintain the proper level of chlorine in its "distribution system." The testing conducted by Mr. Lookis which utilized a Spectrophotometer had the appropriate level of accuracy for the determination of low levels of chlorine. The Hach Test Kit is suitable only as a field test and does not have sufficient accuracy at plus or minus .1 mg/l or 20% to 25% margin of error to be considered an accurate test for the type of determination which the Board is being asked to make. (R.165,397,418).

Mr. Lookis' tests show that within the Respondent, CITY'S, "distribution system" an adequate measure of chlorine residual was maintained. In fact, his test results, taken over time, show that the chlorine residual is gradually increasing in keeping with the results expected for the phosphate program which the CITY is continuing to implement. (R.371-374). The CITY'S field testing of samples from hydrants and other locations in the northeast section of town for IEPA and its monthly testing for bacteria which is sent to the National Environmental Testing, Inc. laboratory in Bartlett, Illinois confirm these results. (Respondent's Exhibits E and F).

All of the reliable scientific testing clearly indicates that adequate chlorine levels are maintained by the Respondent, CITY, in

the northeast section of town and that the water is safe in quality, clean, adequate in quantity and of satisfactory mineral character for ordinary domestic consumption.

It is worth noting in this case that the Complainant, PRESCOTT, is the only resident questioning the chlorine content of the CITY's water in this hearing. No other complaints have been filed, not even from other condominium owners in the Complainant's complex. In fact, one resident, Ronald Leifheit, Jr., who resided in the northeast section of town at 328 East Sycamore Street, Sycamore, Illinois testified that he had signed a petition regarding the water quality after noticing rust-colored sediment in the water he used for his tropical fish. (R.440). After a couple of months he noticed a lot more chlorine taste to the water and a lot less sedimentation. (R.441). This resolved the problem to Mr. Leifheit's satisfaction. (R.442).

The IEPA survey which was introduced further confirms this, despite the attempt to tamper with responses and promote negative responses by the Complainant, PRESCOTT. (R.151, 443 and 444). About 100 people were sent survey questionnaires, only 62 responded and a number of those complained of too much chlorine in the water. (R.155). The IEPA has not heard from anyone since writing the letter in June, 1990, concerning the survey and the quality of water in Sycamore, Illinois. (R.154).

On the facts in the complete record, not the portions selectively cited by the Complainant, PRESCOTT, the CITY has complied fully with the applicable statutes and regulations regarding the chlorine content of the water in its "distribution system" and also with any requirements concerning construction permits for its existing community water supply, an issue which is not properly before the Board at this time. In fact, the Respondent, CITY, has fully complied with all of the IEPA recommendations, has exceeded those recommendations in initiating its phosphate program and in renovating and activating Wells #1 and #3 in the northeast section of the CITY to provide better water quality to its residents. There is nothing for the Board to direct the Respondent, CITY, to cease and desist from and there is certainly no ground to impose a penalty of any kind on the CITY for its actions in this regard.

What this case truly comes down to is that a single resident, who has been improperly conducting his own tests on the wrong water supply, has filed a Complaint which the Respondent, CITY, has been forced to answer. If, as the Complainant repeatedly asserts in his Brief and Closing Argument, the problem is the "dead end (sic)" water service -- which is on the condominium owners association property and is an asset of that association -- then the Complainant, PRESCOTT, should clean his own house by looping the line with his association neighbors. Though it is not required by any IEPA regulation, if the "dead end (sic)" water service on

the condominium association's property does not produce water to the Complainant's satisfaction, he and his association neighbors should correct the condition and not demand that the CITY satisfy his wants in a situation where it has no right, power or obligation to do so.

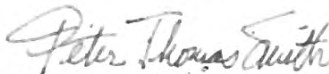
CONCLUSION

In consideration of the above facts, law and argument, the Respondent, CITY, requests that the Illinois Pollution Control Board find that the CITY is not in violation of the Environmental Protection Act and the regulations promulgated thereunder and dismiss the Formal Complaint of the Complainant, PRESCOTT, with prejudice.

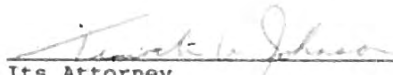
Respectfully submitted,

The Respondent,

CITY OF SYCAMORE, Illinois



By: Its Attorney



By: Its Attorney

Peter Thomas Smith
Timothy Johnson
Attorneys for the Respondent
207 West State Street
Sycamore, Illinois 60178
Telephone: 815-895-4591

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

CERTIFICATE OF MAILING

The undersigned certifies that the foregoing Brief of Respondent was filed with the Clerk of the Illinois Pollution Control Board in the above captioned case by depositing a copy thereof in the U. S. Mail, postage prepaid, in an envelope addressed to the Clerk of the Illinois Pollution Control Board Court in Chicago, Illinois on July 29, 1992.

Peter Thomas Smith

Attorney for Respondent

Original Do Not Remove

GALLAGHER, KLEIN & BRADY
ATTORNEYS AT LAW

114 WEST STATE STREET
SYCAMORE, ILLINOIS 60178

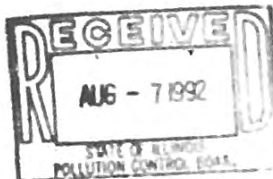
T. JORDAN GALLAGHER
KURT P. KLEIN
WILLIAM P. BRADY

TELEPHONE (815) 895-5141
FAX NO. (815) 895-8867

DEKALB, ILLINOIS OFFICES
SUITE 300
HILLCREST CENTER
444 EAST HILLCREST
DEKALB, ILLINOIS 60115
TEL. (815) 758-7491
FAX NO. (815) 758-8311

LISA M. ROYE
JACK C. SLINGERLAND
BARBARA J. SLINGERLAND
PAUL D. ANDERSON

August 5, 1992



Ms. Dorothy M. Gunn
Clerk of the Pollution Control Board
State of Illinois Center
100 West Randolph
Suite 11-500
Chicago, IL 60601

Re: Herman W. Prescott vs The City of Sycamore, Illinois
No. 90-187

Dear Ms. Gunn:

Please file the enclosed Notice of Filing and original and nine copies of Complainant's Reply to Brief in the above captioned case. Also enclosed is an extra copy of the documents. Please file stamp the copy and return it to my office in the stamped self-addressed envelope. If you have any questions or comments, please contact my office. Thank you for your cooperation in this matter.

Sincerely yours,

GALLAGHER, KLEIN and BRADY

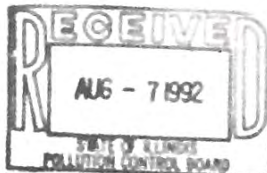
By


Jack C. Slingerland

JCS:rj

Enclosure

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

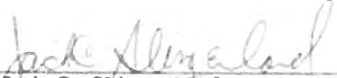
NOTICE OF FILING

To: Mr. Marvin I. Medintz
Hearing Officer
35 East Wacker Drive - Suite 568
Chicago, IL 60601

Mr. Timothy Johnson
Attorney at Law
315 West Elm Street
Sycamore, IL 60178

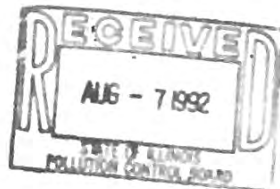
Mr. Peter T. Smith
Attorney at Law
207 West State Street
Sycamore, IL 60178

YOU ARE HEREBY NOTIFIED that on the 5th day of August, 1992, I filed the original and nine copies of the Complainant's Reply to Brief for Respondent with the Illinois Pollution Control Board by mailing said documents to Dorothy M. Gunn, Clerk of the Pollution Control Board, State of Illinois Center, 100 West Randolph, Suite 11-500, Chicago, IL, 60601.



Jack C. Slingerland
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

COMPLAINANT'S REPLY TO BRIEF FOR RESPONDENT

I. THE AREA IN WHICH COMPLAINANT CONDUCTED HIS TESTS IS PART OF THE RESPONDENT'S WATER DISTRIBUTION SYSTEM.

The Respondent argues that the water line connected to the Exchange Street water main, and which Respondent has agreed to supervise and maintain, (R.339) does not come within the Administrative Code's contemplation of a "distribution system" because of the definition in the "Glossary of Water and Waste Water Control Engineering". The definition quoted, however, contains references to "a system", "conduits and their appurtenances" and to "the network of pipe lines". Furthermore, the definition refers to water distribution "to consumers" as being within the term "distribution system". (Respondent's Brief, P.14).

In order to sustain its position, Respondent must completely ignore the definition of "distribution system" which it proposes, and ask that the definition be rewritten, to read as follows:

A system of conduits and their appurtenances by which water is distributed to consumers, unless consumers happen to live on private property adjacent to public streets, in which case a water distribution system in a city means the distribution of water only on property that is owned by

the city, and ending at every property line of every property owner in the city.

Furthermore, the City's contention that it has no responsibility for the water line is belied by the fact that the fire hydrant which is at the end of the water line, is "supervised" by the Respondent, to the exclusion of all others who do not have Respondent's permission to use the hydrant.

(R.341,342). Clearly, Respondent's attempt to evade its responsibility to Complainant and others to provide legally acceptable water quality should not be sustained by such a tortured interpretation of the term "distribution system".

Respondent next argues that even if the subject water line is part of a distribution system, it is not an "active" system, citing but a portion of the record containing the testimony of Mr. Lindstrom of the IEPA. However, Lindstrom later, when given the opportunity to conclude his explanation of an active water system, stated that the water distribution system at issue becomes an active system whenever the fire hydrant to which it is connected is opened, and further, when asked whether persons living on the subject property are part of the city's water distribution system stated "but certainly they're part of the distribution system and the people there certainly shouldn't be discriminated against because they live in the corner of town". (R.213,214).

II. COMPLAINANT'S EVIDENCE CONCERNING TEST RESULTS WAS FOUND TO PRODUCE RELIABLE RESULTS.

Respondent argues at length that the testimony of the Complainant, Herman Prescott, and others as to the testing procedures which yielded evidence of the violation of water standards did not establish the reliability of the evidence. Respondent's position is directly contrary to the statement of the Hearing Officer to the effect that evidence supporting the complaint

demonstrated the test's reliability. (R.226). Furthermore, Syd Albrecht, an employee of Respondent who witnessed the testing by officials of the IEPA (which results showed violations), when asked if he had any dispute or disagreement with the results of those tests, answered "no". (R.295-298).

On its face, Respondent's assertion that water must be run for eighty-five minutes out of Mr. Prescott's tap before he can obtain properly treated water is, in itself, an admission that Respondent's water distribution system is violative of State standards.

III. EVIDENCE OF POST VIOLATION TEST RESULTS IS IRRELEVANT.

Respondent attempts to bolster its evidence presented at the hearing regarding the test results at the time of the violation by the introduction of opinion evidence concerning the water quality as of the date of the hearing. By statute, such evidence is inadmissible and irrelevant, as Section 33(a) of Title VIII has specifically provided that post-violation compliance evidence is no defense to allegations of violations of the provisions of the Act. Ill.Rev.Stat., Ch. 111 1/2, Par. 1033(a).

IV. RESPONDENT FAILED TO OBTAIN REQUIRED PERMITS.

Respondent next argues that the permit which the Respondent and the property owner applied for was not needed in the first place because of an Administrative Code provision which exempts "customer service connections to distribution system water mains". However, Respondent has failed to cite a single instance throughout the testimony of witnesses in which the water lines in question were referred to as "customer service connections". In fact, in

Mr. Lindstrom's testimony, he initially, in the course of a narrative, described the line as a service line, but then immediately and without hesitation or prompting corrected his reference and stated "it's not a service line, it is a main". (R.144). In short, it simply defies common sense and a reasonable interpretation of the applicable Code provisions to argue that a 234 foot, 6 inch wide water main, designed to serve more than 10 residential units, is analogous to a "connection".

V. . RESPONDENT'S ATTEMPT TO UNDERMINE COMPLAINANT'S CREDIBILITY HAS FAILED.

Perhaps the most unfortunate aspect of the City of Sycamore's position throughout the controversy surrounding Mr. Prescott's good faith attempt to assure adequate water quality is the City's attempt to impugn the motives of one of its own residents. Respondent accuses Mr. Prescott of an attempt to tamper with responses and "promote negative responses" to an IEPA survey. (Respondent's Brief P.19). Respondent attempts to do this by cites to the record. If one were to read only the sections cited by the Respondent, as the Respondent apparently demands be done, one is left with the impression that it is the Complainant, Mr. Herman Prescott, who had presented a petition to the witness for his signature. However, had the Respondent properly cited the full record, specifically, R.447, the reader would have found this:

"Question: It wasn't Mr. Prescott that came around with the petition?
Answer: No. It was my neighbor of a couple doors down." The ludicrousness of Respondent's implication that Mr. Prescott has encouraged false reports of water quality by other persons in Sycamore is most visibly demonstrated by Respondent's subsequent reference, in the same paragraph, to testimony that the IEPA has not received any complaints from other Sycamore citizens

concerning water quality. (Respondent's Brief, P.19). (Damned if you do, damned if you don't!)? Furthermore, it is the Respondent who accuses the Complainant of selectively citing the record, implying it is done with an intent to deceive, whereas the Respondent has failed to cite a single instance in which the Complainant improperly cited to the record in its Brief.

The Respondent next attempts to belittle the Complainant's effort to bring about quality water to his residence by stating that he has been "conducting his own tests on the wrong water supply" (P.20, Respondent's Brief) when, in fact, the water supply in question is the water supply of the City of Sycamore. Furthermore, even though Complainant has a right to petition the Pollution Control Board and receive a response to his petition, the Respondent characterizes this exercise of Complainant's rights in a derogatory tone, stating that it "has been forced to answer". (P.20, Respondent's Brief). Next, the Respondent's direction to Mr. Prescott that he "should clean his own house" (P.20) is inappropriate, especially in light of testimony elicited by the City that Mr. Prescott must run water from his residence for 85 minutes before he is able to enjoy the benefits of safe, clean water which the Respondent asserts has been provided to Mr. Prescott. (R.425).

In attempting to call into question the Complainant's credibility and motives, Respondent completely ignores the finding of the Hearing Officer as to credibility of witnesses. At the conclusion of the testimony, the Hearing Officer ruled that the testimony of Mr. Prescott, and that of other witnesses, is not at issue, and that in the opinion of the Hearing Officer, all parties testified candidly and truthfully. (R.497).

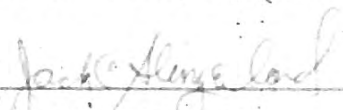
CONCLUSION

Respondent's Brief has failed to establish any grounds, based upon the evidence admitted at the hearing, establishing that the allegations in Mr. Prescott's complaint are untrue or that the City of Sycamore would suffer an undue hardship by reason of compliance with applicable water quality standards. The City of Sycamore should be held responsible for the quality of the water it provides its residents; a fine should be paid and the City should be ordered to desist from continued violations and ordered to remedy the violations which the evidence has established.

Respectfully submitted,

HERMAN C. PRESCOTT, Complainant

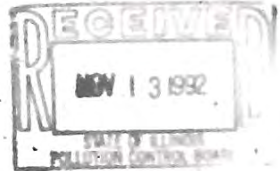
By


Jack C. Slingerland
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

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BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

NOTICE OF FILING

TO: Herman W. Prescott
c/o T. Jordan Gallagher, Esq.
Gallagher, Klein & Brady
114 W. State Street
Sycamore, Illinois 60178

YOU ARE HEREBY NOTIFIED that on the 9th day of November, 1992, three copies of the attached Stipulation of Facts were filed with the Clerk of the Illinois Pollution Control Board by mailing the said document to Dorothy M. Gunn, Clerk of the Pollution Control Board, State of Illinois Center, 100 W. Randolph Street, Suite 11-500, Chicago, Illinois 60601.

THE CITY OF SYCAMORE

By: PETER THOMAS SMITH and
TIMOTHY JOHNSON

Peter Thomas Smith

One of Its Attorneys

CERTIFICATE OF SERVICE

The undersigned certifies that the foregoing Notice To Produce was served upon all the parties to the above cause by delivering a copy on May 29, 1992, to each of the parties of record herein at their respective addresses:

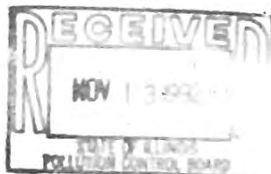
Herman W. Prescott
T. Jordan Gallagher, Esq.
Gallagher, Klein & Brady
114 W. State Street
Sycamore, IL 60178



Peter Thomas Smith

Peter Thomas Smith, Esq.
Timothy Johnson, Esq.
Attorneys for Respondent
207 W. State Street
Sycamore, Illinois 60178
(815) 895-4591

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

STIPULATION OF FACTS

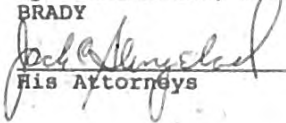
The attorneys for the Complainant, HERMAN W. PRESCOTT, and the Respondent, CITY OF SYCAMORE, hereby stipulate and agree that the following are true and accurate facts:

1. The public water system used by the Respondent, CITY OF SYCAMORE, at all pertinent times in the above captioned case used groundwater which is not under the direct influence of surface water.

This stipulation and agreement are entered into this 9th day of November, 1992.

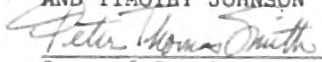
HERMAN W. PRESCOTT

By: GALLAGHER, KLEIN &
BRADY


His Attorneys

CITY OF SYCAMORE

By: PETER THOMAS SMITH
AND TIMOTHY JOHNSON


One of Its Attorneys

Prepared by:

Peter Thomas Smith, Esq.
Timothy Johnson, Esq.
Attorneys for Respondent
207 W. State Street
Sycamore, Illinois 60178
(815) 895-4591

SMITH & STRAUSS

ATTORNEYS AND COUNSELORS AT LAW

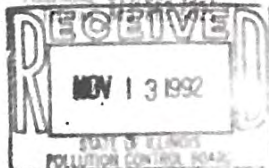
PETER THOMAS SMITH

MARC J. STRAUSS

PATRICIA E. GIBBS

MAIL: P.O. BOX 132
207 W. STATE STREET, SYCAMORE, ILLINOIS 60178

TELEPHONE 815/895-1591



November 9, 1992

Herman W. Prescott
c/o T. Jordon Gallagher, Esq.
GALLAGHER, KLEIN & BRADY
114 West State Street
Sycamore, IL 60178

Re: Herman W. Prescott, v. City of Sycamore,
PCB No. 90-187
Our File No.: 900068.004

Gentlemen:

Enclosed and hereby served upon you is a Stipulation of Facts and a Notice of Filing in the above captioned case.

Should you have any questions or comments concerning this matter, please do not hesitate to contact me.

Cordially yours,

Peter Thomas Smith

PTS/ca
Enclosure

cc: Dorothy M. Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, IL 60601,

Original Do Not Remove

GALLAGHER, KLEIN & BRADY
ATTORNEYS AT LAW

114 WEST STATE STREET
SYCAMORE, ILLINOIS 60178

T. JORDAN GALLAGHER
HURTY P. KLEIN
WILLIAM P. BRADY

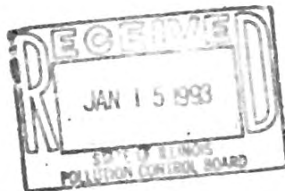
TELEPHONE (815) 895-5141
FAX NO. (815) 895-6567

LISA M. ROVE
JACK C. SLINGERLAND
BARBARA J. SLINGERLAND
PAUL D. ANDERSON

DEKALB, ILLINOIS OFFICES
SUITE 300
HILLCREST CENTER
444 EAST HILLCREST
DEKALB, ILLINOIS 60115
TEL. (815) 758-7491
FAX NO. (815) 758-5311

January 13, 1993

Ms. Dorothy M. Gunn
Clerk of the Pollution Control Board
State of Illinois Center
100 West Randolph
Suite 11-500
Chicago, IL 60601



Re: Herman W. Prescott vs The City of Sycamore, Illinois
No. 90-187

Dear Ms. Gunn:

Please file the enclosed Notice of Filing and original and nine copies of Complainant's Motion for Reconsideration and Brief in Support of Complainant's Motion for Reconsideration in the above captioned case. Also enclosed is an extra copy of the Notice. Please file stamp the copy and return it to my office in the stamped self-addressed envelope. If you have any questions or comments, please contact my office. Thank you for your cooperation in this matter.

Sincerely yours,

GALLAGHER, KLEIN and BRADY

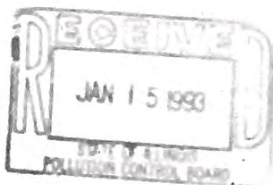
By


Jack C. Slingerland

JCS:rj

Enclosure

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

VS

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187

NOTICE OF FILING

To: Mr. Marvin I. Medintz
Hearing Officer
35 East Wacker Drive - Suite 568
Chicago, IL 60601

Mr. Timothy Johnson
Attorney at Law
216 West Elm Street
Sycamore, IL 60178

Mr. Peter T. Smith
Attorney at Law
207 West State Street
Sycamore, IL 60178

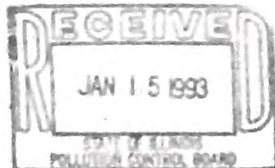
YOU ARE HEREBY NOTIFIED that on the 15th day of January, 1993, I filed the original and nine copies of a Motion for Reconsideration and Brief in Support of Complainant's Motion for Reconsideration by mailing said documents to Dorothy M. Gurn, Clerk of the Pollution Control Board, State of Illinois Center, 100 West Randolph, Suite 11-500, Chicago, IL, 60601.



Jack C. Slingerland
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,
Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,
Respondent.

PCB NO. 90-187

MOTION FOR RECONSIDERATION

Now comes your Complainant, HERMAN PRESCOTT, by and through his attorneys, GALLAGHER, KLEIN and BRADY, and respectfully requests that this Board reconsider its previous ruling in this case, and thereafter reverse its ruling and enter its order finding in favor of Complainant and against Respondent, and as grounds therefore, states:

1. The Board's Order of December 17, 1992, adopted by a vote of 6-1 contained a finding of "no violation", and the action was therefore dismissed.
2. The Board's Opinion and Order (R 88-26) contained a change in relevant regulations which became effective before the Complaint herein was filed.
3. The Board's opinion states that the "applicable law" is that which was in effect on the date the complaint was filed.
4. The Board's finding regarding the law "applicable" to the facts proven at the hearing is erroneous because both the complaint and the facts proven at hearing refer to a time period when different regulations were effective, and there has been no pleading or finding that the complaint was not otherwise timely filed.

5. That the effect of the Board's finding is to immunize from violations all conduct, however improper or illegal, which occurred before the effective date of new regulations.

6. That nothing in law or in the Board's Opinion and Order indicate an intention to immunize unlawful conduct as of the effective date of the new regulations cited by the Board in its order, and in fact, contrary intent is evident.

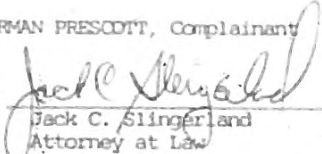
7. That Respondent, City of Sycamore, filed a motion to dismiss the complaint previous to a hearing thereon, but did not request dismissal on the grounds relied upon by the Board in this cause.

8. That the Board's action has deprived the Complainant, a private citizen, of his right to a decision on the merits of his complaint, even though he has expended vast resources in seeking to obtain what the law entitled him to - clean safe drinking water.

9. In support of its motion, Complainant has attached a brief, incorporated herein.

HERMAN PRESCOTT, Complainant

By


Jack C. Slingerland
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141



BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs

PCB NO. 90-187

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

BRIEF IN SUPPORT OF COMPLAINANT'S MOTION FOR RECONSIDERATION

Complainant, HERMAN PRESCOTT, filed his complaint using a form provided him by this Board. Even though the form does not require the Complainant to specify a date that the alleged violation occurred, the complaint herein clearly alleges violations between November 22, 1989 and January 22, 1990. No one heretofore has indicated in any manner any uncertainty as to when the violations occurred. The complaint has been upheld by this Board as adequate following the denial of the Respondent's motion to strike for failure to state a claim. The complaint contains allegations which, if true, demonstrate that the Respondent violated the Board's regulations in effect as of the date of the allegation.

I. THE DATE OF FILING IS IRRELEVANT WHEN THE COMPLAINT ALLEGES VIOLATIONS OF STANDARDS IN EFFECT AT THE TIME OF THE VIOLATIONS.

The Board's ruling has the effect of barring all enforcement actions unless the violations complained of were violations not only at the time they

occurred, but also at the time that the action was commenced. This contention was explicitly rejected in Modine Manufacturing Company v. Pollution Control Board, ___ Ill.App.3d ___, 549 N.E.2d 1379, 140 Ill.Dec. 507 (2nd Dist. 1990). The Modine court recognized that the Board is to exercise its authority even though there was no violation at the time the complaint was filed. Similarly here, the Board cannot sustain its finding that "no violation occurred" on the basis that the only "applicable law" was that which was in effect on the date of filing.

II. THE BOARD SHOULD NOT GIVE RETROACTIVE EFFECT TO ITS NEW REGULATIONS.

By ruling that "no violation occurred", the Board has given retroactive effect to the regulations which became effective after the violations occurred. The Board's written opinion fails to acknowledge the retroactivity of the previous rules and fails to demonstrate that a retroactive interpretation of the rules is necessary. An administrative agency is justified in giving retroactive application to its rules only when it has given consideration to certain established considerations. Gonzales-Blanco v. Clayton, 110 Ill.App.3d 197, 441 N.E.2d 1308, 65 Ill.Dec. 794 (1982). The opinion in this case fails to demonstrate that the Board gave any consideration to any of those factors, and fails to demonstrate that the Board found that significant statutory interests required that retroactive application be invoked to completely defeat what arguably is an otherwise valid cause of action.

Before the Board's rules can be given retroactive effect, consideration must be given to factors such as whether the case is one of first impression, whether the agency action results in injury or substantial prejudice, whether

the regulation represents an abrupt departure from well-established practice, the extent to which the party against whom the new regulation is applied relied on the former regulation, and the degree of the burden imposed upon that party. Gonzales-Blanco v. Clayton, Id. It is obvious that when proper weight is given to each of these criteria, retroactive application should not be invoked to defeat Complainant's claim. Prescott "relied" upon the standard that was in effect at the time of his water sampling when he filed his complaint. Prescott is substantially burdened by retroactive application, as it deprives him of a ruling on the merits of his complaint even though the Respondent has not sought a dismissal on the grounds of retroactivity.

The regulations themselves contain various implementation dates dependent on the type of water supply system under examination, this inducing Prescott to believe that retroactivity was not contemplated by the Board. The Board's opinion and final order adopting new water quality regulations contains comments which directly contradict this Board's decision in this case. The Board's comments pertinent to Section 611.240 state "as is discussed in general above, the phase-in of these requirements must be coordinated with the phase-out of the existing requirements." 114 PCB 215. It is thus clear that the violations of the former regulations alleged by Prescott were not retroactively nullified, but instead, the former regulations were replaced. The regulations represent an abrupt departure from past practice, as the regulations completely abandon water chlorination requirements in favor of a "disinfection" standard based upon the source of the water supply - factors previously not pertinent to the Board's water quality regulatory scheme. Furthermore, this particular rule making was not subject to the first or

second notice review requirements of the Administrative Procedures Act, and was the first rule making governing public water supply regulations following enactment of the Safe Drinking Water Act. 114 PCB 149-150. The Board should consider this petition for reconsideration in light of what the Board has admitted are "inconsistent" new regulations; the very paragraphs of which the Board cites to defeat Prescott's claim. 114 PCB 216.

CONCLUSION

Herman Prescott filed a complaint alleging water quality violations based upon tests conducted over a period of months preceding the filing. The complaint was filed within the time allowed for filing, and no issue was raised questioning timeliness either by the Respondent, City of Sycamore, or the Pollution Control Board when the Board considered Sycamore's dismissal motion. Evidence of Prescott's testing results was freely admitted by the Board Hearing Officer during the two day hearing. Nevertheless, the Board's decision in this case totally deprives Prescott of a ruling on his complaint because the Board saw fit to amend its regulations effective after Prescott's testing but before the complaint was filed with the Board.

The Board's ruling is contrary to established legal precedent and should be reconsidered and reversed. The decision establishes a rule that only violations existing at the time of filing are reviewable by the Board, even though no such intention is disclosed in the applicable regulation, and despite case law to the contrary. It is clear that the new regulations, by establishing various implementation dates, contemplated only prospective application, but the Board's decision retroactively applies the regulations, resulting in a "no violation" finding. The uniqueness of the rule making process applicable to the new regulations provides more than adequate justification for a renewed consideration of this case.

The Board should reconsider its ruling and consider Herman Prescott's case on its merits.

HERMAN PRESCOTT, Complainant

By

Jack C. Slingerland
Jack C. Slingerland
Attorney at Law

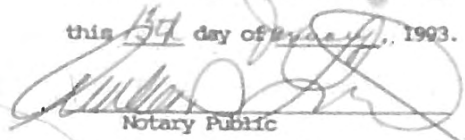
GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

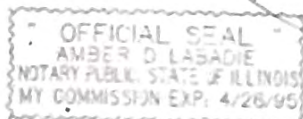
PROOF OF SERVICE

I, the undersigned being first duly sworn on oath depose and state that I served the above NOTICE on each person therein addressed by hand-delivering/mailling a copy thereof on the 13th day of January, 1993.

Lisa Mary Johnson

Subscribed and sworn to before me
this 13th day of January, 1993.


Notary Public



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SMITH & STRAUSS

ATTORNEYS AND COUNSELORS AT LAW

PETER THOMAS SMITH

MARC J. STRAUSS

PATRICIA E. GIBBS

MAIL P.O. BOX 332

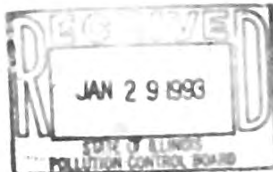
207 W. STATE STREET, SYCAMORE, ILLINOIS 60178

January 27, 1993

TELEPHONE 815/895-4591

TELEFAX 815/895-4063

The Clerk of the
Illinois Pollution Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601



Re: Herman W. Prescott v. The City of Sycamore
PCB No. 90-187

Dear Sir:

Enclosed please find an original and nine copies of a Notice of Filing, Response To Motion For Consideration and Brief In Support of Response to Motion For Reconsideration in the above referenced case. Please file these documents with your office. Please return the file stamped copies in the self addressed stamped envelope.

Your courtesy in this matter is appreciated. Should you have any questions or comments, please do not hesitate to contact me.

Cordially yours,

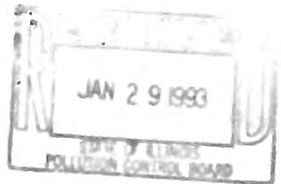
Peter Thomas Smith

PTS/ca
enclosure

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant

vs.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB No. 90-187

To: Jack Slingerland, Esq.
GALLAGHER, KLEIN & BRADY
114 West State Street
Sycamore, IL 60178

Mr. Marvin I. Medintz
Hearing Officer
35 East Wacker Drive
Suite 568
Chicago, IL 60601

NOTICE OF FILING

YOU ARE HEREBY NOTIFIED that on the 27th day of January, 1993, I filed the original and nine copies of a Response To Motion For Consideration and Brief In Support of Response to Motion For Reconsideration, in the above captioned case with the Clerk of the Illinois Pollution Control Board, State of Illinois Center, 100 West Randolph, Suite 11-500, Chicago, Illinois 60601.

Respectfully submitted,

HEARING OFFICER

Peter Thomas Smith
Peter Thomas Smith

STATE OF ILLINOIS)
) SS:
COUNTY OF DEKALB)

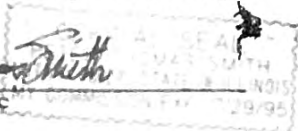
Cynthia Anderson, being first duly sworn, on oath deposes and states that she served the foregoing Notice upon the foregoing named parties by enclosing a copy of the said Notice in an envelope addressed to each of the foregoing parties at the address shown, attached sufficient prepaid U.S. Postage on each envelope, and depositing the same in the U.S. Mail at Sycamore, Illinois, on or before the hour of 5:00 p.m. on January 27, 1993.

Cynthia Anderson

Subscribed and sworn to before me this 27th day of January, 1993.

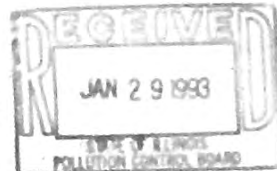
Peter Thomas Smith

Notary Public



Peter Thomas Smith
Hearing Officer
207 West State Street
Sycamore, IL 60178
(815) 895-4591

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant

v.

THE CITY OF SYCAMORE,

Respondent.

PCB No. 90-187

RESPONSE TO MOTION FOR RECONSIDERATION

I. INTRODUCTION

The Respondent, THE CITY OF SYCAMORE ("CITY"), by and through its Attorneys, Peter Thomas Smith and Timothy Johnson, hereby responds to the Motion For Reconsideration of the Complainant; HERMAN W. PRESCOTT ("PRESCOTT"), in this case. It is the position of the Respondent, CITY, that the Illinois Pollution Control Board ("BOARD") correctly dismissed the Complaint in this action because it was not based on applicable law. Board Opinion, December 17, 1992, at 4. The BOARD correctly determined that Section 604.401 and Section 653.604, which proceeds from Section 604.401, were no longer in effect under 35 Ill. Adm. Code 611(B). Board Opinion, December 17, 1992 at 4.

II. ARGUMENT

A. THE BOARD WAS CORRECT IN DISMISSING THE COMPLAINT IN THE INSTANT CASE BECAUSE THE COMPLAINANT, PRESCOTT, SEEKS TO BASE HIS COMPLAINT ON A REGULATION WHICH WAS REPEALED WITHOUT A SAVING CLAUSE AND HAS NO FURTHER FORCE OR EFFECT AT LAW.

The Complainant's Brief concerning retroactivity misses the point of the BOARD'S opinion. The issue is whether the sections cited in the Complaint, 35 Ill. Adm. Code 604.401 and 653.604 were in effect and had the force of law at the time the Complaint was filed. The retroactive application of present regulations is not a matter actually before the BOARD.

In discussing the applicable law, the BOARD noted that prior to the filing of the Complaint it had amended its public water supply regulations and that Section 604.401 was amended on August 9, 1990. Board Opinion, December 17, 1992, at 2. Old Section 604.401 applied only until the effective date for the new filtration and disinfection requirements of 35 Ill. Adm. Code 611(B). The effective date for Section 611.240 and the applicable subsection, Section 611.240 (g), was September 20, 1990. Board Opinion, December 17, 1992, at 3. It is significant to note that pursuant to its rule making action on August 9, 1990, the BOARD repealed Section 604.401 and with it the basis for 653.604 (the chlorine residual standard). The BOARD did not provide a "saving clause" to continue that regulation in effect. Illinois Pollution Control Board, Final Order, August 9, 1990, R88-26.

It is the law in the State of Illinois that where a special remedial statute or other enactment is unconditionally repealed without a "saving clause", it stops all pending actions where the repeal finds them. If final relief has not been granted before the repeal goes into effect, it can not be granted afterward. Shelton v. City of Chicago, 42 Ill.2d 462, 248 N.E.2d 121 (1st Dist. 1969); Stefani v. Baird & Warner, Inc., 157 Ill.App.3d 167 (1st Dist. 1987).

The citation of the Complainant, PRESCOTT, to Modine Manufacturing Co. v. Pollution Control Board, 549 N.E.2d 1379 (2d Dist. 1990), is clearly not on point with regard to the issue of regulatory effectiveness. The Modine Manufacturing case dealt with the appropriateness of the penalty which the BOARD assessed on an existing regulation. Section 33a of the Illinois Environmental Protection Act had been amended to state that "It shall not be a defense to findings of violations ... or a bar to the assessment of civil penalties that the person has come into compliance subsequent to the violation." Id., at 549 N.E.2d 1382. The question of the validity of a repealed regulation was never an issue in that case.

The case of Stefani v. Baird & Warner, Inc., 157 Ill.App.3d 167 (1st Dist. 1987), is in point on the issue of the effectiveness of a repealed regulation. In that case, the plaintiffs appealed from an order dismissing a second amended complaint alleging

violations of the Real Estate License Act. The general assembly amended the Real Estate License Act, however, after the alleged violations to provide that "[n]othing in this Act shall be construed to grant any person a private right of action for damages or to enforce the provision of this act or the rules or regulations issued under this Act". Id. at 157 Ill.App.3d 174. The Appellate Court observed that the Real Estate License Act was a remedial one and held that where a special remedial statute is unconditionally repealed without a "saving clause," it stops all pending actions where the repeal finds them and affirmed the lower court's ruling dismissing those counts. Id. at 157 Ill.App.3d 174.

The regulations at issue here are remedial in nature and were repealed unconditionally without a savings clause. As such, the regulation found at 35 Ill. Adm. Code 604.401 and 653.604 had no legal effect after September 20, 1990.

B. THE COMPLAINANT, PRESCOTT, IS NOT A PARTY WHO SHOULD BE EXEMPTED FROM THE REPEAL OF THE FORMER REGULATIONS SINCE HE CLEARLY HAD NOTICE OF THE AMENDMENT OF EXISTING LAW TO COMPORT WITH FEDERAL LAW IN THIS AREA, FAILED TO AMEND HIS COMPLAINT DURING THE 22 MONTHS BEFORE THE HEARING, THE AMENDMENT WAS CONSISTENT WITH THE BOARD'S ANNOUNCEMENTS IN THE PROPOSED RULE MAKING, AND THE COMPLAINANT HAS NO CONSTITUTIONALLY PROTECTED INTEREST WITH REGARD TO THE APPLICATION OF THE BOARD'S REGULATIONS.

The Complainant, PRESCOTT, argues that Sections 604.401 and 653.604 should be considered effective and that the new Section 611.204 should not be applied, citing Gonzales-Blanco v. Clayton,

110 Ill.App.3d 197, 441 N.E.2d 1308 (1st Dist 1982). Based on the Gonzales-Blanco case, the Complainant argues that the new regulations may be applied retroactively where the regulation represents an abrupt departure from well established practice, the party against whom the new regulation is applied relied on the former regulation, and the new regulation imposes a burden on that party. Brief in Support of Plaintiff's Motion For Reconsideration at 3. The argument of the Complainant misses the point in that the regulation he seeks to rely on has been unconditionally repealed without a "saving clause" and, under the facts in the instant case, the Complainant satisfies none of the criteria discussed in the Gonzales-Blanco case as a basis for exempting one from the application of an amended regulation.

The BOARD repealed Sections 604.401 and Section 653.604 in its rule making on August 9, 1990, pursuant to a statute adopted by the Illinois General Assembly in 1985, which was made effective January 1, 1989. Section 7.2 of the Illinois Environmental Protection Act required that the BOARD adopt regulations which are "...[i]dentical in substance to Federal Regulations or Amendments thereto promulgated by the Administrator of the United States Environmental Protection Agency to implement Sections 1412(b)...1-417(a), and 1445(a) of the Safe Drinking Water Act...as amended. Ill.Rev.Stat., Ch.111 1/2 §1007.2. Pursuant to that requirement, the BOARD proposed a rule for public comment on October 5, 1989.

clearly stated the changes it intended to make and adopted its rule making in a final order issued on August 9, 1990.

Considering such facts, the Complainant, PRESCOTT, cannot seriously argue that he "relied" upon the standard that was in effect at the time of his water sampling when he filed his Complaint on October 16, 1990. The Complainant clearly had notice that the BOARD would be changing the testing standards for drinking water and repealing Sections 604.401 and 653.604 pursuant to the Illinois General Assembly's enactment on January 1, 1989, the BOARD'S proposals on October 5, 1989 and the BOARD'S final action on August 9, 1990. The Complainant must be held to knowledge of such public announcements and enactments and should not be allowed to plead reliance through ignorance.

The Complainant, PRESCOTT, can also not be said to be substantially burdened by the BOARD'S decision here, since he had every opportunity to conduct further testing to determine compliance with the new regulations and amend his complaint. After all, the Complainant filed his Complaint October 16, 1990, and a hearing was not conducted until June 2, 1992. The Complainant certainly cannot argue that he has been burdened by his own failure to comply with existing case law and the statutes and regulations which have been in effect for a minimum of 22 months prior to the hearing. To do so would reward the Complainant's failure to utilize the BOARD'S

procedures for correcting pleadings to conform to changes in law and facts.

Finally, the Complainant, PRESCOTT, argues that the BOARD'S opinion and final order contradict the BOARD'S decision in this case. A complete reading of both the Proposal For Public Comment dated October 5, 1989, and the Final Order dated August 9, 1990, adopting rule R88-26 clearly indicate that the BOARD intended to repeal the former 35 Ill. Adm. Code 604.401 and 653.604 without a "saving clause" and to promulgate 35 Ill. Adm. Code 611(B) as the sole regulation in effect on the subject of testing for public water supplies. Proposal for Public Comment, October 5, 1989, R88-26 and Final Order, August 9, 1990, R88-26. The new regulations were not an abrupt departure from past practice since the Federal regulations and amendments promulgated by the Administrator of the United States Environmental Protection Agency to supplement the Safe Drinking Water Act had been in effect since 1987, and the BOARD had acted in October, 1989, with its Proposal for Public Comment to advise the public of its intent to conform its regulations to the Federal standard.

It is further worth noting, that as an unregulated individual, vis a vis the CITY which is a regulated entity, the Complainant, PRESCOTT, has no constitutionally protected right or interest with regard to the application of the regulations which the BOARD adopted on August 9, 1990. The Complainant, PRESCOTT, does not

lose any right or interest in person or property as a result of the application of the August 9, 1990, regulations, other than having plead a Complaint which was based on repealed regulations.

III. CONCLUSION

In consideration of the above indicated facts, precedents and arguments, the Respondent, the CITY OF SYCAMORE, respectfully submits that the Motion to Reconsider of the Complainant, HERMAN W. PRESCOTT, in the above captioned case should be denied and the BOARD'S final order in this matter should be affirmed in all its particulars.

Respectfully submitted,

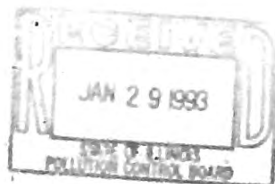
THE CITY OF SYCAMORE

By: Peter Thomas Smith
One of Its Attorneys

Peter Thomas Smith, Esq.
Timothy Johnson, Esq.
Attorneys for Respondent
207 W. State Street
Sycamore, Illinois 60178
(815) 895-4591

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BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant

vs.

PCB No. 90-187

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

CERTIFICATE OF MAILING

The undersigned certifies that the foregoing Response To Motion For Reconsideration of Complainant, HERMAN W. PRESCOTT, was filed with the Clerk of the Illinois Pollution Control Board in the above captioned case by depositing a copy thereof in the U.S. Mail, postage prepaid, in an envelope addressed to the Clerk of the Illinois Pollution Control Board Court in Chicago, Illinois on January 27, 1993.



Attorney for Respondent

OPINION & ORDER

ILLINOIS POLLUTION CONTROL BOARD

December 20, 1990

HERMAN PRESCOTT,

Complainant,

v.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB 90-187
(Enforcement)

ORDER OF THE BOARD (by J. C. Marlin):

This matter is before the Board on a Motion to Dismiss Petition as Frivolous filed by Respondent City of Sycamore ("Sycamore") on November 29, 1990. The Complainant, Herman W. Prescott ("Prescott") filed a response on December 19, 1990. Because of the result reached today, the Board will not specifically address the response. After consideration of the motion to dismiss, the Board denies it.

The motion raises several grounds as to why the complaint should be dismissed as frivolous. The first is that one of the sections claimed to be violated in this water enforcement case, Section 654.403 of the Illinois Environmental Protection Agency regulations, involves secondary maximum contaminant levels for finished water and is not an enforceable tolerance limit. We agree. Section 604.401(b) of Board regulations states that the Agency may set levels and promulgate procedures for chlorination. 35 Ill. Adm. Code 604.401(b). The Agency requires a minimum free chlorine residual of 0.2 mg/L or a minimum combined residual of 0.5 mg/L be maintained in all active parts of the distribution system at all times. 35 Ill. Adm. Code 653.604. The Board agrees, however, that the Complainant's reliance on Section 654.403 as an enforceable standard for residual chlorine is misplaced. Section 654.403 lists secondary maximum contaminant levels for finished water. It is neither an enforceable provision of the Illinois Environmental Protection Act nor an enforceable Board regulation. Therefore it is not the proper subject of an enforcement action. As Respondent admits, however, Prescott correctly cites the enforceable standard, 35 Ill. Adm. Code 654.403, in his complaint. We find therefore no need to dismiss the provisions of Prescott's complaint relating to residual chlorine just because Complainant includes an additional, non-enforceable standard.

Sycamore's second ground for dismissal of Prescott's allegations concerning residual chlorine is that the test results Prescott includes are "undocumented and unfounded." Sycamore contends its test results show compliance with the applicable standards. Sycamore attaches these test results as an exhibit.

As the above shows, the facts regarding the test results and the actual residual levels are controverted. The Board finds this to be an insufficient reason to find the complaint frivolous.

Sycamore raises a third reason as to why the complaint should be dismissed. Prescott's complaint alleges that the finished water has an odor and is frequently rusty. These allegations are deficient, Sycamore argues, because Prescott neither appends test results nor does Prescott cite a section of the Act which has been violated. Sycamore attaches to its motion tests results for manganese and iron concentrations which show that it is in compliance.

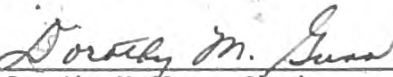
Sycamore is technically correct that the Complainant has not cited any applicable Board rule or section of the Act regarding manganese and iron concentrations which Sycamore is claimed to have violated. We are reluctant, however, to so narrowly construe Prescott's complaint as to require dismissal. Rather, we believe the claim is sufficiently stated so as to apprise Respondent of the conduct of which Prescott complains. Complainant may amend the Complaint to add those sections claimed violated in a supplemental pleading or amend his pleadings to conform to the proof at hearing. See 35 Ill. Adm. Code 103.210. As regards Sycamore's test results, the facts are again controverted. Therefore, the motion to dismiss these allegations is denied for reasons similar to those given previously.

Lastly, Sycamore requests the complaint be dismissed as frivolous because the Complainant improperly attempts to enforce the written recommendations of the Illinois Environmental Protection Agency contained in a letter dated July 20, 1990 to the city. We agree with Respondent that these recommendations are not a proper basis for an enforcement action. As we read the complaint however, Prescott asks the city to conform to these recommendations as the relief Complainant is requesting not as an actionable violation itself. Therefore, the motion to dismiss on this ground is also denied.

Respondent's motion to dismiss is hereby denied. The matter is accepted for hearing.

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Order was adopted on the 20th day of December, 1990 by a vote of 7-0.



Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD
April 11, 1991

HERMAN PRESCOTT,

Complainant,

v.

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB 90-187

(Enforcement)

ORDER OF THE BOARD (by J..C. Marlin):

This matter is before the Board on Respondent City of Sycamore's Motion for Leave to File Answer and Affirmative Defenses filed March 14, 1991. Respondent states that granting the motion will "prevent undue surprise to the Complainant, and allowing an answer ... will simplify the proof and factual issues when this case comes to hearing." The Board notes that this request falls outside the 30 day period given for filing an answer under Board procedural rules. Complainant has not filed a response. After consideration by the Board, the motion is granted.

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Order was adopted on the 11th day of April, 1991 by a vote of 7-0.

Dorothy M. Gunn
Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD
April 9, 1992

HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE,

Respondent.

PCB 90-187
(Enforcement)

ORDER OF THE BOARD (by M. Nardulli):

This matter comes before the Board on its own motion. This complaint was filed with the Board on October 16, 1990. No substantive action has taken place in this matter. The hearing officer is directed to schedule this matter for hearing by May 11, 1992, and to finish all hearings by July 15, 1992. The hearing officer is also directed to set a post-hearing briefing schedule if required.

Failure to complete hearings according to this schedule will subject this proceeding to dismissal for want of prosecution.

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above order was adopted on the 9th day of April, 1992, by a vote of 7-0.

Dorothy M. Gunn
Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD
October 29, 1992

HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE,

Respondent.

PCB 90-187
(Enforcement)

INTERIM ORDER OF THE BOARD (by R. C. Flemal):

This matter comes before the Board on a complaint filed October 16, 1992 by Herman Prescott (Prescott or complainant) against the City of Sycamore (Sycamore). The complaint alleges that Sycamore has violated 35 Ill. Adm. Code 653.604 of Subtitle F, Public Water Supplies, by failing to maintain the required amount of chlorine residual in all active parts of the distribution system. Prescott requests that the Board order Sycamore "to supply the Northeast section of the City with a steady supply of chlorine up to standards * * *" and to conform to the recommendations of the Illinois Environmental Protection Agency (Agency), as contained in a letter attached to the complaint. (complaint at ¶9.)

On December 20, 1990 the Board denied a motion to dismiss this action filed by Sycamore. (Prescott v. Sycamore (December 20, 1990), PCB 90-187, 117 PCB 153.) In its order, the Board found that the alleged violations of 35 Ill. Adm. Code 654.403 contained in the complaint were improper because that section contains unenforceable secondary maximum contaminant levels for finished water. The Board also found that allegations related to iron and manganese were contained in the complaint, but that the complaint contained no citation to any applicable section of the Board regulations or Environmental Protection Act (Act) regarding the manganese and iron concentrations which Sycamore is claimed to have violated. The Board declined to dismiss the matter for this reason, stating that the complainant could either file an amended complaint or amend his pleadings to conform to the proof at hearing. (*Id.* at 2.) Prescott has not so amended his complaint or pleadings, and the Board will proceed on the alleged violation of Section 653.604 only.

Hearing was held on June 2 and 3, 1992, in Sycamore, Illinois. No members of the public were in attendance, as noted by the hearing officer. Prescott filed his brief on July 16, 1992; Sycamore filed its response brief on July 31, 1992; Prescott filed his reply to Sycamore's response on August 7, 1992.

APPLICABLE LAW

The Board regulations at 35 Ill. Adm. Code 604.401 require public water supplies to chlorinate their water before it enters the distribution system. Section 604.401(b) of the Board's regulations provides for the Agency to set levels and to promulgate procedures for chlorination of public water supplies. The Agency has set chlorine levels at Section 653.604. The section requires as follows:

A minimum free chlorine residual of 0.2 mg/L or a minimum combined residual of 0.5 mg/L shall be maintained in all active parts of the distribution system at all times.

It is this chlorine residual requirement contained in Section 653.604 that Prescott alleges Sycamore has violated.

The Board notes that prior to the filing of Prescott's complaint, the Board amended its public water supply regulations and that Section 604.401 was amended. (In re Safe Drinking Water Act Regulations (August 9, 1990), R88-26, 114 PCB 149.) Section 604.401 applies only until the effective date has passed for the filtration and disinfection requirements of new Subpart B of Part 611¹, pertaining to a particular public water supply. The dates are set out for each type of public water supply, classified by source, in Section 611.240. One of the following effective dates for different types of groundwater sources would apply to Sycamore's water source:

- b) A supplier that uses a groundwater source under the influence of surface water and does not provide filtration treatment shall provide disinfection treatment specified in Section 611.241 beginning December 30, 1991, or 18 months after the Agency determines that the groundwater source is under the influence of surface water, whichever is later, unless the Agency has determined that filtration is required.
- c) If the Agency determines that filtration is required, the Agency may, by special exception permit, require the supplier to comply with interim disinfection requirements before filtration is installed.

* * *

¹ The new disinfection requirements also include sampling requirements that are drastically different than any sampling conducted thus far in this proceeding.

- e) A system that uses a groundwater source under the direct influence of surface water and provides filtration treatment shall provide disinfection treatment as specified in Section 611.242 by June 29, 1993 or beginning when filtration is installed, whichever is later.

* * *

- g) CWS suppliers using groundwater which is not under the direct influence of surface water shall provide disinfection pursuant to Section 611.241 or 611.242, unless the Agency has granted the supplier an exemption pursuant to Section 17(b) of the Act.

(Section 611.240.)

It is possible that disinfection requirements of Part 611 apply to this system, and that the chlorination requirements of Section 604.401 (and of Section 653.604 which proceeds from Section 604.401) are no longer in effect for this source, or have not been in effect prior to the filing of the complaint. Neither the complainant nor any other party has supplied the Board with information of what type of supply this is, other than it is a groundwater system. Therefore, in order to proceed to a determination in this matter, the parties must supply the Board with the factual information of what type of system this is so that the correct, effective date and sampling requirements may be applied.

The Board orders the parties to submit a document to inform the Board of the type of public water system used by Sycamore, according to the categories listed above from Section 611.240. The parties may submit this document in the form of a stipulation, or individual documents, to be received by the Board no later than November 16, 1992.

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above interim order was adopted on the 29th day of October, 1992, by a vote of 7-0.

Dorothy M. Gunn

Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD
December 17, 1992

HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE,

Respondent.

PCB 90-187
(Enforcement)

T. JORDAN GALLAGHER OF GALLAGHER, KLEIN & BRADY, APPEARED ON BEHALF OF COMPLAINANT;

PETER THOMAS SMITH OF SMITH & STRAUSS AND TIMOTHY JOHNSON APPEARED ON BEHALF OF RESPONDENT.

OPINION AND ORDER OF THE BOARD (by R. C. Flegal):

This matter comes before the Board on a complaint filed October 16, 1990, by Herman Prescott (Prescott or complainant) against the City of Sycamore (Sycamore). The complaint alleges that Sycamore has violated 35 Ill. Adm. Code 653.604 of Subtitle F, Public Water Supplies, by failing to maintain the required amount of chlorine residual in all active parts of the distribution system. Prescott requests that the Board order Sycamore "to supply the Northeast section of the City with a steady supply of chlorine up to standards * * *" and to conform to the recommendations of the Illinois Environmental Protection Agency (Agency), as contained in a letter attached to the complaint. (complaint at 19.)

On December 20, 1990 the Board denied a motion filed by Sycamore to dismiss this action. (Prescott v. Sycamore (December 20, 1990), PCB 90-187, 117 PCB 153.). In its order, the Board found that the alleged violations of 35 Ill. Adm. Code 654.403 contained in the complaint were improper because that section contains unenforceable secondary maximum contaminant levels for finished water. The Board also found that allegations related to iron and manganese were contained in the complaint, but that the complaint contained no citation to any applicable section of the Board regulations or Environmental Protection Act (Act) regarding the manganese and iron concentrations which Sycamore is claimed to have violated. The Board declined to dismiss the matter for this reason, stating that the complainant could either file an amended complaint or amend his pleadings to conform to the proof at hearing. (*Id.* at 2.) Prescott has not so amended his complaint or pleadings, and the Board will proceed on the alleged violation of Section 653.604 only.

Hearing was held on June 2 and 3, 1992, in Sycamore, Illinois. No members of the public were in attendance, as noted by the hearing officer. Prescott filed his brief on July 16, 1992; Sycamore filed its response brief on July 31, 1992; Prescott filed his reply to Sycamore's response on August 7, 1992.

FACTS

Prescott lives at 462 East Exchange Street in the northeast section of the City of Sycamore. The dwelling is one in a group of condominiums in the area. Prescott moved to the location in November 1988. The evidence at hearing established that the Prescott residence receives water through a six inch pipe connected to a water main. The pipe extends for approximately 230 feet until it dead ends at a hydrant. (Tr. at 45, 145, 339-340.) Various tests of the water in the area were conducted for chlorine content by Prescott, Agency personnel, and Sycamore personnel both before and after the complaint was filed.

A threshold issue is what rules apply to this water supply. Whether the tests conducted indicate that a violation of the applicable standards has occurred is at issue in the proceeding. Whether this pipe system is owned and controlled by the condominium residents or Sycamore such that one or the other would carry the responsibility of maintaining the pipe and hydrant system is also at issue in this proceeding.

APPLICABLE LAW

The Board regulations at 35 Ill. Adm. Code 604.401 require public water supplies to chlorinate their water before it enters the distribution system. Section 604.401(b) of the Board's regulations provides for the Agency to set levels and to promulgate procedures for chlorination of public water supplies. The Agency has set chlorine levels at Section 653.604. The section requires as follows:

A minimum free chlorine residual of 0.2 mg/L or a minimum combined residual of 0.5 mg/L shall be maintained in all active parts of the distribution system at all times.

It is this chlorine residual requirement contained in Section 653.604 that Prescott alleges Sycamore has violated.

The Board notes that prior to the filing of Prescott's complaint, the Board amended its public water supply regulations and that Section 604.401 was amended. (In re Safe Drinking Water Act Regulations (August 9, 1990), R88-26, 114 PCB 149.) Section 604.401 applies only until the effective date has passed for the filtration and disinfection requirements of new 35 Ill. Adm. Code

611. Subpart B, pertaining to a particular public water supply. The dates are set out for each type of public water supply, classified by source, in Section 611.240. One of the following effective dates for different types of groundwater sources would apply to Sycamore's water source:

- b) A supplier that uses a groundwater source under the influence of surface water and does not provide filtration treatment shall provide disinfection treatment specified in Section 611.241 beginning December 30, 1991, or 18 months after the Agency determines that the groundwater source is under the influence of surface water, whichever is later, unless the Agency has determined that filtration is required.
- c) If the Agency determines that filtration is required, the Agency may, by special exception permit, require the supplier to comply with interim disinfection requirements before filtration is installed.
- * * *
- e) A system that uses a groundwater source under the direct influence of surface water and provides filtration treatment shall provide disinfection treatment as specified in Section 611.242 by June 29, 1993 or beginning when filtration is installed, whichever is later.
- * * *
- g) CWS suppliers using groundwater which is not under the direct influence of surface water shall provide disinfection pursuant to Section 611.241 or 611.242, unless the Agency has granted the supplier an exemption pursuant to Section 17(b) of the Act. [The Board notes that the effective date for this subsection (g) is September 20, 1990, the same as the effective date of this Section 611.240.]

(Section 611.240.)

On October 29, 1992, by interim order, the Board found that it is possible that disinfection requirements of 35 Ill. Adm. Code 611 apply to this system, and that the chlorination requirements of Section 604.401 (and of Section 653.604 which proceeds from Section 604.401) are no longer in effect for this source, or have not been in effect prior to the filing of the complaint. Prior to the interim order, neither the complainant nor any other party had supplied the Board with information of

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what type of supply this is, other than it is a groundwater system. Therefore, the Board ordered the parties to submit a document to inform the Board of the type of public water system used by Sycamore, according to the categories listed above from Section 611.240, so that the correct effective date and sampling requirements may be applied.

On November 13, 1992, Sycamore and Prescott filed a stipulation of facts which states that:

The public water system used by the Respondent, CITY OF SYCAMORE, at all pertinent times in the above captioned case used groundwater which is not under the direct influence of surface water.

As the parties indicate, this system is a groundwater system not under the direct influence of surface water. Therefore, the effective date of the new requirements for filtration and disinfection found at 35 Ill. Adm. Code 611. Subpart B for this system is September 20, 1990, a date prior to the filing of this complaint. By the time of the filing of the complaint, Section 604.401, and Section 653.604 which proceeds from Section 604.401, were no longer in effect for this source. The Part 611 rules include different sampling requirements than those found at Section 653.604. The Board finds that the complainant has not brought this action based on applicable law; consequently, he has not shown that a violation of applicable law has occurred. Therefore, based on the record before it, the Board must dismiss this complaint as no violation can be found. The Board does not reach the issue of ownership and control of the hydrant since no violation of the applicable law can be found.

If the complainant believes Sycamore is in violation of the applicable disinfection requirements of 35 Ill. Adm. Code 611, he may file a new complaint.

This opinion constitutes the Board's findings of fact and conclusions of law in this matter.

ORDER

For the reasons contained in the above opinion, no violation is found and this matter is dismissed.

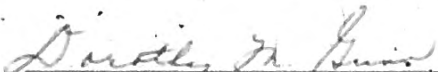
IT IS SO ORDERED.

B. Forcade dissented.

Section 41 of the Environmental Protection Act, Ill. Rev. Stat. 1991, ch. 111½, par. 1041, provides for appeal of final orders of the Board within 35 days. The Rules of the Supreme Court of Illinois establish filing requirements. (But see also

35 Ill. Adm. Code 101.246, Motions for Reconsideration, and Castenada v. Illinois Human Rights Commission (1989), 132 Ill.2d 304, 547 N.E.2d 437.)

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above opinion and order was adopted on the 17th day of December, 1992, by a vote of 6-1.



Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD
December 17, 1992

HERMAN W. PRESCOTT,

Complainant,

v.

CITY OF SYCAMORE,

Respondent.

PCB 90-187
(Enforcement)

DISSENTING OPINION (by B. Forcade):

I respectfully dissent from today's action. I believe in this case the complainant has stated sufficient facts to support a cause of action under at least two theories. First, Section 18(a) of the Environmental Protection Act provides:

Section 18

- a. Owners and official custodians of public water supplier shall direct and maintain the continuous operation and maintenance of water-supply facilities so that water shall be assuredly safe in quality, clean, adequate in quantity, and of satisfactory mineral character for ordinary domestic consumption.

Here, I believe the testimony shows that the water is not clean. Second, our regulations used to provide at 35 Ill. Adm. Code 604.201 as follows:

SUBPART B: CHEMICAL AND PHYSICAL QUALITY

Section 604.201 Finished Water Quality

- a) The finished water shall contain no impurity in concentrations that may be hazardous to the health of the consumer or excessively corrosive or otherwise deleterious to the water supply. Drinking water shall contain no impurity which could reasonably be expected to cause offense to the sense of sight, taste, or smell.
- b) Substances used in treatment should not remain in the water in concentrations greater than required by good practice. Substances which may have deleterious physiological effect, or for which physiological effects are not known, shall not be used in a manner that would permit them to reach the consumer.

Although inadvertently deleted in a prior regulatory proceeding, this language was replaced in K91-3 (November 19, 1992). I believe the testimony would support a violation of Section 604.201(a).

I believe the majority declines to accept fact pleading as a basis for finding a violation, and will only look to the specific statutory or regulatory provisions cited in the complaint. Since counsel failed to cite to these provisions, the majority did not evaluate them. I disagree for reasons stated in my dissenting opinion in North Oak Chrysler Plymouth, v. Amoco Oil Company, PCB 91-214 (April 9, 1992). A substantial portion of that dissenting opinion is reproduced here for clarity:

First, despite any ruling regarding the UST regulations, I believe North Oak Chrysler (North Oak) has filed a complaint which states sufficient facts to support a cause of action over which this Board has jurisdiction.

For purposes of ruling on a motion to dismiss, all well pleaded facts contained in the complaint must be taken as true and all inferences therefrom must be drawn in favor of the nonmovant. [citations omitted]. A complaint should not be dismissed for failure to state a cause of action unless it clearly appears that no set of facts could be proven under the pleadings which would entitle plaintiff to relief. [citations omitted] ... Illinois requires fact rather than notice pleading. [citations omitted]...[Emphasis Added]

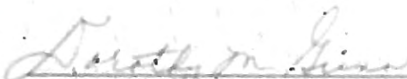
Brumley v. Touche, Ross & Co. (1984), 123 Ill. App. 3d 636, 463 N.E.2d 195.

* * * * *

Since I believe the complaint states sufficient facts to support a viable cause of action, I would not have granted dismissal. I do not yet know whether North Oak can prove those facts and their most favorable inferences. Nor do I know if Amoco might have a perfectly valid defense. The question of what relief is available, if any, is even more complicated. Those matters must be resolved later in the proceeding.

Since the majority focuses only on the regulatory provisions involved, I assume the majority concludes that notice pleading rather than fact pleading controls here. I would disagree. Illinois is a fact pleading state. Ill. Rev. Stat. 1989, ch. 110, para. 2-601. This Board is an administrative agency rather than a court of law. Further, this proceeding is a citizen enforcement action. Under those conditions, I believe the Board should be as lenient as the law will allow in regard to the particulars of formal pleading.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above dissenting opinion was filed on the 28th day of December, 1992



Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD
March 11, 1993

HERMAN W. PRESCOTT,

Complainant,

CITY OF SYCAMORE,

Respondent.

PCB 90-187,
(Enforcement)

SUPPLEMENTAL OPINION AND ORDER OF THE BOARD (by R. C. Flemal):

This matter comes before the Board on a motion for reconsideration filed by the complainant, Herman W. Prescott (Prescott or complainant). Prescott asks that the Board reconsider its order of December 17, 1992. In that order, the Board dismissed the complaint finding that the complainant had not brought this action based on applicable law; consequently, it has not been shown that a violation of applicable law has occurred.

The complaint, filed October 16, 1990, by Prescott against the City of Sycamore (Sycamore or respondent), alleges that Sycamore has violated 35 Ill. Adm. Code 653.604 of Subtitle F, Public Water Supplies, by failing to maintain the required amount of chlorine residual in all active parts of the distribution system. Prescott requests that the Board order Sycamore "to supply the Northeast section of the City with a steady supply of chlorine up to standards * * *" and to conform to the recommendations of the Illinois Environmental Protection Agency (Agency), as contained in a letter attached to the complaint. (complaint at ¶9.)

For the reasons stated below, the Board reconsiders its December 17, 1992 opinion and order.

REGULATORY FRAMEWORK

Central to this action is an understanding of the regulations governing disinfection by public water supplies, and the amendments that these regulations have undergone. Parts of this discussion are also contained in the Board's December 17, 1992 opinion and order and are reiterated here for continuity.

The requirement of providing water that is adequately disinfected is a long-standing facet of regulation of public water supplies. However, the manner in which this requirement is manifest has evolved over time as a function of expanding

knowledge of the most beneficial methods and manners of achieving disinfection.

The most recent major revision to disinfection regulations occurred pursuant to requirements of the U.S. Safe Drinking Water Act (SDWA), and to regulations adopted by the U.S. Environmental Protection Agency (USEPA) implementing the SDWA as found at 40 CFR 141, 142, and 143 (1989). These revisions were in turn adopted into Illinois law, as required by the Environmental Protection Act (415 ILCS 5/17.5 (1992) (Act)¹, by Board order of August 9, 1990, with an effective date of September 20, 1990. This date of September 20, 1990 is a watershed date as regards the instant action.

Prior to September 20, 1990 the applicable disinfection requirements occurred at 35 Ill. Adm. Code 604.401 and 653.604. Section 604.401 specified in pertinent part:

All supplies . . . shall chlorinate the water before it enters the distribution system.

- b) The Agency may set levels and promulgate procedures for chlorination.

The Agency has set chlorine levels at Section 653.604, wherein it is required that:

A minimum free chlorine residual of 0.2 mg/L or a minimum combined residual of 0.5 mg/L shall be maintained in all active parts of the distribution system at all times.

It is this chlorine residual requirement contained in Section 653.604 that Prescott alleges Sycamore has violated.

Subsequent to September 20, 1990, new disinfection requirements were added at 35 Ill. Adm. Code 611.Subpart B, in particular at Sections 611.240, 611.241, and 611.242. The new requirements are not only substantially more expansive, but also amend (1) the components that constitute residual chlorine, (2) the techniques permissible for measuring residual chlorine, and (3) the numerical standard for residual chlorine from single numeric values to a standard based upon averaging.

¹ The Act was formerly codified at Ill.Rev.Stat. 1991, ch 111½, par. 1001 et seq.

² In re: Safe Drinking Water Act Regulations (August 9, 1990), R88-26, 114 PCB 149-397.

A provision of the change to the new regulations is that the changeover date from the old to the new regulations is dependent upon the nature of the particular public water supply'. In the circumstance at hand, the Sycamore public water supply system is a "groundwater system not under the direct influence of surface water", and as such the effective date of the new disinfection requirements is the same as the general effective date of the Part 611 regulations, i.e., September 20, 1990'. The Board so found in its dismissal order of December 17, 1992; this finding is not disputed.

September 20, 1990 is prior to October 16, 1990, the date upon which the instant complaint was filed. Accordingly, the complaint was filed after the date upon which Section 604.401 (and Section 653.604 which proceeds from Section 604.401) ceased to be applicable to Sycamore. The consequences that flow from these facts is what remains at issue.

MOTION FOR RECONSIDERATION

In his motion Prescott asks the Board to reconsider alleged violations prior to September 1990, specifically violations alleged to have occurred between November 22, 1989 and January 22, 1990. Prescott argues that the Board's December 17, 1992 decision would have the effect of barring all enforcement actions where the violation was not occurring at the time of the filing of the complaint'. Prescott cites Modine Manufacturing v. PCB (2nd Dist. 1990), 549 N.E.2d 1379, where the court allowed the imposition of penalties for wholly past violations.

³ See 35 Ill. Adm. Code 604.401, as amended effective September 20, 1990, and 35 Ill. Adm. Code 611.240. Section 604.401 ceases to be applicable to any particular public water supply though the action of the statement:

This Section applies until the effective date for the filtration and disinfection requirements of 35 Ill. Adm. Code 611.Subpart B as applicable to each supply.

which was added to Section 604.401 effective September 20, 1990.

⁴ See 35 Ill. Adm. Code 611.240(g).

⁵ Prescott also argues that retroactive application of the current Part 611 regulations is improper. The Board finds Prescott's arguments on retroactivity inapplicable because the Board never applied nor intends to apply retroactively the Part 611 regulations in this case.

Sycamore filed its response to the motion for reconsideration on January 29, 1993. Sycamore states that since the Board "repealed" Section 604.401 and with it the basis for Section 653.604, and did not provide a "saving clause" to continue the regulation in effect, the Board was correct in dismissing the complaint.

Sycamore argues that under Illinois law, where a remedial statute is repealed without a "saving clause", it stops all pending actions where the repeal finds them. If final relief has not been granted before the repeal goes into effect, it can not be granted afterward. (Shelton v. City of Chicago (1st Dist. 1969), 42 Ill.2d 462, 248 N.E.2d 121; Stefani v. Baird & Warner, Inc. (1st Dist. 1987), 157 Ill.App.3d 167.)

The cases cited by Sycamore deal with statutory amendments that totally extinguish a right of action for damages or to enforce regulations that were promulgated pursuant to that statutory right of action. The effect of the amendments on pending cases brought in exercise of that now extinguished right is that the cases were dismissed. Although in this matter the regulations were changed in response to identical-in-substance directives contained in the Act as discussed above, the Board finds here that the right to bring an action was not totally extinguished in this instance for those alleged violations prior to the effective date of the amendments. Furthermore, although Sycamore asserts that the repealed Board regulations are remedial, it gives no support for that conclusion.

Sycamore incorrectly characterizes the September 20, 1990 action with respect to Section 604.401 as a "repeal". The regulation's provisions were not expunged through a repeal; rather, its provisions ceased to be effective after a date certain. While it is clear that the regulation's provisions are unenforceable for alleged violations occurring after that date, we do not construe its provisions as being unenforceable for past violations that occurred before the regulation's provisions ceased to be effective. We note that we are not making a holding on the enforceability of a repealed regulation, as that issue is not before us. The Board accordingly does not find this facet of Sycamore's arguments persuasive.

Sycamore further argues that the Modine case, cited by Prescott, is not applicable since that case did not deal with the issue of regulatory effectiveness, but rather with subsequent compliance with still applicable regulations. We believe that Sycamore is correct in that in Modine the violator did come into compliance and no regulatory change was involved. However, the effect of the subsequent compliance in Modine is similar to the instant matter. The only difference is that here, if violation is found, the violation could terminate due to subsequent inapplicability of the regulation, rather than subsequent

compliance with the regulation. Again, the Board is not persuaded by Sycamore's arguments.

Prescott is correct that the complaint contains allegations of violations between November 22, 1989 and January 22, 1990. The Board also notes, however, that the complaint and hearing record indicate that complainant sought to present allegations and to seek relief of a continuing violation beyond the dates specified in the motion for reconsideration. Complainant never sought to amend his complaint, and neither party recognized the existence of new regulations governing the actions of respondent⁶.

Nevertheless, the Board will reconsider complainant's action, as it pertains to the dates of alleged violations between November 22, 1989 and January 22, 1990, since these dates were presented in the complaint, and are prior to the effective date of the new regulations for this source. Therefore, the Board vacates its prior order only as it pertains to violations that are alleged to have occurred between November 22, 1989 and January 22, 1990.

FACTS

The essential facts in this matter have been set out in the December 17, 1992 Board opinion. Among these are:

Prescott lives at 462 East Exchange Street in the northeast section of the City of Sycamore. The dwelling is one in a group of condominiums in the area. Prescott moved to the location in November 1988. The evidence at hearing established that the Prescott residence receives water through a six-inch pipe connected to a water main (hereinafter, "water main extension"). The pipe extends for approximately 230 feet until it dead ends at a hydrant. (Tr. at 45, 145, 339-340.) Various tests of the water in the area were conducted for chlorine content by Prescott, Agency personnel, and Sycamore personnel both before and after the complaint was filed.

Whether this pipe system is owned and controlled by the condominium residents or Sycamore such that one or the other would carry the responsibility of maintaining and operating the water main extension and hydrant system is at issue in this

⁶ The Board is bemused by complainant's insinuations that the Board adopted revised disinfection regulations to somehow circumvent complainant's case. (Compl. motion at 4). The revision was not only mandated by federal and state law, but occurred prior to the filing of the instant complaint. See above.

proceeding. Whether the tests conducted (pertaining to dates between November 22, 1989 and January 22, 1990) indicate that a violation of the applicable standards has occurred is also at issue in the proceeding.

DISCUSSION

Ownership

In defense of the action, the respondent alleges that the developer of the property, and subsequently Prescott, owns the water main extension. Therefore, any liability for violation of regulations due to inadequate maintenance of the water main extension and hydrant should be borne by Prescott and the other condominium owners.

Prescott argues that Sycamore is solely responsible for the operation and maintenance of the water main extension, and is the official custodian of the public water supply including the water main and its extensions.

Pertinent regulations in effect between November 22, 1989 and January 22, 1990 state:

Section 601.101 General Requirements

Owners and official custodians of a public water supply in the State of Illinois shall provide pursuant to the Environmental Protection Act * * *, the Pollution Control Board * * * Rules, and the Safe Drinking Water Act * * * continuous operation and maintenance of public water supply facilities so that the water shall be assuredly safe in quality, clean, adequate in quantity, and of satisfactory mineral characteristics for ordinary domestic consumption.

Section 601.102 Applicability

The provisions of this Chapter shall apply to public water supplies, as defined in the Act, except for those designated as non-community water supplies. A public water supply shall be considered to end at each service connection.

Section 601.105 Definitions

* * *

"Service Connection" is the opening, including all fittings and appurtenances, at the water main through which water is supplied to the user.

Also, the parties presented evidence and testimony on the ownership/liability issue. Prior to Prescott's residency at the property, a developer of the property, Donald J. Kohler, applied to the Illinois Environmental Protection Agency for a construction permit for the water supply system. (Compl. Exh. 1.) Correspondence from the Agency to Warner Engineering dated April 8, 1988 indicates that the Agency viewed the six-inch water main extension as a water main, and reported to the developer that his organization would be viewed as a public water supply if it retained ownership of the water main extension. The Agency further informed the developer of minimum compliance requirements for public water supplies. The Agency then suggested two alternatives for the developer in order to avoid being viewed as a public water supply:

The situation of the proposed Exchange Street townhouses⁷ being a public water supply may be avoided if the necessary easements could be granted with ownership of the proposed 6 inch watermain being turned over to the City of Sycamore. If this is to be the case, a revised page 3 of the Application for Construction Permit must be submitted citing the City of Sycamore as the owner of the completed project.

Another acceptable alternative would be for Donald J. Kohler, * * * to retain ownership of the proposed watermain (sic), and enter into an agreement with the City of Sycamore where the official representatives of the City would supervise operation, maintenance and repair of the proposed watermain. Any cost incurred would be borne by the terms of an agreement accepted and signed by the respective officials. (Compl. Exh. 1.)

Correspondence from Sycamore⁸ indicates that the second option was chosen and a revised page 3 of the application was submitted to the Agency which states in pertinent part:

Agreement to Furnish Water

* * *

⁷ The subject property is referred to in the record as both townhouses and condominium property. The record indicates that the property is condominium property and that the area through which the water main runs is part of the common elements of the condominium property. (Tr. 46-47; Resp. Exh. J).

⁸ Letter from Sycamore to the Agency dated April 15, 1988, Compl. Exh. 1.

The undersigned acknowledges the public water supply's responsibility for examining the plans and specifications to determine that the proposed extensions meet local laws, regulations and ordinances. The City of Sycamore shall have the sole responsibility for the "Supervision" and "Operation" of all water main extensions upon completion of installation and in perpetuity.

[signed by Harold Johnson, as the mayor of the City of Sycamore]

* * * I/We hereby agree to accept ownership of the project upon satisfactory completion, subject to the City of Sycamore having sole responsibility for "Supervision" and "Operation" of all water main extensions upon completion of installation and in perpetuity. Actual maintenance costs shall be borne by Owner.

[signed by Donald Kohler as owner of the completed project] (Compl. Exh. 1.) (underlining in original)

The above agreement indicates that the developer would retain ownership of the completed project. That the agreement was reached is supported by testimony. John Brady, city engineer, testified that no "formal" agreement was entered into and that page three was not in the form of an agreement. However, he acknowledged that page three of the application was signed by the mayor of Sycamore and Mr. Kohler, and that it contains the language as suggested by the Agency for option 2. (Tr. 346-347.)

The permit application, by which this agreement was submitted, was not approved by the Agency. (Compl. Exh. 1.) The Board finds that the fact that the permit application was not approved at some later time does not affect the contents of the agreement, nor does it affect the fact that it is valid as entered into between the parties. The Board further finds that the agreement is not inconsistent with the applicable regulations cited above.

The Board finds that Prescott is co-owner of the water main extension, and that the terms of the agreement between Sycamore and Kohler passed with all rights and claims to the owners of the condominiums. When ownership of the condominium property unit passed to Mr. & Mrs. Prescott, a percentage of the ownership of the common elements also passed to Mr. and Mrs. Prescott, together with the appurtenances belonging to the property. (Resp. Exh. J.) The deed was entered into within the

contemplation of the Illinois Condominium Property Act, 765 ILCS 605/1 et seq. (Condominium Property Act).⁹

Even if the agreement were not valid, Prescott would be co-owner, as no easements have been given to Sycamore, and no subsequent transfer of ownership of the water main extension has taken place. The situation would merely be as it was prior to the entering of the agreement: i.e., the owner(s) of the property would be owner(s) of the water main. Moreover, Prescott agreed that if the water main extension were not dedicated to Sycamore and there were no easements given to Sycamore, he would be considered part owner as he is a member of the condominium association. (Tr. at 46-47.) In addition, the Condominium Property Act states that unit owners (or a percentage thereof) "may elect to dedicate a portion of the common elements to a public body for use as, or in connection with, a street or utility". (765 ILCS 605/14.2) There is no evidence in the record that dedication of the water main extension to Sycamore has ever taken place.

Since Prescott is part-owner and Sycamore has sole authority to supervise and operate the water main extension, any liability for violations would be per the terms of the agreement. Since Sycamore has sole responsibility for supervision and operation, Sycamore would be responsible for violations involving supervision and operations. If the maintenance is necessary for operation of the main, Sycamore, as solely responsible for operations, would have to perform that maintenance. Any maintenance costs incurred would be borne by the condominium owners as stated in the agreement.

Alleged Violations

As stated in the complaint, Prescott alleges Sycamore violated Section 653.604 by failing to maintain a minimum free chlorine residual of 0.2 mg/L or a minimum combined chlorine residual of 0.5 mg/L in all active parts of the distribution system at all times. As noted above, the dates of the alleged violations were to have occurred between November 22, 1989 and January 22, 1990.

Mr. Prescott submitted test results he conducted for total chlorine¹⁰ using a Hach test kit. He recorded results ranging

⁹ This Act was formerly codified at Ill. Rev. Stat. 1991, ch. 30, pars. 301 et seq.

¹⁰ Total chlorine is the sum of free and combined chlorine. (Tr. at 98, 388). An accurate total chlorine measurement under 0.5 mg/L would thus indicate combined chlorine under 0.5 mg/L.

from 0.6 to 0.4 on days between November 22, 1989 and January 22, 1990. (Compl. Exh. 3).

Prescott testified that in conducting the tests, he ran water through a vinyl hose (Resp. Exh. A) connected to an faucet outside his residence. He testified that he filled the test vial with water and put it in the kit, added material from a capsule to the water in the vial, covered the vial with his index finger to shake it, and then waited three minutes or less before taking the reading. (Tr. at 55-57, 68.) He testified that he waited no longer than three minutes, but that he sometimes waited 2 1/2 minutes. He could not recall how many times he took readings at 2 1/2 minutes. (Tr. at 68, 71.)

Mr. Leonard Lindstrom, Regional Manager of the Agency's Division of Public Water Supplies, testified on behalf of complainant. He testified regarding field or lab testing in general that, if, for example, he wants a certified test, he uses a lab test. He stated that to test what they think is present, he uses a field test. (Tr. 164-165.) He characterized the Hach test as a field test that "is not one in which there are a lot of doubts about what the results are". (Tr. at 165.) He stated that he has not taken any chlorine tests to the lab. (Tr. at 165.) Mr. Lindstrom described the reaction in the test, and stated that the color or lack of color would be readily apparent. (Tr. at 158.) He also stated that one would not have to wait the full three minutes "to get most of the residual". (Tr. at 167.)

Kevin Lookis, vice president of Hydronics, Inc., testified on behalf of Sycamore. He testified that the Hach test had a margin of error of plus or minus 20% to 25% and is not suitable for detecting very low levels of chlorine, such as .2 parts per million. (Tr. at 375-377.) He stated that factors that could adversely affect the accuracy of the Hach test for total chlorine include not allowing enough time for the reagent to react, the condition of the eyes, the condition of the reagent powder, and the sample size. (Tr. at 378-380.) Mr. Lookis testified that the hose used by complainant contained a film indicating a buildup of iron which could create a chlorine demand that could use up or reduce some of the chlorine during testing. (Tr. at 380-383.)

Thomas Mangan, president of Prairie Environmental Specialists, also testified on behalf of Sycamore. He testified that the Hach test was considered a qualitative test, i.e., a test used to give benchmark readings subject to field conditions. He stated that the Hach test has a 10% to 20% margin of error. (Tr. at 417-418.) He also stated factors that could affect the accuracy of the test as not waiting the full three minutes as recommended by the manufacturer, covering the tube with a finger when mixing the reagent in the vial, and the use of a rubber or vinyl hose. (Tr. at 420-422.) Mr. Mangan testified that he

would recommend that a quantitative test be conducted if a field test indicated a .0 residual. (Tr. at 432.) He stated that in doing the quantitative test, certain procedures had to be followed due to the fact that chlorine dissipates quickly. (Tr. at 432-433.)

Based on the above, the Board finds that the test results presented by Prescott do not give the definitive indication of the level of free or combined chlorine needed to conclude that a violation of Section 653.604 has occurred. The respondent's witnesses rebutted the accuracy of the results yielded by the method of field testing used by Prescott. The Board is particularly persuaded that the test results do not accurately depict a violation based on the fact that the Hach test is a qualitative field test that the respondent's witnesses testified has a margin of error ranging between 10% and 25%, and that it is particularly suspect at lower levels of detection. Also, testimony indicates that complainant did not wait the full three minutes on some occasions, and that he could not recall how many times he did not wait the full three minutes. At best the test results are suggestive of a problem and would lead one to further investigate whether a violation is occurring, but are not accurate enough to prove that a violation actually occurred.

The fact that Sycamore officials or officials of other water supplies use the Hach test to check chlorine residual (Tr. at 260, 270; 396-7), or that the test colors are apparent as stated by Mr. Lindstrom, and as argued by complainant, does not bear on the lack of accuracy of the Hach test for a definitive finding of violation. Also, the fact that chlorine dissipates quickly and that certain procedures need to be followed to conduct a quantitative test does not mean it cannot be done, nor does this bear on the lack of accuracy of the field test conducted here. Complainant mischaracterizes respondent's witness as stating that the tests for chlorine residual "must" be run at the site. (Compl. brief at 5.) The correct responses were affirmative answers to questions concerning quick dissipation of chlorine as one of the reasons why these tests are "generally" done at the site. (Tr. at 433.)

The Board finds that the complainant has failed to show that a violation of 35 Ill. Adm. Code 653.604 has occurred between November 22, 1989 and January 22, 1990.

This supplemental opinion, and the December 17, 1992 opinion (as modified in today's opinion) constitute the Board's findings of fact and conclusions of law in this matter.

ORDER

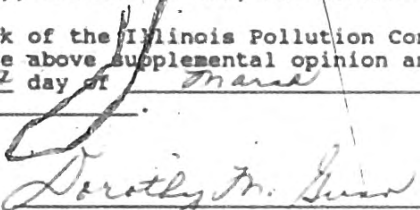
The complainant has failed to show that the violation as alleged has occurred. Therefore, this complaint is dismissed.

IT IS SO ORDERED.

Board Member Bill Forcade dissented.

Section 41 of the Environmental Protection Act, 415 ILCS 5/41 (1992), provides for appeal of final orders of the Board within 35 days. The Rules of the Supreme Court of Illinois establish filing requirements. (But see also 35 Ill. Adm. Code 101.246, Motions for Reconsideration, and Castenada v. Illinois Human Rights Commission (1989), 132 Ill.2d 304, 547 N.E.2d 437.)

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above supplemental opinion and order was adopted on the 17th day of March, 1993, by a vote of 5-1.


Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

EXHIBITS

THIS INDENTURE, made this 11th day of October, 1980, between THE FIRST AMERICAN BANK, an Illinois Banking Corporation, as Trustee under the provisions of a deed or deeds in trust, duly recorded or registered and delivered to said Bank in pursuance of a trust agreement dated the 20th day of September, 1980, and known as Trust No. 1320 party of the first part, and heretofore, Prescott and wife, party of the second part,

WITNESSETH, that said party of the first part, in consideration of the sum of TEN AND NO/100 (\$10.00) Dollars, and other good and lawful consideration, in hand paid, does hereby grant, sell and convey unto said parties of the second part, not in tenancy in common, but in joint tenancy, the following described real estate, situated in DeKalb County, Illinois, to-wit:

Unit #8 in Old School Condominiums, as delineated on the Plat of the following described parcel of real estate: Lot 16 and Lot 17 in Sablin's Addition to the City of Sacramento, according to the Plat thereof recorded in Plat Book "A", Page 59, excepting therefrom the following: Beginning at the North West corner of said Lot 17; thence Southeasterly along the North line of said Lot 17, a distance of 37.00 feet; thence Southerly, 332.55 feet to the South West corner of said Lot 17; thence Northerly to the point of beginning, all in DeKalb County, Illinois, which survey was recorded in Plat Book "MT", Page 76, and was attached to and made a part of the Declaration of Condominium recorded as Document No. 88003207, as supplemented from time to time, together with an undivided percentage interest in and to the common elements thereunder.

This Deed is conveyed on the conditional limitation that the percentage of ownership of said Grantees in the common elements shall be divested pro tanto and vest in the Grantees of the other units in accordance with the terms of said Declaration and any Amended Declarations recorded pursuant thereto, and the right of revocation is also hereby reserved to the Grantor herein to accomplish this result. The acceptance of this conveyance by the Grantees shall be deemed an agreement within the contemplation of the condominium property act of the State of Illinois to a shifting of the common elements pursuant to said declaration and to all the other terms of said Declaration, which is hereby incorporated herein by reference thereto, and to all the terms of each Amended Declaration recorded pursuant thereto.

Together with the tenements and appurtenances thereunto belonging.

TO HAVE AND TO HOLD the same unto said parties of the second part, not in tenancy in common, but in joint tenancy, and to the proper use, benefit and behoof forever of said parties of the second part.

This deed is executed by the party of the first part, as Trustee, as aforesaid, pursuant to and in the exercise of the power and authority granted to and vested in it by the terms of said Deed or Deeds in Trust and the provisions of said Trust Agreement above mentioned, and of every other power and authority thereunto enabling, SUBJECT, HOWEVER, to the liens of all trust deeds and/or mortgages upon said real estate, if any, of record in said



PC 390-47

88008052

party; all unpaid general taxes and special assessments and other liens and claims of any kind; pending litigation, if any, affecting the said real estate; building lines; building, liquor and other restrictions of record, if any; party walls, party wall rights and party wall agreements, if any; Zoning and Building Laws and Ordinances; mechanic's lien claims, if any; easements of record, if any; and rights and claims of parties in possession.

IN WITNESS WHEREOF, said party of the first part has caused its corporate seal to be hereto affixed, and has caused its name to be signed to these presents by its Vice President and attested by its (Assistant) Cashier, the day and year first above written.

THE DE KALB BANK, as Trustee as
aforesaid.

BY: [Signature]
Vice President

ATTEST: [Signature]
Treasurer

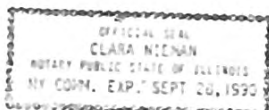
STATE OF ILLINOIS)
) 55
COUNTY OF DE KALB)

I, the undersigned a Notary Public in and for said County, in the state aforesaid, DO HEREBY CERTIFY THAT, Carl Joe Heinisch Vice President of THE DE KALB BANK and Gloria Walker (~~XXXX~~) Cashier of said Bank, personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such Vice President and (~~Assistant~~) Cashier respectively, appeared before me this day in person and acknowledged that they signed and delivered the said instrument as their own free and voluntary act, and as the free and voluntary act of said Bank, for the uses and purposes therein set forth; and the said (~~Assistant~~) Cashier did also then and there acknowledge that said (~~Assistant~~) Cashier, as custodian of the corporate seal of said Bank, did affix the said corporate seal of said Bank to said instrument as said (~~Assistant~~) Cashier's own free and voluntary act, and as the free and voluntary act of said Bank, for the uses and purposes therein set forth.

Given under my hand and Notarial Seal this 11th day of October, 1988.

Clara Nelson
Notary Public

Drafted By:
Boyle, Cordes & Brown
363 E. Lincoln Hwy.
DeKalb, IL 60115
(815) 756-6328



Return To:

ATTY DAN COLLANDER
552 S. WASHINGTON, #200
NAPERVILLE, IL. 60540

RESPONDENT'S
EXHIBIT

H

CALIFORNIA



DIVISION OF PUBLIC WATER SUPPLIES

Inventory Sheet

Date inventoried _____

Sheet _____ of _____

Supply: SYCAMORE

Item: LOCATION



Original Do Not Remove

MARVIN I. MEDINTZ

ATTORNEY AT LAW

35 EAST WACKER DRIVE SUITE 500

CHICAGO, ILLINOIS 60601

(312) 877-0150

JUL - 1 1992

OF COUNSEL TO MOORE & WISE

June 29, 1990

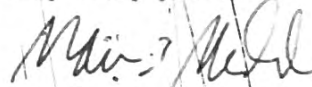
Clerk
ILLINOIS POLLUTION CONTROL BOARD
100 W. Randolph Street, Suite 11-500
Chicago, IL 60601

Re: Herrman W. Prescott v. The
City of Sycamore
PCB90-187

Dear Clerk:

Enclosed please find Petitioner's Exhibit 12, which was not included in my prior transfer of Exhibits in this cause. Please place this exhibit in this case file.

Very truly yours,



Marvin I. Medintz

MIM/sch
Enc.



217/782-1724

CERTIFIED MAIL

Re: Sycamore (DeKalb County - 0370550) -- Public Water Supply -- Permit Denial
May 4, 1988

Mayor and Council
535 DeKalb Avenue
Sycamore, Illinois 60179

Gentlemen:

In connection with the plans submitted by your engineers, Warner Engineering, for the site and utility plans for Exchange Street Townhouses, this is to advise that under the Environmental Protection Act this Agency must issue or deny approval for projects within 90 days of their submission.

Since this 90-day period has nearly expired, and since the information requested in our review letter of April 8, 1988 and follow-up discussion about the project has not been received, it is necessary for us to deny approval of the proposed project at this time.

Upon submission of the data requested, the project can be reopened. In future correspondence concerning this project, please refer to Log No. 88-1137.

Donald E. Sutton
Donald E. Sutton, P.E.
Manager, Permit Section
Division of Public Water Supplies

DES:JSK:jms/1279j,116

cc: Warner Engineering
Rockford Regional Office

PCB 90-187

Conf. Encl.



217/782-1724

Re: Sycamore (DeKalb County -- 0370550) -- Water -- Review of Plans

April 8, 1988

Warner Engineering
151 North Fourth Street
DeKalb, Illinois 60115

Gentlemen:

This office has reviewed the plan data for the construction of a 6 inch diameter ductile iron watermain to serve customers expected to occupy Exchange Street townhouses in the City of Sycamore, Illinois, and we wish to rate the following comments:

1. Section 10.4 of the Application For Construction Permit cites Donald J. Kohler, one of the beneficiaries of Trust Number 1320 as the owner of the completed project. Please be advised that if this organization wishes to retain ownership of the proposed 6 inch watermain, that they would become a public water supply under existing Agency rules and regulations.

Being a public water supply would, at a minimum, require the following:

- a. Employ a Class "D" certified public water supply operator.
- b. Submit water samples to this Agency's laboratory on a monthly basis.
- c. Maintain monthly records of chlorine residual levels and other operational data.

The situation of the proposed Exchange Street townhouses being a public water supply may be avoided if the necessary easements could be granted with ownership of the proposed 6 inch watermain being turned over to the City of Sycamore. If this is to be the case, a revised page 3 of the Application For Construction Permit must be submitted citing the City of Sycamore as the owner of the completed project.

Another acceptable alternate would be for Donald J. Kohler, one of the beneficiaries of the above trust to retain ownership of the proposed watermain, and enter into an agreement with the City of Sycamore where the official representatives of the City would supervise operation, maintenance and repair of the proposed watermain. Any cost incurred would be borne by the terms of an agreement accepted and signed by the respective officials.



Page 2

2. Provide a profile of the proposed 8 inch diameter water main passing under temporary storm water detention basin. How temporary is this basin? Note that a minimum cover of two feet shall be provided over the proposed water pipe and the water pipe shall be of special construction, having flexible watertight joints.

Upon receipt of the information requested, further consideration will be given towards approval of this project. In all future correspondence concerning this project, please refer to Log No. 88-1137.

Sincerely,

Jayant S. Kadakia

Jayant S. Kadakia
Environmental Protection Engineer
Permit Section
Division of Public Water Supplies

JSK:mls/1012j/68-69

cc: Rockford Regional Office

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

88-1137

Subject: Sycamore - Ditch Co

Date: _____

Reviewed by: gok

Date: 4/4/88

WATER MAIN EXTENSION REVIEW FORM

ENGR:

PLANS:

TITLE:

SOURCE:

ISSUE APPROVAL TO:

TYPE OF MAIN:

JOINTS:

PIPES SIZE & LENGTH:

D.I. Class 53
P.O. or slt.

6" ϕ - 265' lineal

DEPTH OF BURY: (MINIMUM COVER) 5.5 feet

VALVE POSITION:

HYDRANT POSITION:

ROCK FILL:

DEAD ENDS:

SEPARATION:

OK

DISINFECTION:

CHEMICAL: Cl₂

CONCEN: (INITIAL) 50 PPM

TIME: 24 HOURS

SAMPLES: 2 consec. days

CONCEN: (FINAL) 25 PPM

SERVICES: PWS approved Specs on file.
9L. Std. Specn (1986 Ed.)

IL 532-0130

PWS 22 10/78 JM

DPWS CROPA Check List

Yes No N/A

___ X DLPC - (CROPA not required ___)
Water Mains - Are there water mains located in or around areas adjacent to a landfill where leachate could affect the safety of the supply?

___ X DMPC - (CROPA not required ___)
Water Mains - Have Corps of Engineer permits been obtained for all stream crossings?

91000000227

CITY OF SYCAMORE

KENNETH MUNDY

CHARLES L. FIERZ

GEORGINA YEAGER

ROBERT W. HUBER

JOHN E. LINVILLE

JOHN E. BRADY, PE

April 15, 1988

Illinois Environmental Protection Agency
Division of Public Water Supplies
2200 Churchill Road
Springfield, IL 62706

Attention: Jayant Kadakia

Re: Log No. 88-1137
Exchange Street Townhouses
Sycamore, Illinois

Dear Mr. Kadakia:

Enclosed, please find two (2) copies of sheet 3 of the permit application for the above referenced project which has been revised to provide for the City of Sycamore to supervise the operation, maintenance and repair of the watermain for this project with all costs of maintenance to be by the owner.

If you have any questions, please let me know.

Yours truly,

John E. Brady

John E. Brady,
City Engineer

JEB:gb

Enclosures: 2

RECEIVED

IN A PUBLIC OFFICE
ENVIRONMENTAL PROTECTION AGENCY
APR 15 1988



Life Offers More In Sycamore



0000 0762



217/782-1724

CERTIFIED MAIL

Re: Sycamore (DeKalb County - 0370650) -- Public Water Supply -- Permit Denial

May 4, 1988

Mayor and Council
535 DeKalb Avenue
Sycamore, Illinois 60178

Gentlemen:

In connection with the plans submitted by your engineers, Warner Engineering, for the site and utility plans for Exchange Street Townhouses, this is to advise that under the Environmental Protection Act this Agency must issue or deny approval for projects within 90 days of their submission.

Since this 90-day period has nearly expired, and since the information requested in our review letter of April 8, 1988 and follow-up discussion about the project has not been received, it is necessary for us to deny approval of the proposed project at this time.

Upon submission of the data requested, the project can be reopened. In future correspondence concerning this project, please refer to Log No. 88-1137.

Donald E. Sutton

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Public Water Supplies

PES:JSK:jas/1279j,116

cc: Warner Engineering
Rockford Regional Office

FOR IEPA USE:

LOG NUMBER

PERMIT NUMBER

DATE RECEIVED BY IEPA

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
PERMIT SECTION
SPRINGFIELD, ILLINOIS 62706

APPLICATION FOR CONSTRUCTION PERMIT

1. Name of Public Water Supply City of Sycamore, IL
2. Municipality or Township Sycamore County De Kalb
3. Location of Project ENE side of Sycamore and on Exchange St
4. Title of Plans Site and Utility Plan, Exchange St
Townships, Sycamore, IL No. of Plan Sheets -1-

5. Documents being submitted:

Construction Permit Application x
Schedule A (Cost Estimate) x
Schedule B (Water Main Construction) x
Schedule C-I (Well Drilling Only)
Schedule C-II (Well Completion)

Plans
Specifications Costs
Standards

6. Scope of Project The construction of 245 L.F. of D.I. 4
53 Water Main with "push-on" joints to serve 4 multiple
unit bldgs (220 apts total) complete with valves, hydrant & appurtenant
construction

7. ILLINOIS COMMERCE COMMISSION CERTIFICATION (For privately owned water companies)

N/A

- 7.1. Has application been made to the Illinois Commerce Commission for a Certificate of Public Convenience and Necessity? Yes No

- 7.2. Docket Number of Certificate of Public Convenience and Necessity (if applicable):

8. New Public Water Supplies: Where the developer intends to relinquish ownership of a new public water supply to the homeowners served by that public water supply, he must submit to the Agency a copy of the Protective Covenants for effecting the transfer. Those covenants should accompany this application.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 103B. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Farm Management Center.

APPLICATION FOR CONSTRUCTION PERMIT

9.0. Infringement on Existing Public Water Supplies:

9.1. Will any part of this project be located within the boundaries of an area served by another public water supply? Yes ☒ No9.2. If yes, name of that water supply N/A9.3. Describe that portion of the project within the boundaries of the other public water supply N/A

10.0. CERTIFICATION

10.1. Certificate by Design Engineer

I hereby certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate.

ENGINEER William H. Malin
NameRegistration Number 21182FIRM Warner Engineering PHONE NUMBER (815) 756-2189ADDRESS 151 N. Fourth St., DeKalb, IL, 60115SIGNATURE William H. Malin DATE 2/5/88

10.2. Certificate by Applicant(s)

I/We hereby certify that: I/we have read and thoroughly understand the conditions and requirements of this submittal. I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit. All such conditions shall be as authorized by the Environmental Protection Act and the Rules adopted by the Pollution Control Board under authority granted by the Act.

NAME OF APPLICANT FOR PERMIT TO CONSTRUCT Ronald J. KohlerMotel Rd., BARRIA
StreetSycamore
CityIL
State60178
Zip CodeSIGNATURE Ronald J. KohlerDATE 2/5/88TITLE Beneficiary of Trust No. 1320, The DeKalb Bank, DeKalb, IL

10.3 Agreement to Furnish Water (This section must be completed if applicable)

The CITY OF SYCAMORE

(City, Town, Village, Water Company or Water Authority)

has agreed to furnish water to the area in which the water main extension

are proposed by DON KOHLER
(Developer)according to the plans titled "EXCHANGE STREET TOWNHOUSES"prepared by WARNER ENGINEERING
(Engineering Firm)

The undersigned acknowledges the public water supply's responsibility for examining the plans and specifications to determine that the proposed extensions meet local laws, regulations and ordinances. The City of Sycamore shall have the sole responsibility for the "Supervision" and "Operation" of all water main extensions upon completion of installation and in perpetuity.

Date: APRIL 13 1988By: Harold JohnsonSignature of Authorized Public
Water Supply Official

MAYOR

Title

10.4 Certificate by Owner(s) of Completed Project

I/We hereby certify that I/We have read and thoroughly understand the conditions and requirements of this submittal. I/We hereby agree to accept ownership of the project upon satisfactory completion, subject to the City of Sycamore having sole responsibility for "Supervision" and "Operation" of all water main extensions upon completion of installation in perpetuity. Actual maintenance costs shall be borne by Owner.

NAME OF OWNER OF COMPLETED PROJECT: DON KOHLERMOTEL ROAD,SYCAMORE,ILLINOIS60178

Street

City

State

Zip Code

SIGNATURE: Donald KohlerDATE: APRIL 13, 1988TITLE: Partner

10.5 AUTHORITY TO SIGN APPLICATION

10.5.1 Applications not signed by a person other than a responsible municipal official, corporation officer, or owner, must be accompanied by evidence of authority to sign the application, unless documentation of such authority is on file with the Division of Public Water Supplies.

10.5.2 Evidence of authority to sign the application on file with this Division:

X Yes

No

LOG NUMBER _____

DATE RECEIVED BY IEPA _____

PERMIT NUMBER _____

ILLINOIS EPA - DIVISION OF PUBLIC WATER SUPPLIES - PERMIT SECTION
SCHEDULE A
ENGINEER'S COST ESTIMATE

Requests by various agencies and State and Federal representatives for information on the cost of water works improvements have been numerous. Therefore, we feel there is a need for obtaining and compiling this information. We would appreciate your cooperation by supplying us with this data with each set of plans and specifications. Please submit the cost data with each of your projects sent in for approval.

1. Name of Public Water Supply City of Syracuse, IL
2. Name of Project Site and Utility Plan, Exchange St. Trenches, Syc, IL

3. SOURCE

- a. Stream intake, impoundment. \$ _____
- b. Well (wells). \$ _____
- c. Others. \$ _____

Total \$ -----4. TREATMENT

- a. Aeration facilities and detention basins. \$ _____
- b. High service pumps. \$ _____
- c. Filtration and/or ion exchange softening. \$ _____
- d. Mixing and settling basins and/or flocculation equipment. \$ _____
- e. Chlorination and fluoridation equipment. \$ _____
- f. Recarbonation, chemical feeders, chemical handling equipment. \$ _____
- g. Lab. buildings and miscellaneous. \$ _____

Total \$ -----5. WASTE DISPOSAL FACILITIES

- a. Pumps and piping. \$ _____
- b. Holding structures. \$ _____
- c. Treatment unit. \$ _____
- d. Other. \$ _____

Total \$ -----6. STORAGE

- a. Ground level tanks. \$ _____
- b. Elevated tank (tanks). \$ _____
- c. Pressure tanks. \$ _____

Total \$ -----7. DISTRIBUTION SYSTEM

- a. Feeder mains, booster pumps and stations. \$ -----
- b. Water main extensions. \$ 11,000
- c. Complete distribution. \$ -----

Total \$ 11,0008. TOTAL PROJECT COST\$ 11,000

This Agency is authorized to request this information under Illinois Revised

FEB 08 1989 0370550

FOR IEPA USE:

LOG NUMBER _____ PERMIT NUMBER _____ DATE RECEIVED BY IEPA _____

This Agency is authorized to require this information under Section 106 of the Federal Water Pollution Control Act (FWPCA), Chapter 851, Section 409. Failure to do so may subject the form to being presented and could result in your equipment being damaged. This form has been approved by the Federal Management Council.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
PERMIT SECTION
SPRINGFIELD, ILLINOIS 62766

SCHEDULE B
WATER MAIN CONSTRUCTION

1. Name of Public Water Supply City of Sycamore
2. Name of Project Site and Utility Plan, Exchange St. Tomahawk, Syc., IL.
3. Water Main will be constructed in accordance with: (Check One)
- a. Standard Specifications for Water and Sewer Main Construction in Illinois (1988 Edition) X
- b. Engineer's Approved Specifications on file with this Agency _____
- c. Public Water Supply's Approved Specifications on file with this Agency X
- d. Specifications submitted with the plan documents _____
4. Existing population served by present supply 14,000
5. Population to be served by water main extension 60
6. Average daily pumpage from water works (annual basis) 1.4 gal
7. Maximum day pumpage from water works 2.0 gal
8. Capacity of water works 6.0 mgd
9. Capacity of raw water source --- mgd
10. Capacity of existing line(s) at point(s) of connection(s) 0.5 mgd
11. Capacity of proposed water main extension or system 0.0 mgd
12. Normal expected operating pressure on proposed water main extension 50 psi
13. Minimum expected operating pressure on proposed water main extension 40 psi
14. Pressure at point of connection at present maximum demand 30 psi
15. Calculated pressure at point of connection under maximum demand conditions after installation of water main 25 psi

FEB 08 1969 0370540

TRUSTEE'S DISCLOSURE OF INTERESTS

February 3, 1988

TO WHOM IT MAY CONCERN:

The undersigned, MARILYN KNUTSON, as Trust Officer of The DeKalb Bank, states The DeKalb Bank, Trustee under a Trust Agreement dated December 30, 1986, and known as Trust Number 1320, is the owner of the legal and equitable title of the premises described therein.

The undersigned has been directed, in accordance with the Trust Agreement, to certify that, as of this date, the names of its present beneficiaries are as follows:

INTEREST	NAME	ADDRESS
10%	Zlata E. Balon	1301 Azalea DeKalb, Illinois 60115
20%	Victor F. Barres	615 Linden Place DeKalb, Illinois 60115
20%	Barbara K. Brandon	1306 Gifford DeKalb, Illinois 60115
20%	Timothy J. Dunlop	150 W. Locust DeKalb, Illinois 60115
20%	Donald J. Kohler	Motel Rd., Box 21A Sycamore, Illinois 60178

Respectfully submitted,

THE DEKALB BANK

By Marilyn Knutson
MARILYN KNUTSON, Trust Officer

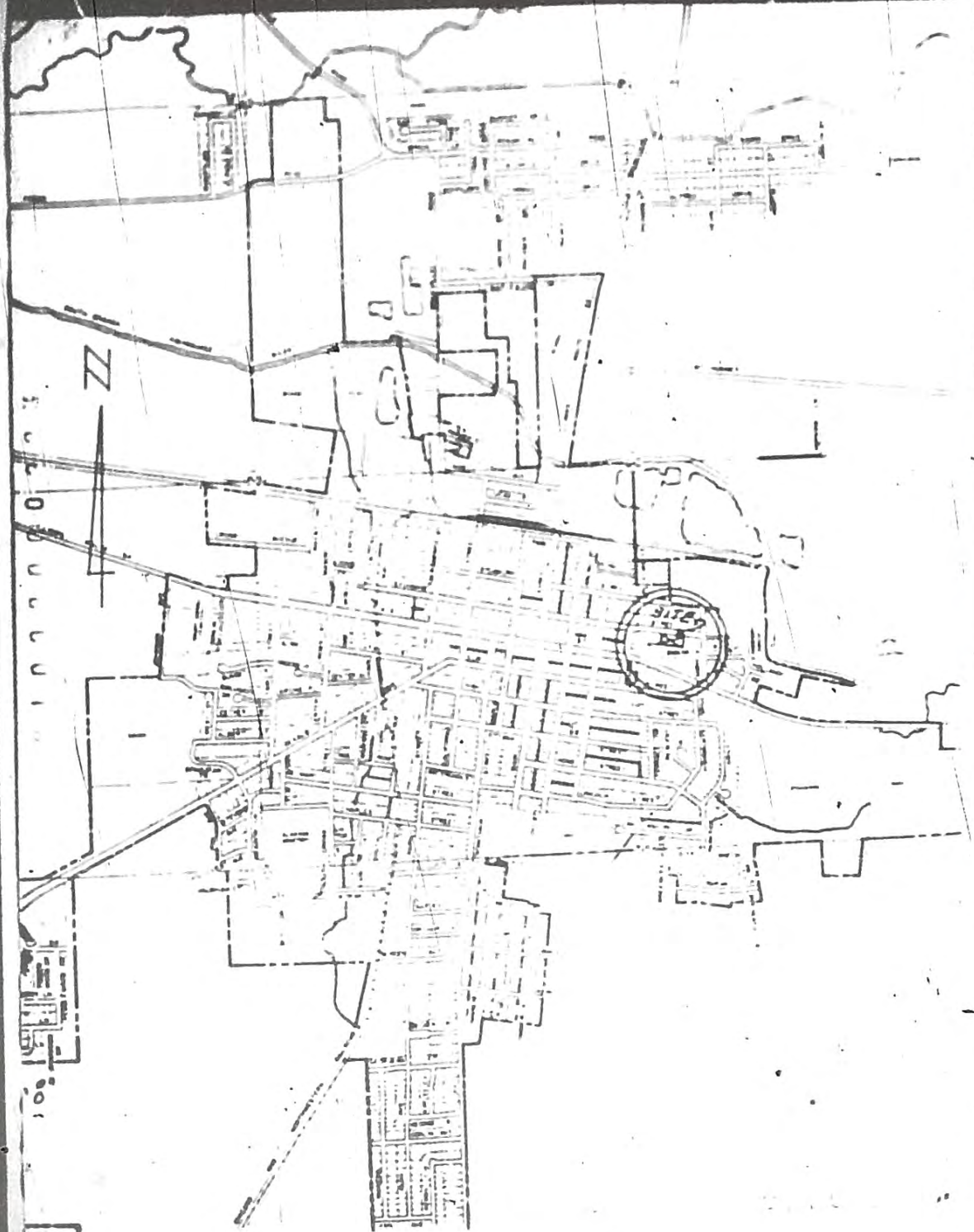
STATE OF ILLINOIS)
COUNTY OF DE KALB) SS

I, the undersigned, a Notary Public in and for said County in the State aforesaid, DO HEREBY CERTIFY that MARILYN KNUTSON, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed and delivered the said instrument as her free and voluntary act for the uses and purposes therein set forth.

Given under my hand and seal this 3rd day of February, 1988.

Max Thompson
Notary Public

FEB 3 1988



Results of Total chlorine residual tests as referred
to in Section 7 of formal Complaint form.

Date	Time	Reading
11-22	8:40	.015
11-23	9:25	.03
11-24	8:45	.015
11-25	11:00	.0
11-26	3:30	.03
11-27	5:15	.02
11-28	9:00	.015
11-29	11:45	.0
11-30	8:00	.015
12-4	9:20	.0
12-5	9:00	.0
12-6	8:00	.0
12-7	7:30	.0
12-8	9:15	.0
12-9	10:00	.03
12-10	3:15	.03
12-11	12:00	.015
12-12	9:45	.0
12-13	11:30	.0
12-14	8:00	.0
12-15	9:00	.0
12-16	8:30	.0
12-17	3:30	.0
12-18	8:00	.0
12-19	8:00	.015
12-20	1:15	.0
12-27	1:30	.0

PC 90-187
EXHIBIT

Date	Time	Reading
1-3-90	7:30	.4
1-4	8:00	.0
1-13	8:00	.0
1-22	8:30	.4

Readings taken at 480 Exchange St Sycamore

11-28 -89	1:30	.0
11-29	4:30	.0
12-9	9:00	.3
12-10	9:00	.3

Reading taken at 486 Exchange St Sycamore

11-28	1:45	.0
-------	------	----

Results of chlorine readings

Date	Address	Time	Reading
Oct. 24, 1990	462 E. Exchange	8:15 A.M.	.0
25	"	11:50	.0
26	"	9:00	.0
28	"	11:00	.0
29	"	7:45	.2
Nov. 1	"	9:00	.0
3	"	11:30	.0
5	"	10:00	.0
11	"	3:30 P.M.	.0
13	"	11:00	.0
13	465 E. Exchange	11:30	.0
13	433 E. Exchange	11:15	.0
18	462 E. Exchange	11:30	.0
19	433 E. Exchange	10:00	.3
19	370 Parkside Dr.	10:15	.0
19	462 E. Exchange	9:45	.0
20	"	10:20	.0
24	"	2:00 P.M.	.0
26	"	10:00	.0
28	"	9:15	.0
Dec. 1	"	9:15	.0
2	"	12:00 P.M.	.1
4	"	11:15	.0

EXHIBIT

PC 350-187

Additional Chlorine Readings

Date	Address	Time	Reading
Dec. 7, 1990	462 E. Exchange	11:50A.M.	.0
9	"	8:00	.2
11	"	7:30	.0
12	"	7:30	.0
13	"	11:00	.0
24	"	1:30 P.M.	.2
27	"	11:50	.1
30	"	11:00	.3

Results of Chlorine tests taken at 462 E. Exchange Sycamore, Ill.

Date:	Time:	Results:
4-7-92	8:30 A.M.	.02
4-8-92	9:30 A.M.	.02
4-10-92	8:00 A.M.	.01
4-13-92	1:30 P.M.	.03
4-20-92	12:15 P.M.	.04
4-27-92	8:40 A.M.	.05
4-29-92	9:00 A.M.	.02
4-30-92	8:20 A.M.	.0
5-1-92	5:30 P.M.	.0
5-4-92	9:15 A.M.	.04
5-5-92	7:50 A.M.	.0
5-8-92	9:00 A.M.	.02
5-9-92	7:00 A.M.	.0
5-11-92	7:30 A.M.	.02
5-12-92	7:00 A.M.	.0
5-14-92	10:30 A.M.	.01
5-16-92	8:00 A.M.	.0
5-18-92	8:00 A.M.	.01
5-19-92	2:30 P.M.	.0
5-24-92	11:00 A.M.	.01
5-28-92	8:00 A.M.	.05
5-29 -92	4:00 P.M.	.0
5-30-92	7:00 A.M.	.0

EXHIBIT

PC 390-187



July 20, 1990

Facility No. 037-0550
Sycamore -- DeKalb County

Mayor and Council
City Hall
535 DeKalb Avenue
Sycamore, Illinois 60178

Gentlemen:

During November 1989 this office recieved a copy of the enclosed petition. The petition was circulated during the period July 7th. to July 13th. 1989, to residents in the Northeast area of Sycamore by Mr. Prescott who resides at 462 East Exchange street. The petition requested relief from the frequent problems the residents experienced with the community water supply (odor, rust which ruined many clothes, black colored water, sediment, etc.).

These complaints indicate that the water provided the northeast area of Sycamore was in violation of the Illinois Pollution Control Board's rules and regulations. Title 35, Subtitle F, Chapter 1, Section 601.101 states that owners and official custodians of a public water supply shall provide continuous operation and maintenance of public water supply facilities so that the water shall be assuredly safe in quantity, clean, adequate in quantity and of satisfactory mineral quality for ordinary domestic use.

The odor (smell of rotten eggs) mentioned by the petition is caused by hydrogen sulfide dissolved in the water. The black sediment is iron sulfide which results when hydrogen sulfide reacts with dissolved iron in the water.

Hydrogen sulfide is oxidized by chlorine, therefore, hydrogen sulfide is not present in the chlorinated water discharged from the distribution system from the Sycamore wells. The hydrogen sulfide is formed when nuisance bacteria grow in the distribution system and reduce the sulfates in the water sulfides.

Chlorine also prevents the growth of sulfate reducing bacteria, therefore, odor and black water problems occur only in the distribution system where the chlorine injected at the wells has been used up by oxidizing the iron which the corrosive well water dissolves from the unlined cast iron water mains. In Sycamore problems of rotten egg odor and black water are probably further restricted to areas which receive water from Well #1 because this is the only active well where the raw water contains an appreciable amount of dissolved sulfates.

- ☐ Sign Here
☐ Initial Here
☐ Notarize Here
☐ Return

Post-it signature required per 7009

Conf. Ext. #
PCB 90-187

July 20, 1990

The rust which the petition reports as being a problem is oxidized iron which is corroded from the walls of the cast iron mains and present in the raw water from the wells. It would be expected that residents in the Northeast area of Sycamore, which is adjacent to Well #1, would experience more severe rust problems than residents in some other parts of town. This is because Well #1 is the only active well where the raw water contains an excessive amount of dissolved iron.

The water quality problems are undoubtedly also more severe at Mr. Prescott's residence (462 East Exchange Street) because his service line is tapped into an unlined, cast iron dead end main. The water does not circulate in a dead end main and therefore, if the dead end is not lined or constructed of corrosion resistant material, the dissolved iron buildup and loss of chlorine residual with resultant growth of nuisance bacteria occurs more quickly.

A meeting was held December 7, 1989 at the Sycamore Water Department Office to review the above problems and outline a program to improve the water quality in the Northeast area of town. In attendance were, Mr. Albrecht, Water Superintendent, Mr. Johnson, Mayor, Council Members and this writer.

During this meeting I recommended that, 1) Well #1, because of the dissolved sulfates and high dissolved iron, not be pumped to the system, except during emergencies. 2) Injection of phosphate to reduce corrosion be continued. 3) the entire distribution system be flushed thoroughly each spring and fall and 4) that chlorine residuals in the Northeast area of Sycamore be monitored and when no or low residuals were found a hydrant be opened and run slowly to bring water with residual chlorine in from the wells.

Your operating records show that Well #1 is being used only sparingly, phosphate is being injected and we observed that some hydrants were flushed in March 1990. However, Mr. Albrecht reports that he is no longer opening hydrants in areas where the chlorine residual is low or absent. Apparently water from the flowing hydrants creates a problem of standing water where it discharges from the storm sewer which serves the Northeast Area of town. In addition Mr. Albrecht reports that several of the old hydrants in the Northeast Area failed after being opened and closed several times and have not been repaired.

During May and June 1990, this Agency measured the chlorine residuals at several locations in the Northeast Area of Sycamore. The results which are tabulated below show that there are still sections of the water main where there is no or low chlorine residual. Title 35, Section F, Chapter 11, Section 653.604 states that a minimum combined chlorine residual of 0.5 mg./l. shall be maintained in the distribution system.

Chlorine residual measurements

mg./l.

Location	5/8/90	5/23/90	5/31/90	6/6/90	6/14/90	6/26/90
Hyd. Walnut @ Exchange	0.6 Cl.					
Hyd. State @ Sabin	0.0 Cl.					
Hyd. Elm @ Kishwaukee	0.0 Cl.					
Hyd. Sabin @ Sycamore	0.5 Cl.					
Hyd. Walnut @ Sycamore	1.0 Cl.					
Hyd. Walnut @ State	0.7 Cl.					
Hyd. 465 Exchange	0.6 Cl.					
Ser. @ 485 Exchange	0.0 Cl.	0.1 Cl.	Tr. Cl.	0.3 Cl.	0.4 Cl.	
Ser. @ 481 Exchange			0.1 Cl.			
Ser. @ 471 Exchange					0.0 Cl.	
Ser. @ 465 Exchange	0.3 Cl.	0.4 Cl.				0.2 Cl.
Ser. @ 462 Exchange	0.1 Cl.	0.2 Cl.	0.0 Cl.	0.1 Cl.	0.0 Cl.	
Ser. @ 433 Exchange				0.4 Cl.		
Ser. @ 429 Exchange	0.6 Cl.	0.5 Cl.	0.3 Cl.	0.2 Cl.	0.6 Cl.	

Almost all of the water obtained from wells in Northern Illinois tends to be corrosive and therefore, communities which use wells and where the distribution system consists of unlined cast iron mains usually find that to provide clean water to the residents they must follow a program which includes:

a) supplying as much water as possible from the wells with the best raw water quality or providing treatment at the wells to remove hydrogen sulfide, iron, manganese, etc.

July 17, 1990

b) flushing every hydrant thoroughly each spring and fall to remove iron sediment from the mains.

c) regularly checking chlorine residuals and opening and flowing hydrants in areas where chlorine residuals are found to be low. (Where an excessive amount of water must be wasted to maintain adequate chlorine residuals, that section of main should be replaced with corrosion resistant pipe.

We therefore will expect that, 1) the drainage for the storm sewer which serves the Northeast part of Sycamore will be improved, 2) the broken hydrants on Exchange and Main streets will be repaired and 3) hydrants will be flowed as necessary to maintain a 0.5 mg./l. chlorine residual in the system or as an alternative, mains in areas of low or no chlorine residual will be replaced with corrosion resistant material.

Since it appears that an excessive amount of water may need to be wasted to maintain a chlorine residual in the unlined dead end main serving Mr. Prescott's residence, this dead end main should be replaced with corrosion resistant material or the services to the condominium complex should be retapped into the looped main which runs along the North side of Exchange street.

We also recommend that the City pass an ordinance requiring that all future mains either be looped, cement lined, or constructed of corrosion resistant material.

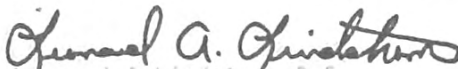
We would further expect that the entire Sycamore distribution system would be flushed thoroughly each spring and fall and that Well #1 would be used as little as possible.

A summary of the chemical analysis and production data, available in our Rockford office for the Sycamore Community Water Supply, is enclosed.

If you have questions regarding the above please do not hesitate to contact our office in Rockford or Elgin, phone 815-987-7760 or 708-741-7771.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY



Leonard A. Lindstrom P.E.
Regional Manager
Division of Public Water Supplies

lal/LAL

cc: Sycamore City Clerk
Certified Operator, Mr. Albrecht
Council Members,
Mr. Herman Prescott
Springfield

SUMMARY OF RESPONSE AND COMPLAINTS

RESPONSE

COMPLAINTS

Street	Acceptable	Not Acceptable	Low Pressure	Taste	Odor	Rusty, Discolored, Stains	Particles, Sediment	High Chlorine
East Exchange	4	15	3	5	8	8	4	0
Vista Terrace	3	8	0	0	3	4	2	3
North Sabin	2	7	1	4	7	8	3	1
East Sycamore	2	6	0	0	3	3	1	1
Home	1	4	1	0	1	4	1	0
North Walnut	1	2	0	1	1	2	0	0
Pleasant	2	1	0	0	0	1	0	2
Plymouth Court	2	0	0	0	0	2	0	0
East Lincoln	0	1	0	0	1	0	0	0
Kingsway Drive	1	0	0	0	0	0	0	0
TOTAL	18	44	5	10	24	32	11	7
% of Respondents	29%	71%	8%	16%	39%	52%	18%	11%

Co-A ECH 8A
PCB 90-57



DIVISION OF PUBLIC WATER SUPPLIES

(217)785-0561

November 2, 1990

TO: WATER USERS IN THE NORTHEAST AREA OF SYCAMORE
FACILITY NUMBER 0370550

During 1989 we received a copy of a petition to the City Council from residents of the Northeast Area of Sycamore requesting that the quality of the water provided by the city be improved.

The city has since taken some steps to improve the water quality in this area.

In order for us to determine the current water quality in the area we ask that you check the appropriate box below. We would also appreciate receiving any additional comments you may have concerning this matter.

Please return the lower portion of this letter along with your comments to:

Division of Public Water Supplies -- #13
Illinois Environmental Protection Agency
Post Office Box 19276
Springfield, Illinois 62794-9276

Sincerely,

Charles R. Bell Jr., P.E.
Manager, Field Operations Section
Division of Public Water Supplies

☒

The Water Quality is NOT acceptable.

☐

The Water Quality IS acceptable.

Signed _____ Date Nov 6, 1990Address _____ SYCAMORE IL 6017Comments: RUSTY WATER IS STILL A PROBLEMSmelly water is still a problem.THE ONLY VISIBLE ACTION THAT HASbeen TAKEN IS THE "FLUSHING" OFTHE FIRE Hydrants.

JOB NUMBERS

Date and Time in Laboratory

RCVD 11:00 AM
5/12/09 JAM

SYD ALBRECHT

535 DE KALB AVE

City Office: SYCAMORE State: IL Zip Code: 60174

COLLECTOR: Fill in boxed area only. Type or press firmly with ball point pen. See reverse side for explanations and instructions.

Public Water Supply Name

SYCAMORE

Facility Number
037 0550

2 Date Collected

5-12-89

3. Sample Collector

F. Smith

4. Sample Purpose

☐ Routine

☐ New Construction - Permit Req.

☐ **Resample**

☐ Other Land Clearing

5. Contact person for unsatisfactory samples

Figure 1

Phone Number

340 АСОРЕНЧУГ

98-995-2548

Bacteriological Samples (Glass Bottles)

S Notification for Unsatisfactory Results:

Notified:

Date: _____

Time

DATE & TIME RAN 5/12/89 2:30 PM

LAB TECH. Erin Meyer

REGISTRY NO.

17542

- Bottles Sent

De la

JOB NUMBERS

WATER ANALYSIS REPORT FORM

Date and Time in Laboratory

Samples must reach lab within 30 hours after collection.

RCVD 11:00AM
5/10/89 OJTV

1. Mail Report to

SYD ACRACHT

Address 635 DEKALB AVE

Post Office SYCAMORE State IL Zip Code 60195

COLLECTOR: Fill in boxed area only. Type or press firmly with ball point pen. See reverse side for explanations and instructions.

Public Water Supply Name:

5th floor

Facility Number
032 0550

2. Date Collected

510-19

3 Sample Collector

F. 50154

4 Sample Purpose

☐ Routine ☐ New Construction - Permit No. _____
☐ Resample ☐ Other Water Seal

FV10

5 Contact person for unsatisfactory samples

Name SYD ALBRECHT Phone Number CK-495-2548

6. Bacteriological Samples (Glass Bottles)

[illegible]

DPWS Notification for Unsatisfactory Results:

Person Notified:

Date _____

Time

DATE & TIME RAN

LAB TECH

REGISTRY NO

- Bottle Sent

Date: _____

JOB NUMBERS

WATER ANALYSIS REPORT FORM

Date and Time in Laboratory

Samples must reach lab within 30 hours after collection.

RCVD 11:00 AM

5/10/09 Jan

1. Mail Report to

Name: SYD ALBRACHT

Address
535 DEKALB AVE

Post Office	State	Zip Code
SYCAMORE	IL	60178

COLLECTOR: Fill in boxed area only. Type or press firmly with ball point pen. See reverse side for explanations and instructions.

Public Water Supply Name

Знаю

Facility Number
032 0550

2. Date Collected

5-10-84

3. Sample Collector *E. Smith*

4 Sample Purpose

☐ Routine ☐ New Construction - Permit No. _____ FY19
☐ Resample ☐ Other Rel. Co. Sub. 2nd yr.

5. Contact person for unsatisfactory samples

Name S. D. ALBRECHT Phone Number 817-485-2511

6. Bacteriological Samples (Glass Bottles)

[illegible]

DPWS Notification for Unsatisfactory Results:

Person Notified: _____ Date: _____ Time: _____

DATE & TIME RAN _____

LAB TECH

REGISTRY NO.

Bottles Sent

Date: _____

CHLORPINE RESIDUALS AT 433 E. EXCHANGE

TOTAL

6-20-89	.6
7-18-89	.3
8-15-89	.3
9-19-89	.5
10-17-89	.6
11-14-89	.8
12-19-89	.5
1-16-90	.7
2-13-90	.8
3-20-90	1.1
4-17-90	.8
5-15-90	1.0
6-19-90	.3
7-17-90	.7
8-14-90	.9
9-18-90	1.6

10-7-90
REJOINT

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

County/Supply DeKalb / Sycauan Interviewed _____ Date 2-21-90

Address _____ Phone _____

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

Changes Complaint of low and no chlorine residual in the past.

The following checked items were discussed during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices.

#	X	ITEM	#	X	ITEM	#	X	ITEM
1		WELL OR SOURCE	9		SEDIMENTATION	17		RECORD KEEPING
2		CHLORINATION	10		FILTRATION	18		TESTING
3		FLUORIDATION	11		WASTE DISCHARGE (NPDES)	19		OPERATIONAL REPORTING
4		METERING	12		STORAGE	20		BACTERIOLOGICAL QUALITY
5		SOFTENING	13		DISTRIBUTION	21		MINERAL QUALITY
6		AERATION	14		OWNERSHIP	22		ADEQUACY
7		REACTION BASIN	15		FINANCIAL	23		
8		FLOCCULATION	16		OPERATOR CERTIFICATION	24		

ITEM	REMARKS AND RECOMMENDATION FOR CORRECTIONS	CORRECTED BY:
	A visit was made to the Sycauan water supply to check the chlorine residual at the Prescott Residence on East Exchange street due to complaint of low or non-existent chlorine residual in their distribution system area. A total chlorine residual of 0.2 ppm & a free chlorine residual of 0.2 ppm was found.	

Free Chlorine Residual 0.2 mg/l. Location of Test E. Exchange St. B. Sample Collected 0

Agency Person Amely Davis FY 19 _____ P/W _____

Report Received By _____ Class/Cert. # _____ F/U _____

cc. Mr & Mrs Prescott
dtd almost
enriched

PC 90-87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
 Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

County/Supply DeKalb / Lapeer Interviewed _____ Date 2-21-90

Address _____ Phone _____

Addendum to Public Water Supply Data Sheet Dated _____ FY 89

Changes Complaint of low and no chlorine residual

in the past.

The following checked items were discussed during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices.

#	X	ITEM	#	X	ITEM	#	X	ITEM
1		WELL OR SOURCE	9		SEDIMENTATION	17		RECORD KEEPING
2		CHLORINATION	10		FILTRATION	18		TESTING
3		FLOUORINATION	11		WASTE DISCHARGE (NPDES)	19		OPERATIONAL REPORTING
4		METERING	12		STORAGE	20		BACTERIOLOGICAL QUALITY
5		SOFTENING	13		DISTRIBUTION	21		MINERAL QUALITY
6		AERATION	14		OWNERSHIP	22		ADEQUACY
7		REACTION BASIN	15		FINANCIAL	23		
8		FLOCCULATION	16		OPERATOR CERTIFICATION	24		

ITEM	REMARKS AND RECOMMENDATION FOR CORRECTIONS	CORRECTED BY
	A visit was made to the Lapeer water supply to check the chlorine residual at the Prescott Residence on East Exchange Street due to complaint of low or non-existent chlorine residual in their distribution system area. A total chlorine residual of 0.2 ppm A free chlorine residual of 0.2 ppm was found.	

Free Chlorine Residual 0.2 mg/l. Location of Test E. Exchange St. Sample Collected 2

Agency Person Leslie Bonds FY 89 _____ FY _____

Report Received By _____ Class/Cert. # 1 F/U 2

cc: Mr. & Mrs. Prescott
 Dept. of Health
 East Chicago

CITY OF SYCAMORE

KENNETH MUNDY
CITY TREASURER

CHARLES L. FIERZ
CITY ATTORNEY

GEORGINA L. YEAGER
CITY CLERK

ROBERT W. HUBER

JOHN E. LINVILLE

JOHN E. BRADY, P.E.

February 3, 1989

Mr. Herman Prescott
462 East Exchange Street
Sycamore, Illinois 60178

Dear Mr. Prescott,

I would like to inform you that during your absence we have not forgotten about the water problem in your area in Sycamore.

As you know, before you left we took two samples of the water; one at 462 East Exchange Street and one at the corner of Sahlin Street and East Exchange Street. These samples were tested for sulfide, iron and manganese.

When I talked to the microbiologist, she recommended that we sample the water for sulfur reducing bacteria. These bacteria act on the sulfide deposits in the water main. A different lab had to be located for testing these samples.

The samples were taken January 3, 1989. When the first set of samples was taken, I called the I.E.P.A. Office in Rockford explaining the problem to Walter Purcell. He implied that if we did have sulfide reducing bacteria in the main the solution would be to flush the main hard, and to increase our chlorine residual so that it would reach the area in question.

In our conversation, I told him the results from the first samples. He thought them to be about the normal for Sycamore except for the sulfide analysis which he thought was low.

After this conversation, we started flushing at night, when possible, because we were assuming that sulfide-reducing bacteria were present. These tests take 21 days to complete. We received the results on January 30th confirming that there were sulfide reducing bacteria present. The bacteria act on the sulfide deposits which line the inside walls of the water main producing a hydrogen sulfide gas, causing the water to have the odor you have been experiencing.

(Continued to Page 2)

RESPONDENT'S
EXHIBIT

Life Offers More In Sycamore



February 3, 1989

Page 2

During your absence, Don Kshier has notified us when the water would have an odor and we would flush and run a well that would increase the chlorine residual in your area. Listed below are the days and nights we were trying to clear up this problem.

12/13/88	- Flush	5 Hrs.
12/16/88	- Flush	5 Hrs.
1/3/89	- Flush	4 Hrs.
1/5/89	- Flush	5 Hrs.
1/18/89	- Flush	4 1/2 Hrs.
1/31/89	- Flush	5 Hrs.
1/6/89	- Ran Well	3 Hrs.
1/11/89	- Ran Well	5 1/2 Hrs.
1/17/89	- Ran Well	4 Hrs.
1/18/89	- Ran Well	5 Hrs.
1/19/89	- Ran Well	3 1/2 Hrs.
1/20/89	- Ran Well	6 1/2 Hrs.
1/23/89	- Ran Well	2 Hrs.
1/31/89	- Ran Well	4 Hrs.

If you should have any questions, please feel free to call me.

Sincerely,

Syd Albrecht

Syd Albrecht, Water Supt.

(815) 895-2548

SA/gj

cc: Harold L. Johnson, Mayor
B. Philip Ramsey, Alderman
Chairman, Water Sewer Committee
Jeffrey Clapsaddle, Alderman

MTR. (1KGAL) GALLONS ELECT. READ DIFF. FL. WGT. # USED # ADD TOT. WGT. FL. TEST GAL. BL. GAL. USED GAL. ADD. TOT. GAL. CL. RES. PLY PHOS. GAL. USED GAL. ADD. TOT. GAL. PHOS. P. PHOS. D.

1	15174	186,000	268.56	3.13	68	3	0	68	1.02	16.00	3.50	16.00	1.9	13.81	1.19	15.83
2	15561	387,000	274.87	6.31	61	7	0	61	0.92	8.75	7.25	21.25	2.3	11.89	2.72	11.09
3	15847	286,000	279.61	4.74	56	5	74	130	1.08	24.25	5.75	30.00	1.2	8.88	2.21	9.88
4	16043	196,000	282.93	3.32	127	3	0	127	25.50	4.50	4.50	30.00	7.32	1.36	7.32	7.32
5	16624	581,000	292.11	9.78	117	10	0	117	18.75	11.25	11.25	30.00	3.27	4.25	41.73	15.00
6	17402	778,000	305.62	12.91	103	14	0	103	1.1	14.75	15.25	30.00	1.6	9.22	5.78	15.00
7	17682	280,000	310.32	4.70	98	5	0	98	0.97	24.00	6.00	21.00	1.6	12.79	2.21	12.79
8	17862	180,000	313.34	3.02	95	3	0	95	0.92	21.00	3.00	21.00	1.6	11.00	1.15	11.80
9	18128	266,000	317.97	4.63	90	5	0	90	1.1	16.00	5.00	16.00	1.4	9.39	2.21	9.39
10	18518	390,000	324.57	6.60	83	7	0	83	0.90	8.75	7.25	21.25	1.5	6.87	2.72	8.32
11	18703	185,000	327.71	3.14	80	3	0	80	26.75	3.25	26.75	28.75	12.64	1.36	13.64	13.64
12	19267	554,000	337.27	9.56	70	10	0	70	16.25	10.50	11.75	28.00	1.5	4.12	5.44	9.56
13	20014	743,000	349.83	12.56	56	14	0	56	0.99	14.00	14.00	16.00	1.5	12.62	2.21	12.62
14	20302	285,000	354.88	4.85	51	5	0	51	0.96	24.75	5.25	24.75	1.2	10.32	1.70	10.32
15	20550	246,000	358.88	4.20	46	5	0	46	1.1	20.00	4.75	20.00	1.5	10.32	1.70	10.32
16	20854	304,000	363.92	5.04	41	5	124	165	0.97	14.50	5.50	15.00	1.6	8.71	2.21	8.71
17	21062	208,000	367.47	3.55	162	3	0	162	0.96	26.50	3.00	26.50	1.4	7.18	1.53	7.18
18	21243	181,000	370.57	3.10	158	4	0	158	23.00	3.50	23.00	26.50	5.82	1.36	9.18	13.00
19	21746	543,000	379.76	9.19	149	9	0	149	12.75	10.25	15.75	28.50	10.32	4.09	10.32	10.32
20	22408	622,000	390.31	10.55	137	17	0	137	1.09	16.50	12.00	16.50	1.5	6.32	4.59	6.32
21	22530	222,000	394.07	3.76	133	4	0	133	1.06	12.50	4.00	14.00	1.4	4.89	1.53	10.20
22	22873	243,000	398.19	4.12	128	5	0	128	1.1	22.50	4.00	22.50	2.1	12.86	2.04	12.86
23	23115	242,000	402.29	4.10	124	4	0	124	1.1	17.75	4.75	17.75	1.7	11.43	1.53	11.43
24	23344	229,000	406.16	3.87	120	4	0	120	1.04	13.50	4.25	15.25	1.6	9.56	1.87	9.56
25	23556	212,000	409.77	3.61	117	3	0	117	24.50	4.25	24.50	24.50	13.20	1.70	13.20	13.20
26	24172	616,000	420.15	10.41	107	10	0	107	13.00	11.50	14.50	27.50	8.54	4.76	8.54	8.54
27	25101	929,000	435.44	15.26	93	14	0	93	1.1	10.75	16.75	9.25	2.4	1.06	7.48	11.94
28	25101	0	435.44	0.00	93	0	0	93	1.09	20.00	0.00	20.00	2.1	15.00	15.00	15.00
29	25303	202,000	438.98	3.54	90	3	0	90	0.97	16.25	3.75	16.25	1.7	13.10	1.70	13.10
30	25364	61,000	440.00	1.02	89	1	0	89	1.07	15.25	1.00	15.25	1.2	12.19	0.51	12.19
31	25364	0	440.00	0.00	89	0	0	89	15.25	0.00	0.00	15.25	12.79	12.79	12.79	12.79
									1.03							
Average																
Total	10,378,000		174.57		130		195						77.89			

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORIDATION AND 32% PHOSPHATE FOR IRON



I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 22439

100-90-107

WTR. (11 GAL.) GALLONS ELECT. READ DIFF. FL. WGT # USED # TOT. WGT. FL. TEST GAL. BL. GAL. USED GAL. ADD. TOT. GAL. CL. RES. FL. PHOS. GAL. USED GAL. ADD. TOT. GAL. PHOS. FL. PHOS. D.

1	4501	550,000	83.34	10.17	82	10	0	82	7.50	11.50	17.50	25.00	11.09	1.87	11.09
2	5034	583,000	94.17	10.83	70	12	30	100	0.99	12.50	12.50	12.50	1.7	9.22	9.22
3	5306	222,000	98.30	4.13	96	4	0	96	1.04	8.00	4.50	8.00	1.5	9.34	9.34
4	5553	249,000	102.94	4.64	92	4	0	92	0.99	3.5	4.50	21.5	1.3	7.86	7.86
5	5751	196,000	106.60	3.66	87	3	0	87	1.02	21.00	4.00	4.0	1.2	7.18	7.18
6	5988	237,040	111.06	4.46	84	3	0	84	0.97	19.75	5.25	19.75	1.0	6.33	6.33
7	6174	196,000	114.58	3.52	80	4	0	80	0.97	16.25	3.50	16.25	0.99	6.34	6.34
8	6707	533,000	124.56	8.98	69	11	0	69	4.00	12.25	14.00	18.00	4.00	1.19	4.80
9	7252	575,000	135.30	10.74	58	11	0	58	0.97	7.00	11.00	22.00	1.2	3.44	3.44
10	7500	218,000	139.41	4.11	54	4	106	160	0.93	18.00	5.00	18.00	1.3	2.76	0.63
11	7702	202,000	143.19	3.78	157	3	0	157	1.03	13.50	4.50	11.50	1.6	14.48	0.51
12	7922	270,000	147.20	4.01	153	4	0	153	1.0	21.00	4.00	21.00	1.5	13.81	0.83
13	8162	240,000	151.48	4.28	148	5	0	148	0.97	16.00	5.00	16.00	1.4	12.84	0.85
14	8384	202,000	154.89	3.41	144	4	0	144	12.25	3.75	6.50	18.75	12.43	0.51	12.45
15	8978	614,000	165.14	10.25	134	10	0	134	7.00	11.75	9.25	18.25	10.23	1.70	10.75
16	9673	685,000	176.70	11.56	122	12	0	122	0.99	14.75	28.50	30.00	10.23	2.04	5.72
17	9940	267,000	181.15	4.45	117	5	0	117	1.03	23.75	6.25	23.75	1.7	8.71	8.71
18	10159	219,000	184.87	3.67	113	4	0	113	1.02	18.00	4.75	19.00	1.7	7.86	7.86
19	10488	289,000	189.63	4.81	108	5	0	108	1.02	13.50	5.50	12.50	1.3	6.10	6.10
20	10587	239,000	193.66	4.03	105	3	0	105	1.08	4.50	21	30.00	1.5	0.85	5.65
21	10855	198,000	197.01	3.35	101	4	0	101	26.50	2.50	28.50	28.50	9.14	0.51	9.88
22	11479	594,000	206.95	9.94	89	12	0	89	15.00	11.50	15.00	15.00	13.10	1.70	12.10
23	12146	667,000	218.06	11.11	79	10	0	79	1.04	3.00	24.50	24.50	11.26	2.04	11.26
24	12406	260,000	222.49	4.34	77	2	0	77	0.97	22.50	5.00	22.50	2.1	10.53	0.68
25	12657	251,000	226.61	4.21	72	5	40	112	0.96	18.00	4.50	12.00	1.9	9.73	0.85
26	12927	270,000	231.14	4.53	106	6	0	106	0.97	24.25	5.75	24.25	2.4	13.13	1.87
27	13218	291,000	235.99	4.83	102	4	0	102	0.94	18.75	5.50	18.75	2.4	11.24	1.87
28	13366	148,000	238.51	2.52	99	3	0	99	18.50	2.54	13.50	30.00	10.07	1.19	10.07
29	14001	635,000	249.15	10.64	88	11	0	88	1.50	12.50	12.50	30.00	5.65	4.42	9.35
30	14780	719,000	261.97	12.82	75	13	0	75	1.1	15.25	14.75	15.25	1.3	9.29	9.29
31	14986	208,000	265.43	3.46	71	4	0	71	1.06	11.25	4.00	19.50	1.6	7.86	1.32
										1.00					
Average										1.00					
Total										197					

Average
Total

11,000,000 192.26

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 22439

MTR. (INGAL.) GALLONS ELECT. READ DIFF. FL. WGT. USED + ADD TOT. WGT. FL. TEST GAL. BL. GAL. USED GAL. ADD. TOT. GAL. CL. RES. P.L.T. P.S. GAL. USED GAL. ADD. TOT. GAL. P.S. P. P.S. D.

1	0	0	0	0.29	0	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
2	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
3	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
4	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
5	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
6	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
7	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
8	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
9	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
10	0	0	0	0.29	0.00	164	0	164	15.00	0.00	15.00	15.00	15.00	15.00
11	29	29,000	1.01	0.72	163	1	0	163	1.09	14.25	0.75	14.25	14.33	0.17
12	226	197,000	4.68	3.67	160	3	0	160	1.02	9.00	5.25	9.00	14.49	0.34
13	469	243,000	9.17	4.49	156	4	0	156	0.92	3.25	5.75	11.75	14.15	0.34
14	515	46,000	10.01	0.84	155	1	0	155	1.1	14.25	0.5	14.25	13.98	0.17
15	515	0	10.01	0.00	155	0	0	155	14.25	0.00	0.00	14.25	13.98	0.17
16	515	0	10.01	0.00	155	0	0	155	14.25	0.00	0.00	14.25	13.98	0.17
17	515	0	10.01	0.00	155	0	0	155	1.02	14.25	0.00	14.25	13.98	0.17
18	778	263,000	14.82	4.81	150	5	0	150	1.0	9.00	5.25	9.00	13.98	1.02
19	1012	234,000	19.10	4.28	146	4	0	146	0.99	4.75	4.25	4.75	12.11	0.35
20	1208	196,000	22.73	3.63	143	3	0	143	1.04	4.00	0.75	3.75	11.60	0.31
21	1470	282,000	27.51	4.78	138	5	0	138	1.02	8.75	5.00	16.25	10.75	0.35
22	1656	186,000	20.98	3.47	135	3	0	135	21.00	4.00	0.00	21.00	10.24	0.31
23	2234	578,000	41.58	10.60	124	31	0	124	9.90	12.00	0.00	16.00	8.54	1.78
24	2915	681,000	53.98	12.40	112	12	0	112	1.08	11.00	14.00	11.00	8.50	2.04
25	3114	189,000	57.66	3.68	108	4	0	108	1.07	6.50	4.50	22.50	5.82	0.68
26	3331	217,000	61.63	4.02	104	4	0	104	1.06	15.00	4.50	15.00	5.14	0.68
27	3563	232,000	65.96	4.28	100	4	0	100	1.09	13.00	5.00	13.00	14.15	0.35
28	3773	210,000	69.84	3.88	95	5	0	95	1.1	8.75	4.25	22.50	12.30	0.15
29	3951	178,000	73.17	3.33	92	3	0	92	19.00	3.50	0.00	19.00	12.96	0.34
30	3951	0	73.17	0.00	92	0	0	92	19.00	0.00	0.00	19.00	12.96	0.34
31	3951	0	73.17	0.00	92	0	0	92	19.00	0.00	0.00	19.00	12.96	0.34
Average Total	0	3,951,000	72.85	12.85	72	0	0	72	1.04	79.50	0.00	79.50	11.90	0.34

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE
W. H. H. H.
JAN 1932

NTR. (INGAL) GALLONS ELECT. READ DIFF. FL. WT. # USED # ADD TOT. WT. FL. TEST GAL. BL. GAL. USED GAL. ADD. TOT. GAL. CL. RES. P.T. PHOS. GAL. GAL. USED GAL. ADD. TOT. GAL. PHOS. P. PHOS. D.

1	24396	187,000	507.02	6.00	104	6	0	104	1.08	16.00	3.50	16.00	1.4	9.03	2.55	8.03
2	24495	189,000	513.03	6.01	97	7	0	97	1.02	12.00	4.00	12.00	1.2	5.41	2.55	5.41
3	24682	187,000	519.03	6.00	50	7	32	122	1.08	8.00	4.00	16.00	1.3	2.11	2.72	12.24
4	24682	0	519.03	0.00	122	0	0	122		24.00	0.00	24.00		15.00		15.00
5	24682	0	519.03	0.00	122	0	0	122		24.00	0.00	24.00		15.00		15.00
6	24870	188,000	525.03	6.00	115	7	0	115	1.1	20.00	4.00	20.00	1.6	12.23	2.72	12.23
7	25053	187,000	531.03	6.00	108	7	0	108	1.02	16.25	3.75	16.25	1.3	9.73	2.55	9.73
8	25245	188,000	537.03	6.00	102	6	0	102	1.0	12.50	3.75	12.50	1.2	7.01	2.72	7.01
9	25433	188,000	543.03	6.00	85	7	0	85	1.1	8.75	3.75	18.25	1.5	4.68	2.55	15.54
10	25621	188,000	549.09	6.06	88	7	0	88	0.93	21.00	4.00	21.00	2.0	12.79	2.72	12.79
11	25621	0	549.09	0.00	88	0	0	88		21.00	0.00	21.00		12.79		12.79
12	25621	0	549.09	0.00	88	0	0	88		21.00	0.00	21.00		12.79		12.79
13	25802	181,000	554.94	6.75	82	6	0	82	0.93	16.75	4.25	18.75	2.0	9.90	2.89	9.90
14	25889	187,000	560.86	8.02	75	7	0	75	1.07	13.00	3.75	13.00	1.8	7.01	2.89	7.01
15	26177	188,000	566.87	6.01	68	7	0	68	1.01	9.50	3.50	15.50	1.5	4.12	2.89	10.88
16	26365	188,000	572.88	6.01	62	6	0	62	1.1	20.50	4.50	20.50	1.5	12.28	2.72	12.28
17	26552	187,000	578.89	6.01	56	6	0	56	0.98	16.50	4.00	16.50	1.3	9.36	2.72	9.36
18	26552	0	578.89	0.00	56	0	0	56		16.50	0.00	16.50		9.36		9.36
19	26552	0	578.89	0.00	56	0	0	56		16.50	0.00	16.50		9.36		9.36
20	26740	188,000	584.90	6.01	49	7	0	49	0.99	13.00	3.50	13.00	1.3	6.67	2.89	6.67
21	26927	187,000	590.92	6.02	43	6	123	166	1.0	9.25	3.75	15.75	1.4	3.95	2.72	11.05
22	27116	189,000	596.93	6.01	163	3	0	163	1.1	21.00	4.00	21.00	1.5	12.28	2.72	12.28
23	27303	187,000	602.94	6.01	161	2	0	161	1.09	17.00	4.00	17.00	1.5	9.39	2.89	9.39
24	27491	188,000	608.95	6.01	159	2	0	159	1.1	13.50	3.50	13.50	1.3	8.33	3.06	6.33
25	27491	0	608.95	0.00	159	0	0	159		13.50	0.00	13.50		8.33		6.33
26	27491	0	608.95	0.00	159	0	0	159		13.50	0.00	13.50		8.33		6.33
27	27678	187,000	614.96	6.01	158	1	0	158	1.08	9.50	4.50	16.00	1.9	3.61	2.72	11.79
28	27865	187,000	620.97	6.01	156	2	0	156	1.04	21.25	3.75	21.25	1.1	12.45	2.55	12.45
29	28053	188,000	626.98	6.01	150	6	0	150	1.05	17.50	3.75	17.50	1.4	9.56	2.89	9.56
30	28241	188,000	633.00	6.02	147	3	0	147	1.01	13.75	3.75	13.75	1.1	6.84	2.72	6.84
31	28241	0	633.00	0.00	147	0	0	147		13.75	0.00	13.75		6.84		6.84
Average								0.00								
Total		4,122,000	131.98		118	155		1.04			85.25				59.84	

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 21419

CERTIFY THIS INFORMATION TO BE ACCURATE

REF: 8:439

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORIDATION AND 32% PHOSPHATE FOR IRON.

NTR. (KRAL) GALLONS ELECT READ DIFF. FL. WT. # USED # ADD TOT. WT. FL. TEST GAL. BL. GAL. USED GAL. ADD. TOT. GAL. CL. RES. PUT. RES. GAL. GAL. USED GAL. ADD. TOT. GAL. RES. P. RES. O.

1	16416	0	258.57	0.00	97	0	0	0	97	8.25	8.25	10.58	10.58
2	16416	0	258.57	0.00	97	0	0	0	97	8.25	8.25	10.58	10.58
3	16611	395,000	264.58	6.01	92	5	0	0	92	16.00	20.00	0.9	8.89
4	16807	196,000	270.59	6.01	86	6	0	0	86	16.25	3.75	1.70	1.70
5	17002	195,000	276.60	6.01	80	6	0	0	80	12.25	4.00	0.9	5.48
6	17198	190,000	282.60	6.00	75	5	0	0	75	7.50	4.25	1.2	3.78
7	17393	195,000	288.61	6.01	69	6	0	0	69	15.75	20.50	1.3	1.74
8	17393	0	288.61	0.00	69	0	0	0	69	20.50	0.00	15.00	15.00
9	17393	0	288.61	0.00	69	0	0	0	69	20.50	0.00	15.00	15.00
10	17585	195,000	294.61	6.00	64	5	42	0	106	8.50	25.00	1.2	13.13
11	17783	195,000	300.63	6.02	100	6	0	0	100	1.1	16.50	1.3	11.26
12	17978	195,000	306.62	5.99	94	6	0	0	94	1.09	20.25	1.3	11.26
13	18172	184,000	312.63	6.01	88	6	0	0	88	16.50	1.1	9.39	1.87
14	18367	195,000	318.64	6.01	83	5	0	0	83	18.50	1.1	7.69	1.70
15	18367	0	318.64	0.00	83	0	0	0	83	12.50	1.3	7.69	1.70
16	18367	0	318.64	0.00	83	0	0	0	83	8.75	8.75	5.82	5.82
17	18561	194,000	324.64	6.00	77	6	0	0	77	8.75	0.00	5.82	5.82
18	18756	195,000	330.65	6.01	71	6	0	0	71	20.00	25.00	1.0	3.95
19	18951	195,000	336.66	6.01	66	5	38	0	104	1.6	13.13	1.87	11.85
20	19145	194,000	342.67	6.01	98	6	0	0	98	21.00	4.00	1.6	13.13
21	19338	193,000	348.68	6.01	93	5	0	0	93	17.25	2.75	1.87	11.26
22	19338	0	348.68	0.00	93	0	0	0	93	17.25	2.75	1.87	11.26
23	19338	0	348.68	0.00	93	0	0	0	93	13.00	1.3	9.39	1.87
24	19332	194,000	354.69	6.01	87	6	0	0	87	5.00	15.00	1.4	7.52
25	19723	191,000	360.70	6.01	92	5	0	0	92	15.00	0.00	7.52	7.52
26	19914	191,000	366.70	6.00	76	6	0	0	76	11.00	11.00	1.87	5.82
27	20104	190,000	372.71	6.01	70	6	0	0	70	1.05	11.09	1.3	3.95
28	20292	188,000	378.71	6.00	64	6	0	0	64	1.2	3.95	1.2	3.95
29	20292	0	378.71	0.00	64	0	0	0	64	15.00	0.00	1.4	1.91
30	20292	0	378.71	0.00	64	0	0	0	64	11.25	15.00	1.4	1.91
31	20292	0	378.71	0.00	64	0	0	0	64	11.25	15.00	1.4	1.91
Average													
Total	0	3,876,000	150.14		115					1.05		15.72	

15.72

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORIDATION AND 3% PHOSPHATE FOR IRON.

1 CERTIFY THIS INFORMATION TO BE ACCURATE

FEB 22 1952

MTR. (KCAL) GALLONS ELECT. READ DIFF. FL. WGT # USED # ADD TOT. WGT. FL. TEST CAL. BL. CAL. USED CAL. ADD. TOT. CAL. CL. RES. FL. MTS. CAL. GAS. USED CAL. ADD. TOT. CAL. MTS. F. PROD.

1	12097	194,000	126.38	6.01	78	5	0	78	20.00	5.00	5.00	5.00	1.02	5.00	5.00
2	12293	196,000	132.39	6.01	72	6	0	72	108.15	5.00	5.00	5.00	1.02	5.00	5.00
3	12489	196,000	138.40	6.01	67	5	0	67	11.25	5.00	5.00	5.00	1.02	5.00	5.00
4	12489	0	138.40	0.00	67	0	0	67	11.25	0.00	0.00	0.00	1.02	5.00	5.00
5	12489	0	138.40	0.00	67	0	0	67	11.25	0.00	0.00	0.00	1.02	5.00	5.00
6	12686	197,000	144.42	6.02	81	6	0	81	10.50	4.25	4.25	4.25	0.83	11.90	11.90
7	12882	196,000	150.42	6.00	56	5	0	56	12.50	5.00	5.00	5.00	1.02	5.00	5.00
8	13079	197,000	156.43	6.01	50	5	0	50	19.50	5.00	5.00	5.00	1.02	5.00	5.00
9	13275	196,000	162.44	6.01	45	5	0	45	14.00	5.00	5.00	5.00	0.68	11.00	11.00
10	13472	193,000	168.45	6.01	39	6	0	39	1.03	9.00	5.00	5.00	1.53	10.07	10.07
11	13472	0	168.45	0.00	39	0	0	39	25.00	0.00	0.00	0.00	1.02	5.00	5.00
12	13472	0	168.45	0.00	39	0	0	39	25.00	0.00	0.00	0.00	1.02	5.00	5.00
13	13668	196,000	174.46	6.01	33	6	38	71	1.04	20.00	5.00	5.00	0.85	9.22	9.22
14	13864	196,000	180.47	6.01	65	6	0	65	1.09	14.50	5.00	5.00	1.38	7.86	7.86
15	14060	196,000	186.48	6.01	59	6	0	59	1.1	9.50	5.00	5.00	1.19	6.87	6.87
16	14255	195,000	192.49	6.01	55	4	105	180	1.1	20.00	5.00	5.00	1.02	5.65	5.65
17	14451	196,000	198.50	6.01	155	5	0	155	1.04	15.00	5.00	5.00	1.02	4.83	4.83
18	14451	0	198.50	0.00	155	0	0	155	15.00	0.00	0.00	0.00	1.02	4.83	4.83
19	14451	0	198.50	0.00	155	0	0	155	15.00	0.00	0.00	0.00	1.02	4.83	4.83
20	14648	197,000	204.50	6.00	149	6	0	149	1.1	10.00	5.00	5.00	1.19	6.56	6.56
21	14844	196,000	210.51	6.01	144	5	0	144	1.1	20.00	5.00	5.00	1.02	8.99	8.99
22	15042	196,000	216.52	6.01	137	7	0	137	1.1	15.00	5.00	5.00	1.19	7.79	7.79
23	15238	196,000	222.52	6.00	131	6	0	131	1.01	17.50	4.50	4.50	1.02	6.77	6.77
24	15435	197,000	228.53	6.01	126	5	0	126	0.99	12.50	5.00	5.00	1.02	5.75	5.75
25	15435	0	228.53	0.00	126	0	0	126	12.50	0.00	0.00	0.00	1.02	5.75	5.75
26	15435	0	228.53	0.00	126	0	0	126	12.50	0.00	0.00	0.00	1.02	5.75	5.75
27	15632	197,000	234.54	6.01	121	5	6	121	1.1	8.75	3.75	3.75	1.19	4.56	4.56
28	15829	197,000	240.55	6.01	114	7	0	114	1.08	4.50	4.25	4.25	1.02	11.40	11.40
29	16025	196,000	246.55	6.00	109	5	0	109	1.05	16.25	4.25	4.25	0.85	14.13	14.13
30	16221	196,000	252.56	6.01	103	6	0	103	1.1	12.25	4.00	4.00	1.19	12.28	12.28
31	16416	195,000	258.57	6.01	97	8	0	97	1.08	8.25	4.00	4.00	1.19	10.58	10.58
Average		0 4,513,000	135.20		129			129	1.07				25.50		
Total															

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION,
25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR
FLUORINATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT #2039

WELL # 2

STICAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

MONTH OF

1997

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	FL. TEST	GAL. BLEACH	GAL. USED	GAL. ADDED	PHOSPHATE GALS.	GALS. USED	GALS. ADDED	TOTAL GALS.	PHOS. FINISHED TEST	PHOS. TEST DIST.
1 007721	—	14085	—	52	—	—	—	92	230	—	—	5.9	—	—	—	—	—
2 007721	—	14085	—	52	—	—	—	92	230	—	—	5.9	—	—	—	—	—
3 002231	—	14085	—	52	—	—	—	91	25	—	—	5.9	—	—	—	—	—
4 007940	2500	000000	0.20	0000	—	—	—	95	246	—	—	5.9	—	—	—	—	—
5 009160	2400	000018	0.18	79	0.2	46	95	100	20	—	—	6	292	130	135	—	—
6 009358	1800	000220	0.02	90	3	—	—	109	174	274	—	6	1360	130	—	—	—
7 008555	19700	000182	0.01	95	5	—	—	—	144	246	—	—	12.28	136	—	—	—
8 008752	2197000	0002412	0.01	50	5	—	—	—	144	246	—	—	10.92	130	—	—	—
9 005752	—	0002422	—	50	—	—	—	100	124	—	—	7	1092	—	—	—	—
10 006148	18400	0003018	5.96	77	3	—	—	100	17	2	—	7	1092	—	—	—	—
11 009147	18800	0003610	0.01	73	7	—	—	103	14	3	—	7	1092	—	—	—	—
12 009346	19700	0004220	0.02	64	4	—	—	94	114	234	—	7	1092	—	—	—	—
13 009544	19800	0004822	0.02	65	4	—	—	11	52	234	156	10	1092	—	—	—	—
14 009540	—	0004822	—	65	—	—	—	—	—	—	—	—	—	—	—	—	—
15 009544	—	0004822	—	65	—	—	—	—	—	—	—	—	—	—	—	—	—
16 009741	19700	0005420	0.01	60	5	—	—	92	1812	516	—	7	1092	—	—	—	—
17 009739	19800	0006027	0.01	50	4	—	—	98	12	516	—	7	1092	—	—	—	—
18 01036	19700	0006626	0.02	51	5	—	—	105	14	516	206	10	1092	—	—	—	—
19 009354	19800	0007227	0.01	44	7	—	—	71	226	516	—	7	1092	—	—	—	—
20 009531	19700	0007828	0.01	39	5	44	53	109	—	516	—	11	1092	—	—	—	—
21 009531	—	0007828	—	39	—	—	—	—	—	—	—	—	—	—	—	—	—
22 010531	—	0007828	—	39	—	—	—	—	—	—	—	—	—	—	—	—	—
23 010728	19700	0008429	0.01	77	6	—	—	11	12	516	15	10	1092	—	—	—	—
24 010925	19700	0009030	0.01	72	5	—	—	11	12	516	—	13	1092	—	—	—	—
25 011119	19400	0009632	0.02	69	5	—	—	—	12	516	—	10	1092	—	—	—	—
26 011313	19400	0010233	0.01	61	4	—	—	108	120	516	—	10	1092	—	—	—	—
27 011519	20000	0000834	0.01	56	3	—	—	98	19	6	—	10	1092	—	—	—	—
28 011819	—	0000834	—	56	—	—	—	—	—	—	—	—	—	—	—	—	—
29 011519	—	0000834	—	56	—	—	—	—	—	—	—	—	—	—	—	—	—
30 011706	18700	0001435	0.01	50	4	—	—	104	123	516	—	10	1092	—	—	—	—
31 011925	18700	0002037	0.02	43	3	—	—	104	123	516	—	10	1092	—	—	—	—

4172000

126.4

97

100.103

48.00

27.14

100 HCl
1000

WE USE SODIUM HYPOCHLORITE FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

SUNNY ALBERT, WATER SUPPLY
1001 #2139

NTR. (INGL) GAL. PUMPED ELEC. READ DIFF. FL. NOT USED ADD 704-707. FL. TEST CL. TANK USED ADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PRO. GAL. USED GAL. AND TOT. GAL. PROS. FIN. PROS. DIST.

1	34540	289,000	10300.10	3.30	74	6	94	1.08	67	1	0	2.0	2.4	1.0	1.4	9.22	0.57	5.22
2	34578	338,000	10305.60	5.50	86	8	86	0.90	50	7	0	2.2	2.5	0.7	1.0	8.70	1.02	1
3	34605	307,000	10310.50	4.90	79	7	79	1.02	52	8	0	1.2	1.2	1.2	1.8	7.35	6.55	1.61
4	34622	187,000	10313.60	3.10	74	5	74		49	3	0					16.15	0.85	14
5	34661	589,000	10323.20	9.60	60	14		60	36	13	0					32.45	1.79	32
6	34760	798,000	10326.30	13.10	40	20	122	1.1	17	19	0	1.9	2.4	1.3	1.6	10.07	2.20	10
7	34790	240,000	10340.20	3.90	156	6		156	1.02	11	6	1.9	2.3	1.3	1.3	9.51	0.91	10
8	34823	303,000	10346.10	5.90	147	9		147	0.90	153	8	1.5	1.8	1.2	1.6	8.27	1.19	8
9	34859	316,000	10351.30	5.20	139	8		139	1.1	146	7	1.4	1.7	0.6	0.9	7.52	0.85	8
10	34892	328,000	10356.60	5.30	132	7		322	0.91	140	6	1.7	2.0	0.4	0.7	6.67	0.83	13
11	34903	191,000	10359.80	3.20	127	5		127		137	3	1.3				14.61	0.34	13
12	34951	573,000	10369.30	9.50	112	15		112		141	9	0				32.86	1.70	13
13	35040	739,000	10381.50	12.20	94	18		94	1.0	121	14	2.0	2.4	0.4	0.7	11.09	1.07	11
14	35072	312,000	10386.60	5.10	87	7		87	0.95	150	7	1.3	1.6	0.8	1.2	10.24	0.93	10
15	35096	264,000	10390.90	4.30	81	6		81	0.96	114	6	0	2.1	0.9	0.8	9.58	0.88	10
16	35107	221,000	10394.50	3.60	75	6	90	1.65	0.37	110	4	1.9	2.2	1.2	1.6	9.05	0.87	9
17	35142	205,000	10397.80	3.30	158	7		158	0.91	105	5	2.0	2.3	1.0	1.4	8.32	0.80	8
18	35162	200,000	10401.10	3.30	153	5		153		100	5	0				7.88	0.81	6
19	35217	525,000	10405.80	8.70	141	12		141		90	10	0				6.22	1.13	8
20	35278	621,000	10420.00	10.20	125	16		125	1.06	77	13	2.0	2.6	1.2	1.5	6.63	1.70	1
21	35294	226,000	10423.70	3.70	119	6		119	1.04	71	6	1.3	1.7	1.0	1.4	6.32	0.91	10
22	35326	242,000	10427.60	3.90	113	6		113	1.00	66	5	0	2.1	1.8	1.9	14.16	0.81	10
23	35363	247,000	10431.70	4.10	107	6		107	1.09	60	6	1.4	1.8	1.3	1.6	13.47	0.89	12
24	35389	216,000	10435.20	3.50	102	5		102	1.1	57	3	0	2.4	1.2	1.0	12.79	0.88	12
25	35399	210,000	10438.80	3.40	98	4		98		52	5	0				12.20	0.91	12
26	35454	625,000	10449.90	10.30	82	16		82		31	14	0				48.41	1.87	10
27	35484	360,000	10454.30	5.90	74	8		74	1.09	30	8	1.2	1.5	0.7	1.1	9.39	1.02	1
28	35530	416,000	10461.40	6.60	64	10	60	1.04	22	1	0	1.9	2.2	1.1	1.3	7.37	1.02	1
29	35558	275,000	10466.10	4.70	117	7		117	1.05	15	7	0	2.5	0.9	1.2	7.52	0.93	8
30	35600	422,000	10472.90	6.10	106	11		106	1.04	6	6	1.3	2.3	0.7	1.1	6.33	1.11	1
31	35600	0	10472.90	0.00	106	0		106		139	0	0				6.33	0.22	1
AVERAGE								1.02								0.00		
TOTAL	10,568,000		176.10		286												30.58	

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT. 2023

WE USE 1584 CHLORINE GAS CYLINDERS, 358HYDROFLUOSILIC ACID
FULL STRENGTH FOR FLUORIDATION AND 328 PHOSPHATE FOR IRON

70524-67

WTE. (100AL) GAL. PMS. ELEC. READ DIFF. FL. WGT USED 1100 TOT. WGT. FL. TEST CL. TANK USED 1100 RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PMS. GAL. USED GAL. 100 WTE. GAL. PMS. PTH. PMS. DIST.

1	318403	312,000	957.80	5.00	90	8	0	146	4	0	9.80	1.00	9.80
2	319672	1,269,000	9378.00	20.00	51	33	0	120	20	0	6.00	2.20	8.20
3	320951	1,269,000	9399.00	20.40	24	33	141	165	34	26	0.3	0.3	0.6
4	321373	415,000	9906.50	7.50	155	10	0	155	10	0	1.4	1.0	2.4
5	321811	425,000	9913.60	7.10	144	11	0	144	9	0	1.0	1.0	2.0
6	322230	419,000	9910.30	6.70	134	10	0	134	0	0	0.4	0.4	0.8
7	322658	465,000	9957.80	7.50	121	13	0	121	36	0	0.3	0.3	0.6
8	323003	345,000	9931.20	5.50	114	7	0	114	0	0	1.0	1.0	2.0
9	324259	1,216,000	9953.30	20.00	81	33	0	119	22	26	0.2	0.2	0.4
10	325567	1,205,000	9974.90	21.60	46	35	119	165	11	0	0.6	0.6	1.2
11	326046	419,000	9982.70	7.00	154	11	0	154	0	0	1.0	1.0	2.0
12	326273	221,000	9986.50	2.10	140	6	0	140	0	0	0.4	0.4	0.8
13	326550	277,000	9991.10	3.60	141	7	0	141	0	0	0.4	0.4	0.8
14	327028	419,000	9993.70	7.00	130	11	0	130	0	0	0.6	0.6	1.2
15	327453	425,000	10005.50	6.10	118	12	0	118	0	0	0.6	0.6	1.2
16	327495	1,045,000	10022.50	17.00	92	36	0	126	24	0	0.7	0.7	1.4
17	327584	1,269,000	10043.40	20.90	59	33	42	101	30	0	0.4	0.4	0.8
18	328016	252,400	10047.50	4.10	96	5	0	96	0	0	0.4	0.4	0.8
19	330263	247,000	10051.60	4.10	90	6	0	90	0	0	0.4	0.4	0.8
20	330556	263,000	10055.30	4.20	84	6	0	84	0	0	0.4	0.4	0.8
21	330777	251,000	10060.10	4.20	77	7	80	157	0	0	0.4	0.4	0.8
22	330987	210,000	10062.50	3.40	152	5	0	152	0	0	0.4	0.4	0.8
23	331614	627,000	10073.90	10.40	136	16	0	136	0	0	0.4	0.4	0.8
24	332400	716,000	10086.80	12.90	118	18	0	118	0	0	0.4	0.4	0.8
25	332608	205,000	10090.20	2.40	112	6	0	112	0	0	0.4	0.4	0.8
26	332838	220,000	10093.90	2.70	105	6	0	105	0	0	0.4	0.4	0.8
27	333100	269,000	10098.20	4.30	100	6	0	100	0	0	0.4	0.4	0.8
28	333350	230,000	10102.20	4.00	95	5	63	153	0	0	0.4	0.4	0.8
29	333545	195,000	10105.40	3.20	153	5	0	153	0	0	0.4	0.4	0.8
30	333545	0	10105.40	0.00	153	0	0	153	0	0	0.4	0.4	0.8
31	333545	0	10105.40	0.00	153	0	0	153	0	0	0.4	0.4	0.8

AVERAGE

TOTAL

15,454,000

352.60

330

1.03

314

0.00

0.00

WE USE 150# CHLORINE GAS CYLINDERS, 2,2,2-TRIFLUOROETHYLENE ACID
FULL STRENGTH FOR FLUORIDATION AND 22% PHOSPHATE FOR 180S

1 CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 1/1/32

[illegible][illegible]

NTR. (1000L) GAL. PUMPED ELEC. REIN. DIFF. FL. WGT. USED ADD TOT. WGT. FL. TEST CL. TAX. USED ADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PROD. GAL. USED GAL. AND TOT. GAL. PROD. FIN. PROD. DIST.

1	227370	1,165,000	9169.00	19.50	122	31	122	3	21	159	2.4	2.8	0.4	0.1	16.92	4.91	10.82
2	228651	1,331,000	9211.10	22.80	97	25	97	134	24	0	2.4	2.8	0.4	0.1	7.18	3.74	7
3	229119	468,000	9219.40	7.60	34	13	34	96	127	7	2.0	2.3	0.4	0.3	4.03	1.77	3
4	229589	464,000	9226.30	7.50	72	12	72	111	9	0	2.1	2.6	0.8	0.3	4.12	1.26	10.88
5	229697	514,000	9235.20	8.30	59	13	107	106	111	108	2.2	2.8	0.7	1.0	12.07	2.37	13
6	229874	477,000	9242.10	7.60	153	13	153	111	91	10	2.2	2.6	0.6	0.7	11.41	1.53	12
7	229985	531,000	9248.10	5.30	145	8	145	90	8	0	1.65	2.0	0	0.7	10.92	1.02	11
8	230018	1,113,000	9266.30	18.20	116	29	116	116	20	0	2.2	2.6	0.4	0.3	7.63	3.23	8
9	230255	1,307,000	9288.00	21.70	81	36	81	103	45	25	2.2	2.6	0.4	0.3	3.03	4.03	11.39
10	231757	425,000	9294.10	6.90	71	10	71	108	28	9	2.2	2.6	0.4	0.7	12.04	1.26	14
11	232216	461,000	9302.40	7.50	58	13	58	103	29	7	2.2	2.6	0.5	0.8	11.80	2.04	12
12	234667	495,000	9303.60	7.20	87	11	39	86	111	19	1.8	2.1	0.6	0.3	10.92	0.82	11
13	235157	400,000	9317.40	7.80	74	12	89	163	11	10	2.0	2.4	1.0	1.6	3.22	6.26	9
14	235335	378,000	9323.40	6.00	133	10	133	154	6	0	1.02	1.0	0	1.0	1.00	1.02	3
15	236274	1,189,000	9343.00	19.60	122	31	122	150	24	0	4.88	3.40	10.39	13	4.88	3.40	10.39
16	238016	1,292,000	9364.40	21.40	88	34	88	93	105	25	2.1	2.5	0.6	0.8	10.55	6.42	11
17	238495	479,000	9372.10	7.70	76	12	76	76	93	10	2.2	2.6	0.7	1.0	9.22	1.16	9
18	238571	476,000	9379.10	7.70	64	12	60	124	103	86	2.2	2.6	1.1	1.6	7.86	1.26	8
19	239428	457,000	9387.10	7.30	113	11	113	113	76	10	2.2	2.6	0.7	0.9	8.10	1.26	7
20	239877	419,000	9394.30	7.20	102	11	102	112	11	88	2.2	2.6	0.8	0.9	5.14	1.26	13
21	240316	439,000	9401.40	7.10	91	11	91	60	8	0	1.72	2.1	0	1.0	11.30	1.70	12
22	241487	1,171,000	9428.60	19.20	86	31	60	34	36	0	8.72	3.17	10.7	13	8.72	3.17	10.7
23	242752	1,245,000	9461.50	20.30	27	33	140	107	109	10	2.3	2.6	0.5	0.8	1.93	7.74	6
24	243181	429,000	9468.50	7.00	155	12	155	110	145	15	1.7	2.1	0.6	0.6	6.03	1.24	13
25	244183	1,005,000	9464.90	16.40	130	25	130	123	22	0	10.42	3.07	13.49	13	10.42	3.07	13
26	245147	564,000	9480.50	15.60	103	21	103	103	93	105	2.0	2.4	0.4	0.7	1.54	2.19	8
27	245982	445,000	9487.70	7.20	93	10	93	92	103	95	2.0	2.4	0.6	0.8	7.35	1.19	10.43
28	245989	347,000	9484.10	6.40	83	10	83	87	8	0	1.64	2.0	0	0.7	11.64	1.64	14
29	247116	1,227,000	9512.50	18.40	53	30	113	166	62	24	0	2.4	0.6	0.6	10.24	3.40	10
30	248426	1,310,000	9534.10	21.60	131	35	131	131	107	38	2.1	2.4	0.3	0.6	6.50	7.74	7
31	249370	644,000	9541.20	7.10	118	13	118	119	111	26	1.0	2.8	0.5	0.7	5.61	1.05	13
AVERAGE									1.06								
TOTAL	22,745,000		371.70		583					153							61.71

WE USE 150# CHLORINE GAS CYLINDERS, SIANTHROPOLYSILIC ACID FULL STRENGTH FOR FLUORINATION AND 32# PHOSPHATE FOR IRON

1 CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 11-14-81

MTB (11 GAL) BAL. PUMPED ELEV. READ DIFF. FL. WT. USED 1400 TOT. WT. FL. TEST CL. TANK USED 1400 RES. PL. FREE RES. PL. TOT. RES. WT. FREE RES. PL. TOT. RES. PL. BAL. USED TOT. BAL. PUMPED TOT. PUMP. DIST.

1	27036	491,000	8542.50	7.9	128	1.1	141	6	0	2.4	2.8	0.5	11.00	1.70	11.30	12
2	28825	489,000	8550.40	7.90	121	1.09	129	12	0	2.3	2.8	0.4	11.30	1.70	11.30	10
3	29831	506,000	8558.70	8.20	104	1.02	118	11	0	2.2	2.8	0.3	11.30	1.70	11.30	9
4	299218	507,000	8564.30	8.20	94	1.03	110	8	0	2.1	2.5	0.6	11.30	1.70	11.30	7
5	299555	508,000	8570.40	5.50	86	1.02	102	8	0	2.1	2.5	0.6	11.30	1.70	11.30	7
6	240776	1,220,000	8590.80	20.40	54	1.06	72	36	0	2.2	2.6	0.4	11.30	1.70	11.30	12
7	242152	1,376,000	8614.90	23.20	34	1.06	36	36	0	2.2	2.6	0.4	11.30	1.70	11.30	12
8	242513	481,000	8621.50	7.50	147	1.04	24	12	0	2.3	2.6	0.3	11.30	1.70	11.30	9
9	243094	481,000	8629.40	7.90	135	1.03	12	12	0	2.4	2.6	0.3	11.30	1.70	11.30	8
10	243537	483,000	8636.50	7.50	122	1.05	4	8	146	2.4	2.6	0.3	11.30	1.70	11.30	8
11	243965	485,000	8643.50	6.50	111	1.04	142	7	0	2.4	2.7	0.3	11.30	1.70	11.30	8
12	244347	481,000	8649.60	6.10	101	1.04	124	9	0	2.4	2.7	0.3	11.30	1.70	11.30	8
13	245480	1,132,000	8658.40	19.80	73	1.05	110	24	0	2.5	2.8	0.6	11.30	1.70	11.30	10
14	246705	1,225,000	8688.90	20.50	34	1.05	60	30	0	2.5	2.8	0.6	11.30	1.70	11.30	10
15	247115	418,000	8695.50	6.60	152	1.09	74	6	0	2.3	2.7	0.3	11.30	1.70	11.30	9
16	247215	418,000	8701.50	6.50	145	1.09	64	10	0	2.3	2.7	0.3	11.30	1.70	11.30	9
17	247940	424,000	8709.80	6.80	135	1.01	54	10	0	2.3	2.6	0.3	11.30	1.70	11.30	9
18	248415	475,000	8718.50	7.70	123	1.06	42	12	0	2.3	2.6	0.3	11.30	1.70	11.30	9
19	248980	475,000	8724.20	7.70	111	1.06	32	10	0	2.3	2.6	0.3	11.30	1.70	11.30	9
20	250045	1,155,000	8743.40	19.20	80	1.02	124	37	0	2.3	2.6	0.3	11.30	1.70	11.30	9
21	251237	1,292,000	8765.10	21.70	45	1.02	124	37	0	2.3	2.6	0.3	11.30	1.70	11.30	9
22	251624	487,000	8771.90	7.90	67	1.11	112	12	0	2.3	2.6	0.3	11.30	1.70	11.30	9
23	252285	471,000	8780.60	7.60	45	1.11	100	12	0	2.3	2.6	0.3	11.30	1.70	11.30	9
24	252778	482,000	8788.50	7.90	130	0.91	90	10	0	2.3	2.6	0.3	11.30	1.70	11.30	9
25	253171	297,000	8794.90	6.40	140	0.92	81	9	0	2.3	2.6	0.3	11.30	1.70	11.30	9
26	253687	512,000	8801.60	6.70	128	1.11	128	12	0	2.3	2.6	0.3	11.30	1.70	11.30	9
27	254597	1,017,000	8820.20	18.40	100	1.02	42	30	0	2.3	2.6	0.3	11.30	1.70	11.30	9
28	254697	0	8820.00	0.00	100	1.02	42	30	0	2.3	2.6	0.3	11.30	1.70	11.30	9
29	255191	494,000	8827.90	7.90	88	1.11	22	10	0	2.3	2.6	0.3	11.30	1.70	11.30	9
30	255554	459,000	8835.30	7.40	77	1.11	12	10	0	2.3	2.6	0.3	11.30	1.70	11.30	9
31	256012	471,000	8841.50	5.50	66	1.05	14	8	0	2.3	2.6	0.3	11.30	1.70	11.30	9

AVERAGE TOTAL

12,718,000 307.30 481

USE 150N OR 200N GAS EXHAUSTERS, 35% HYPOPHOSPHITE ACID FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR 150N

STANDARD T. C. C. PREP. WORKS CO. BOSTON, MASS.

HTR. (INGAL) GAL. PUMPED ELEC. READ DIFF. FL. WT. USED (400) TOT. WT. FL. TEST CL. TANK USED (400) RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PND. GAL. USED GAL. AND TOT. GAL. PND. FIN. PHOS. DIST.

1	23425	1,244,000	8303.30	20.3	120	32	130	40	25	0	3.79	2.91	5.79	12.92	5.99
2	23435	1,310,000	8335.40	31.10	95	34	95	5	35	145	2.90	2.91	5.81	12.92	5.99
3	23455	1,358,000	8346.50	31.20	53	43	7	109	32	0	2.4	2.8	5.2	12.92	5.99
4	23465	1,436,000	8355.70	7.10	59	11	59	109	9	0	2.8	2.9	5.7	12.92	5.99
5	23485	1,470,000	8361.30	7.60	48	11	120	95	13	0	2.8	2.9	5.7	12.92	5.99
6	23495	1,500,000	8368.00	7.40	158	12	158	85	10	0	2.8	2.9	5.7	12.92	5.99
7	23505	1,530,000	8375.70	7.00	146	10	146	75	11	0	2.8	2.9	5.7	12.92	5.99
8	23515	1,560,000	8383.30	7.10	112	34	112	48	27	0	2.8	2.9	5.7	12.92	5.99
9	23525	1,590,000	8391.00	7.20	75	36	75	15	33	0	2.8	2.9	5.7	12.92	5.99
10	23535	1,620,000	8398.70	7.30	62	14	62	10	5	150	2.8	2.9	5.7	12.92	5.99
11	23545	1,650,000	8406.40	7.40	84	12	84	109	10	0	2.8	2.9	5.7	12.92	5.99
12	23555	1,680,000	8414.10	7.50	75	8	75	106	12	0	2.8	2.9	5.7	12.92	5.99
13	23565	1,710,000	8421.80	7.60	75	8	75	102	12	0	2.8	2.9	5.7	12.92	5.99
14	23575	1,740,000	8429.50	7.70	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
15	23585	1,770,000	8437.20	7.80	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
16	23595	1,800,000	8444.90	7.90	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
17	23605	1,830,000	8452.60	8.00	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
18	23615	1,860,000	8460.30	8.10	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
19	23625	1,890,000	8468.00	8.20	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
20	23635	1,920,000	8475.70	8.30	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
21	23645	1,950,000	8483.40	8.40	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
22	23655	1,980,000	8491.10	8.50	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
23	23665	2,010,000	8498.80	8.60	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
24	23675	2,040,000	8506.50	8.70	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
25	23685	2,070,000	8514.20	8.80	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
26	23695	2,100,000	8521.90	8.90	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
27	23705	2,130,000	8529.60	9.00	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
28	23715	2,160,000	8537.30	9.10	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
29	23725	2,190,000	8545.00	9.20	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
30	23735	2,220,000	8552.70	9.30	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99
31	23745	2,250,000	8560.40	9.40	75	0	75	102	12	0	2.8	2.9	5.7	12.92	5.99

AVERAGE TOTAL 15,134,000 351.50 393

WE USE 1500 CH. 80/100 GAS CYLINDERS, 25% HYDROGEN SULFIDE ACID FULL STRENGTH 10% FLUORINATION AND 3% PHOSPHATE FOR 1500

STANDARD T. C. C. PREP. WORKS CO. BOSTON, MASS.

[illegible]

1	300763	587,000	7930.10	9.5	45	14	45	1.05	7	13	150	2.5	8.6	11.43	2.04
2	201312	528,000	7935.00	8.90	30	13	100	1.55	0.98	148	5	5	8.8	13.07	1.35
3	201801	489,000	7946.94	7.90	155	10	155	1.55	1.29	129	5	5	8.8	13.07	1.35
4	2003169	368,000	7959.70	23.20	145	10	145	1.45	1.04	29	40	15	9.27	10.34	1.11
5	204550	7181,000	7992.90	20.20	101	12	101	1.01	1.02	37	37	0	11.4	9.28	1.11
6	205019	469,000	8000.50	7.50	87	14	87	1.1	1.1	34	12	0	11.5	9.28	1.11
7	205553	544,000	8099.40	8.90	73	14	73	0.96	0.96	39	15	0	11.5	9.28	1.11
8	206003	470,000	8017.60	7.50	62	14	62	1.1	1.1	27	15	0	11.5	9.28	1.11
9	205595	472,000	8024.60	7.50	51	14	51	1.06	1.06	14	12	0	11.5	9.28	1.11
10	207020	515,000	8032.90	8.30	92	13	92	1.1	1.1	34	12	0	11.5	9.28	1.11
11	206207	4167,000	8053.90	11.00	63	30	63	1.2	1.2	20	20	0	11.5	9.28	1.11
12	205545	155,000	8075.00	11.10	30	30	102	1.5	1.1	86	34	0	11.5	9.28	1.11
13	210001	475,000	8082.70	7.70	154	11	154	1.54	1.08	70	16	0	11.5	9.28	1.11
14	210504	451,000	8090.50	7.90	162	10	162	1.62	1.09	55	14	0	11.5	9.28	1.11
15	210508	464,000	8090.94	7.50	131	11	131	1.31	1.09	45	11	0	11.5	9.28	1.11
16	211458	530,000	8106.50	8.50	117	14	117	1.17	1.1	30	12	0	11.5	9.28	1.11
17	211502	405,000	8111.50	7.90	135	10	135	1.35	1.1	19	11	150	11.5	9.28	1.11
18	213151	1,205,000	8130.90	20.40	94	31	94	1.45	1.1	45	22	0	11.5	9.28	1.11
19	215515	1,351,000	8155.40	22.50	58	36	58	1.34	1.1	115	31	0	11.5	9.28	1.11
20	214561	445,000	8162.70	7.30	47	11	47	1.06	1.04	104	11	0	11.5	9.28	1.11
21	215423	502,000	8171.70	8.00	35	12	130	1.55	1.05	50	14	0	11.5	9.28	1.11
22	215965	441,000	8178.90	7.20	154	11	154	1.54	1.1	31	11	0	11.5	9.28	1.11
23	216261	555,000	8181.20	7.20	133	11	133	1.33	1.1	43	11	0	11.5	9.28	1.11
24	216815	421,000	8195.60	7.40	122	11	122	1.22	1.1	41	11	0	11.5	9.28	1.11
25	217377	1,211,000	8215.30	11.30	99	30	99	1.67	1.1	48	30	250	11.5	9.28	1.11
26	219517	1,359,000	8230.80	13.50	51	20	106	1.67	1.1	48	30	0	11.5	9.28	1.11
27	220048	531,000	8247.50	8.70	154	13	154	1.54	1.09	505	13	0	11.5	9.28	1.11
28	220550	511,000	8255.90	8.40	151	14	149	1.49	1.03	127	15	0	11.5	9.28	1.11
29	220422	575,000	8265.30	9.40	155	14	155	1.55	1.08	115	15	0	11.5	9.28	1.11
30	221745	608,000	8275.20	10.60	112	14	112	1.12	1.01	99	15	0	11.5	9.28	1.11
31	222211	657,000	8282.90	10.70	150	15	150	1.50	1.01	68	16	0	11.5	9.28	1.11

AVG: 1.00
TOTAL: 1.00

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1000

[illegible]

MTR. (16 GAL) GAL. PUMPED ELEC. READ DIFF. FL. MGT. #USED PADD 101. WGT. F. TEST CL. IN. #50 PADD RES. PL. FREE RES. PL. TOP. RES. DIST. FREE RES. DIST. 40" GAL. PHOS. GAL. USED GAL. ADD TOT. GAL. PHOS. F.N. PHOS. DIST.

1	17777	1,385,000	7553.30	22.9	57	35	92	1.0	120	30	0	2.3	2.6	0.4	0.7	2.08	4.25	12.52	15
2	17823	522,000	7552.40	8.50	80	12	80	0.98	110	10	0	2.2	2.6	0.6	0.9	1.30	1.78	13	13
3	17875	455,000	7559.50	7.40	58	11	96	1.01	100	10	0	2.4	2.8	0.6	1.1	11.77	11.52	12	12
4	17951	426,000	7575.70	6.90	155	10	155	1.08	90	10	0	2.5	2.8	0.6	0.9	16.58	11.19	11	11
5	18048	1,298,000	7598.00	21.30	123	32	123	1.08	58	32	0	2.5	2.8	0.6	0.9	6.84	3.74	8.16	15
6	18085	380,000	7604.10	6.10	114	9	114	1.1	50	8	0	2.5	2.8	0.6	0.9	11.52	11.52	12	12
7	18202	1,373,000	7626.70	22.60	80	34	80	1.1	18	32	132	2.5	2.8	0.6	0.9	3.29	4.50	9	9
8	18354	1,395,000	7650.00	22.30	45	35	119	1.1	137	33	0	2.5	2.8	0.6	0.9	5.14	4.25	13	13
9	18472	421,000	7657.00	7.00	154	10	154	1.01	105	12	0	2.5	2.8	0.6	0.9	11.52	11.52	12	12
10	18454	477,000	7654.90	7.90	142	12	142	1.1	92	13	0	2.4	2.9	0.6	0.9	12.47	11.52	13	13
11	185035	487,000	7672.40	7.50	131	11	131	0.93	86	12	0	2.5	2.8	0.6	0.9	11.77	11.70	12	12
12	18555	523,000	7680.50	8.10	119	12	119	0.98	88	12	0	2.3	2.8	0.7	1.0	16.24	11.52	13	13
13	186084	535,000	7699.20	8.70	120	12	120	1.0	84	14	0	2.3	2.8	0.7	1.0	16.24	11.52	13	13
14	187254	1,170,000	7708.50	19.30	114	29	114	1.02	45	29	0	2.0	2.4	0.4	0.9	5.48	3.26	9	9
15	188655	1,511,000	7731.90	23.20	79	35	79	1.0	0	25	150	2.0	2.4	0.4	0.9	5.48	3.26	9	9
16	189140	475,000	7759.40	7.50	68	11	68	1.0	138	0	0	2.2	2.6	0.8	1.0	11.52	11.52	12	12
17	189699	559,000	7759.50	9.10	54	11	11	1.1	137	11	0	2.4	2.9	0.9	1.2	11.52	11.52	12	12
18	190223	534,000	7757.50	8.60	153	13	153	1.1	114	12	0	2.3	2.7	0.6	0.9	16.24	11.52	13	13
19	190812	579,000	7765.50	9.40	159	14	159	1.09	98	16	0	2.6	2.9	0.9	1.4	16.24	11.52	13	13
20	191301	459,000	7774.40	7.90	136	12	136	1.1	87	11	0	2.6	2.9	0.9	1.4	16.24	11.52	13	13
21	192628	1,351,000	7796.30	22.40	92	24	92	1.08	54	32	0	2.5	2.8	0.6	0.9	7.18	1.30	15	15
22	194022	1,380,000	7820.10	23.20	56	36	43	1.08	21	32	0	2.5	2.8	0.6	0.9	7.18	1.30	15	15
23	194541	503,000	7828.10	8.20	71	13	71	1.05	11	10	0	2.4	2.9	0.9	1.2	11.52	11.52	12	12
24	195069	528,000	7836.90	8.60	73	13	73	1.0	0	11	150	2.0	2.4	0.4	0.9	5.48	3.26	9	9
25	195569	594,000	7845.10	9.20	62	12	62	1.08	129	11	0	2.3	2.8	0.6	0.9	7.18	1.30	15	15
26	196039	517,000	7855.30	8.70	56	12	111	0.93	118	10	0	2.3	2.8	0.6	0.9	7.18	1.30	15	15
27	196565	484,000	7861.10	7.80	148	10	148	1.0	118	10	0	2.3	2.8	0.6	0.9	7.18	1.30	15	15
28	197911	1,346,000	7883.40	22.90	116	32	116	1.08	81	36	0	2.4	2.9	0.9	1.2	11.52	11.52	12	12
29	198493	1,387,000	7884.00	23.00	83	33	83	1.08	49	32	0	2.4	2.9	0.9	1.2	11.52	11.52	12	12
30	198643	457,000	7917.00	7.20	71	11	71	0.98	37	12	0	2.4	2.9	0.9	1.2	11.52	11.52	12	12
31	200.76	532,000	7920.60	8.60	59	12	59	0.99	30	13	0	2.4	2.9	0.9	1.2	11.52	11.52	12	12

AVERAGE TOTAL

USE 1994 O-RING BAG STANDARDS. NITROGEN FLOUSILE ACID FULL STRENGTH FOR FLUORINATION AND THE PHOSPHATE FOR FEN

287 12479

NTR. (11 GAL) GAL. PUMPED ELEC. READ DIFF. FL. WT. USED BAD TOT. WT. FL. TEST CL. TANK USED BAD RES. PL. FREE RES. PL. TOT. RES. 6.1ST. FREE RES. 6.1ST. TOT. GAL. PHOS. GAL. USED GAL. 100 GAL. TOT. GAL. PHOS. 1ST. PHOS. 2ND. 3RD.

1	141297	492,000	595.70	9.20	147	11	147	1.03	38	12	0	2.1	2.4	0.7	0.9	2.61	1.53	11.29	15
2	141378	81,000	597.00	1.30	145	2	145	1.06	36	2	0	2.1	2.5	1.1	1.2	14.83	0.17		15
3	141844	468,000	597.40	7.40	134	11	134	1.1	26	10	0	3.0	2.5	0.9	1.2	12.47	1.70		13
4	142210	366,000	598.20	5.90	126	8	126	1.1	20	6	0					12.79	0.68		12
5	143155	595,000	595.70	15.50	103	23	103	1.04	120	10	150					9.09	3.40		9
6	143814	548,000	706.10	10.40	89	14	89	1.04	120	10	0	2.1	2.5	0.6	0.9	8.03	1.26		9
7	144255	471,000	701.30	7.40	110	43	110	1.05	125	13	0	2.1	2.7	0.4	0.7	8.04	1.19		7
8	144744	459,000	700.70	7.20	112	10	112	1.1	117	8	0	2.2	2.5	0.5	0.8	5.48	1.26		5
9	145164	420,000	707.40	5.70	103	9	103	0.9	108	9	0	2.0	2.4	0.1	0.9	4.79	1.19	18.71	15
10	145518	454,000	703.60	7.20	94	9	94	1.09	98	10	0	2.1	2.6	0.4	0.7	12.98	1.02		14
11	146037	419,000	784.20	6.50	85	9	85	1.0	90	8	0					12.79	1.19		13
12	147295	1,259,000	705.10	20.50	55	30	55	0.91	28	32	0	1.0	2.3	0.6	0.8	8.88	2.91		3
13	148581	1,385,000	706.40	27.70	31	34	135	0.91	28	32	0	1.0	2.3	0.6	0.8	8.88	2.91		3
14	149099	418,000	709.10	6.70	148	8	148	1.08	26	7	0	1.0	1.3	0.4	0.7	1.40	1.28	11.26	15
15	149117	181,000	709.10	0.20	147	1	147	0.93	25	1	0	0.9	1.2	0.6	0.8	14.83	0.17		15
16	149591	474,000	709.80	7.50	137	0	137	1.1	15	10	0	2.5	2.0	0.8	1.2	12.47	1.70		13
17	150045	454,000	716.30	7.20	128	9	128	1.1	4	11	146	2.2	2.5	0.5	0.9	12.11	1.26		13
18	150481	436,000	711.90	5.90	119	9	119	1.1	147	8	0	1.0	1.3	0.4	0.7	1.40	1.28		15
19	151583	1,102,000	7130.80	17.90	96	23	96	1.1	116	36	0					1.21	2.74		8
20	152027	1,344,000	712.70	21.90	56	30	66	0.99	91	30	0	1.3	2.6	0.5	0.8	3.78	2.74		4
21	152375	449,000	719.90	7.00	57	9	57	0.93	76	19	0	2.6	2.4	0.7	0.8	2.42	2.5		5
22	152950	574,000	715.00	9.20	45	11	46	0.96	63	13	0	1.0	1.3	0.4	0.7	1.40	1.28		15
23	154092	442,000	715.00	7.00	36	10	138	1.1	54	9	0	2.1	2.6	0.9	1.2	12.47	1.70		13
24	154842	450,000	718.40	7.40	154	10	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
25	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
26	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
27	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
28	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
29	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
30	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15
31	154842	0	718.40	0.00	154	0	154	1.1	42	12	0	1.0	1.3	0.4	0.7	1.40	1.28		15

AVERAGE TOTAL

14,038,000 207.96 210

WE USE 1500 CHLORINE GAS CYLINDERS, 12.5% HYPOCHLORITE ACID FULL STRENGTH FOR FLUORINATION AND 2.5% PHOSPHATE FOR 1500

1500 CHLORINE GAS CYLINDERS, 12.5% HYPOCHLORITE ACID

1500 CHLORINE GAS CYLINDERS, 12.5% HYPOCHLORITE ACID

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MONTH OF *April* 1991WELL # *6*

WATER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL DIST. SJ3 TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST
1 141247	493.000	108.5	8.2	149	1			102	38	12	24	9	24.1	153	11.98	15	
2 141328	51.000	049.70	1.3	105	1.2			104	20	2	3.5	1.1	1.3	14.23	1.27		
3 141644	506.000	089.4	7.4	114	1.1			111	26	10	20	1.4	12	13.97	1.32		
4 142210	306.000	008.00	5.8	108	8				20	0			12.74	0.8			
5 143166	750.000	004.85	15.5	103	3.2				2	0			8.79	3.40			
6 143814	698.000	030.00	10.7	81	12			104		12	10	2.1	8.03	1.16			
7 144285	971.000	030.15	7.4	79	10	4.3	12.2	10.5		3	16.5	2.4	2.2	6.87	1.9		
8 144744	459.000	070.20	7.2	112	10			111		8	10.2	2.8	5.3	5.48	1.22		
9 145164	420.000	079.27	6.7	102	9			9		7	10.8	2.6	2.4	6	10.78	10.78	
10 145618	454.000	070.76	7.2	94	8			107		10	18	2.1	2.0	7	10.78	10.78	
11 146037	419.000	070.41	6.6	85	9					8	9.0			12.74	1.02		
12 147296	1357.000	070.61	20.5	85	70				30	0			1.18	3.91			
13 148600	1363.000	070.34	22.7	2	70	135	135	9		32	28	2.4	2.2	7.10	4.08		
14 149090	419.000	070.11	6.7	105	8			108		7	10	1.5	1.3	3.20	1.50		
15 149117	15.000	070.13	1.2	172	1			173		1	1.2	2	5	12.62	7		
16 149591	434.000	070.05	7.5	137	10			147		10	10	2.5	2.0	8	10.78	10.78	
17 150045	457.000	070.00	2.2	21	7			10		10	10	2.5	2.0	8	10.78	10.78	
18 150481	434.000	070.12	6.9	10	7			10		10	10	2.5	2.0	8	10.78	10.78	
19 150553	116.000	070.18	7.8	10	23			10		10	10	2.5	2.0	8	10.78	10.78	
20 150927	1574.000	070.12	21.8	40	20			95		20	20	2.5	2.0	8	10.78	10.78	
21 152030	790.000	070.18	7.1	57	9			91		9	9	2.5	2.0	8	10.78	10.78	
22 152492	172.000	070.00	7.2	10	11			90		11	11	2.5	2.0	8	10.78	10.78	
23 153082	502.000	070.00	7.0	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
24 154142	551.000	070.12	7.4	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
25 155042	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
26 155112	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
27 155142	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
28 155142	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
29 155142	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
30 155142	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
31 155142	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	
32 155142	—	070.12	—	10	10			10		10	10	2.5	2.0	8	10.78	10.78	

FOR THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 1500 PSI CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

TYPICAL ALBERTA WATER SUPPLY
CERT 42439

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED	CHL. TANK	RESIDUAL FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. SYS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 121 536	110,000	40044.5	17.9	96	20			100	150	22	18	21	20	4	9	7.55	102	
2 122 024	48,000	40029.1	7.8	97	9			100	10	12	6	26	25	5	7	6.0	90	
3 122 460	450,000	40061.6	6.9	80	7			100	100	6	15	15	18	6	3	4.97	153	1003
4 122 928	468,000	40068.7	7.4	72	8			9	100	8	10	18	20	8	6	19.22	68	
5 123 322	404,000	40077.8	9.4	45	7	90	105	99	100	10	6	20	25	5	7	12.46	130	
6 123 681	350,000	40060.5	27	73	7				120	10						12.28	08	
7 124 892	120,000	40040.1	19.6	77	21				94	20						8.58	270	
8 126 140	128,000	40220.5	20.4	55	32	108	163	107	65	10		20	25	9	5.01	257		
9 126 594	450,000	40227.8	7.2	153	10			105	55	10		22	26	6	3.65	130	1135	13
10 127 037	423,000	40230.8	7.0	195	8			121	100	10		23	26	4	7	2.81	119	
11 127 487	450,000	40241.9	7.1	138	10			104	100	11		20	23	3	6	12.20	30	
12 127 959	476,000	40249.0	7.5	120	9			91	23	11		20	20	6	9	10.0	170	
13 128 296	357,000	40253.7	5.3	110	7				10	7	120					10.17	120	
14 129 711	1181,000	40275.0	18.3	74	32			91	5	10						8.88	331	
15 130 728	1250,000	40284.0	21.0	72	34	70	113	91	10	10		22	26	4	7	3.08	310	1140
16 131 210	481,000	40287.8	7.6	109	9			90	10	10		20	20	10	9	2.58	10	
17 131 677	461,000	40289.2	7.8	85	9			85	10	10		20	20	10	9	2.58	10	
18 132 184	517,000	40290.7	8.2	80	10			70	10	10		20	20	10	9	2.58	10	
19 132 650	462,000	40297.7	22.13	75	9	87	102	102	10	10		20	20	10	9	2.58	10	
20 133 066	408,000	40291.1	14.4	153	9			10	10	10		20	20	10	9	2.58	10	
21 134 254	1193,000	40290.4	19.3	127	20			10	10	10		20	20	10	9	2.58	10	
22 135 577	135,500	40292.0	21.0	79	28			10	10	10		20	20	10	9	2.58	10	
23 136 078	500,000	40283.6	8.6	134	11			10	10	10		20	20	10	9	2.58	10	
24 136 554	408,000	40282.5	20.7	127	11			10	10	10		20	20	10	9	2.58	10	
25 137 063	500,000	40285.0	9.1	87	9	42		10	10	10		20	20	10	9	2.58	10	
26 137 576	408,000	40292.9	7.3	130	10			10	10	10		20	20	10	9	2.58	10	
27 137 972	390,000	40290	4.0	10	9			10	10	10		20	20	10	9	2.58	10	
28 138 134	121,000	40293.7	19.0	54	30			10	10	10		20	20	10	9	2.58	10	
29 139 477	108,000	40294.0	21.0	50	30			10	10	10		20	20	10	9	2.58	10	
30 140 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
31 141 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
32 142 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
33 143 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
34 144 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
35 145 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
36 146 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
37 147 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
38 148 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
39 149 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
40 150 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
41 151 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
42 152 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
43 153 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
44 154 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
45 155 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
46 156 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
47 157 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
48 158 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
49 159 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
50 160 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
51 161 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
52 162 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
53 163 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
54 164 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
55 165 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
56 166 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
57 167 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
58 168 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
59 169 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
60 170 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
61 171 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
62 172 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
63 173 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
64 174 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
65 175 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
66 176 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
67 177 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
68 178 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
69 179 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
70 180 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
71 181 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
72 182 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
73 183 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
74 184 504	357,000	40297.5	26	15	10			10	10	10		20	20	10	9	2.58	10	
75 185 504	357,000	4029																

WELL # 6

SYNCHRO FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEWELL COUNTY

NORTH OF 212224

1996

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. OR. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. STS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST BBS
1 112.655		06501.1		127				108	74	1.1	1.5	9	5.18				
2																	
3																	
4 112.555		06501.7		127				91	74	1.0	1.3	9	5.88				
5								105		9	1.2	10	6.7				
6								106		4.1	1.3	9	8				
7								109		1.2	1.3	2.2	4.1				
8 112.555		06501.3		125				102	74	1.5	1.8	3	8.58				
9																	
10																	
11								104		1.4	1.7	5	8				
12 112.555		06501.3		127				92	74	1.2	1.5	3	8.58				
13								105		1.4	1.8	5	8				
14								109		1.2	1.5	3	8				
15								97		1.2	1.6	4	7				
16																	
17																	
18 112.572	47202	06502.0	0.3	126	1			107	73	1.3	1.5	2	8				
19 113.047	47500	06503.0	1.5	115	11			103	74	1.2	1.5	9	7.23				
20 113.522	45300	06504.0	1.2	128	12			104	75	1.4	1.8	4	6.25				
21 113.919	77900	06504.3	0.4	91	12			103	74	1.5	1.8	2	5.23				
22 114.455	47600	06505.0	0.7	87	9	14	12	105	74	1.4	1.7	3	9				
23 114.815	36000	06505.6	0.6	111	1			107	74	1.3	1.5	2	8				
24 115.873	10500	06506.1	1.2	84	5			105	74	1.2	1.5	1	10.23				
25 117.111	123500	06506.1	20.1	16	16			105	74	1.2	1.5	1	10.23				
26 117.602	49100	06506.6	0.5	108	4			107	74	1.3	1.5	2	8				
27 118.034	98500	06507.0	0.4	83	8	108	107	107	74	1.3	1.5	2	8				
28 118.503	79000	06507.3	0.3	107	9			107	74	1.3	1.5	2	8				
29 118.830	42000	06507.8	0.5	87	8			107	74	1.3	1.5	2	8				
30 119.500	49000	06508.3	0.5	87	8			107	74	1.3	1.5	2	8				
31 120.725	120900	06508.8	0.5	87	8			107	74	1.3	1.5	2	8				
32																	
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WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FAL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

 SYDNEY ALBERTSON, WATER SUPT.
 CERT. #2409

WELL # 6

SICAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MONTH OF Feb 1997

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. SYS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 097880	487,000	062068	7.7	115	13			607	143	7	2.0	2.3	6	10.24	1.9	
2 1098315	355,000	002224	5.6	106	9				133	4			8.59	46		
3 1099502	1187,000	002917	19.3	73	53				122	19			6.50	2.89		
4 1100777	1275,000	065125	20.8	32	34	125	162	87	98	24	2.0	3.5	3.22	2.23	11.73	15
5 101237	502,000	063249	9.4	196	14			609	84	12	1.6	3	6	1.64	1.36	
6 101840	503,000	063045	7.0	130	16			394	78	8	1.5	1.9	1.7	12.28	1.74	
7 102496	456,000	063368	7.3	120	10			102	70	8	1.4	2.1	6	11.08	1.19	
8 102811	555,000	063450	8.2	105	15			511	60	10	2.0	2.3	7	9.90	1.19	
9 103171	360,000	063507	5.7	96	9				54	6			2.28	1.02		
10 104757	1080,000	063683	17.6	67	29				35	19			5.51	2.84		
11 105482	1235,000	063883	20.0	33	34	32	55	111	15	20	1.8	3.1	3	2.16	3.13	17.24
12 105934	506,000	063963	8.0	42	13	123	164	169	2	1	1.5	1.8	6	1.0	1.34	
13 106410	426,000	064035	6.7	153	10			108	6	194	1.2	2	7	12.79	1.35	
14 106604	484,000	064107	7.7	190	13			85	6	135	1.8	3	3	11.00	1.53	
15 107326	452,000	064175	6.8	129	11			11	7	12	1.6	2	2	10.57	1.19	
16 107720	344,000	064234	6.3	119	10				6	124			8.11	1.02		
17 108920	1230,000	064453	19.5	57	32				1	100			3.71	5.6		
18 110188	1808,000	064940	20.7	53	39	29	84	129	24	81	1.7	3	3	3.18	3.23	15
19 110615	435,000	064705	6.8	70	12			10		5	1.5	2	2	2.72	1.04	
20 111189	576,000	064806	4.2	55	15				2	60	1.3	2	2	1.76	1.3	
21 111614	125,000	064808	6.8	151	12			109	6	12	1.2	2	3	2.0	1.9	
22 112109	445,000	064906	7.8	134	12			102			1.2	2	2	2.2	1.2	
23 112555	726,000	065012	7.1	121	12				7	20			4.21			
24 112655		065119		121									3.88			
25 112855		065008		127									3.82			
26 112855		065008		127									3.82			
27 112855		065008		127									3.82			
28 112855		065008		127									3.82			

15,085.00

242.0

02.10

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 255 HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYDNEY ALBRECHT, WATER SUPPLY
CENT. #2439

SYNCHRO FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. 328	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISH
1 022065	1222.00	6542.7	19.8	50	30				23.25				2.70	3.00	12.24	10
2 022231	1122.00	6544.4	19.2	31	29	30			21.58				2.10	2.81		
3 022405	704.00	6547.2	7.3	43	2		10.2		9.40	1.7	2		2.05	1.38		
4 022490	422.00	6548.3	7.1	50	15	108	9		7.38	1.6	1.9		6.0	3.10	60	
5 022571	231.00	6549.2	6.9	155	13				5.30				8.52	1.20		
6 022724	1122.00	6549.2	19.4	118	30				22.30				2.82	2.20		
7 022809	1240.00	66010.4	30.3	52	57				23.81	1.8	2.1	10	2.77	2.83	12.07	10
8 022454	405.00	66018.0	7.7	70	12	30			12.4	1.5	2.2	7	1.70	30		
9 022484	732.00	66024.8	6.8	80	11				11.80	1.7	2.0	6	1.82	1.00		
10 023398	500.00	66032.4	5.1	8	12				10.0	1.7	2	5	1.60	1.73		
11 023367	558.00	66037.2	9.1	82	34	61	25		10.30	1.9	2.2	3	1.87	1.19		
12 024346	434.00	66071.9	4.9	50					9.0				8.20	1.19		
13 025471	1170.00	66080.3	19.7	121	12				10.20				4.33	1.89		
14 026780	1325.00	66145.1	2.0	81	34	1	30		10.30	1.9	2.7		3.10	2.83	16.90	10
15 027330	541.00	66240.0	9.7	12	50				10.30	1.9	2.0	1	1.60	1.00		
16 027223	345.00	66252.7	6.1	110	6				10.30	1.9	2.0	1	1.60	1.00		
17 028154	423.00	66261.3	6.9	40					10.30	1.9	2.0	1	1.60	1.00		
18 028161	402.00	66261.8	7.3	50	2	83	21		10.30	1.9	2.0	1	1.60	1.00		
19 028993	375.00	66262.1	5.2	50	1				10.30	1.9	2.0	1	1.60	1.00		
20 029024	1110.00	66261.1	5.9	108	30				10.30	1.9	2.0	1	1.60	1.00		
21 028124	340.00	66261.2	2.4	51	30				10.30	1.9	2.0	1	1.60	1.00		
22 0281832	421.00	66261.7	4.3	1	17				10.30	1.9	2.0	1	1.60	1.00		
23 022354	520.00	66261.1	3.9	7	8	8			10.30	1.9	2.0	1	1.60	1.00		
24 0223801	600.00	66261.1	3.0	10	10				10.30	1.9	2.0	1	1.60	1.00		
25 023282	700.00	66261.7	7.6	24	6				10.30	1.9	2.0	1	1.60	1.00		
26 023254	310.00	66261.1	3.7	50	12				10.30	1.9	2.0	1	1.60	1.00		
27 024308	600.00	66261.1	3.7	30	10				10.30	1.9	2.0	1	1.60	1.00		
28 024324	300.00	66261.1	3.7	10	10				10.30	1.9	2.0	1	1.60	1.00		
29 024328	300.00	66261.1	3.7	10	10				10.30	1.9	2.0	1	1.60	1.00		
30 024300	300.00	66261.1	3.7	10	10				10.30	1.9	2.0	1	1.60	1.00		
31 024323	300.00	66261.1	3.7	10	10				10.30	1.9	2.0	1	1.60	1.00		

WE USE 150A CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONEY ALBRECHT, WATER SUPPLY
CENT. #2419

WELL # 6

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DECATS COUNTY

NORTH OF

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	TOTAL WEIGHT ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. STS	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. DIST
1 053 657	37 600	05574	57	121	10			40	6				12.81	6.19			
2 1054 793	116 200	05699	185	96	31			18	20				30.20	5.04			
3 1056 106	1 312 000	05810	216	73	27	57	57	2	18	100	16		1.8	7.85	3.40		
4 1056 581	453 000	05824	77	22	6		161		7	102	18		2.0	6.80	1.8		
5 1057 041	453 200	05866	72	60	12		102		4	102	20		2.4	5.31	1.0		
6 1057 605	654 200	05917	109	42	14	124	102		11	94	20		2.4	3.28	1.53	4.20	15
7 1058 128	453 000	05929	64	157	12		109		7	109	14		1.8	1.88	1.02		
8 1059 438	310 200	05945	41	150	9				4	106			2.04	1.75			
9 1059 676	17 58 000	05949	219	115	37				19	92			9.03	3.23			
10 1060 979	1 323 200	05975	216	71	32		106		24	72	15		1.9	5.05	3.20		
11 1061 419	941 200	05975	72	65	12		91		9	02	10		2.0	7.03	1.00		
12 1061 869	556 200	05987	73	52	13	5	102		29	55	10		3.1	4.01			
13 1062 310	442 200	05991	71	63	13		71		2	50	15		2.0	1.81	1.01		
14 1062 752	454 200	06002	64	100	13	115	102		2	55	15		1.9	1.81	1.01		
15 1063 120	372 200	05994	57	157	9				1	56				12.20	1.01		
16 1064 274	1152 000	05993	187	53	20				22	10			9.90	3.00			
17 1065 525	126 200	05993	205	51	2		124		22	2			1.2	7.01	3.89		
18 1065 972	442 000	05997	71	25	12	71	116		22	8			2	1.8	1.8		
19 1066 394	422 200	05997	68	10	0		116		2	6	15		1.8	7.21	2.0		
20 1066 865	458 000	06000	72	12	7				2	10	2		2	1.8	1.8		
21 1067 281	422 200	06002	45	8	12	85	105		2	0			2.22	1.8			
22 1067 672	367 200	06000	57	53	10				2	5			1.8	1.8			
23 1068 009	222 200	06000	45	25	12				2	5			1.8	1.8			
24 1070 057	219 200	06000	45	10	12				2	5			1.8	1.8			
25 1071 144	154 200	06000	45	10	12				2	5			1.8	1.8			
26 1072 234	102 200	06000	45	10	12				2	5			1.8	1.8			
27 1072 645	453 200	06000	67	8	12				2	5			1.8	1.8			
28 1073 051	432 200	06000	69	12	12				2	5			1.8	1.8			
29 1073 720	302 200	06000	62	12	12				2	5			1.8	1.8			
30 1074 200	114 200	06000	45	10	12				2	5			1.8	1.8			
31 1075 300	219 200	06000	45	10	12				2	5			1.8	1.8			

WE USE 150M CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSULFURIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYCAMORE FLUORIDATION, WATER SUPPLY, DECATS COUNTY, MISSISSIPPI

WELL NO. 6

SYNCHRO FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEALB COUNTY

MONTH OF JANUARY 1955

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. SITS	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 032294	42,000	052046	6.8	1.7	1.3			65	9	1.2	1.2	2	0.62	1.02		
2 032258	514,000	052221	8.1	1.3	1.4	2.2	7.5	53	7	6.5	1.8	5	7.23	1.36		
3 032339	444,000	052591	7.6	3.103	1.2			52	6				8.20	1.08		
4 032314	1,025,000	052867	12.6	8.2	3.1			38	14				5.98	2.22		
5 032344	7,315,000	052587	22.0	4.5	3.7	1.22	10.7	15	23	1.1	2.0	4	2.80	3.23	12.24	18
6 032453	524,000	052668	8.1	1.65	1.4			9	6	1.8	2.1	2	1.80	1.18		
7 032630	427,000	052744	7.6	1.46	1.3	2.1	12.1	11.6	2	7	1.5	1.8	2	12.04	1.18	
8 032745	505,000	052835	9.1	1.26	2.1			11.2	8	6.2	6.5	2.0	2	12.08	1.18	
9 032769	474,000	052911	7.6	1.42	8			1.8	6	1.4	1.5	1.9	4	12.07	1.18	
10 032821	402,000	052935	6.4	1.31	1.2				6	1.36			9.15	1.02		
11 032786	1,169,000	052956	18.1	1.20	3.6				3				6.18	1.12		
12 032617	7,327,000	053076	22.6	6.3	3.3			11	9	1.7	2.0	4	2.83	3.23	12.24	18
13 032678	461,000	053451	7.4	1.45	1.5			1.04	6	1.4	1.5	1.9	4	12.07	1.18	
14 032441	608,000	053524	7.4	5	2.3	1.2	7.6	1.2	6	1.4	1.5	1.9	4	12.07	1.18	
15 032420	752,000	053571	7.3	1.23	1.3			1.18	4	1.4	1.5	1.9	4	12.07	1.18	
16 032355	483,000	053616	2.9	1.25	1.5			1.09	4	1.4	1.5	1.9	4	12.07	1.18	
17 032277	376,000	053518	6.4	1.21					4	1.4	1.5	1.9	4	12.07	1.18	
18 032421	1,242,000	053494	20.3	9.1	3.6			1.10	10	1.4	1.5	1.9	4	12.07	1.18	
19 032522	1,240,000	053477	20.6	5.5	7.0	1.4	4	1.1	13	1.4	1.5	1.9	4	12.07	1.18	
20 032650	520,000	053421	6.5	6.8					13	1.4	1.5	1.9	4	12.07	1.18	
21 032618	562,000	053284	8	7.1	4	1.2	10.8		12	1.4	1.5	1.9	4	12.07	1.18	
22 032600	4,211,000	052619	6.5	7	3			1.02	10	1.4	1.5	1.9	4	12.07	1.18	
23 032703	3,763,000	052727	16.1	18	2				10	1.4	1.5	1.9	4	12.07	1.18	
24 032746	1,122,000	052726	19.8	9.4	12				10	1.4	1.5	1.9	4	12.07	1.18	
25 032525	1,253,000	052761	20	7.1	3	1.2	9.5		10	1.4	1.5	1.9	4	12.07	1.18	
26 032484	1,243,000	052721	21.6	7.0	8				10	1.4	1.5	1.9	4	12.07	1.18	
27 032477	720,000	052729	7.2	6.2	3	1.2	16.2		10	1.4	1.5	1.9	4	12.07	1.18	
28 032432	721,000	052713	7.5	7.5	2				10	1.4	1.5	1.9	4	12.07	1.18	
29 032392	721,000	052713	7.5	7.5	2				10	1.4	1.5	1.9	4	12.07	1.18	
30 032310	721,000	052713	7.5	7.5	2				10	1.4	1.5	1.9	4	12.07	1.18	

5120

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON.

VERIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYDNEY ALBRECHT, WATER SUPT.
CERT. #2439

WELL # 1

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

MOUTH OF COLUMBIA

1990

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. HEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. STS	GALS. PHOSPHATE USED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST
1 011 464	157,200	046455	22.91	44	37	42	120	1.08	92	28	18	1.8	3.2	11.5	15	
2 1011 959	505,000	048749	8.9	85	10	8	100	1.00	80	12	10	1.0	1.0	1.0		
3 0112 465	504,000	048558	8.1	72	13		104	1.04	70	10	10	1.0	1.0	1.0		
4 1012 929	474,000	048304	7.6	54	13		100	1.00	60	10	10	1.0	1.0	1.0		
5 1013 412	473,000	048080	7.6	48	11	110	107	0.98	94	12	10	1.0	1.0	1.0		
6 1013 785	476,000	049241	6.1	183	11				41	3			1.2			
7 1015 074	1,280,000	049251	21.0	116	32				70	21			3.2	11.5		
8 1016 257	1,195,000	049497	12.6	84	32		100	1.00	60	10	10	1.0	1.0	1.0		
9 1016 724	461,000	049522	7.5	72	12	50	100	1.00	9	9	10	1.0	1.0	1.0		
10 1017 140	460,000	049538	6.0	60	12			1.00	8	10	10	1.0	1.0	1.0		
11 1017 618	476,000	049668	7.6	95	11			0.95	8	10	10	1.0	1.0	1.0		
12 1018 114	448,000	049742	7.8	72	13	25	105	1.05	5	10	10	1.0	1.0	1.0		
13 1018 754	503,000	049803	6.7	154	11				3	10			1.0	1.0		
14 1019 080	622,000	050000	19.7	130	50				8	10			1.0	1.0		
15 1019 385	1391,000	050014	21.4	85	36				5	10	10	1.0	1.0	1.0		
16 1021 522	460,000	050283	6.9	74	11			0.93	5	10	10	1.0	1.0	1.0		
17 1021 758	500,000	050365	8.2	80	10	50	110	1.10	6	10	10	1.0	1.0	1.0		
18 1022 347	449,000	050437	7.6	105	12			0.98	8	10	10	1.0	1.0	1.0		
19 1023 731	540,000	050822	8.1	90	15			1.10	8	10	10	1.0	1.0	1.0		
20 1023 773	702,000	050858	6.2	60	6				5	10	10	1.0	1.0	1.0		
21 1024 503	1,176,000	050778	19.1	48	72				5	10	10	1.0	1.0	1.0		
22 1025 701	288,000	050844	21	34	24				2	10	10	1.0	1.0	1.0		
23 1026 233	470,000	051107	8.2	26	14				3	10	10	1.0	1.0	1.0		
24 1026 710	710,000	050985	7.6	18	1				2	10	10	1.0	1.0	1.0		
25 1027 200	450,000	051224	7.1	20	1				2	10	10	1.0	1.0	1.0		
26 1027 724	460,000	051139	7.2	24	1				2	10	10	1.0	1.0	1.0		
27 1028 555	470,000	051306	8.1	20	1				2	10	10	1.0	1.0	1.0		
28 1029 043	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
29 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
30 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
31 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
32 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
33 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
34 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
35 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
36 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
37 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
38 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
39 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		
40 1029 241	270,000	051306	22.1	12	1				3	10	10	1.0	1.0	1.0		

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32# PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYDNEY ALBRECHT, WATER SUPT.
C 12/29

WELL # 6

STEAMBOILER FLUORINATION, CHLORINATION & PHOSPHATE REPORT

DEWALL COUNTY

MONTH OF OCT 1990

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. CHL. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. USED TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL DIST. FREE	SIS TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST
1 988 121	530.00	04485.6	8.5	100.55				0	14.150				8.18	1.9		
2 989 383	1202.00	04506.1	20.5	69.31	17	86		30.920					6.65	3.23		
3 990 628	1205.00	04526.5	20.4	53.33	105	158		30.98					7.74	1.23	12.74	15
4 991 913	1285.00	04547.6	21.1	125.33			10		30.24	2.2	6.3	7	1.85	3.08		
5 992 408	485.00	04555.6	8.0	112.13			1.15		14.40	2.3	5.5	8	1.34	1.19		
6 993 595	537.00	04564.2	8.6	98.14			1.05		24.26	2.1	2.4	7	9.40	1.86		
7 993 403	454.00	04571.4	7.2	57.11	42	129	1.04		13.13	2.7	6	10	7.18	1.28		
8 993 854	457.00	04578.0	7.2	118				12.11					7.10	3.00		
9 995 155	480.00	04588.4	21.3	84.35				11.8								
10 996 419	1264.00	04610.2	20.8	54.44	34	110	1.19		92.32	2.5	5	7	11.77	3.63		
11 996 852	533.00	04618.4	8.7	145.15				68.12		2.2	1.5	7	12.9	1.20		
12 997 409	573.00	04632.1	8.3	132.13			9.2		54.24	2.7	2.4	6	8.28	2.02		
13 998 204	455.00	04640.3	8.2	1			3.4		17.5	2.3	3	5	7.80	1.53		
14 998 505	521.00	04654.3	8.9	125.13	39	144	1.02		28.12	1.8	6	9	8.82	1.92	8.10	61
15 998 902	487.00	04660.7	6.4	133				14.12					24.15	4.65		
16 1000 104	1262.00	04681.5	20.8	121.13				8.18					11.72	3.43		
17 1001 504	536.00	04693.7	22.2	58.32				22.28		1.5	2	7	7.69	9.33		
18 1002 100	548.00	04701.1	7.4	105.13			1.05		3.42	2.2	2	2	4.13	2.2		
19 1002 331	734.00	04717.1	7.0	152.13			1.12		4.12	1.7	2	2	5.03	9.33		
20 1002 717	383.00	04725.8	6.1	142			1.17		4.08	1.9	2	2	4.8	1.20		
21 1002 525	488.00	04730.0	2.2	126.13			1.12		9.42							
22 1003 408	423.00	04735.5	7.7										1.79	3.0		
23 1004 804	1196.00	04750.2	14.7	12									1.13	3.0		
24 1006 135	133.00	04754.2	22.0	71.36												
25 1006 795	573.00	04762.6	4.3	79			1.07									
26 1007 253	485.00	04773.5	7.8	44	13	84	1.02									
27 1007 784	573.00	04780.1	8.1	24												
28 1008 392	558.00	04785.5	9.1	32												
29 1008 580	1264.00	04792.3	7.7	121.13												
30 1008 580	1264.00	04792.3	7.7	121.13												

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.
 COUNTY ALBUQUERQUE, WATER SUPPLY

WELL # 6

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

MONTH OF Dec 1932

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT USED	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CAL. TANK	RESIDUAL PLANT	RESIDUAL DIST. SYS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 965 919	458 33	041 30 0	7.8	16 13	12	12	12	1.9	12	2.0	7	2.0	16.2		
2 966 439	520 10	041 38 4	8.2	9.2	14	14	14	7.5	14	2.6	7	7.0	1.34		
3 966 960	551 22	041 46 7	5.7	1.5	15	15	15	7.1	15	2.6	15	6.3	1.8	8.27	10
4 967 945	455 22	041 53 8	7.1	14.7	12	12	12		12	2.6	12	1.0	1.41		
5 968 729	1284 41	041 54 5	22.7	1.1	34	34	34	1.1	34	2.7	34	1.0	1.23		
6 970 088	1259 20	041 56 6	22.1	7.2	39	39	39	1.1	39	2.7	39	1.0	1.23		
7 970 583	1455 40	042 04 4	7.8	5.7	15	15	15	1.1	15	2.7	15	1.0	1.23		
8 971 092	514 22	042 12 9	8.0	10.9	14	14	14	7.1	14	2.6	14	1.0	1.23		
9 971 589	482 00	042 20 2	7.8	9.0	13	13	13	1.05	13	2.6	13	1.0	1.23		
10 972 164	520 10	042 28 4	8.2	8.1	15	15	15	1.03	15	2.6	15	1.0	1.23		
11 972 495	384 10	042 34 5	6.1	15.1	12	12	12		12	2.6	12	1.0	1.23		
12 973 929	1255 20	042 40 3	21.8	1.5	36	36	36		36	2.6	36	1.0	1.23		
13 975 172	1291 20	042 47 7	7.7	7.7	13	13	13	1.04	13	2.6	13	1.0	1.23		
14 975 618	713 20	042 56 6	7.6	6.7	13	13	13	1.01	13	2.6	13	1.0	1.23		
15 976 214	550 22	043 00 3	9.3	11.1	16	16	16	1.0	16	2.6	16	1.0	1.23		
16 976 771	502 22	043 08 3	9.0	10.1	16	16	16	1.0	16	2.6	16	1.0	1.23		
17 977 333	462 22	043 16 6	7.8	8.9	12	12	12	1.0	12	2.6	12	1.0	1.23		
18 977 779	456 22	043 18 4	7.6	15.1	13	13	13		13	2.6	13	1.0	1.23		
19 978 989	1260 20	043 26 8	20.0	11.7	22	22	22		22	2.6	22	1.0	1.23		
20 980 372	1384 10	043 31 4	22.0	8.4	22	22	22	1.11	22	2.6	22	1.0	1.23		
21 980 594	523 20	043 39 5	8.7	7.1	13	13	13	1.1	13	2.6	13	1.0	1.23		
22 981 378	455 20	043 47 4	7.6	6.5	11	11	11	1.1	11	2.6	11	1.0	1.23		
23 981 884	514 20	043 56 4	8.0	12.3	12	12	12	1.1	12	2.6	12	1.0	1.23		
24 982 378	484 20	044 03 2	7.8	11.5	11	11	11	1.1	11	2.6	11	1.0	1.23		
25 982 783	405 20	044 10 4	6.4	12.1	9	9	9	1.1	9	2.6	9	1.0	1.23		
26 984 114	1351 10	044 17 2	21.6	6.9	30	30	30		30	2.6	30	1.0	1.23		
27 985 512	1315 10	044 24 7	23.2	3.1	38	38	38		38	2.6	38	1.0	1.23		
28 986 145	812 20	044 32 2	9.8	15.0	12	12	12	1.1	12	2.6	12	1.0	1.23		
29 986 584	514 20	044 40 2	7.6	14.3	11	11	11	1.1	11	2.6	11	1.0	1.23		
30 987 129	520 20	044 48 0	8.3	12.6	11	11	11	1.1	11	2.6	11	1.0	1.23		
31 987 591	482 20	044 55 7	7.0	11.5	10	10	10	1.1	10	2.6	10	1.0	1.23		

22 220 361 567

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONEY ALBERT, WATER SUP.

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL FREE	TOTAL	GALS. USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 945745	1288.000	03808.4	20.6	77	35			0	30	50				20.8	30.2		
2 1947095	1380.000	03830.1	21.7	78	29	117	155	1.08									
3 947592	907.000	03873.1	20	145	12			1.01									
4 947966	424.000	03853.7	66	131	12												
5 949328	1350.000	03865.5	31.60	98	24	117	105										
6 949787	409.000	03872.5	7.4	100	13	50	100	1.00									
7 950728	309.000	03880.5	8.0	100	14												
8 951567	1209.000	03901.3	20.40	104	37			5.9	32	0							
9 952854	1287.000	03922.2	20.90	26	37	92	104	1.06									
10 953338	484.000	03929.8	7.6	150	74			1.04									
11 953793	455.000	03937.0	7.2	128	12			1.05									
12 954351	551.000	03945.8	8.8	123	15			1.02									
13 954781	440.000	03952.7	6.9	111	12			1.0									
14 955743	355.000	03958.2	5.5	101	10			1.2									
15 956201	1119.000	03977.3	19.1	69	32			3.8									
16 957621	1285.000	03985.0	20.7	37	35	128	102	9									
17 958108	487.000	04005.7	7.7	148	14												
18 958666	578.000	04017.9	8.2	131	15			1.01									
19 959116	440.000	04026.6	7.7	200	18			1.0									
20 959612	440.000	04029.4	7.8	104	14			1.04									
21 960051	450.000	04036.3	6.9	81	11												
22 961387	1310.000	04037.8	21.8	87	38	22	74										
23 962784	1317.000	04070.2	21.4	43	36	120	103	9									
24 963224	520.000	04087.2	9.0	194	14			1.0									
25 963697	440.000	04094.9	7.7	110	13												
26 964198	450.000	04097.7	7.8	82	10												
27 964717	519.000	04098.8	8.1	118	10												
28 964714	250.000	04099.1	3.3	112	6												
29 964916		04100.1		112													
30 964916		04101.1		112													
31 964941	505.000	04106.5	7.9	104	13												
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SYCAMORE FLUORINATION, CHLORINATION & PHOSPHATE REPORT

DECATS COUNTY

MONTH OF JUNE 1990

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. SIZ TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 924 200	405 000	034 092	6.4	176	11		124	72	72	22	22	72	1124	102		
2 924 800	492 000	034 368	7.6	176	12			72	84				1082	112		
3 925 955	1155 000	034 551	18.5	116	32			38	8				827	203		
4 927 250	1201 000	035 559	20.8	72	34		177	8	52	22	22	7	588	272	920	13
5 928 697	457 000	035 266	6.7	64	10	52			8	182	182	9	462	21		
6 928 144	457 000	035 289	7.5	174	12		77		8	172	22	7	133	21		
7 928 605	461 200	035 370	7.1	122	12		96		10	122	22	7	121	122		
8 928 031	426 000	035 457	6.7	15	7		77		9	112	21	7	102	112		
9 929 769	735 000	035 685	5.2	128	7		7		9				102	68		
10 930 723	1358 000	035 703	2.4	64	44	90	154		28	22	22	7	211	211		
11 931 494	1236 000	035 907	20.4	107	17		11		18	24	24	7	282	108	12	
12 932 653	658 000	036 012	16.5	99	18		105		18	26	24	7	282	103		
13 933 225	572 000	036 103	9.1	81	16		189		11	24	24	7	192	103		
14 933 796	505 000	036 191	8.8	67	16	50	715		10	16	22	7	212	102		
15 934 345	555 000	036 278	8.7	102	16	55	157		40	20	20	7	212	102		
16 934 812	467 000	036 351	7.3	142	14				172	8			212	102		
17 936 042	1230 200	036 578	19.7	109	34				168	24			212	212		
18 937 279	1237 000	036 197	18.9	72	35	98	102		74				212	212		
19 937 946	561 000	036 875	8.8	192	16		163		168	16			212	212		
20 938 303	463 000	036 998	7.5	184	12				16	22	22	7	212	212		
21 938 851	628 200	036 994	8.6	119	15		162		16	22	22	7	212	212		
22 939 272	421 000	037 006	6.6	105	12				16	22	22	7	212	212		
23 939 655	423 000	037 125	6.5	97	10				16	22	22	7	212	212		
24 940 608	1173 000	037 372	19.7	60	33				20	22	22	7	212	212		
25 942 093	1215 000	037 567	19.5	30	34	130	160		38	5	22	7	212	212		
26 942 548	505 000	037 567	7.9	145	15		198		17	22	22	7	212	212		
27 943 163	515 000	037 667	8.1	231	12				13	22	22	7	212	212		
28 943 592	469 000	037 774	7.7	18	13		104		13	22	22	7	212	212		
29 944 000	426 000	037 872	7.6	180	13		124		12	22	22	7	212	212		
30 944 557	437 000	037 978	6.8	12	12				12	22	22	7	212	212		

10 60 100

325

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10 10 104

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WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32# PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONEY ALBERT, WATER SUPT.
02439

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MONTH OF 1940

WELL # 4

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. SYS. FREE	TOTAL DIST. SYS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 903.939	442.000	03148.3	6.9	152	13			104	40		2.4	2.4	.7	.9	7.24	1.5		
2 904.421	432.000	03155.8	7.5	138	14			111	96		2.3	2.3	.8	1.2	6.20	1.2		
3 904.852	424.000	03162.6	6.8	125	13			111	38		2.3	2.7	.8	1.1	5.80	1.6		
4 905.222	417.000	03169.1	6.5	113	12	51	164	97	24	10	2.2	2.7	.9	1.2	5.17	1.8	31.3	15
5 905.782	510.000	03177.0	7.9	150	17				10	8	1.5				13.84	1.2		
6 906.924	1142.000	032108.1	18.1	112	54			185		24	1.0				12.82	2.22		
7 908.184	1260.000	032152.2	20.1	78	28			185		78	2.2	2.4	.9	1.2	5.23	3.33		
8 908.662	478.000	032127	7.5	63	15			111		1	1.0	2.4	1.0	1.7	7.18	.65		
9 908.911	490.000	032235	.8	62	1	162	164	111		1	1.04	1.3	1.2	.94	2	.17		
10 909.112	390.000	032149.7	6.2	124				120		7	1.02	2.1	2.0	.4				
11 909.542	432.000	03234.4	6.7	102	14			104		6	1.0	2.0	2.0	.7			7.00	15
12 909.927	385.000	03232.3	5.9	128	12					8	.8				17.05	.15		
13 911.172	1245.000	03252.1	19.8	94	28					38	.64				3.2	2.97		
14 912.402	1275.000	03252.4	26.3	61	29	48	103	12		30	.30	2.2	2.0	.8	1.2	8.27	2.87	
15 912.923	434.000	03259.4	7.5	80	13			12		10	.19	2.4	2.5	.71	2.0	.61		
16 913.374	450.000	03271	7.2	77	13			11		9	.16	2.1	2.4	.7	1	2.02	1.8	
17 913.838	450.000	03274.2	7.1	64	13			11		48	.25	2.7	2.7	.8	3.41	.16		
18 914.314	435.000	03281.5	7.3	51	15	112	163	11		34	.8	2.3	2.4	.7	2.28	1.72		
19 914.718	415.000	03282.2	5.5	52	.11					4	.8				3.95	.12		
20 915.05	1192.000	03294.8	18.8	20	22					12		2.0			3.0	1.7		
21 915.110	1264.000	03297	21.7	1	35	30				2		2.0			8.17	2.87		
22 915.610	443.000	03299.4			3					2		2.4			3.2	.20		
23 915.135	454.000	03302.6		98						2		2.4			2.5			
24 916.027	772.000	03319.3	7.3	87	12			11		7		2.4			2.91			
25 916.540	443.000	03324.2	6.9	25	12			96		30		2.7			2.91			
26 916.444	350.000	03321.3	6.1	50	11					21								
27 916.563	1114.000	03341.4								6		2.0			3.2			
28 917.755	605.000	03348		22	21					12		2.4			3.2			
29 918.231	1272.000	03352.2	26.2	3	2	4	15	78				2.3			3.2			
30 918.457	434.000	03355.4	8.7	110	2							2.4			3.2			
31 923.825	442.000	03362.4	8.4	94								2.4			3.2			

3214

26-376-20

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION, 255 PPHOSPHATE ACID, FOR FLUORINATION AND 322 PHOSPHATE FOR 1504.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

TONY ALBERTY, WATER SUP.

1940

WELL # 6

SYNGRONE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

STEELES COUNTY

NORTH OF APOLE

1951

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL TEST TOTAL	SALES PHOSPHATE	GALS. USED	GALS. ADDED	TOTAL GALLONS	PROD. TEST FINISHED	PROD. TEST OILS
1 953.552	115,000	025,272	15.5	114	24				24	40			11.00	2.01				
2 984.745	116,742	028,425	15.5	15	24	32	122	152	24	24	24	24	9.20	2.18				
3 995.223	478,115	028,572	25.1	110	12			152	10	21	25	25	10.00	1.14				
4 985.690	473,800	028,600	23.5	98	12			152	9	16	26	26	1.00	1.00				
5 984.163	467,000	028,679	23.5	90	12			152	8	20	24	24	1.00	1.00				
6 980.675	452,000	028,554	21.5	74	12	91	165	152	10	21	26	26	1.00	1.00				
7 987.054	439,000	028,525	25.9	152	15			152	10				14.00	1.00				
8 988.279	119,000	028,013	19.0	120	32			98	24				12.00	2.01				
9 989.467	118,000	028,213	19.0	90	32			97	24	24	24	24	1.00	1.00				
10 984.472	425,115	028,247	6.4	78	12			93	8	20	24	24	1.00	1.00				
11 980.342	492,000	028,343	20.0	60	12	40	100	102	10	21	26	26	1.00	1.00				
12 980.754	395,000	028,404	6.1	10	10			102	8	21	26	26	1.00	1.00				
13 981.285	454,000	028,474	20.0	13	15			102	24	21	26	26	1.00	1.00				
14 991.521	310,000	028,523	24.9	90	7			102	24	21	26	26	1.00	1.00				
15 992.783	118,000	028,711	15.8	63	22			102	24	21	26	26	1.00	1.00				
16 993.819	114,000	028,855	17.2	33	30	130	164	102	24	21	26	26	1.00	1.00				
17 994.300	531,000	028,971	5.3	104	10			102	24	21	26	26	1.00	1.00				
18 994.936	590,000	029,000	9.1	104	10			102	24	21	26	26	1.00	1.00				
19 995.511	528,000	029,150	9.0	23	8			102	24	21	26	26	1.00	1.00				
20 995.914	403,000	029,215	4.3	12				102	24	21	26	26	1.00	1.00				
21 996.251	372,000	029,260	9.0	10	8			102	24	21	26	26	1.00	1.00				
22 997.440	127,000	029,300	9.0	10	8			102	24	21	26	26	1.00	1.00				
23 998.782	530,000	029,400	21.1	70	15			102	24	21	26	26	1.00	1.00				
24 999.217	485,000	029,439	20.0	10	15			102	24	21	26	26	1.00	1.00				
25 999.702	405,000	029,514	23.3	48	8			102	24	21	26	26	1.00	1.00				
26 999.944	425,000	029,590	23.3	48	8			102	24	21	26	26	1.00	1.00				
27 999.940	425,000	029,600	23.3	48	8			102	24	21	26	26	1.00	1.00				
28 999.940	425,000	029,600	23.3	48	8			102	24	21	26	26	1.00	1.00				
29 999.940	425,000	029,600	23.3	48	8			102	24	21	26	26	1.00	1.00				
30 999.940	425,000	029,600	23.3	48	8			102	24	21	26	26	1.00	1.00				
31 999.940	425,000	029,600	23.3	48	8			102	24	21	26	26	1.00	1.00				
32 999.940	425,000	029,600	23.3	48	8			102	24	21	26	26	1.00	1.00				

21,740 34.4

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# 40% PHOSPHATE FOR FLUORINATION AND 32# PHOSPHATE FOR 100#

FOR THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

STONEY AGENCY, WATER SUPPLY

WELL # 6

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEVALD COUNTY

NORTH OF DEVALD

1940

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL DIST. SPS TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS- TEST FINISHED	PHOS- TEST DIST
1 568.654	477.812	2252.36	7.4	5.5	14	25	25	1.09	2	812.140	1.9	2.4	4.12	4.12	4.12	4.12	
2 363.447	413.200	2252.12	6.4	5.4	11	10	10	1.02	2	6.198	2.2	2.2	1.65	1.65	1.65	1.65	
3 363.824	337.000	2251.65	5.3	5.5	9	10	10	1.02	2	12			1.65	1.65	1.65	1.65	
4 1805.073	1224.100	2251.50	19.50	112	35					22.100			10.02	10.02	10.02	10.02	
5 1866.275	1242.100	2251.8	19.80	87	35			1.1	25	31	2.0	2.2	2.01	2.01	2.01	2.01	
6 1866.743	468.100	2252.2	7.40	74	13			1.07	29	72	1.1	2.3	5.99	5.99	5.99	5.99	
7 1867.233	496.100	2252.48	7.60	66	14	42	16.2	1.1	16	62	2.2	2.4	1.3	4.10	4.10	4.10	
8 1867.668	435.100	2252.7	6.90	92	10			1.09	10	52	2.0	2.5	1.4	3.28	3.28	3.28	
9 1868.136	468.100	2253.40	2.10	80	12	84	16.4	1.1	10	42	1.9	2.4	1.4	3.45	3.45	3.45	
10 1908.329	391.100	2253.1	6.1	153	11				8	189			1.32	1.32	1.32	1.32	
11 1849.655	1128.000	2260.53	17.91	125	28				102	34	2.0	2.5	10.58	10.58	10.58	10.58	
12 1920.442	1237.000	2262.22	19.7	74	31			1.20	158	12	2.0	2.5	2.82	2.82	2.82	2.82	
13 1871.517	415.000	2262.44	6.7	84	10			1.19	154	12	2.0	2.0	6.87	6.87	6.87	6.87	
14 1971.717	400.000	2262.06	6.2	74	10			1.1	128	8	2.0	2.0	5.19	5.19	5.19	5.19	
15 1972.745	418.000	2262.73	6.7	64	10			1.05	100	8	2.0	2.4	5.24	5.24	5.24	5.24	
16 1872.644	554.000	2262.55	7.4	57	13	64	12.7	1.1	10	10	2.0	2.4	3.95	3.95	3.95	3.95	
17 1922.976	342.000	2262.25	5.3	24	8				13	4			7.49	7.49	7.49	7.49	
18 1974.225	1230.000	2262.72	19.2	78	3				82	42			10.02	10.02	10.02	10.02	
19 1875.411	1208.000	2262.40	19.3	72	3	124	12.7		10	2	2.1	2.1	3.6	3.6	3.6	3.6	
20 1875.906	495.000	2262.67	7.7	15	7				20	8	2.1	2.1	2.1	2.1	2.1	2.1	
21 1876.327	473.000	2262.12	6.7	14	12			1.02	4	8	2.1	2.1	2.1	2.1	2.1	2.1	
22 1876.910	573.000	2262.43	4.9	123	9			1.03	12	4	2.1	2.1	2.1	2.1	2.1	2.1	
23 1877.324	419.000	2262.84	6.5	122				1.01	12	4	2.1	2.1	2.1	2.1	2.1	2.1	
24 1877.745	456.000	2262.52	6.8	7				1.01	12	4	2.1	2.1	2.1	2.1	2.1	2.1	
25 1878.457	119.000	2262.54	13.7	6	21				25	11			2.02	2.02	2.02	2.02	
26 1880.178	1227.000	2262.74	19.5	74	3	55	17.9		24	12	2.1	2.1	2.1	2.1	2.1	2.1	
27 1880.605	725.000	2262.12	6.7	12					10	12	2.1	2.1	2.1	2.1	2.1	2.1	
28 1881.055	772.000	2262.82	7.5	62	72				8	90	2.1	2.1	2.1	2.1	2.1	2.1	
29 1881.583	458.000	2262.62	7.7	128	18			1.02	23	12	2.1	2.1	2.1	2.1	2.1	2.1	
30 1882.045	402.000	2262.3	7.2	152	2				10	12	2.1	2.1	2.1	2.1	2.1	2.1	
31 1882.525	352.000	2262.55	5.4	121	9				8	42			2.02	2.02	2.02	2.02	

19.74.25

3.12

342

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32# PHOSPHATE FOR IRON

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONY ALBERT, WATER SUP.

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEVALB COUNTY

MONTH OF 1946

1972

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUT. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DISC. SIS FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 344449	473.00	022187	7.4	128	13			1.1	54	8	2.0	2.1	1.7	5.76	1.02			
2 344499	484.00	000187	7.5	115	13			1.08	46	5	2.0	2.0	1.3	9.01	1.05	10.39	5	
3 344528	547.00	022257	5.4	105	10				39	7				14.49	1.51			
4 344675	1195.00	022025	18.4	70	30				10	23	1.5	1.9	.5	11.77	2.72			
5 344737	1357.00	022039	21.4	31	59	132	163	1.02	0	22	1.4	1.4	1.4	8.71	3.04			
6 344824	502.00	022206	6.7	151	12			1.1		6	1.8	1.4	1.0	7.86	1.05			
7 344873	493.00	022283	7.7	138	13			1.04		10	1.8	1.4	1.0	6.84	1.02			
8 344910	403.00	022245	6.2	124	10			1.1		8	1.0	1.4	1.0	5.94	1.05			
9 344981	441.00	022294	6.9	116	10	22	138	1.0		8	1.0	2.0	1.0	5.14	1.05	9.84	13	
10 344980	349.00	022272	5.8	124	10					6	1.0			4.32	1.05			
11 345088	1144.00	022185	18.1	97	31					22	1.0			11.17	2.15			
12 345241	1183.00	022241	18.8	73	32			1.08		20	1.0	1.0	1.0	9.45	2.79			
13 345286	705.00	022207	6.8	55	10			1.1		12	1.0	1.0	1.0	8.77	1.05			
14 345312	506.00	022283	7.9	42	13	112	154	1.0		12	1.0	2.0	1.0	7.8	1.02			
15 345348	456.00	022154	7.1	146	12			1.1		10	1.0	1.0	1.0	6.55	1.05			
16 345400	442.00	022025	6.9	135	11			1.12		8	1.0	1.0	1.0	5.8	1.02			
17 345443	393.00	022185	6.1	120	10					5	1.0			5.1	1.02			
18 345717	1224.00	022182	19.6	71	34					25	1.0			9.5	2.16			
19 345822	1725.00	022177	19.5	58	35	24	50			22	1.0	1.0	1.0	8.7	1.02			
20 345759	572.00	022179	9.4	71	10					5	1.0	1.0	1.0	7.7	1.02			
21 345728	539.00	022218	8.9	59	12					5	1.0	1.0	1.0	6.5	1.02			
22 345742	524.00	022204	6.6	41	11			1.05		2	1.0	1.0	1.0	5.63	1.02			
23 345805	495.00	022273	6.9	36	10	127	163	1.04		8	1.0	1.0	1.0	4.82	1.02			
24 345917	352.00	022264	5.5	104						8	1.0			4.48	1.02			
25 346076	1214.00	022261	17.30	121	31					17	1.0			8.2	1.02			
26 346167	1232.00	022181	18.1	71	24					24	1.0	1.0	1.0	8.4	1.02			
27 346235	754.00	022287	7.2	77	13					2	1.0	1.0	1.0	7.2	1.02			
28 346277	742.00	022267	6.9	64	10					2	1.0	1.0	1.0	6.40	1.02			

18 346117

293.1

5.2

10.12

76.46

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32# PHOSPHATE FOR ION.

1 CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONEY ALBRECHT, WATER SUPPLY

WELL # 6

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MARCH OF 2000 1992

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. SIS	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED DIS
1 923 322	1114000	015784	17.7	66	26			165	22	4		6.50	2.55	208
2 923 716	384010	018445	5.9	57	9	118	171	105	108	20	1.7	3.2	1.85	
3 925 116	1511000	019009	22.4	125	136			11	120	24	2.0	2.4	2.69	340
4 925 613	496080	019145	7.6	183				104	110	10	2.0	2.3	1.15	85
5 826 085	751000	019217	7.2	111	12			11	100	10	1.9	2.1	1.12	102
6 826 945	392000	019279	6.2	101	10				94	6			1.45	68
7 827 772	1240100	019376	19.7	70	31	42	112	1	72	24	2.0	2.4	2.72	
8 828 991	1279000	019427	20.3	82	23			101	94	26	2.0	2.4	2.84	
9 829 439	448010	019478	6.8	88	12			11	36	8	1.8	2.0	5.82	102
10 829 920	486000	019523	7.5	50	12			11	24	8	1.9	2.4	4.81	102
11 830 407	487000	019578	7.5	44	12	116	100	101	18	10	1.9	2.0	1.2	13.58
12 830 917	516000	019627	7.9	127	13			103	8	10	1.9	2.3	1.14	200
13 831 307	390000	020025	4.1	122	10				0	8	102		11.26	48
14 832 481	1156010	020080	18.2	108	24				22	120			8.71	255
15 833 207	1294010	020167	19.7	76	32			106	23	107	1.8	2.1	6.13	255
16 834 221	514000	020497	8.0	64	12	31	46	108	11	96	1.3	2.3	4.82	112
17 834 668	497010	020506	6.4	83	12			101	7	10	1.9	2.0	4.12	80
18 835 156	488000	020592	7.6	71	12			102	14	70	1.8	2.0	2.1	11.92
19 835 651	525000	020723	8.1	97	14	109	105	101	1	62	1.8	2.0	1.26	17
20 836 040	337000	020779	5.6	155	10				8	60			1.45	10
21 837 202	1162000	020902	18.3	125	30			118	2	12	1.8	2.1	3.81	10
22 838 404	1213000	021155	17.3	94	31				24	15	1.8	2.1	3.72	200
23 839 834	470000	021218	7.3	90	14			111	150	90	1.8	2.1	6.13	100
24 839 331	124000	021245	6.9	70	10			111	148	8	1.9	2.2	2.41	35
25 839 800	469000	021308	7.3	58	12			105	140	8	1.8	2.1	4.20	102
26 840 290	490000	021444	7.6	45	13	45	90	105	142	8	1.9	2.1	3.40	102
27 840 608	318000	021501	6	80	10				126	6			1.12	80
28 841 801	1190000	021607	19.3	48	32				24	15	1.8	2.1	1.12	10
29 843 058	1625000	021876	19.9	135	33	108	105	108	20	27	1.8	2.2	2.1	11.92
30 845 008	453000	021907	7.1	120				112	7	10	1.8	2.1	2.83	10
31 846 170	410000	022111	6.6	121	10				82	8	1.8	2.1	1.2	10

21708.01 546.4 6.105 414

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

STONEY CREEK, WATER SUP.

WELL # 6

SYNCHRO FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

NORTH OF BAYVIEW

PHOS. TEST FINISHED

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUT. CHL. TANK	LBS. CHL. USED	RESIDUAL TANK	FREE	TOTAL	RESIDUAL CHL. 325	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 300 352	777.00	0155.4	6.1	14.2	16		1.04	22	8	100	1.7	2.3	1.6	1.0			
2 500 724	392.00	0052.9	6.1	15.3	9			10	0	100							
3 801 929	1205.00	00571.08	19.1	108	23			1	26	100							
4 903 224	1215.00	01561.5	20.5	78	30		1.04		30	100	2.3	1.6	1.7	5.97	5.97	15	
5 503 722	554.00	00509.8	7.9	6.7	11		1.04		12	100	2.1	2.0	1.6	13.02	8.6		
6 804 101	645.00	00570.3	6.9	52	12		1.04		8	100	2.3	2.6	1.7	13.49	1.7		
7 804 676	574.00	01584.2	7.9	46	10		1.04		12	100	2.3	2.5	1.6	12.79	1.6		
8 905 151	475.00	01591.6	7.2	157	1		1.04		12	100	2.2	2.6	1.7	13.49	1.6		
9 805 085	377.00	01594.8	5.2	194	7				8	100				13.49	1.6		
10 516 532	347.00	01615.2	20.4	113	61				38	100				13.49	1.6		
11 908 094	1202.00	01635.3	20.3	89	29		1.04	150	20	100	2.1	2.5	1.6	13.49	1.6		
12 808 574	476.00	00455.4	7.4	73	11		1.04	10	0	100	2.3	2.6	1.7	13.49	1.6		
13 809 048	474.00	00453.3	7.4	63	10		1.04	100	8	100	2.1	2.6	1.7	13.49	1.6		
14 809 505	453.00	00460.4	7.1	85	10		1.04	100	10	100	2.1	2.6	1.7	13.49	1.6		
15 809 976	471.00	00467.7	7.3	74	11		1.04	100	10	100	2.3	2.5	1.6	13.49	1.6		
16 300 366	378.00	00473.8	6.1	155	16			100	6	100				13.49	1.6		
17 811 679	1318.00	00494.6	20.3	175	35			100	20	100				13.49	1.6		
18 812 492	1313.00	00505.5	20.9	96	25			100	30	100	1.8	2.4	1.6	13.49	1.6		
19 813 473	98.00	00517.1	7.6	84	12			100	4	100	1.7	2.1	1.6	13.49	1.6		
20 813 905	442.00	00528.9	8.6	74	10			100	7	100	2.1	2.6	1.7	13.49	1.6		
21 814 211	516.00	00537.9	8.6	120	12			100	20	100	2.1	2.6	1.7	13.49	1.6		
22 814 660	423.00	00546.1	8.2	112	12			100	1	100	2.1	2.6	1.7	13.49	1.6		
23 815 712	456.00	00555.4	7.3	105	7			100	4	100	2.1	2.6	1.7	13.49	1.6		
24 816 925	153.00	00567.4	27.0	65	20			100	20	100	2.1	2.6	1.7	13.49	1.6		
25 817 738	100.00	00576.4	19.5	13	28			100	16	100	2.1	2.6	1.7	13.49	1.6		
26 819 324	100.00	00585.4	19.5	13	28			100	16	100	2.1	2.6	1.7	13.49	1.6		
27 815 700	450.00	00582.7	7.1	73	3			100	4	100	2.1	2.6	1.7	13.49	1.6		
28 820 212	472.00	00591.1	7.0	58	11		1.04	100	4	100	2.1	2.6	1.7	13.49	1.6		
29 822 625	312.00	00596.6	6.4	105	16			100	8	100	2.1	2.6	1.7	13.49	1.6		
30 824 954	327.00	00596.6	6.4	105	16			100	8	100	2.1	2.6	1.7	13.49	1.6		
31 826 201	327.00	00596.6	6.4	105	16			100	8	100	2.1	2.6	1.7	13.49	1.6		

22 525.00

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403

: CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FINAL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

SYDNEY ALBRECHT, WATER DEPT.
CERT. #1439

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MONTH OF

19

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE CHL. TANK	AVG. CHL. TANK	LBS. CHL. USED	RESIDUAL PLANT	RESIDUAL FREE	RESIDUAL TOTAL	DIST. STS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 709 142	441 255	101 294	7.8	64	11		10	10	10	2.1	2.1	2.1	1.1	6.50			
2 774 694	481 200	101 593	1.9	57	12	100	141	141	141	2.4	2.4	2.4	1.2	6.40			
3 779 121	522 200	101 593	1.5	52	20		161	161	161	2.2	2.2	2.2	1.2	6.40			
4 786 552	441 200	101 593	6.6	144			201	201	201	2.2	2.2	2.2	1.2	6.40			
5 785 431	441 200	101 593	18.1	115	20		221	221	221	2.2	2.2	2.2	1.2	6.40			
6 783 431	441 200	101 593	20.4	50			241	241	241	2.2	2.2	2.2	1.2	6.40			
7 783 336	441 200	101 593	6.5	11			261	261	261	2.2	2.2	2.2	1.2	6.40			
8 782 336	441 200	101 593	7.5	25	13		281	281	281	2.2	2.2	2.2	1.2	6.40			
9 784 336	441 200	101 593	7.3	65			301	301	301	2.2	2.2	2.2	1.2	6.40			
10 784 336	441 200	101 593	8	11			321	321	321	2.2	2.2	2.2	1.2	6.40			
11 785 336	441 200	101 593	6.4	75			341	341	341	2.2	2.2	2.2	1.2	6.40			
12 784 336	441 200	101 593	1.8				361	361	361	2.2	2.2	2.2	1.2	6.40			
13 782 336	441 200	101 593	1.8	71			381	381	381	2.2	2.2	2.2	1.2	6.40			
14 782 336	441 200	101 593	2.1	121	10	30	401	401	401	2.2	2.2	2.2	1.2	6.40			
15 785 336	441 200	101 593	5.5	144	8		421	421	421	2.2	2.2	2.2	1.2	6.40			
16 785 336	441 200	101 593	4.9	51			441	441	441	2.2	2.2	2.2	1.2	6.40			
17 784 336	441 200	101 593	7.3	121	12		461	461	461	2.2	2.2	2.2	1.2	6.40			
18 783 336	441 200	101 593	6.1	112	9		481	481	481	2.2	2.2	2.2	1.2	6.40			
19 786 336	441 200	101 593	2.4	82	21		501	501	501	2.2	2.2	2.2	1.2	6.40			
20 782 336	441 200	101 593	2.6	147	35	115	521	521	521	2.2	2.2	2.2	1.2	6.40			
21 782 336	441 200	101 593	7.4	36	12		541	541	541	2.2	2.2	2.2	1.2	6.40			
22 783 336	441 200	101 593	8.2	34	13		561	561	561	2.2	2.2	2.2	1.2	6.40			
23 782 336	441 200	101 593	8.1	21	14		581	581	581	2.2	2.2	2.2	1.2	6.40			
24 784 336	441 200	101 593	12.5	85	25		601	601	601	2.2	2.2	2.2	1.2	6.40			
25 786 336	441 200	101 593	14.2	87	32	90	621	621	621	2.2	2.2	2.2	1.2	6.40			
26 782 336	441 200	101 593	19.2	52			641	641	641	2.2	2.2	2.2	1.2	6.40			
27 784 336	441 200	101 593	19.9	52	32		661	661	661	2.2	2.2	2.2	1.2	6.40			
28 784 336	441 200	101 593	7.2	84	11		681	681	681	2.2	2.2	2.2	1.2	6.40			
29 784 336	441 200	101 593	7.7	135			701	701	701	2.2	2.2	2.2	1.2	6.40			
30 784 336	441 200	101 593	7.4	48	2	80	721	721	721	2.2	2.2	2.2	1.2	6.40			

21/7/23

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WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

FOR ALBERT, WATER SUPPLY

MONTH OF SEPTEMBER 1939

DEKALB COUNTY

SYNCHRO FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL # 6

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT-USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. 525 FREE	TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST START
1 757235	1171.00	59.927.2	19.2	9.6	3.2			3.2	135				7.8	2.38			
2 757449	1279.00	60.448.0	20.8	9.1	3.5			3.5	104	2.0			2.88	2.32	12.72	18	
3 757534	445.00	60.855.3	7.7	1.4	1.2	9.2		1.2	92	2.2			14.05	8.5			
4 757943	451.00	60.403.5	7.6	7.6	3.5	13.3		3.5	3	2.2			23.38	8.5			
5 757926	560.22	60.411.2	7.7	10.0	1.2	1.2		1.2	20	2.3			12.48	1.2	1.70	18.88	
6 757603	416.00	60.807.7	6.5	5.1	1.1			1.1	10	2.0			12.96	1.2			
7 757614	471.00	60.844.7	7.0	7.8	1.1			1.1	10	2.0			12.96	1.2			
8 75761482	1170.00	60.921.6	19.4	5.5	2.6			2.6	15	2.0			9.88	2.38			
9 7575235	1251.00	60.924.0	20.4	2.0	1.1	1.1		1.1	34	2.1			2.88	2.38			
10 7576041	453.00	60.939.4	6.4	5.5	1.1			1.1	34	2.1			2.88	2.38			
11 7576122	525.00	60.958.2	7.6	9.3	1.2			1.2	113	1.4			2.16	2.38			
12 7576100	434.00	60.965.1	7.2	1.1	1.1			1.1	34	2.1			2.88	2.38			
13 7575085	452.00	60.982.4	7.2	12.2	1.1			1.1	34	2.1			2.88	2.38			
14 7575060	509.00	60.986.9	6.6	11.8	1.2			1.2	34	2.1			2.88	2.38			
15 7576054	1243.00	60.991.1	20.2	7.9	2.1			2.1	34	2.1			2.88	2.38			
16 7576122	1255.00	61.001.1	20.2	4.1	1.2			1.2	34	2.1			2.88	2.38			
17 7575022	400.00	61.023.1	7.0	4.9	1.5			1.5	34	2.1			2.88	2.38			
18 7576101	558.00	61.027.1	8.4	13.5	1.4			1.4	34	2.1			2.88	2.38			
19 7576155	258.00	61.028.1	9.2	1.2	1.4			1.4	34	2.1			2.88	2.38			
20 7576104	655.00	61.037.4	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
21 7576104	655.00	61.040.2	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
22 7576104	655.00	61.043.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
23 7576104	655.00	61.046.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
24 7576104	655.00	61.049.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
25 7576104	655.00	61.052.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
26 7576104	655.00	61.055.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
27 7576104	655.00	61.058.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
28 7576104	655.00	61.061.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
29 7576104	655.00	61.064.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
30 7576104	655.00	61.067.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
31 7576104	655.00	61.070.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
32 7576104	655.00	61.073.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
33 7576104	655.00	61.076.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
34 7576104	655.00	61.079.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
35 7576104	655.00	61.082.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
36 7576104	655.00	61.085.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
37 7576104	655.00	61.088.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
38 7576104	655.00	61.091.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
39 7576104	655.00	61.094.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
40 7576104	655.00	61.097.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
41 7576104	655.00	61.100.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
42 7576104	655.00	61.103.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
43 7576104	655.00	61.106.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
44 7576104	655.00	61.109.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
45 7576104	655.00	61.112.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
46 7576104	655.00	61.115.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
47 7576104	655.00	61.118.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
48 7576104	655.00	61.121.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
49 7576104	655.00	61.124.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
50 7576104	655.00	61.127.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
51 7576104	655.00	61.130.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
52 7576104	655.00	61.133.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
53 7576104	655.00	61.136.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
54 7576104	655.00	61.139.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
55 7576104	655.00	61.142.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
56 7576104	655.00	61.145.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
57 7576104	655.00	61.148.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
58 7576104	655.00	61.151.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
59 7576104	655.00	61.154.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
60 7576104	655.00	61.157.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
61 7576104	655.00	61.160.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
62 7576104	655.00	61.163.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
63 7576104	655.00	61.166.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
64 7576104	655.00	61.169.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
65 7576104	655.00	61.172.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
66 7576104	655.00	61.175.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
67 7576104	655.00	61.178.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
68 7576104	655.00	61.181.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
69 7576104	655.00	61.184.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
70 7576104	655.00	61.187.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
71 7576104	655.00	61.190.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
72 7576104	655.00	61.193.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
73 7576104	655.00	61.196.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
74 7576104	655.00	61.199.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
75 7576104	655.00	61.202.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
76 7576104	655.00	61.205.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
77 7576104	655.00	61.208.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
78 7576104	655.00	61.211.1	9.3	1.1	1.2			1.2	34	2.1			2.88	2.38			
79 7576104	655.00	61.214.1	9.3	1.1	1.2			1.2	34								

SYNCHRO FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL # 1

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	REGIONAL DIST. STG. FREE	REGIONAL DIST. STG. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED DTC
1 741.855	562.000	00580.5	5.4	75	15			1.0	54	14	2.3	2.7	.5	.8				
2 741.855		00580.5		75					54									
3 741.907	54.000	00581.2	8	23	2	8.7	160		54	3								
4 743.027	112.000	00579.4	18.1	130	30				54	27								
5 743.027		00579.4		130					54									
6 743.227	202.000	00602.6	3.2	125	5			1.0	54									
7 743.346	618.000	00612.4	9.8	104	16			1.0	48	6								
8 743.562	107.000	00614.1	1.7	107	2			1.0	34	14	1.6	2.0	.3	.3				
9 744.100	145.000	00616.4	2.3	102	5				24	4					14.93	1.7		
10 744.100		00616.4		102					24						14.93			
11 744.100		00616.4		102					24						14.93			
12 744.500	700.000	00621.5	11.1	50	16			1.0	24		2.1	2.0	.5	.8	14.93			
13 745.210	418.000	00634.1	6.6	75	11	6.2	137	9.8	2	18	1.50	2.0	.3	.3	13.20	1.52		
14 745.450	435.000	00641.0	6.4	124	11			9.9	2	18	1.50	2.1	.3	.3	12.75	.81		
15 746.120	764.000	00678.3	7.3	114	12			1.0	10	12	1.24	2.3	.3	.3	11.55	1.12		
16 746.523	453.000	00680.4	7.1	102	12				9	12					9.13	.85		
17 747.772	119.000	00714.4	19.5	71	21				30	9					7.18	2.65		
18 748.049	197.000	00720.5	19.6	34	32	121	100	1.0	24	16	2.1	2.4	.3	.3	5.65	1.52		
19 749.431	462.000	00721.8	7.3	145	12			1.0	14	9	1.2	2.3	.3	.3	5.65			
20 749.934	503.000	00729.4	8.1	135	13			1.0	2	10	2	2.4	.3	.3	2.03	1.0		
21 750.406	673.000	00735.6	7.2	122	13			1.0	5	8	1.2	2.4	.3	.3	3.24	.81		
22 750.908	522.000	00735.4	5.0	114	12			1.0	21	10	2.4	2.4	.3	.3	5.65	1.52		
23 751.407	624.000	00737.3	7.4	150	3				14	2					1.1	.12		
24 752.551	1131.000	00735.4	18.3	55	1	1.0	65		14	1					2.18			
25 753.707	804.000	00737.8	26.5	82	34				23	1	2.3	2.0	.3	.3	2.18			
26 754.156	396.000	00735.6	6.3	2	11			1.0	6	4	2.2	2.2	.3	.3	2.18			
27 754.712	524.000	00737.6	23.4	15	15			1.0	4	2	2.1	2.2	.3	.3	2.18			
28 755.150	488.000	00739.4	6.4	38	5			1.0	2	2	2.1	2.2	.3	.3	2.18			
29 755.600	400.000	00739.4	7.4	15	13			1.0	2	1	2.1	2.2	.3	.3	2.18			
30 756.155	715.000	00740.2	6.5	2	1				1	1					2.18			
31																		

14702.000 2366 384

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUORIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON

STREET ALBERT WATER SUPPLY
CLERT #2499

WELL # 6

STANBRO FLUORIDATION & CHLORINATION REPORT

DEKALB CO.

MONTH OF August 1989

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FLUORIDE WEIGHT	lbs. USED	lbs. ADDED	TOTAL WEIGHT	FLUORINE TEST	ACT. CHL. TANK	lbs. USED	CHLORINE TANK	RESIDUAL PLANT FILL TOTAL FILL	RESID. DISC.
1 724 545	52,342	60,312.1	9.0	10.5	14			1.0		94	88	2.5	2.0
2 730 115	52,000	60,391.4	9.2	94	15			1.04		18	33	2.0	2.5
3 730 766	65,000	60,401.9	10.3	30	18			1.02				2.0	2.5
4 731 346	57,850	60,411.5	7.6	54	16	116	164	1.0		9	89	2.5	3.0
5 73 346		60,411.5		164							94		
6 731 346		60,411.5		164							94		
7 732 346	15,200	60,431.2	19.7	134	24			1.2		27	161	5.5	6.0
8 732 634	24,100	60,432.2	4.0	131	7			1.08			3	1.8	1.5
9 732 977	24,200	60,434.1	3.9	127	6			1.01		4	1	1.0	1.1
10 732 977	20,000	60,430.4	9.7	117	8			1.04		172	172	1.5	2.0
11 733 147	49,710	60,430.6	1.2	107	10					10		1.5	2.0
12 733 594		60,427.4		187									
13 733 594		60,427.4		187				1.03				1.5	2.0
14 734 534	94,342	60,426.8	15.2	93	24			1.08		10		1.5	2.0
15 735 002	52,400	60,471.0	9.2	64	14	91	164	1.05		3		2.0	2.5
16 735 616	25,200	60,458.1	3.1	93				1.07		18		1.4	1.7
17 735 616		60,458.1		93				1.03				1.5	2.0
18 735 616		60,458.1		93									
19 735 616		60,458.1		93									
20 735 942	25,000	60,458.1		93									
21 735 942		60,458.1		93									
22 737 860	92,300	60,458.1	17.5	134	37			1.0				2.0	2.5
23 737 860	23,000	60,458.1		134	2			1.0				2.0	2.5
24 738 450	94,342	60,458.1	9.6	122	22			1.0				2.0	2.5
25 738 450		60,458.1		122									
26 738 450		60,458.1		122									
27 738 450		60,458.1		122									
28 738 450		60,458.1		122									
29 738 450	24,100	60,458.1	25.9	54	54							1.5	2.0
30 738 450	24,100	60,458.1	25.9	54	54							1.5	2.0
31 738 450	24,100	60,458.1	25.9	54	54							1.5	2.0
TOTAL	12,300		195.5		324								

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

 SIGNED: [Signature]
 WATER SYSTEM ENGINEER
 CERT. #2439

 WE USE 150# CHLORINE GAS CONTAINERS FOR CHLORINATION. WE USE 15# FLUORINATION
 AND IS ADDED FULL STRENGTH FOR FLUORINATION.

WELL # 6

STYRENE FLUORINATION & CHLORINATION REPORT

DEKALB CO.

MONTH OF

JULY 1987

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FLUORINE WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	FLUORINE TEST	AGE, CYS. TIME	LBS. USED	CHLORINE TANT.	INITIAL PLANT WEIGHT	RESID. -2000
1 719 337	—	00216.3	—	98	—	—	—	—	100	—	—	—	—
2 719 337	—	00216.3	—	98	—	—	—	—	100	—	—	—	—
3 719 645	305.110	00221.2	4.9	81	10	—	—	81	81	—	—	3.0	2.5
4 719 645	—	00216.3	—	81	—	—	—	—	81	—	—	—	—
5 719 915	239.020	00224.8	2.6	82	6	—	—	82	80	—	—	2.5	3.0
6 720 321	440.410	00231.9	7.1	68	14	—	—	68	62	—	—	2.5	2.9
7 720 700	379.100	00239.5	2.6	55	18	—	—	55	52	—	—	1.5	1.8
8 720 710	—	00216.3	—	55	—	—	—	—	54	—	—	—	—
9 720 700	—	00239.5	—	55	—	—	—	—	54	—	—	—	—
10 720 700	—	00216.3	—	55	—	—	—	—	54	—	—	1.0	1.5
11 720 700	—	00239.5	—	55	—	—	—	—	54	—	—	1.8	1.3
12 720 700	—	00216.3	—	55	—	—	—	—	54	—	—	—	—
13 720 700	—	00239.5	—	55	—	—	—	—	54	—	—	1.0	1.4
14 720 700	—	00239.5	—	55	—	—	—	—	54	—	—	1.7	1.1
15 720 710	—	00216.3	—	55	—	—	—	—	54	—	—	—	—
16 720 710	—	00239.5	—	55	—	—	—	—	54	—	—	—	—
17 721 375	535.200	00240.4	7.1	42	12	—	—	42	36	—	—	1.0	1.0
18 721 697	725.000	00246.2	7.1	192	13	—	—	192	180	—	—	2.5	3.0
19 721 197	440.000	00246.2	7.1	121	9	—	—	121	109	—	—	5	5
20 722 424	323.000	00246.2	8.2	11	9	—	—	11	10	—	—	7	7
21 722 417	346.100	00247.7	9.7	11	13	—	—	11	10	—	—	1.5	1.5
22 722 517	—	00216.3	—	11	—	—	—	—	10	—	—	—	—
23 722 517	—	00246.2	—	11	—	—	—	—	10	—	—	—	—
24 723 330	649.000	00258.4	7.2	107	12	—	—	107	100	—	—	2.5	2.9
25 723 707	470.000	00258.4	7.2	107	12	—	—	107	100	—	—	2.5	2.9
26 724 171	407.000	00253.8	7.2	117	12	—	—	117	107	—	—	2.5	2.9
27 725 174	107.000	00253.8	7.2	117	12	—	—	117	107	—	—	2.5	2.9
28 725 721	527.000	00249.3	8.1	32	12	—	—	32	28	—	—	2.5	2.9
29 726 153	744.000	00258.4	7.2	107	12	—	—	107	100	—	—	2.5	2.9
30 727 513	399.000	00258.4	7.2	107	12	—	—	107	100	—	—	2.5	2.9
31 728 952	—	00216.3	—	107	—	—	—	—	100	—	—	—	—
TOTAL	9145.000	—	50.8	—	204	—	—	—	—	—	—	—	—

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

SIGNED: WATER SUPERINTENDENT

DET. #2439

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION AND 250 HYDROFLUORIC ACID IS ADDED FULL STRENGTH FOR FLUORINATION.

WELL # 6

DETAILS CO.

SYNCHRO FLUORIMETER & CHLORINATION REPORT

MONTH OF JUNE

1981

METER READING (1000 GAL.)		GALLONS PUMPED		ELECTRIC READINGS		DIFF.		FLUORINE WEIGHT		LBS. USED LBS. ORDERED		TOTAL WEIGHT		FLUORINE TEST		AMT. CHL. TANK		LBS. USED		CHLORINE TANK		RESIDUAL FLUOR. TEST TOTAL		DIS. TOTAL	
1	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
2	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
3	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
4	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
5	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
6	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
7	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
8	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
9	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
10	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
11	716 600	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
12	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
13	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
14	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
15	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
16	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
17	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
18	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
19	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
20	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
21	716 606	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
22	716 707	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
23	717 237	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
24	717 230	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
25	717 230	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
26	717 535	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
27	715 079	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
28	718 517	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
29	719 071	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
30	719 327	-	-	10172.9	-	-	-	172	-	-	-	17	-	17	-	-	-	-	-	30	-	1.0	1.3	1.0	1.3
31		-	-		-	-	-		-	-	-		-		-	-	-	-	-		-		-		
TOTAL		716 606		10172.9		-		172		-		17		17		-		-		30		1.0		1.3	

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

SIGNED: *[Signature]*

WATER SUPERINTENDENT

CITY #2439

1 JUNE 22 THIS WORK WAS PUMPED TO WATERS

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION AND 250 LBS. HYPOCHLORITE ACID IS ADDED FOR FLUORINATION.

WTS. (LBS.) GAL. PUMPED ELEC. RECD. DIFF. FL. WGT. USED FADD TOT. WGT. FL. TEST CL. TANK USED FADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PMS. GAL. USED GAL. AND TOT. GAL. PMS. FIN. PMS. DIST.

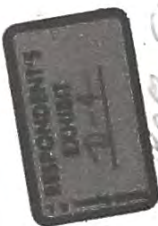
1	825731	208,000	36573.60	3.70	90	0	71	161	0.97	25	5	0	1.1	1.4	1.5	1.9	9.73	1.02	9.73
2	826257	526,000	36580.10	6.50	137	24		137	1.1	15	10	0	1.3	1.6	1.8	2.3	3.20	1.03	3
3	826451	194,000	36582.50	2.40	128	9		128	0.96	13	2	113	1.2	1.5	1.3	1.6	7.03	0.11	8
4	826861	410,000	36587.50	5.00	121	7		121		150	6	0				6.32	1.50	6	
5	826861	0	36587.50	0.00	121	0		121		150	0	0				6.32		0	
6	826861	0	36587.50	0.00	121	0		121	1.1	150	0	0	0.7	1.0	1.2	1.9	0.33	0	6
7	827163	307,000	36591.40	3.90	116	5		116	1.0	146	4	0	0.9	1.3	1.3	1.6	5.33	1.07	5
8	827164	526,000	36593.00	3.40	105	11		105	0.97	139	7	0	1.2	1.6	0.9	1.2	3.61	1.76	13
9	828007	813,000	36599.30	10.30	91	14		91	0.95	129	10	0	0.9	1.2	1.7	1.4	12.32	2.72	12
10	828159	252,000	36612.50	3.20	86	5		86	0.94	125	6	0	1.2	1.5	1.5	2.0	11.03	0.03	11
11	829269	410,000	36617.50	5.00	79	7		79		119	6	0				9.73	1.70	10	
12	829269	0	36617.50	0.00	79	0		79		119	0	0				9.73		0	
13	829277	58,000	36618.50	0.80	78	1		78	0.91	118	1	0	0.6	0.9	1.0	1.5	0.56	0.27	10
14	829604	277,000	36621.70	3.40	74	4		74	1.0	118	3	0	1.2	1.3	1.8	1.1	0.03	0.7	9
15	830010	476,000	36627.60	5.90	66	8		66	0.92	109	6	0	1.3	1.7	1.2	1.5	7.38	1.52	7
16	830014	764,000	36637.00	9.40	53	13		53	1.01	99	10	0	1.3	1.8	0.3	0.7	4.08	2.30	3
17	831210	405,000	36642.10	5.10	51	2		51	0.90	97	7	0	1.4	1.7	1.6	1.4	3.61	1.10	13
18	831769	530,000	36648.50	6.40	51	0		51		86	6	0				12.32	1.07	12	
19	831769	0	36648.50	0.00	51	0	111	162		86	0	0				12.32		11	
20	831769	0	36648.50	0.00	162	0		162	1.03	86	0	0	1.1	1.5	0.9	1.2	12.13		12
21	832101	322,000	36652.60	4.10	156	6		156	1.01	80	6	0	1.3	1.5	1.3	1.1	12.11	1.02	12
22	832538	437,000	36658.00	5.40	148	8		148	0.97	75	5	0	1.5	1.9	1.7	2.1	10.75	1.70	11
23	832828	290,000	36661.50	3.60	143	5		143	0.98	72	3	0	1.2	1.6	1.4	1.7	9.90	0.03	10
24	833041	213,000	36664.20	2.60	139	4		139	1.01	70	2	0	1.2	1.5	0.9	1.3	9.22	0.03	9
25	833437	336,000	36669.00	4.80	132	7		132		65	5	0				1.02	1.18	8	
26	833437	0	36669.00	0.00	132	0		132		65	0	0				1.02		1	
27	833437	0	36669.00	0.00	132	0		132	1.1	65	0	0	0.7	1.0	0.6	0.9	1.02		7
28	833703	266,000	36672.30	3.30	127	5		127	0.98	60	5	0	1.2	1.5	1.1	1.4	7.10	0.33	7
29	834134	451,000	36677.60	5.30	118	9		118	1.03	55	3	0	1.0	1.4	0.8	0.9	5.02	1.26	6
30	834437	223,000	36681.40	3.80	112	6		112	0.95	52	3	0	1.2	1.5	0.7	1.0	3.86	1.02	5
31	834437	0	36681.40	0.00	112	0		112		52	0	0				3.86		1	

AVERAGE
TOTAL

9,004,000 111.50 168

121

WE USE 1500 CHLORINE GAS CYLINDERS, 35% HYDROFLUOSILIC ACID
FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON



I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 11-11

703 50-157

JAN

STANBRO FL. CL. PRODS. DETAILS CO. BELL 1 1982

WTR. (16GAL) GAL. PUMPED ELEC. READ DIFF. FL. MGT. USED ADD TOT. MGT. FL. TEST CL. TANK USED ADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PRO. GAL. USED GAL. AND TOT. GAL. PRODS. FIN. PRODS. DIST.

1	799356	0	35248.40	100	0	100	102	0	1.4	1.7	0.4	0.3	2.44	2.72	11.44	15	8.16
2	800016	960,000	36260.20	11.80	85	85	115	17	1.4	1.7	0.4	0.3	2.44	2.72	11.44	15	8.16
3	800450	134,000	36261.80	1.60	83	83	112	3	1.0	1.3	0.4	0.3	14.40	0.51	14	14	14
4	800835	385,000	36266.50	4.70	77	77	116	6	1.0	1.3	0.4	0.3	12.28	1.18	12	12	12
5	800809	74,000	36267.00	0.90	76	76	115	1	1.0	1.3	0.4	0.3	12.08	0.34	12	12	12
6	800977	68,000	36268.20	0.80	75	75	114	1	1.0	1.3	0.4	0.3	12.08	0.34	12	12	12
7	801254	777,000	36277.70	8.50	62	62	101	13	1.4	1.7	0.4	0.3	10.24	2.38	10	10	10
8	802263	589,000	36283.30	6.20	54	54	92	8	1.3	1.6	0.4	0.3	8.34	1.78	8	8	8
9	802562	279,000	36297.30	3.40	49	49	86	4	1.3	1.6	0.4	0.3	7.00	0.85	7	7	7
10	802864	422,000	36292.40	5.10	154	154	100	8	1.4	1.8	0.4	0.3	5.32	1.82	6	6	6
11	803752	788,000	36302.10	9.70	140	140	88	12	1.4	1.8	0.4	0.3	2.95	1.87	4	4	4
12	803752	0	36302.10	0.00	140	140	88	0	1.4	1.8	0.4	0.3	2.95	1.87	4	4	4
13	803752	0	36302.10	0.00	140	140	88	0	1.4	1.8	0.4	0.3	2.95	1.87	4	4	4
14	804218	466,000	36307.80	5.70	133	133	107	39	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
15	804550	232,000	36310.70	2.90	129	129	107	55	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
16	804887	437,000	36316.00	5.30	123	123	107	48	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
17	805115	228,000	36318.30	2.90	119	119	107	45	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
18	805581	466,000	36324.80	5.70	111	111	107	37	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
19	805663	32,000	36325.70	1.10	109	109	107	35	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
20	805663	0	36325.70	0.00	109	109	107	35	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
21	806038	375,000	36330.30	4.60	103	103	107	30	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
22	806577	539,000	36316.30	6.00	93	93	107	22	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
23	806826	249,000	36340.00	3.10	90	90	107	18	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
24	807205	479,000	36345.90	5.90	83	83	107	16	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
25	807521	216,000	36348.60	2.70	79	79	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
26	807521	0	36348.60	0.00	79	79	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
27	807521	0	36348.60	0.00	79	79	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
28	808020	499,000	36354.70	5.10	71	71	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
29	808273	233,000	36357.90	2.20	67	67	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
30	808793	525,000	36364.40	6.50	58	58	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
31	809452	654,000	36372.70	8.20	47	47	107	6	1.3	1.6	0.4	0.3	12.12	1.72	11	11	11
AVERAGE																	
TOTAL	16,086,000	124.30	161	161	161	161	161	161	1.02	1.02	0.00	0.00	22.60	22.60	22.60	22.60	22.60

WE USE 1600 CHLORINE GAS CYLINDERS, DENTROPHOSPHIC ACID
FELL STRENGTH FOR FLUORINATION AND 324 PHOSPHATE FOR IRON

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 11410

MTD. (TICAL) GAL. PUMPED ELEC. READ DIFF. FL. NOT USED IADD TOT. VGT. FL. TEST CL. TANK USED IADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PHOS. GAL. USED GAL. AND TOT. GAL. PHOS. DIST.

1	780813	0	36143.10	0	127	0	127	1.1	124	0	0	1.1	1.5	0.5	0.7	11.66	11.66	
2	780813	0	36143.10	0	127	0	127	1.1	124	0	0	1.1	1.5	0.5	0.7	11.66	11.66	
3	780816	1,033,000	36155.80	12.70	112	15	112	0.98	110	14	0	1.4	1.7	0.3	0.8	3.24	3.24	
4	782223	487,000	36161.80	6.00	103	9	103	0.92	102	7	0	1.4	1.7	0.6	0.9	0.23	0.23	
5	782223	480,000	36167.80	6.00	96	7	96	1.08	97	6	0	1.2	1.5	0.4	0.7	4.86	4.86	
6	782225	502,000	36174.10	6.30	89	7	89	1.02	90	7	0	1.2	1.6	0.1	0.3	1.70	10.84	
7	782658	322,000	36178.20	4.10	83	6	83	0.83	85	5	0	1.2	1.6	0.1	0.3	22.47	22.47	
8	782658	0	36178.20	0.00	83	0	83	1.1	85	0	0	1.1	1.5	0.5	0.8	12.47	12.47	
9	782658	0	36178.20	0.00	83	0	83	1.1	85	0	0	1.1	1.5	0.5	0.8	12.47	12.47	
10	784195	537,000	36184.30	6.70	75	8	75	1.02	78	7	0	1.5	1.8	0.3	1.0	11.00	11.00	
11	784557	362,000	36189.40	4.50	69	6	69	1.09	73	5	0	1.4	1.8	0.4	0.7	10.30	10.30	
12	785008	531,000	36195.30	6.50	61	8	61	0.91	65	8	0	1.8	1.8	0.1	0.1	3.00	3.00	
13	785291	582,000	36199.70	3.80	57	4	57	1.05	59	5	0	1.3	1.6	0.7	1.0	2.98	10.2	
14	785418	457,000	36205.40	5.70	186	8	186	1.05	186	54	6	0	1.3	1.6	0.7	1.0	2.98	10.2
15	785827	79,000	36206.40	1.00	155	1	155	0.92	153	3	0	1.1	1.4	0.4	0.7	6.33	0.11	
16	785827	0	36206.40	0.00	155	0	155	0.92	153	0	0	1.1	1.4	0.4	0.7	6.33	0.11	
17	786285	358,000	36210.80	4.40	150	5	150	0.97	149	4	0	1.2	1.5	0.3	0.5	5.14	1.19	
18	786285	535,000	36217.20	6.50	142	8	142	1.04	140	9	0	1.2	1.5	0.4	0.7	2.66	1.70	
19	787019	285,000	36220.70	3.40	137	5	137	1.03	137	3	0	1.3	1.5	0.3	0.6	12.81	1.19	
20	787659	569,000	36227.60	6.90	128	5	128	1.00	129	8	0	1.4	1.7	1.3	1.6	31.77	2.04	
21	787657	239,000	36231.30	2.70	122	6	122	1.02	124	5	0	1.4	1.7	1.3	1.6	18.75	1.02	
22	787657	0	36231.30	0.00	122	0	122	1.02	124	0	0	1.4	1.7	1.3	1.6	18.75	1.02	
23	787657	0	36231.30	0.00	122	0	122	1.02	124	0	0	1.4	1.7	1.3	1.6	18.75	1.02	
24	788353	346,000	36236.10	4.10	116	6	116	0.94	119	5	0	1.4	1.7	0.9	1.2	9.16	1.19	
25	788353	0	36236.10	0.00	116	0	116	1.1	119	0	0	1.4	1.7	0.9	1.2	9.16	1.19	
26	788353	0	36236.10	0.00	116	0	116	1.1	119	0	0	1.4	1.7	0.9	1.2	9.16	1.19	
27	789581	225,000	36239.90	2.50	113	3	113	1.09	115	4	0	1.4	1.7	0.7	1.0	8.81	0.81	
28	789661	386,000	36243.60	4.70	107	4	107	1.07	108	5	100	1.4	1.7	0.7	1.0	7.68	1.19	
29	789820	69,000	36244.40	0.80	105	2	105	1.03	106	2	0	1.0	1.3	0.5	0.7	7.39	1.19	
30	789820	0	36244.40	0.00	105	0	105	1.03	106	0	0	1.0	1.3	0.5	0.7	7.39	1.19	
31	789356	348,000	36248.40	4.00	100	5	100	1.02	102	6	0	1.2	1.5	0.7	0.9	6.16	1.19	
AVERAGE																		
TOTAL		8,543,000	105.30	134				1.01		122						28.91	0.00	

WE USE 150# CELORINE GAS CYLINDERS, PHOSPHOROUS ACID
FULL STRENGTH FOR FLUORINATION AND 12% PHOSPHATE FOR IRON

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 12/13

WTS. (TSSAL) GAL. PUMPED ELEC. READ OFF. FL. WGT. USED 1400 TO. WGT. F. TEST CL. TANK USED 1400 RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PHOS. GAL. USED GAL. AND TOT. GAL. PHOS. FOR. PHOS. DIST.

1	782018	953,000	35,045.60	12.0	85	15	92	12	0	1.2	1.6	0.2	0.5	3.27	3.96	12.75	15.05
2	782018	0	35,045.60	0.00	85	0	92	0	0					15.05			15
3	782018	0	35,045.60	0.00	85	0	92	0	0					15.05			15
4	782018	0	35,045.60	0.00	85	0	92	0	0	0.5	0.8	0.2	0.5	15.05			15
5	782018	919,000	35,045.60	11.50	70	15	90	12	0	1.1	1.5	0.4	0.5	11.25	2.40		12
6	784006	69,000	35,045.60	0.90	69	1	69	0	0	1.4	1.7	0.2	0.5	11.25	0.94		11
7	784740	734,000	35,045.60	9.20	56	10	56	0	0	1.1	1.3	0.3	0.7	9.85	2.10		9
8	785167	427,000	35,045.60	5.40	50	6	50	0	0	0.8	1.5	0.6	1.0	7.52	1.30		8
9	785167	0	35,045.60	0.00	50	0	50	0	0					7.52			8
10	785167	0	35,045.60	0.00	50	0	50	0	0	0.6	0.9	0.4	0.7	7.52			8
11	785167	0	35,045.60	0.00	50	0	114	0	0	1.1	1.4	0.8	1.1	6.16	1.30		8
12	785533	465,000	35,045.60	5.80	155	9	155	0	0	1.5	1.8	0.3	0.5	5.16			5
13	785533	0	35,045.60	0.00	155	0	155	0	0	1.5	1.8	0.3	0.5	5.16			5
14	786412	780,000	35,045.60	9.90	144	11	144	0	0	1.4	1.5	0.4	0.7	3.78	2.28	11.22	15
15	786521	118,000	35,045.60	1.40	140	1	140	0	0	1.4	1.5	0.4	0.7	3.78	0.18		14
16	787022	761,000	35,045.60	9.50	120	13	120	0	0	1.4	1.7	0.3	0.8	14.22	0.18		12
17	787354	951,000	35,045.60	1.20	128	2	128	0	0					11.77	2.55		12
18	787354	0	35,045.60	0.00	128	0	128	0	0	0.6	1.0	0.3	0.5	11.42			12
19	787795	411,000	35,045.60	5.10	122	2	122	0	0	1.5	1.8	0.2	0.7	18.05	1.26		18
20	788280	482,000	35,045.60	5.00	115	0	115	0	0	1.7	2.0	0.4	0.6	8.94	3.52		9
21	788798	518,000	35,045.60	5.00	119	1	119	0	0	1.5	1.8	0.3	0.5	7.57	1.32		15
22	789243	515,000	35,045.60	5.40	100	8	100	0	0	1.5	1.8	0.3	0.7	5.31	1.70		8
23	789312	0	35,045.60	0.00	100	0	100	0	0	1.5	1.8	0.3	0.7	5.31			8
24	789312	0	35,045.60	0.00	100	0	100	0	0	1.5	1.8	0.3	0.7	5.31			8
25	789312	0	35,045.60	0.00	100	0	100	0	0	1.5	1.8	0.3	0.7	5.31			8
26	789502	285,000	35,045.60	3.60	146	6	146	0	0	1.5	1.8	0.3	0.6	4.46	0.85	11.94	15
27	789420	815,000	35,045.60	3.20	123	12	123	0	0	1.5	1.8	0.3	0.6	4.46	0.85	11.94	15
28	790736	216,000	35,045.60	3.90	128	1	128	0	0	1.5	1.8	0.3	0.6	4.46	0.85	11.94	15
29	790812	0	35,045.60	0.00	127	0	127	0	0	1.5	1.8	0.3	0.6	4.46	0.85	11.94	15
30	790812	0	35,045.60	0.00	127	0	127	0	0	1.5	1.8	0.3	0.6	4.46	0.85	11.94	15
31	790812	0	35,045.60	0.00	127	0	127	0	0	1.5	1.8	0.3	0.6	4.46	0.85	11.94	15

AVERAGE
TOTAL

0.95

134

3,745,400 194.50

134

VERIFY THIS INFORMATION TO BE ACCURATE

WE USE 1500 GALLONS GAS EXHAUSTERS, 1500 GALLONS LOSTS, AND
FULL STRENGTH FOR FLORIDATION AND 100 PPM STRENGTH FOR 1950

OFF 8-429

MTR. (MGAL) GAL. PUMPED ELEC. READ DIFF. FL. WAT. USED 1400 TOT. WET. F. TEST CL. TANK. USED 1400 RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PWD. GAL. USED GAL. AND TOT. GAL. PWD. STA. PWD. DIST.

1	768410	0	35849.90	0	58	0	41	0	93	1.05	20	0	150	1.7	2.0	0.6	0.8	15.00
2	768731	1,321,000	35876.80	16.90	75	24	24	0	73	1.0	145	25	0	1.2	1.4	0.9	1.2	10.41
3	770781	1,050,000	35850.30	13.50	25	19	107	107	163	1.02	128	17	0	1.7	2.0	0.7	1.0	5.40
4	770781	0	35840.30	0.00	163	0	0	0	163	1.05	128	0	0	1.1	1.5	0.5	0.7	7.01
5	771462	581,000	35839.10	8.80	151	12	12	0	151	1.1	114	24	0	0	0	0	0	4.90
6	771462	0	35899.10	0.00	151	0	0	0	151	1.1	114	0	0	0	0	0	0	4.90
7	771462	0	35839.10	0.00	151	0	0	0	151	1.0	112	0	0	1.1	1.2	0.6	0.9	4.90
8	772453	993,000	35911.70	12.60	135	16	0	0	135	1.09	96	10	0	1.3	1.6	0.4	0.8	4.90
9	772453	0	35911.70	0.00	135	0	0	0	135	1.05	96	0	0	1.0	1.2	0.2	0.5	15.00
10	772569	1,050,000	35925.10	12.40	115	20	0	0	115	1.05	77	5	0	1.5	1.9	0.4	0.8	11.42
11	772569	0	35925.10	0.00	115	0	0	0	115	1.09	77	0	0	1.1	1.5	0.5	0.9	11.42
12	774194	685,000	35923.80	8.70	103	12	0	0	103	1.1	64	13	0	0	0	0	0	11.42
13	774271	78,000	35924.80	1.00	101	2	0	0	101	1.1	52	7	0	0	0	0	0	11.42
14	774271	0	35934.80	0.00	101	0	0	0	101	0.98	62	0	0	0.7	1.2	0.5	1.2	8.30
15	774271	0	35934.80	0.00	101	0	0	0	101	1.04	62	0	0	0.9	1.6	0.5	0.9	8.30
16	775232	950,000	35945.90	12.10	85	16	0	0	85	1.01	47	15	0	1.3	1.6	0.5	0.9	2.40
17	775232	0	35945.90	0.00	85	0	0	0	85	0.9	47	0	0	0.9	1.4	0.4	0.7	5.48
18	776237	1,015,000	35955.60	12.90	67	12	0	0	67	1.02	20	17	0	0	0	0	0	2.42
19	776237	0	35955.60	0.00	67	0	0	0	67	1.0	30	0	0	0	0	0	0	12.50
20	776237	0	35955.60	0.00	67	0	0	0	67	1.1	20	0	0	0	0	0	0	12.50
21	776237	0	35955.60	0.00	67	0	0	0	67	1.1	36	0	0	0.5	0.8	0.4	0.7	12.50
22	777244	1,007,000	35972.50	12.70	49	18	0	0	49	1.1	14	18	0	1.2	1.7	0.5	0.7	11.24
23	777244	0	35972.50	0.00	49	0	0	0	49	1.1	14	0	0	1.2	1.7	0.5	0.7	11.24
24	778216	1,072,000	35986.10	12.60	30	19	0	0	30	0.93	0	0	0	1.1	1.7	0.5	0.7	2.74
25	778216	0	35986.10	0.00	30	0	0	0	30	1.0	0	0	0	1.1	1.7	0.5	0.7	2.74
26	779461	982,000	36000.60	12.40	14	16	0	0	14	1.01	148	0	0	1.3	1.8	0.5	0.9	3.31
27	779461	0	36000.60	0.00	14	0	0	0	14	1.0	148	0	0	1.3	1.8	0.5	0.9	3.31
28	779542	81,000	36001.70	12.0	150	2	0	0	150	1.0	134	0	0	1.2	1.7	0.5	0.7	3.44
29	780875	1,232,000	36018.50	12.80	113	21	0	0	113	0.93	120	14	0	1.2	1.7	0.5	0.7	3.44
30	780875	0	36018.50	0.00	113	0	0	0	113	1.0	120	0	0	1.2	1.7	0.5	0.7	3.44
31	782065	972,000	36022.60	12.30	100	16	0	0	100	1.02	104	0	0	1.3	1.8	0.5	0.9	4.75
32	782065	0	36022.60	0.00	100	0	0	0	100	1.0	104	0	0	1.3	1.8	0.5	0.9	4.75
AVERAGE																		6.22
TOTAL		13,657,000																6.22

WE USE 1504 IN-LINE GAS IN-LINERS, WITH PROTECTIVE LINING
FULL STRENGTH OF FLOUTATION AND ALL PROPHASE FOR 100%

WTR. (LOCAL) BAL. POWERED C.S. (SEAD) DIFF. F. (WST) FUSED 0400 TOT. WST. FL. TEST CL. TANK RINGS 0400 RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. BAL. PHOS. BAL. USED BAL. ADJ. TOT. BAL. PHOS. TOT. PHOS. DIST.

1	736237	835,000	35437.40	11.10	89	13	55	1.01	0	1.2	1.2	0.4	0.9	1.91	2.89	12.09	13.06
2	737440	1,143,000	35452.50	15.10	70	19	70	0.99	0	1.5	1.5	0.6	0.9	10.82	4.98		12
3	738592	1,152,000	35467.80	15.30	51	39	51		0					7.01	3.81	7	7
4	739159	557,000	35475.10	7.30	42	9	42		0					5.14	1.43	5	5
5	739755	506,000	35482.90	7.80	37	5	37	1.06	0	1.1	1.3	0.3	0.5	3.19	2.04	11.90	13
6	740237	472,000	35483.30	6.40	68	0	68	1.05	0	1.2	1.5	0.6	0.9	12.30	1.70	13	13
7	741421	1,184,000	35504.80	15.50	49	19	49	0.92	0	1.0	1.0	0.7	1.2	9.22	4.08	9	9
8	741590	169,000	35507.10	2.30	46	3	46	0.96	0	1.4	1.8	0.5	0.7	8.54	0.48	9	9
9	742511	1,027,000	35520.20	12.20	145	20	145	1.04	0	1.4	1.7	0.6	0.9	3.14	2.40	2	2
10	742581	0	35526.30	7.00	145	0	145		0					3.14		2	2
11	742511	0	35526.30	0.00	145	0	145		0	0.9	1.3	0.6	0.9	5.14		2	2
12	742611	0	35526.30	0.00	145	0	145	0.95	0	1.3	1.7	0.4	0.7	1.08	2.96	13.26	13
13	742611	852,000	35532.10	11.80	126	19	126	1.03	0	1.3	1.7	0.4	0.7	1.08	2.96	13.26	13
14	743591	128,000	35535.70	1.50	133	3	133	0.99	0	1.2	1.5	0.6	0.9	1.74	0.34	13.26	13
15	744701	1,110,000	35548.30	14.50	101	21	101	1.02	0	1.5	1.8	0.8	0.9	11.09	2.81	13.26	13
16	744844	212,000	35551.70	2.40	95	5	95	1.08	0	1.0	1.0	0.6	0.9	16.17	1.02	1.02	10
17	745077	1,121,000	35556.40	14.70	72	34	72	1.08	0	1.0	1.4	0.6	0.9	1.15	3.91		6
18	746077	0	35561.40	0.00	72	0	72		0					3.14		6	6
19	746077	0	35561.40	0.00	72	0	72		0	0.5	0.8	0.3	0.5	5.18		6	6
20	746597	491,000	35572.80	6.40	95	10	95	1.01	0	1.2	1.2	0.3	0.5	4.43	1.33		13
21	747091	521,500	35578.50	1.30	98	12	98	1.05	0	1.3	1.7	0.6	0.9	1.76	1.87	13.24	13
22	747713	511,000	35587.70	8.10	73	12	73	1.04	0	1.3	1.7	0.6	0.9	11.96	2.84		13
23	748023	328,000	35592.50	4.40	56	7	56	0.98	0	1.6	1.9	0.5	0.7	1.77	1.70		12
24	748131	1,158,000	35607.30	16.20	40	26	40		0					1.61	4.08		8
25	749191	0	35607.30	0.00	40	0	40		0					3.63		8	8
26	749191	0	35607.30	0.00	40	0	40		0	0.9	1.2	0.3	0.5	1.59		8	8
27	750323	1,122,000	35622.20	15.20	124	31	124	0.96	0	1.6	1.7	0.4	0.7	3.78	3.81		14
28	750801	454,000	35629.40	5.90	100	14	100	1.07	0	1.6	1.7	0.5	0.7	1.87	1.87	13.24	13
29	751974	1,107,000	35644.70	14.20	94	25	94	0.96	0	1.5	1.8	0.4	0.7	1.72	4.25		11
30	752361	440,000	35657.80	6.10	84	10	84	1.07	0	1.4	1.8	0.5	0.9	3.22	1.33		9
31	753496	1,126,000	35671.90	15.70	41	24	41		0					3.21	3.91		5
AVERAGE														6.00			
TOTAL		15,034,000		239.50		259										63.67	

CERTIFY THIS INFORMATION TO BE ACCURATE

CEPT. 0143

WE USE 1500 CHLORINE GAS CYLINDERS, 150-POUND CAPACITY, 150 PSI.
FILL STATION FOR FILLING CYLINDERS AND 250-POUND CAPACITY FOR 150 PSI.

MTR. (MGAL) GAL. PUMPED ELEC. READ DIFF. FL. WT. USED ADD 100 WT. FL. TEST CL. TANK USED 1400 RES. PL. FREE RES. FL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PHOS. GAL. USED GAL. AVE TOT. GAL. PHOS. / YR. PHOS. DIST.

1	718141	158,000	35001.70	2.0	50	3	25	75	1.32	56	4	0	1.3	1.6	0.4	0.8	0.37	0.37
2	718966	765,000	35211.30	9.50	61	14	56	51	1.0	55	11	0	1.4	1.7	0.5	0.8	2.28	2.28
3	719760	854,000	35222.40	11.10	47	14	56	51	0.96	41	14	0	1.7	2.0	0.6	0.9	2.09	2.09
4	720894	634,000	35230.50	8.10	91	12	4	9	0.9	30	11	0	1.1	1.4	0.5	0.7	2.20	2.20
5	720894	0	35230.50	0.00	91	0	0	0	0.99	30	0	0	1.1	1.4	0.5	0.7	2.20	2.20
6	721575	1481,000	35245.30	14.80	71	20	71	71	1.2	18	0	0	1.2	1.5	0.6	0.9	4.06	4.06
7	722098	523,000	35251.90	6.50	61	10	0	0	1.09	140	0	0	1.0	1.4	0.5	0.8	3.58	3.58
8	722182	85,000	35252.00	1.10	60	1	33	93	0.95	139	0	0	1.3	1.9	0.6	0.8	3.57	3.57
9	722778	395,000	35258.40	7.40	83	10	0	0	0.93	139	0	0	1.2	1.6	0.5	0.8	3.57	3.57
10	723356	618,000	35268.30	7.80	72	11	0	0	0.92	130	9	0	1.2	1.6	0.5	0.8	3.57	3.57
11	724043	647,000	35275.50	8.20	60	12	0	0	0.98	121	0	0	1.1	1.4	0.6	0.9	3.58	3.58
12	724704	581,000	35285.00	8.50	49	11	113	162	0.92	112	0	0	1.0	1.3	0.6	0.9	3.54	3.54
13	725275	521,000	35291.70	5.70	154	0	0	154	0.94	104	0	0	1.0	1.3	0.6	0.9	3.54	3.54
14	725275	0	35291.70	0.00	154	0	0	154	0.94	104	0	0	1.0	1.3	0.6	0.9	3.54	3.54
15	725275	0	35291.70	0.00	154	0	0	154	0.94	104	0	0	1.0	1.3	0.6	0.9	3.54	3.54
16	726230	1,008,000	35294.80	12.10	137	17	0	137	0.96	88	16	0	1.2	1.6	0.5	0.8	2.78	2.78
17	727352	1,159,000	35310.10	15.20	120	12	0	120	1.0	70	18	0	1.4	1.8	0.5	0.9	3.32	3.32
18	728025	651,000	35323.40	5.30	108	12	0	108	0.92	59	11	0	1.0	1.4	0.6	0.9	3.54	3.54
19	729241	1,156,000	35344.70	15.30	90	18	0	90	0.92	40	19	0	1.2	1.6	0.5	0.9	3.52	3.52
20	729877	536,000	35352.20	8.60	77	13	0	77	0.95	36	16	0	1.0	1.4	0.6	0.9	3.52	3.52
21	729877	0	35352.20	0.00	77	0	0	77	0.95	36	0	0	1.0	1.4	0.6	0.9	3.52	3.52
22	729877	79,000	35354.40	1.10	76	1	0	76	0.94	29	1	0	1.0	1.4	0.6	0.9	3.52	3.52
23	731050	1,094,000	35368.50	14.20	50	16	0	50	0.91	11	13	139	1.2	1.6	0.5	0.8	2.78	2.78
24	731280	238,000	35371.90	3.90	57	3	109	166	0.92	146	4	0	1.0	1.4	0.6	0.9	3.52	3.52
25	731452	1,154,000	35387.80	15.10	149	17	0	149	0.93	137	13	0	1.0	1.4	0.6	0.9	3.52	3.52
26	732011	794,000	35397.90	7.00	137	12	0	137	0.95	120	11	0	1.0	1.4	0.6	0.9	3.52	3.52
27	732920	795,000	35408.30	9.30	125	17	0	125	0.98	110	10	0	1.2	1.6	0.5	0.8	2.78	2.78
28	733911	0	35416.90	0.00	126	0	0	126	0.98	110	0	0	1.2	1.6	0.5	0.8	2.78	2.78
29	733911	0	35416.90	0.00	126	0	0	126	0.98	110	0	0	1.2	1.6	0.5	0.8	2.78	2.78
30	735057	1,142,000	35427.10	14.70	109	17	0	109	0.98	95	15	0	1.2	1.6	0.5	0.8	2.78	2.78
31	735460	395,000	35436.30	5.20	102	1	0	102	0.92	56	5	0	1.0	1.4	0.6	0.9	3.52	3.52
AVERAGE		7,477,000	356.50	287											3.52			
TOTAL		7,477,000	356.50	287											3.52			

WE USE 1500 CHLORINE GAS CYLINDERS, REPLYING LOS 10.10 AVE
FULL STRENGTH FOR FLUORINATED AND 20% PHOSPHATE TOP 100N

100% OF THIS INFORMATION IS ACCURATE

100% OF THIS

SYNAGINE FL. CL. PHOS. DETAILS CO. 27 JUNE 1981

WTR. (INGAL) GAL. PUMPER ELEC. READ DIFF. TENS. BUSS 9400 TOT. WTR. FL. TEST CL. TAND 4050 9400 RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PNC. GAL. UNDER 9400/4050 100.00 GAL. PNC. 9400.0000

	704430	704431	704432	704433	704434	704435	704436	704437	704438	704439	704440	704441	704442	704443	704444	704445	704446	704447	704448	704449	704450	704451	704452	704453	704454	704455	704456	704457	704458	704459	704460	704461	704462	704463	704464	704465	704466	704467	704468	704469	704470	704471	704472	704473	704474	704475	704476	704477	704478	704479	704480	704481	704482	704483	704484	704485	704486	704487	704488	704489	704490	704491	704492	704493	704494	704495	704496	704497	704498	704499	704500	704501	704502	704503	704504	704505	704506	704507	704508	704509	704510	704511	704512	704513	704514	704515	704516	704517	704518	704519	704520	704521	704522	704523	704524	704525	704526	704527	704528	704529	704530	704531	704532	704533	704534	704535	704536	704537	704538	704539	704540	704541	704542	704543	704544	704545	704546	704547	704548	704549	704550	704551	704552	704553	704554	704555	704556	704557	704558	704559	704560	704561	704562	704563	704564	704565	704566	704567	704568	704569	704570	704571	704572	704573	704574	704575	704576	704577	704578	704579	704580	704581	704582	704583	704584	704585	704586	704587	704588	704589	704590	704591	704592	704593	704594	704595	704596	704597	704598	704599	704600	704601	704602	704603	704604	704605	704606	704607	704608	704609	704610	704611	704612	704613	704614	704615	704616	704617	704618	704619	704620	704621	704622	704623	704624	704625	704626	704627	704628	704629	704630	704631	704632	704633	704634	704635	704636	704637	704638	704639	704640	704641	704642	704643	704644	704645	704646	704647	704648	704649	704650	704651	704652	704653	704654	704655	704656	704657	704658	704659	704660	704661	704662	704663	704664	704665	704666	704667	704668	704669	704670	704671	704672	704673	704674	704675	704676	704677	704678	704679	704680	704681	704682	704683	704684	704685	704686	704687	704688	704689	704690	704691	704692	704693	704694	704695	704696	704697	704698	704699	704700	704701	704702	704703	704704	704705	704706	704707	704708	704709	704710	704711	704712	704713	704714	704715	704716	704717	704718	704719	704720	704721	704722	704723	704724	704725	704726	704727	704728	704729	704730	704731	704732	704733	704734	704735	704736	704737	704738	704739	704740	704741	704742	704743	704744	704745	704746	704747	704748	704749	704750	704751	704752	704753	704754	704755	704756	704757	704758	704759	704760	704761	704762	704763	704764	704765	704766	704767	704768	704769	704770	704771	704772	704773	704774	704775	704776	704777	704778	704779	704780	704781	704782	704783	704784	704785	704786	704787	704788	704789	704790	704791	704792	704793	704794	704795	704796	704797	704798	704799	704800	704801	704802	704803	704804	704805	704806	704807	704808	704809	704810	704811	704812	704813	704814	704815	704816	704817	704818	704819	704820	704821	704822	704823	704824	704825	704826	704827	704828	704829	704830	704831	704832	704833	704834	704835	704836	704837	704838	704839	704840	704841	704842	704843	704844	704845	704846	704847	704848	704849	704850	704851	704852	704853	704854	704855	704856	704857	704858	704859	704860	704861	704862	704863	704864	704865	704866	704867	704868	704869	704870	704871	704872	704873	704874	704875	704876	704877	704878	704879	704880	704881	704882	704883	704884	704885	704886	704887	704888	704889	704890	704891	704892	704893	704894	704895	704896	704897	704898	704899	704900	704901	704902	704903	704904	704905	704906	704907	704908	704909	704910	704911	704912	704913	704914	704915	704916	704917	704918	704919	704920	704921	704922	704923	704924	704925	704926	704927	704928	704929	704930	704931	704932	704933	704934	704935	704936	704937	704938	704939	704940	704941	704942	704943	704944	704945	704946	704947	704948	704949	704950	704951	704952	704953	704954	704955	704956	704957	704958	704959	704960	704961	704962	704963	704964	704965	704966	704967	704968	704969	704970	704971	704972	704973	704974	704975	704976	704977	704978	704979	704980	704981	704982	704983	704984	704985	704986	704987	704988	704989	704990	704991	704992	704993	704994	704995	704996	704997	704998	704999	705000	705001	705002	705003	705004	705005	705006	705007	705008	705009	705010	705011	705012	705013	705014	705015	705016	705017	705018	705019	705020	705021	705022	705023	705024	705025	705026	705027	705028	705029	705030	705031	705032	705033	705034	705035	705036	705037	705038	705039	705040	705041	705042	705043	705044	705045	705046	705047	705048	705049	705050	705051	705052	705053	705054	705055	705056	705057	705058	705059	705060	705061	705062	705063	705064	705065	705066	705067	705068	705069	705070	705071	705072	705073	705074	705075	705076	705077	705078	705079	705080	705081	705082	705083	705084	705085	705086	705087	705088	705089	705090	705091	705092	705093	705094	705095	705096	705097	705098	705099	705100	705101	705102	705103	705104	705105	705106	705107	705108	705109	705110	705111	705112	705113	705114	705115	705116	705117	705118	705119	705120	705121	705122	705123	705124	705125	705126	705127	705128	705129	705130	705131	705132	705133	705134	705135	705136	705137	705138	705139	705140	705141	705142	705143	705144	705145	705146	705147	705148	705149	705150	705151	705152	705153	705154	705155	705156	705157	705158	705159	705160	705161	705162	705163	705164	705165	705166	705167	705168	705169	705170	705171	705172	705173	705174	705175	705176	705177	705178	705179	705180	705181	705182	705183	705184	705185	705186	705187	705188	705189	705190	705191	705192	705193	705194	705195	705196	705197	705198	705199	705200	705201	705202	705203	705204	705205	705206	705207	705208	705209	705210	705211	705212	705213	705214	705215	705216	705217	705218	705219	705220	705221	705222	705223	705224	705225	705226	705227	705228	705229	705230	705231	705232	705233	705234	705235	705236	705237	705238	705239	705240	705241	705242	705243	705244	705245	705246	705247	705248	705249	705250	705251	705252	705253	705254	705255	705256	705257	705258	705259	705260	705261	705262	705263	705264	705265	705266	705267	705268	705269	705270	705271	705272	705273	705274	705275	705276	705277	705278	705279	705280	705281	705282	705283	705284	705285	705286	705287	705288	705289	705290	705291	705292	705293	705294	705295	705296	705297	705298	705299	705300	705301	705302	705303	705304	705305	705306	705307	705308	705309	705310	705311	705312	705313	705314	705315	705316	705317	705318	705319	705320	705321	705322	705323	705324	705325	705326	705327	705328	705329	705330	705331	705332	705333	705334	705335	705336	705337	705338	705339	705340	705341	705342	705343	705344	705345	705346	705347	705348	705349	705350	705351	705352	705353	705354	705355	705356	705357	705358	705359	705360	705361	705362	705363	705364	705365	705366	705367	705368	705369	705370	705371	705372	705373	705374	705375	705376	705377	705378	705379	705380	705381	705382	705383	705384	705385	705386	705387	705388	705389	705390	705391	705392	705393	705394	705395	705396	705397	705398	705399	705400	705401	705402	705403	705404	705405	705406	705407	705408	705409	705410	705411	705412	705413	705414	705415	705416	705417	705418	705419	705420	705421	705422	705423	705424	705425	705426	705427	705428	705429	705430	705431	705432	705433	705434	705435	705436	705437	705438	705439	705440	705441	705442	705443	705444	705445	705446	705447	705448	705449	705450	705451	705452	705453	705454	705455	705456	705457	705458	705459	705460	705461	705462	705463	705464	705465	705466	705467	705468	705469	705470	705471	705472	705473	705474	705475	705476	705477	705478	705479	705480	705481	705482	705483	705484	705485	705486	705487	705488	705489	705490	705491	705492	705493	705494	705495	705496	705497	705498	705499	705500	705501	705502	705503	705504	705505	705506	705507	705508	705509	705510	705511	705512	705513	705514	705515	705516	705517	705518	705519	705520	705521	705522	705523	705524	705525	705526	705527	705528	705529	705530	705531	705532	7
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MONTH OF 1901 MAY

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONEY ACQUICENT, WATER SUPPLY
REG. #2830

MONTH OF April 1948

DETAILS COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL #

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. USED TANK	LBS. CHL. TANK	RESIDUAL-PLANT FREE	TOTAL	RESIDUAL FREE	SIS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST EAST
1 449 945	—	34743.1	—	78	—	—	—	1.02	1.8	—	1.0	1.8	7	1.0	5.82	—	—	—	—
2 670 370	465,000	34228.2	5.1	73	—	—	—	1.9	6.2	6	1.1	1.3	2	1.8	3.91	1.82	—	—	—
3 180 916	340,500	34235.4	5.4	66	—	—	—	1.0	5.0	9	1.2	1.3	2	1.9	3.81	1.54	16.87	—	—
4 181 172	354,000	34238.0	4.4	60	6	—	—	1.02	5.0	6	1.1	1.4	6	1.9	3.82	1.87	—	—	—
5 681 365	193,000	34240.0	2.4	54	7	—	—	1.0	7.8	2	1.6	1.4	6	1.8	13.47	1.54	—	—	—
6 681 593	528,000	34246.9	6.5	78	8	—	—	1.0	4.0	8	1.6	1.4	6	1.8	12.28	3.09	—	—	—
7 681 593	—	34246.9	—	78	—	—	—	—	4.0	—	—	—	—	—	12.08	—	—	—	—
8 681 593	—	34246.9	—	78	—	—	—	1.02	4.0	—	1.9	1.2	7	1.7	12.08	—	—	—	—
9 681 593	540,000	34252.0	6.7	40	8	120	160	1.01	2.5	1	1.0	1.3	7	1.7	10.41	1.82	—	—	—
10 681 593	417,000	34258.7	5.1	154	—	—	—	1.8	2.5	5	1.3	1.6	6	1.9	8.05	1.72	—	—	—
11 681 593	—	34258.7	—	154	—	—	—	1.0	2.8	—	1.3	1.6	8	1.9	8.05	—	—	—	—
12 683 328	412,000	34264.6	5.9	145	9	—	—	1.9	1.8	10	1.3	1.4	3	1.6	7.09	1.54	—	—	—
13 683 693	345,000	34269.1	7.5	140	8	—	—	1.9	7	124	—	—	—	—	6.52	1.11	—	—	—
14 683 693	—	34269.1	—	140	—	—	—	—	—	—	—	—	—	—	6.52	—	—	—	—
15 683 693	—	34269.1	—	140	—	—	—	1.91	—	—	1.4	1.6	1.3	1.2	6.00	—	—	—	—
16 684 120	477,000	34275.0	5.9	134	6	—	—	1.9	6	2	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
17 684 641	471,000	34276.9	5.9	125	9	—	—	1.9	6	2	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
18 685 086	405,000	34280.4	5.0	112	8	—	—	1.98	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
19 685 570	400,000	34282.0	6.0	102	7	—	—	1.98	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
20 686 054	489,000	34289.4	6.0	105	3	—	—	1.98	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
21 686 054	—	34289.4	—	105	—	—	—	—	—	—	—	—	—	—	5.90	—	—	—	—
22 686 054	—	34289.4	—	105	—	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
23 686 578	520,000	34299.9	6.5	94	7	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
24 687 570	403,000	34311.1	6.6	88	9	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
25 687 593	500,000	34327.5	6.4	89	9	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
26 688 593	473,000	34329.5	6.6	70	8	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
27 688 593	405,000	34340.8	6.3	84	5	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
28 688 593	—	34340.8	—	84	—	—	—	—	—	—	—	—	—	—	5.90	—	—	—	—
29 688 593	—	34340.8	—	84	—	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—
30 689 054	449,000	34355.5	5.2	76	7	—	—	1.9	—	—	1.4	1.6	1.3	1.2	5.90	1.74	—	—	—

20730 24 1000 20

WE USE 150M CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

1 CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STANLEY ALBRECHT, WATER SUPV

CERT. #2439

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEWALB COUNTY

MONTH OF 05-2019

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT		RESIDUAL FREE	DIST. STS.		GALS. ADDED	GALS. USED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST BIST.
										FREE	TOTAL	FREE	TOTAL	PHOSPHATE					
1 648 729	819 400	375551	10.2	142	19			101	12	1.1	1.8	3	6	0.07	2.28				
2 645 524	578 200	375554	3	128	14			29	11										
3 645 524		375554						29											
4 645 524		375554						29		1.1	1.4	3	6	0.19	2.5				
5 646 639	515 000	375554	6.8	116	12			90	22	1.2	1.6	3	6	0.19	2.5				
6 646 588	558 200	375554	7.0	105	11			105	12	1.2	1.6	3	6	0.19	2.5				
7 648 200	145 500	375555	17.7	70	34			107		1.5	1.7	4	6	1.70	3.71	3.20			
8 648 548	848 000	375555	10.0	50	00	15	165	108	14	1.5	1.4	3	3	1.28	2.21				
9 649 485	375 200	375555	5.0	148	12				1	1.00					1.08	1.10			
10 649 485		375555																	
11 649 268	1223 100	375555	15.2	105	39			107	32	1.5	1.8	8	9	1.70	3.21				
12 649 468	759 000	375555	9.4	95	20	38	135	102	12	1.5	1.6	3	3	1.70	3.21				
13 649 325	349 000	375555	6.4	6	23			101	4	1.5	1.6	3	3	1.70	3.21				
14 649 287	192 100	375555	9.9	94	31			107	10	1.5	1.6	3	3	1.70	3.21				
15 649 208	85 000	375555	12.2	47	22	47	94	105	18	1.5	1.6	3	3	1.70	3.21				
16 649 208	684 000	375555	9.0	32	22			105	18	1.5	1.6	3	3	1.70	3.21				
17 649 608		375555							8						1.70	3.21			
18 649 780	180 200	375555	14.0	148	33	57	143	122	18	1.5	1.6	3	3	1.70	3.21				
19 649 225	429 000	375555	5.4	150	13			107	4	1.5	1.6	3	3	1.70	3.21				
20 649 675	749 100	375555	5.4	137	15			107	4	1.5	1.6	3	3	1.70	3.21				
21 649 085	46 000	375555	5.0	120	10			107	4	1.5	1.6	3	3	1.70	3.21				
22 649 235	352 000	375555	4.2	120	6			107	4	1.5	1.6	3	3	1.70	3.21				
23 649 735	749 200	375555	4.9	14	4			107	4	1.5	1.6	3	3	1.70	3.21				
24 649 625		375555							4						1.70	3.21			
25 649 535		375555							4						1.70	3.21			
26 649 250	421 000	375555	5.2	107	7			107	4	1.5	1.6	3	3	1.70	3.21				
27 649 658	462 000	375555	5.0	100	7			107	4	1.5	1.6	3	3	1.70	3.21				
28 649 114	46 000	375555	5.2	92	8			107	4	1.5	1.6	3	3	1.70	3.21				
29 649 265	501 000	375555	16.7	128	12			107	4	1.5	1.6	3	3	1.70	3.21				
30 649 303		375555		78				107	4	1.5	1.6	3	3	1.70	3.21				
31 649 305		375555						107	4	1.5	1.6	3	3	1.70	3.21				

15 649 200

974

307

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 321 PHOSPHATE FOR 150#.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONY KUBRICK, WATER SUPT.
CERT. #2419

WELL # 1 NORTH OF Sub. 1991

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL # 1

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. USED	CHL. TANK	RESIDUAL FREE	PLANT TOTAL	RESIDUAL FREE	SYS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 1659 822	457,020	344,103	57	76	5	34	110	100	1	1	1	1	1	1	1	1	1	1	1
2 1655 236	414,000	344,103	52	101	9	—	—	—	8	8	—	—	—	—	—	—	—	—	—
3 1655 236	—	344,103	—	151	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 1655 236	—	344,103	—	181	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5 1655 997	561,000	344,103	69	89	12	—	—	—	8	8	—	—	—	—	—	—	—	—	—
6 1655 264	507,000	344,103	71	77	12	—	—	—	8	8	—	—	—	—	—	—	—	—	—
7 1655 961	497,000	344,103	62	66	11	—	—	—	8	8	—	—	—	—	—	—	—	—	—
8 1655 348	457,000	344,103	58	58	8	107	107	99	32	32	9	12	9	3	39	109	—	—	—
9 1657 755	437,000	344,103	55	54	11	—	—	—	24	24	—	—	—	—	—	—	—	—	—
10 1657 755	—	344,103	—	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11 1658 196	447,000	344,103	54	107	11	—	—	—	12	12	—	—	—	—	—	—	—	—	—
12 1658 677	487,000	344,103	60	105	12	—	—	—	12	12	—	—	—	—	—	—	—	—	—
13 1659 163	458,000	344,103	60	105	11	—	—	—	12	12	—	—	—	—	—	—	—	—	—
14 1659 667	524,000	344,103	63	107	13	—	—	—	18	18	—	—	—	—	—	—	—	—	—
15 1660 108	741,000	344,103	55	94	6	—	—	—	12	12	—	—	—	—	—	—	—	—	—
16 1660 108	—	344,103	—	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17 1660 108	—	344,103	—	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18 1660 108	—	344,103	—	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19 1660 566	458,000	344,103	56	83	10	—	—	—	12	12	—	—	—	—	—	—	—	—	—
20 1661 004	458,000	344,103	54	74	11	—	—	—	12	12	—	—	—	—	—	—	—	—	—
21 1661 784	445,000	344,103	61	83	6	45	104	99	2	2	—	—	—	—	—	—	—	—	—
22 1661 046	487,000	344,103	18	104	4	—	—	—	12	12	—	—	—	—	—	—	—	—	—
23 1661 172	—	344,103	—	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24 1661 072	—	344,103	—	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25 1661 072	—	344,103	—	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26 1662 740	741,000	344,103	91	93	19	—	—	—	12	12	—	—	—	—	—	—	—	—	—
27 1663 273	833,000	344,103	104	84	21	—	—	—	12	12	—	—	—	—	—	—	—	—	—
28 1664 16	537,000	344,103	103	83	21	—	—	—	12	12	—	—	—	—	—	—	—	—	—

974600

121.1

2.2

3.1

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 350# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

EMERY ALBRECHT, WATER SUPT.
CERT. #1409

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEARBORN COUNTY

MOUTH OF JACKSON

1931

WELL # 1

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL DIST. 515 FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 653.50	1	15.50		1.1									5.5				
2 654.50	1	15.50						1.0									
3 655.50	1	15.50						1.0									
4 656.50	1	15.50						1.0									
5 657.50	1	15.50						1.0									
6 658.50	1	15.50						1.0									
7 659.50	1	15.50						1.0									
8 660.50	1	15.50						1.0									
9 661.50	1	15.50						1.0									
10 662.50	1	15.50						1.0									
11 663.50	1	15.50						1.0									
12 664.50	1	15.50						1.0									
13 665.50	1	15.50						1.0									
14 666.50	1	15.50						1.0									
15 667.50	1	15.50						1.0									
16 668.50	1	15.50						1.0									
17 669.50	1	15.50						1.0									
18 670.50	1	15.50						1.0									
19 671.50	1	15.50						1.0									
20 672.50	1	15.50						1.0									
21 673.50	1	15.50						1.0									
22 674.50	1	15.50						1.0									
23 675.50	1	15.50						1.0									
24 676.50	1	15.50						1.0									
25 677.50	1	15.50						1.0									
26 678.50	1	15.50						1.0									
27 679.50	1	15.50						1.0									
28 680.50	1	15.50						1.0									
29 681.50	1	15.50						1.0									
30 682.50	1	15.50						1.0									
31 683.50	1	15.50						1.0									
32 684.50	1	15.50						1.0									
33 685.50	1	15.50						1.0									
34 686.50	1	15.50						1.0									
35 687.50	1	15.50						1.0									
36 688.50	1	15.50						1.0									
37 689.50	1	15.50						1.0									
38 690.50	1	15.50						1.0									
39 691.50	1	15.50						1.0									
40 692.50	1	15.50						1.0									
41 693.50	1	15.50						1.0									
42 694.50	1	15.50						1.0									
43 695.50	1	15.50						1.0									
44 696.50	1	15.50						1.0									
45 697.50	1	15.50						1.0									
46 698.50	1	15.50						1.0									
47 699.50	1	15.50						1.0									
48 700.50	1	15.50						1.0									
49 701.50	1	15.50						1.0									
50 702.50	1	15.50						1.0									
51 703.50	1	15.50						1.0									
52 704.50	1	15.50						1.0									
53 705.50	1	15.50						1.0									
54 706.50	1	15.50						1.0									
55 707.50	1	15.50						1.0									
56 708.50	1	15.50						1.0									
57 709.50	1	15.50						1.0									
58 710.50	1	15.50						1.0									
59 711.50	1	15.50						1.0									
60 712.50	1	15.50						1.0									
61 713.50	1	15.50						1.0									
62 714.50	1	15.50						1.0									
63 715.50	1	15.50						1.0									
64 716.50	1	15.50						1.0									
65 717.50	1	15.50						1.0									
66 718.50	1	15.50						1.0									
67 719.50	1	15.50						1.0									
68 720.50	1	15.50						1.0									
69 721.50	1	15.50						1.0									
70 722.50	1	15.50						1.0									
71 723.50	1	15.50						1.0									
72 724.50	1	15.50						1.0									
73 725.50	1	15.50						1.0									
74 726.50	1	15.50						1.0									
75 727.50	1	15.50						1.0									
76 728.50	1	15.50						1.0									
77 729.50	1	15.50						1.0									
78 730.50	1	15.50						1.0									
79 731.50	1	15.50						1.0									
80 732.50	1	15.50						1.0									
81 733.50	1	15.50						1.0									
82 734.50	1	15.50						1.0									
83 735.50	1	15.50						1.0									
84 736.50	1	15.50						1.0									
85 737.50	1	15.50						1.0									
86 738.50	1	15.50						1.0									
87 739.50	1	15.50						1.0									
88 740.50	1	15.50						1.0									
89 741.50	1	15.50						1.0									
90 742.50	1	15.50						1.0									
91 743.50	1	15.50						1.0									
92 744.50	1	15.50						1.0									
93 745.50	1	15.50						1.0									
94 746.50	1	15.50						1.0									
95 747.50	1	15.50						1.0									
96 748.50	1	15.50						1.0									
97 749.50	1	15.50						1.0									
98 750.50	1	15.50						1.0									
99 751.50	1	15.50						1.0									
100 752.50	1	15.50						1.0									

7.25

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, TVAL STRENGTH FLUORIDATION AND 32% PHOSPHATE FOR PHOS.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONEY ELECTRIC, WATER SUPPLY
CENT. #24W

WELL # 1

SYCAMORE COUNTY

MONTH OF December 1960

SYCAMORE FLUORINATION, CHLORINATION & PHOSPHATE REPORT

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL OIST. S.S.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST
1 647 792	484 50	34322.5	4.1	119	13			20	8				13.81	1.19			
2 647 792		34322.8		114				20					13.81				
3 647 792		34322.8		112				20					13.81				
4 648 285	493 84	34322.8	6.1	103	11		107		7 073 50	8.5	8.5	6.9	12.08	1.36			
5 648 734	449 00	34332.2	5.7	92	10		98		6 122 11	10	10	10	11.08	1.36			
6 649 100	450 80	34332.2		80	13		111		7 100 11	17	17	6	3.23	1.36			
7 649 626	426 00	34345.5	5.3	72	10		105		6 180 11	18	18	6.0	8.71	1.02			
8 650 040	414 00	34350.7	5.2	60	10				4 110				3.52	6.9			
9 650 040		34350.7							120				3.52				
10 650 524	484 00	34350.7	6.0	50	10		102		100 10	13	13	6.9	3.52				
11 650 524	39 10	34357.5	8	42	3		97		1 10 10	13	13	6	8	5.82	1.34		
12 650 524		34357.5		41			9		10 11 14	14	14	3	7	5.82			
13							0.08		11 11 14	14	14						
14																	
15																	
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I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 1504-CHLORINE GAS CYLINDERS FOR CHLORINATION, 255-HYDROFLUOSILIC ACID, FINAL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR 160W.

STONY ALBERT, WATER SUPPLY
CENT. #2439

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT															DETAILS COUNTY		MONTH OF		PHOS. TEST FINISHED	
METER READING (1000 GALS.)	ELECTRIC READING	DIFF.	FL. WT. USED	LBS. ADDED	TOTAL FLUORIDE TEST WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL BIST. 5% FREE	TOTAL	GALS. ADDED	TOTAL GALLONS	PHOS. TEST DIST.						
1 63745.9	34806	45	7	100	100		8.28	11	11	4	8	7.55	76							
2 63844.9	34750	6.3	35	100	361	101	8.20	11	11	6	5	5.12	176							
3 63875.8	34700	50	45	100			8.12					4.24	188							
4 63889.8	34200											4.24								
5 63895.8	34200											4.24								
6 63957.3	34200	60	32	100			8.20	11	12	4	8	2.11	176							
7 63978.8	34200	5.8	12.3	10	100	140	8.10	11	12	6	8	12.41	183							
8 64053.0	34200	7.8	100	100	150	60	8.10	11	12	4	3	11.77	180							
9 64166.8	34200	86.7	100	100	150	50	8.10	11	12	4	3	11.77	180							
10 64197.0	34200	51	100	100	150	10	8.10	11	12	4	3	11.77	180							
11 64197.0	34200																			
12 64197.0	34200																			
13 64197.0	34200																			
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96 64197.0	34200																			
97 64197.0	34200																			
98 64197.0	34200																			
99 64197.0	34200																			
100 64197.0	34200																			

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYDNEY ALBERTSON, DEPUTY SUPERVISOR

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL # 7

9401 25

WE USE 100% CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROCHLORIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR 100.

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. SYS FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED-DIST.	PHOS. TEST
1 629242		37242	-	8			145	95		8	11	13	4	14			
2 629242		37242	-	74			187	95		10	13	13	4	14			
3 629242		37242	-	6242	20		79	95		13	16	3	5	14			
4 629242	915.44	37242	12.8	55	27		90	19	16	16	16	5	9	1624	110		
5 629242	540.20	37242	4.8	44	11	122	10	18		11	10	16	5	1624	130		
6 629242	506.66	37242	7.2	148	16		10	50	12					810	18		
7 629242	78.11	37242	10	126	2			79	2					785	12		
8 629242	57.40	37242	6.8	121	35		10	84	4	12	12	3	5	785			
9 629242	57.40	37242	4.9	121	10		10	70	8	10	13	2	4	658	2.30		
10 629242	965.20	37242	12.8	95	20		12	7	17	12	13	2	7	276	8.70		
11 629242	624.65	37242	9.5				100	37		12	13	3	5	650	15		
12 629242	624.65	37242	8.1	74	19			12						12.2	15		
13 629242	57.40	37242															
14 629242	57.40	37242															
15 629242	57.40	37242															
16 629242	57.40	37242															
17 629242	57.40	37242															
18 629242	57.40	37242															
19 629242	57.40	37242															
20 629242	57.40	37242															
21 629242	57.40	37242															
22 629242	57.40	37242															
23 629242	57.40	37242															
24 629242	57.40	37242															
25 629242	57.40	37242															
26 629242	57.40	37242															
27 629242	57.40	37242															
28 629242	57.40	37242															
29 629242	57.40	37242															
30 629242	57.40	37242															

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

WE USE 150M CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

STONY ALBERT WATER SUPPLY

CENT 42439

WELL # 1

DEALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

MONTH OF SEPT 1950

METER READING (1000 GALS.)	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. CHL. TANK	RESIDUAL CHL. TANK	RESIDUAL PLANT	RESIDUAL TEST	FREE	TOTAL	FREE	TOTAL	PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST
1 624952	340308	-	129	-	140	-	-	-	-	-	-	-	122	-	-	-	-
2 624952	340308	-	129	-	140	-	-	-	-	-	-	-	122	-	-	-	-
3 624952	340308	-	129	-	140	-	-	-	-	-	-	-	122	-	-	-	-
4 624952	340308	-	129	-	140	-	-	-	-	-	-	-	122	-	-	-	-
5 625538	340308	76	115	14	140	10	20	34	4	7	7	7	769	153	-	-	-
6 626234	340475	91	105	15	140	14	21	24	5	9	9	9	828	197	-	-	-
7 626888	340557	82	87	13	140	12	24	27	7	6	6	6	835	187	165	15	-
8 627185	340557	45	79	8	140	8	24	27	7	6	6	6	835	187	165	15	-
9 627185	340557	-	79	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
10 627185	340557	-	79	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
11 627242	340557	7	28	6	140	6	5	107	6	12	12	12	1424	08	-	-	-
12 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
13 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
14 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
15 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
16 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
17 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
18 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
19 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
20 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
21 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
22 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
23 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
24 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
25 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
26 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
27 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
28 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
29 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-
30 627242	340557	-	28	-	140	-	-	-	-	-	-	-	1424	08	-	-	-

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 1804 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 35# PHOSPHATE FOR IRON.

TYNDALE REPORT, WATER SUPPLY

WELL NO. 7

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MOUTH OF LEE 1970

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. FREE	SIS. TOTAL	GALS. PHOSPHATE	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 615.603	199.600	3170.2	1.8	121	5		1.2		2 50	11	19	2	9	6.50	10.7	9.5	15	
2 615.725	222.100	3293.7	3.5	115	5		1.7		2 50	10	15	15	11	15.32	16.1			
3 616.051	276.600	3228.2	3.5	109	6		1.9		2 50	17	16	2	6	13.04	14			
4 616.271	280.000	3314.9	2.7	103	6		2.2		2 50					12.18	15.1			
5 616.271	—	3319.0	—	102	—				— 50					13.03	—			
6 616 271	—	3319.0	—	102	—				— 50	7	11	2	7	12.12	—			
7 616 523	553.000	3342.4	6.9	91	13		2.9		10 20	14	14	3	5	11.23	1.20			
8 617 386	563.000	3373.9	7.1	84	13	0.2	1.1		7 23	10	14	7	6	9.90	1.52			
9 617 543	567.100	3454.3	6.0	70	11		1.2		10 2	9	12	3	6	8.89	1.20			
10 618 089	566.000	3447.7	7.6	65	5		1.3		11 18	9	12	6	2	7.91	1.53			
11 618 743	223.000	3285.3	3.4	108	7		1.2		12 4					6.14	1.34			
12 618 760	—	3349.3	—	103	—				—					6.14	—			
13 618 763	—	3350.3	—	103	—				—	2	7	3	6	6.6	—			
14 619 042	230.000	3395.2	2.9	114	7		1.5		9 5	11	7	3	6	5.78	1.08			
15 619 045	523.000	3395.9	—	102	8		1.1		10 2	6	14	4	6	5.21	1.7			
16 619 218	123.000	3397.2	2.3	88	5		1.4		5	5	11	4	2	4.92	1.03	15		
17 619 527	369.000	3396.1	3.9	91	7		1.5		11 14	11	14	11	9	4.49	1.2			
18 619 758	271.000	3396.5	3.4	85	6		1.6		10 8					3.88	1.2			
19 619 768	—	3396.5	—	85	—				—					3.88	—			
20 619 798	—	3396.5	—	85	—				—					3.88	—			
21 619 978	181.000	3396.8	3.3	111	7		1.8		12 4	5	7	7	7	3.8	—			
22 620 522	524.000	3387.4	6.0	100	11	0.1	1.6		14 2	6	16	6	7	3.12	1.48			
23 621 624	1124.000	3295.4	14.2	143	24		1.4		16 2	5	21	5	10	1.42	3.50			
24 621 733	157.000	3295.4	14.2	143	24		1.4		16 2	5	21	5	10	1.42	3.50			
25 622 120	414.000	3295.4	14.2	143	24		1.4		16 2	5	21	5	10	1.42	3.50			
26 622 120	—	3295.4	—	143	—				—					1.42	3.50			
27 622 120	—	3295.4	—	143	—				—					1.42	3.50			
28 622 120	—	3295.4	—	143	—				—					1.42	3.50			
29 622 120	—	3295.4	—	143	—				—					1.42	3.50			
30 622 120	—	3295.4	—	143	—				—					1.42	3.50			
31 622 120	—	3295.4	—	143	—				—					1.42	3.50			
32 622 120	—	3295.4	—	143	—				—					1.42	3.50			
33 622 120	—	3295.4	—	143	—				—					1.42	3.50			
34 622 120	—	3295.4	—	143	—				—					1.42	3.50			
35 622 120	—	3295.4	—	143	—				—					1.42	3.50			
36 622 120	—	3295.4	—	143	—				—					1.42	3.50			
37 622 120	—	3295.4	—	143	—				—					1.42	3.50			
38 622 120	—	3295.4	—	143	—				—					1.42	3.50			
39 622 120	—	3295.4	—	143	—				—					1.42	3.50			
40 622 120	—	3295.4	—	143	—				—					1.42	3.50			
41 622 120	—	3295.4	—	143	—				—					1.42	3.50			
42 622 120	—	3295.4	—	143	—				—					1.42	3.50			
43 622 120	—	3295.4	—	143	—				—					1.42	3.50			
44 622 120	—	3295.4	—	143	—				—					1.42	3.50			
45 622 120	—	3295.4	—	143	—				—					1.42	3.50			
46 622 120	—	3295.4	—	143	—				—					1.42	3.50			
47 622 120	—	3295.4	—	143	—				—					1.42	3.50			
48 622 120	—	3295.4	—	143	—				—					1.42	3.50			
49 622 120	—	3295.4	—	143	—				—					1.42	3.50			
50 622 120	—	3295.4	—	143	—				—					1.42	3.50			

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 3504 CALORIE GAS CYLINDERS FOR CHLORINATION, 215 PHOSPHORIC ACID, FULL STRENGTH FOR FLUORINATION AND 325 PHOSPHATE FOR IRON.

STREET ADDRESS, WATER SUPPLY

WELL # 7

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

NORTH OF

JULY 1990

METER READINGS (1000 GALS.)	GALLONS PUMPED	ELECTRIC READINGS	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. SUS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PH. TEST	
1 609269	-	385374	-	100	-	-	-	12	-	-	-	-	-	-	-	-	-	-
2 609269	-	385374	-	100	-	-	-	12	-	-	-	-	-	-	-	-	-	-
3 610319	550.00	385404	30	25.12	55	-	55	12	12	12	12	12	12	12	12	12	12	12
4 610478	153.11	385464	60	12.6	153	-	153	12	12	12	12	12	12	12	12	12	12	12
5 610478	-	385464	0	12.6	-	-	-	12	-	-	-	-	-	-	-	-	-	-
6 610705	287.00	385553	89	10.5	287	55	342	12	12	12	12	12	12	12	12	12	12	12
7 610908	153.20	385553	24	33.5	153	-	153	12	12	12	12	12	12	12	12	12	12	12
8 610908	-	385553	-	33.5	-	-	-	12	-	-	-	-	-	-	-	-	-	-
9 610908	-	385553	-	33.5	-	-	-	12	-	-	-	-	-	-	-	-	-	-
10 611287	319.10	385553	44	34	319	-	319	12	12	12	12	12	12	12	12	12	12	12
11 611507	220.00	385553	81	19.6	220	-	220	12	12	12	12	12	12	12	12	12	12	12
12 611609	125.00	385553	127	12.6	125	-	125	12	12	12	12	12	12	12	12	12	12	12
13 612223	614.20	385553	77	8	614	-	614	12	12	12	12	12	12	12	12	12	12	12
14 612223	-	385553	-	8	-	-	-	12	-	-	-	-	-	-	-	-	-	-
15 612223	-	385553	-	8	-	-	-	12	-	-	-	-	-	-	-	-	-	-
16 612223	-	385553	-	8	-	-	-	12	-	-	-	-	-	-	-	-	-	-
17 612424	22.00	385553	29	3	22	-	22	12	12	12	12	12	12	12	12	12	12	12
18 612457	52.00	385553	54	3	52	-	52	12	12	12	12	12	12	12	12	12	12	12
19 612457	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
20 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
21 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
22 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
23 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
24 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
25 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
26 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
27 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
28 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
29 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12
30 612458	34.00	385553	28	3	34	-	34	12	12	12	12	12	12	12	12	12	12	12

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 285# HYDROCHLORIC ACID BARS FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

ENTER THIS INFORMATION TO BE ACCORD TO THE BEST OF MY KNOWLEDGE

TIMOTHY ALBERTSON, WATER CO. (CERT #4438)

0000 0864

MONTH OF JULY 1946

DEVALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL NO. 7

METER READING (1800 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF. WEIGHT	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLOUORIDE CHL. TEST	ADJ. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. 325	GALS. PHOSPHATE USED	GALS. USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 608403	5540	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
2 608416	56786	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
3 608429	—	377.4	—	—	—	—	—	—	—	—	—	—	—	—			
4 608442	—	377.4	—	—	—	—	—	—	—	—	—	—	—	—			
5 608455	545200	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
6 608468	545213	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
7 608481	—	377.4	—	—	—	—	—	—	—	—	—	—	—	—			
8 608494	545226	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
9 608507	545239	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
10 608520	—	377.4	—	—	—	—	—	—	—	—	—	—	—	—			
11 608533	—	377.4	—	—	—	—	—	—	—	—	—	—	—	—			
12 608546	545252	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
13 608559	545265	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
14 608572	545278	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
15 608585	545291	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
16 608598	545304	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
17 608611	545317	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
18 608624	—	377.4	—	—	—	—	—	—	—	—	—	—	—	—			
19 608637	545330	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
20 608650	545343	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
21 608663	545356	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
22 608676	545369	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
23 608689	545382	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
24 608702	545395	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
25 608715	545408	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
26 608728	545421	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
27 608741	545434	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
28 608754	545447	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			
29 608767	545460	377.4	2	2	2	2	11	2	10	10	2	8.8	10	10			
30 608780	545473	377.4	12	12	12	12	11	12	10	10	2	8.8	10	10			

59800 0865

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# AMMONIUM FLUORIDE AND 325# PHOSPHATE FOR 1946
 TOTAL PHOSPHATE USED TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE
 TERRY KIRKMAN, WATER TREATMENT

MONTH OF 1940

DEVALS COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL 47

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. 325 FREE	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED DIST.
1 600 403	505 000	327 58	6.1	122	70		11		12	70	12	3	6.1	122	
2 602 816	507 000	335 12	7.6	120	12				11	60	11		120	122	
3 612 912		342 23		120					60						
4 608 910		337 24		120			11		60	11	11				
5 601 435	525 000	317 25	6.3	108	12		15		12	98	11		108	122	
6 601 921	540 000	317 50	6.2	97	0		12		10	28	12		97	102	
7 601 951		317 57		97			95		11	12	12				
8 602 476	545 000	317 45	6.7	83	3		12		12	22	18		83	122	
9 602 989	553 000	315 18	6.4	5	13				12						
10 602 587		315 18		20					12						
11 602 587		315 18		70					12	11	14				
12 603 007	528 000	317 24	4.8	53	3	12	12		12	2	12		53	122	
13 604 971	528 000	317 24	139	127	12		12		12	12	12		127	122	
14 605 608		317 24	9.5	105	12		15		12	11	12		105	122	
15 606 225		317 24	7.2	92	16		12		12	12	12		92	122	
16 606 704		317 24	4.8	78	4		12		12	12	12		78	122	
17 606 763		317 24		78	4				12						
18 606 763		317 24		4	4		12		12						
19 606 763		317 24		119	12		12		12	12	12		119	122	
20 606 763		317 24		97	26		12		12	12	12		97	122	
21 606 763		317 24		87			12		12	12	12		87	122	
22 606 763		317 24		12	12		12		12	12	12		12	122	
23 606 763		317 24		65	10		12		12	12	12		65	122	
24 606 763		317 24		65			12		12	12	12		65	122	
25 606 763		317 24		65			12		12	12	12		65	122	
26 606 763		317 24		65			12		12	12	12		65	122	
27 606 763		317 24		65			12		12	12	12		65	122	
28 606 763		317 24		65			12		12	12	12		65	122	
29 606 763		317 24		65			12		12	12	12		65	122	
30 606 763		317 24		65			12		12	12	12		65	122	

[Handwritten signature and scribbles]

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.
 SNEY ALBERT, WATER TST
 CERT. #2439

MONTH OF May 1920

DEKALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL NO. 2

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHEL. TANK	LBS. CHEL. USED TANK	RESIDUAL PLANT		RESIDUAL DIST. SIS	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
										FREE	TOTAL	FREE					
1 594 643	545 000	335 774	6.9	67	32	99	100	97	124	11	14	2	650	102			
2 591 120	503 000	322 352	6.3	52	4	5	5	7	125	11	12	2	528	102			
3 588 183	185 100	324 255	5.33	225	27	10	10	10	101	24	12	2	528	11 90	15		
4 592 693	512 000	326 239	6.4	7	2	2	2	2	11	2	2	2	1344	672			
5 592 693	—	326 239	—	—	—	—	—	—	51	—	—	—	1344	—			
6 592 693	—	326 239	—	—	—	—	—	—	51	—	—	—	1344	—			
7 592 693	—	326 239	—	—	—	—	—	—	51	—	—	—	1344	—			
8 592 693	461 000	326 239	5.8	100	11	54	154	51	28	10	11	10	124	124			
9 594 012	518 000	326 239	16.8	132	12	12	12	12	51	20	20	20	124	124			
10 594 012	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
11 594 371	394 000	326 239	4.8	123	2	12	12	12	51	8	10	10	124	124			
12 594 371	435 000	326 239	5.8	2	2	2	2	2	51	2	2	2	124	124			
13 594 371	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
14 594 371	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
15 595 261	525 000	326 239	5.2	100	11	2	2	2	51	10	11	10	124	124			
16 595 681	420 000	326 239	8.3	62	8	8	8	8	22	8	8	8	124	124			
17 595 149	502 000	326 239	5.3	42	2	2	2	2	7	2	2	2	124	124			
18 596 058	509 000	326 239	4.3	2	2	2	2	2	51	2	2	2	124	124			
19 597 164	45 100	326 239	5.1	200	8	8	8	8	51	8	8	8	124	124			
20 597 164	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
21 597 164	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
22 597 164	494 000	326 239	4.9	100	8	8	8	8	51	8	8	8	124	124			
23 597 164	504 000	326 239	5.2	22	2	2	2	2	51	2	2	2	124	124			
24 597 164	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
25 597 164	462 000	326 239	5.4	81	2	2	2	2	51	2	2	2	124	124			
26 597 164	745 000	326 239	7.4	23	2	2	2	2	51	2	2	2	124	124			
27 597 164	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
28 597 164	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			
29 597 164	504 000	326 239	7.1	28	2	2	2	2	51	2	2	2	124	124			
30 597 164	—	326 239	—	—	—	—	—	—	51	—	—	—	124	—			

7 74 40

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

WE USE 1504 CARBOLIC GAS CYLINDERS FOR CHLORINATION, 255 HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 325 PHOSPHATE FOR 1000.

STONEY ALBERTSON, WATER TREAT

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE	AUX. CHL. TANK	LBS. CHL. USED TANK	REGIONAL PLANT FREE	TOTAL FREE	REGIONAL DIST. 375	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	TEST DIST
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17	580.35	35.00															
18	580.34	35.00	0.01														
19	580.33	35.00	0.01														
20	580.32	35.00	0.01														
21	580.31	35.00	0.01														
22	580.30	35.00	0.01														
23	580.29	35.00	0.01														
24	580.28	35.00	0.01														
25	580.27	35.00	0.01														
26	580.26	35.00	0.01														
27	580.25	35.00	0.01														
28	580.24	35.00	0.01														
29	580.23	35.00	0.01														
30	580.22	35.00	0.01														
31	580.21	35.00	0.01														
32	580.20	35.00	0.01														
33	580.19	35.00	0.01														
34	580.18	35.00	0.01														
35	580.17	35.00	0.01														
36	580.16	35.00	0.01														
37	580.15	35.00	0.01														
38	580.14	35.00	0.01														
39	580.13	35.00	0.01														
40	580.12	35.00	0.01														
41	580.11	35.00	0.01														
42	580.10	35.00	0.01														
43	580.09	35.00	0.01														
44	580.08	35.00	0.01														
45	580.07	35.00	0.01														
46	580.06	35.00	0.01														
47	580.05	35.00	0.01														
48	580.04	35.00	0.01														
49	580.03	35.00	0.01														
50	580.02	35.00	0.01														
51	580.01	35.00	0.01														
52	580.00	35.00	0.01														
53	580.00	35.00	0.01														
54	580.00	35.00	0.01														
55	580.00	35.00	0.01														
56	580.00	35.00	0.01														
57	580.00	35.00	0.01														
58	580.00	35.00	0.01														
59	580.00	35.00	0.01														
60	580.00	35.00	0.01														
61	580.00	35.00	0.01														
62	580.00	35.00	0.01														
63	580.00	35.00	0.01														
64	580.00	35.00	0.01														
65	580.00	35.00	0.01														
66	580.00	35.00	0.01														
67	580.00	35.00	0.01														
68	580.00	35.00	0.01														
69	580.00	35.00	0.01														
70	580.00	35.00	0.01														
71	580.00	35.00	0.01														
72	580.00	35.00	0.01														
73	580.00	35.00	0.01														
74	580.00	35.00	0.01														
75	580.00	35.00	0.01														
76	580.00	35.00	0.01														
77	580.00	35.00	0.01														
78	580.00	35.00	0.01														
79	580.00	35.00	0.01														
80	580.00	35.00	0.01														
81	580.00	35.00	0.01														
82	580.00	35.00	0.01														
83	580.00	35.00	0.01														
84	580.00	35.00	0.01														
85	580.00	35.00	0.01														
86	580.00	35.00	0.01														
87	580.00	35.00	0.01														
88	580.00	35.00	0.01														
89	580.00	35.00	0.01														
90	580.00	35.00	0.01														
91	580.00	35.00	0.01														
92	580.00	35.00	0.01														
93	580.00	35.00	0.01														
94	580.00	35.00	0.01														
95	580.00	35.00	0.01														
96	580.00	35.00	0.01														
97	580.00	35.00	0.01														
98	580.00	35.00	0.01														
99	580.00	35.00	0.01														
100	580.00	35.00	0.01														

3 724.00 46.0

3.77

8.0

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FUEL STRENGTH FOR FLUORIDATION AND 32# PHOSPHATE FOR IRON.

STONY ALBERTSON, WATER SUPPLY
CERT. #2439

MONTH OF 1995

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. SLS	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
										FREE	TOTAL	FREE	TOTAL		OT
1 571.00	200.00	211.00	1.2	1.2	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
2 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
3 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
4 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
5 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
6 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
7 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
8 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
9 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
10 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
11 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
12 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
13 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
14 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
15 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
16 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
17 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
18 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
19 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
20 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
21 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
22 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
23 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
24 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
25 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
26 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
27 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
28 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
29 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
30 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
31 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
32 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
33 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
34 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
35 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
36 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
37 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
38 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
39 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
40 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
41 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
42 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
43 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
44 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
45 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
46 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
47 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
48 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
49 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
50 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
51 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
52 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
53 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
54 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
55 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
56 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
57 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
58 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
59 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
60 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
61 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
62 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
63 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
64 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
65 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
66 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
67 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
68 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
69 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
70 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
71 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
72 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
73 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
74 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
75 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
76 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
77 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
78 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
79 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
80 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
81 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
82 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
83 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
84 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
85 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
86 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
87 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
88 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
89 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
90 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
91 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
92 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
93 571.00	200.00	211.00	3.2	1.4	0	0	0	0	0	1.2	1.2	1.2	1.2	0	0
94 571.00	20														

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSULFIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32# PHOSPHATE FOR IRON.

THE UNIVERSITY OF CHICAGO PRESS, 5 E. JACKSON BLVD., CHICAGO, ILL. 60604-6138

571146	345,000	33374.06	3.49	125	4	125	1.09	28	5	1.29	8.03	8.03
571147	345,000	33381.50	3.50	119	6	119	0.94	27	6	0.99	7.92	7.92
571148	350,000	33384.80	3.10	115	4	115	0.95	28	4	0.90	8.04	8.04
571149	350,000	33387.80	3.20	116	5	116	1.10	24	4	1.00	8.24	8.24
571150	350,000	33387.80	3.00	110	0	110	1.09	24	0	0.90	8.30	8.30
571151	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571152	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571153	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571154	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571155	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571156	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571157	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571158	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571159	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571160	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571161	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571162	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571163	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571164	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571165	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571166	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571167	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571168	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571169	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571170	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571171	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571172	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571173	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571174	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571175	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571176	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571177	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571178	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571179	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571180	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571181	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571182	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571183	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571184	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571185	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571186	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571187	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571188	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571189	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571190	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571191	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571192	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571193	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571194	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571195	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571196	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571197	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571198	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571199	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571200	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571201	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571202	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571203	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571204	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571205	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571206	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571207	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571208	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571209	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571210	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571211	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571212	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571213	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571214	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571215	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571216	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571217	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571218	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571219	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571220	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571221	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571222	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571223	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571224	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571225	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571226	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571227	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571228	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571229	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571230	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571231	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571232	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571233	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571234	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571235	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571236	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571237	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571238	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571239	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571240	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571241	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571242	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571243	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571244	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571245	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571246	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571247	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571248	350,000	33387.80	3.00	110	0	110	1.09	24	0	1.40	8.30	8.30
571249	350,000											

WELL # 7

DEVALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

MONTH OF October 1984

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. SIS FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DUE
1 565.521	—	3326.0	—	58	—	—	—	48	—	—	—	—	3.28	—	—	—	—
2 568.927	—	3326.0	—	53	—	—	—	—	—	—	—	—	5.97	—	—	—	—
3 566.124	272.00	3327.0	7.1	51	—	—	—	—	—	—	—	—	—	—	—	—	—
4 560.554	304.00	3327.0	3.7	43	5	—	—	—	—	—	—	—	—	—	—	—	—
5 566.504	421.00	3327.0	5.5	36	—	—	—	—	—	—	—	—	—	—	—	—	—
6 567.125	366.00	3327.0	4.3	12	8	—	—	31	3	—	—	—	—	—	—	—	—
7 567.304	259.00	3327.0	3.4	14	8	—	—	6	—	—	—	—	—	—	—	—	—
8 567.304	—	3327.0	—	11	—	—	—	—	—	—	—	—	—	—	—	—	—
9 567.304	—	3327.0	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—
10 567.372	408.00	3327.0	5.8	23	13	—	—	—	—	—	—	—	—	—	—	—	—
11 567.974	167.00	3327.0	1.8	10	5	—	—	—	—	—	—	—	—	—	—	—	—
12 567.314	—	3327.0	—	10	—	—	—	—	—	—	—	—	—	—	—	—	—
13 568.282	509.00	3327.0	6.9	65	15	—	—	—	—	—	—	—	—	—	—	—	—
14 568.500	123.00	3327.0	1.7	51	3	—	—	—	—	—	—	—	—	—	—	—	—
15 568.500	—	3327.0	—	52	—	—	—	—	—	—	—	—	—	—	—	—	—
16 568.500	—	3327.0	—	52	—	—	—	—	—	—	—	—	—	—	—	—	—
17 569.624	115.00	3327.0	1.8	78	—	—	—	—	—	—	—	—	—	—	—	—	—
18 569.624	467.00	3327.0	2.3	44	12	—	—	—	—	—	—	—	—	—	—	—	—
19 569.624	—	3327.0	—	50	—	—	—	—	—	—	—	—	—	—	—	—	—
20 569.624	421.00	3327.0	5.2	15	11	—	—	—	—	—	—	—	—	—	—	—	—
21 569.624	267.00	3327.0	3.4	13	5	—	—	—	—	—	—	—	—	—	—	—	—
22 569.624	—	3327.0	—	52	—	—	—	—	—	—	—	—	—	—	—	—	—
23 569.624	—	3327.0	—	52	—	—	—	—	—	—	—	—	—	—	—	—	—
24 569.624	272.00	3327.0	4.1	44	6	—	—	—	—	—	—	—	—	—	—	—	—
25 569.624	—	3327.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26 569.624	407.00	3327.0	4.1	36	8	—	—	—	—	—	—	—	—	—	—	—	—
27 569.624	—	3327.0	—	13	—	—	—	—	—	—	—	—	—	—	—	—	—
28 569.624	—	3327.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29 569.624	—	3327.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30 569.624	354.00	3327.0	5.2	20	7	—	—	—	—	—	—	—	—	—	—	—	—

Total 5076.00

69.6

129

213

95

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR PHOS.

STONY ALBERTSON WATER SUPPLY
SEPT. 42439

WATER READING (3000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT		RESIDUAL DIST. STN.		GALL. PHOSPHATE	GALL. ADDED	TOTAL GALLONS	TEST FINISHED
										FREE	TOTAL	FREE	TOTAL				
1 559133	—	3219.6	—	127	—	—	1.05	34	—	5	8	4	17	—	—	—	—
2 559118	105,000	33211.1	15.1	102	25	—	—	14	26	144	—	—	—	—	—	—	—
3 559118	—	33211.1	—	102	—	—	—	—	—	—	—	—	—	—	—	—	—
4 559118	—	33211.1	—	102	—	—	—	—	—	—	—	—	—	—	—	—	—
5 559132	1264,000	33228.6	17.5	71	31	—	.97	34	108	11	1.3	5	8	—	—	—	—
6 559132	—	33228.6	—	71	—	—	.99	—	116	16	9	50	1.3	—	—	—	—
7 559132	—	33228.6	—	71	—	—	1.03	150	10	4	7	9	1.1	—	—	—	—
8 559132	1240,000	33240.6	12.4	41	30	120	1.01	149	31	1.0	1.2	1.0	1.2	16	—	—	—
9 559132	141,000	33240.6	2.0	150	5	—	—	26	3	—	—	—	—	19.84	34	—	—
10 559132	1216,000	33240.6	17.0	124	32	—	—	112	24	—	—	—	—	11.94	2.22	—	—
11 559132	—	33240.6	—	124	—	—	.99	102	—	4	8	9	1.0	11.94	—	—	—
12 559132	—	33240.6	—	124	—	—	.99	102	—	3	5	1.7	8	11.94	—	—	—
13 559132	507,000	33240.6	4.4	114	10	—	1.0	98	6	3	4	1.6	9	11.94	—	—	—
14 559132	253,000	33240.6	3.3	109	5	—	1.0	90	4	—	7	3	8	11.94	—	—	—
15 559132	168,000	33240.6	2.7	103	6	—	.94	80	7	—	9	3	8	11.94	—	—	—
16 559132	—	33240.6	—	103	—	—	—	96	—	—	—	—	—	11.94	—	—	—
17 559132	—	33240.6	—	103	5	—	—	80	—	—	—	—	—	11.94	—	—	—
18 559132	—	33240.6	—	103	—	—	.97	85	3	—	12	2	12	11.94	—	—	—
19 559132	115,000	33240.6	1.4	104	2	—	1.0	85	3	3	5	3	8	11.94	—	—	—
20 559132	139,000	33240.6	2.0	97	3	—	.91	81	3	2	4	5	8	11.94	—	—	—
21 559132	87,000	33240.6	.8	95	2	—	.93	74	—	2	6	2	8	11.94	—	—	—
22 559132	229,000	33240.6	3.2	58	7	—	1.0	60	—	—	—	—	—	11.94	—	—	—
23 559132	157,000	33240.6	2.2	84	4	—	1.0	50	—	—	—	—	—	11.94	—	—	—
24 559132	—	33240.6	—	84	—	—	—	40	—	—	9	—	9	—	—	—	—
25 559132	—	33240.6	—	84	—	—	—	30	—	—	—	—	—	—	—	—	—
26 559132	230,000	33240.6	4.0	5	9	—	1.0	28	2	1	3	1	4	—	—	—	—
27 559132	201,000	33240.6	2.0	23	2	—	—	20	2	2	3	1	4	—	—	—	—
28 559132	723,000	33240.6	4.0	16	8	—	—	12	—	—	—	—	—	—	—	—	—
29 559132	224,000	33240.6	4.0	16	1	—	—	10	—	—	—	—	—	—	—	—	—
30 559132	252,000	33240.6	3.0	54	4	—	—	10	—	—	—	—	—	—	—	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

7794.00 169 216 1.01

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 250 HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON.

VERIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

STANLEY L. BROWN, WATER SUP. CERT. 41439

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FLUORIDE WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	FLUORIDE TEST	ADJ. CHL. TANK	LBS. USED	CHLORINE TANK	RESIDUAL PLANT FREE TOTAL	RESIDUAL DIFF.
1 547 229	593.000	33077.9	6.7	94	9			1.1		9	192	5.8	6
2 1547 572	303.000	33052.8	7.9	76	8			1.1		10	172	5.8	4
3 1548 017	419.000	33051.5	5.7	62	9			1.07		8	128	1.0	6.2
4 1548 354	312.000	33062.9	9.8	61	1	104	162	1.02		8	116	6	8
5 1548 529		33052.4		27									
6 1549 748	149.000	33052.8	19.9	137	33					30	12		
7 1549 788		33052.8		134				97			82	16	16
8 1549 788		33052.8		134				1.02			82	16	16
9 1549 869	21.000	33052.8	1.3	133	1			99		2	70	17	20
10 1550 907	105.000	33092.6	14.5	166	27			1.01		26	57	1.0	12
11 1550 977	115.000	33092.6		160				1.05			57	5	9
12 1550 996	119.000	33092.6		168	2					4	50		
13 1552 503	157.000	33208.8	21.1	66	38					39	13		
14 1552 503		33208.8		66		48	114	1.03			13	17	16
15 1552 908	265.000	33244.1	3.7	118	6			1.1		6	142	5	7
16 1553 393	535.000	33244.2	7.1	95	18			1.07		10	12	5	8
17 1553 343		33244.2		95				1.09			12		
18 1553 317		33244.2		65				1.0			12		
19 1554 217	987.000	33244.2	12.0	73	22					14	14		
20 1554 227		33244.2		73									
21 1554 227		33244.2		73									
22 1555 250	1123.000	33244.2	2.2	94	24		188	1.02					
23 1555 250		33244.2		94				1.0					
24 1555 250	116.000	33244.2	13.5	74	24			1.1					
25 1556 250		33244.2		74									
26 1556 250	199.000	33244.2	2.8	120	17								
27 1557 696	205.000	33244.2	17.3	80	30								
28 1557 696		33244.2		80									
29 1557 696		33244.2		80									
30 1557 696		33244.2		80									
31 1558 022	321.000	33244.2	4.1	71	9								
TOTAL	1297.00	6.9			265								

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

 SIGNED: Robert J. Galt
 WATER SUPERINTENDENT
 CRT. 9239

 NOTE: USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION AND 25# HYDROFLUOSULFONIC
 ACID IS NEEDED FULL STRENGTH FOR FLUORINATION.

WELL # 7

DETAILS CO.

STANDARD FLUORINATION & CHLORINATION REPORT

MONTH OF JULY 1944

METER READING (1000 GAL.)	GALLONS PURGED	ELECTRIC READING	DIFF.	FLUORINE WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	FLUORINE TEST	ANAL. CHL. TANK	LBS. USED	CHLORINE TANK	RESIDUAL PLANT FREE TOTAL	RESIDUAL PLANT FREE TOTAL
1 528 018	1074.000	3278.9	14.2	128	12					28	74		
2 538 526	504.000	3287.7	7.4	125	13					19	64		
3 539 985	128.000	3288.4	19.1	97	28	97	144	1.0	150	38	52	10	28 9 6
4 539 136	22.100	3289.7	3.3	139	5				102	8	14		
5 531 559	143.300	3289.7	26.0	109	30			91	10	34		16	18 9 0 12
6 532 020	40.110	3286.3	6.6	88				127	102			1.5	18 1.5 2
7 533 027	102.000	3286.5	14.2	77				98	74	26		1.0	14 1.0 9
8 534 111	169.000	3285.7	15.2	55	22	142	165		49	80			
9 535 587	176.000	3286.9	21.1	23	12			197	10	14	140		
10 536 331	174.000	3287.7	10.9	150	15			101		24	126	1.5	18 1.5 10
11 536 794	623.000	3289.4	6.7	139	11			101		12	114	2.0	15 2.0 3
12 537 367	574.000	3287.5	8.1	122	12	9	138	101		30	94	1.0	2.0 1.0 1
13 538 457	1087.10	3292.8	15.3	115	23			98		32	62	1.7	21 1.7 10 12
14 539 387	98.000	3289.7	12.9	84	21			1.0		26	36	1.1	1.5 1.1 1
15 539 587		3289.7		84					100		36		
16 540 909	524.200	3286.2	2.0	63	31				102	30			
17 540 909		3286.2		63		92	162		102	2			
18 541 921	106.200	3292.2	14.0	142	20			101	138	40		1.1	1.1 1.1 1
19 541 921		3292.2		142				101	120			1.1	1.1 1.1 1
20 542 903	282.200	3289.1	13.4	121	21			99	104	22			
21 542 903		3289.1		121				101	104				
22 543 903	306.000	3286.2	12.2	102	18				101	2			
23 543 903		3286.2		102					101				
24 545 197	397.000	3288.2	18.2	75	28	57	132	94	102				
25 545 197		3288.2		75				92					
26 545 207	230.300	3285.6	15.4	40	34				101	20			
27 546 217		3285.6		40					101				
28 546 726	330.200	3286.1	5.0	28	8			101					
29 546 726		3286.1		28									
30 546 726		3286.1		28									
31 546 726		3286.1		28									
TOTAL	9732.000	3285	7.6		416			1.99					

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

SIGNED: DAVE SUPERINTENDENT

CERT. #2439

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION AND 251 HYDROFLUORIC ACID IS ADDED FULL STRENGTH FOR FLUORINATION.

WELL # 7

CYANIDE FLUORINATION & CHLORINATION REPORT

DETAILS CO.

MONTH OF

JUNE 1959

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FLUORIDE WEIGHT	LIBS. USED	LIBS. ADDED	TOTAL WEIGHT	FLUORINE TEST	ACT. CHL. TANK	LIBS. USED	CHLORINE TANK	PERCENTAGE FLUORINE TEST	PERCENTAGE CHLORINE TEST
1 505 581	—	32478.9	—	40	—	12.4	10.4	1.01	100	—	—	1.1	1.5
2 507 395	1414.100	32453.0	18.7	135	2.5	—	—	1.0	76	2.4	—	1.1	1.5
3 507 355	—	32477.6	—	135	—	—	—	—	76	—	—	—	—
4 508 521	1120.000	32512.6	15.0	112	2.3	—	—	—	54	2.2	—	1.1	1.4
5 508 521	—	32512.6	—	112	—	—	—	—	54	—	—	—	—
6 509 945	1424.000	32531.5	18.4	83	2.9	2.8	1.1	1.01	54	—	—	1.1	1.4
7 509 945	—	32531.5	—	111	—	—	—	—	28	—	—	—	—
8 511 552	1667.000	32553.9	21.5	73	3.3	—	—	1.03	28	2.6	—	1.2	1.8
9 511 531	—	32553.9	—	73	—	—	—	—	4	—	—	—	—
10 512 230	1405.100	32578.4	19.0	190	—	—	—	1.0	—	—	—	1.2	1.8
11 513 370	74.888	32577.0	1.1	12.3	—	—	—	—	—	—	—	—	—
12 514 732	1422.000	32592.0	19.0	92	3.0	—	1.03	1.07	—	—	—	1.2	1.8
13 514 732	—	32592.0	—	153	—	—	—	—	—	—	—	—	—
14 515 552	1155.210	32611.4	15.6	120	2.2	—	—	—	—	—	—	—	—
15 515 552	—	32611.4	—	130	—	—	—	—	—	—	—	—	—
16 517 019	1137.210	32626.8	15.2	107	2.3	—	—	—	—	—	—	—	—
17 517 519	—	32626.8	—	152	—	—	—	—	—	—	—	—	—
18 518 549	1580.000	32648.0	21.2	75	2.2	—	—	—	—	—	—	—	—
19 518 549	—	32648.0	—	73	—	—	—	—	—	—	—	—	—
20 520 050	1457.000	32662.8	19.8	95	3.0	—	—	—	—	—	—	—	—
21 520 252	—	32662.8	—	95	—	—	—	—	—	—	—	—	—
22 521 905	1612.000	32683.4	22.2	134	3.3	—	—	—	—	—	—	—	—
23 522 045	180.000	32681.0	2.8	10	—	—	—	—	—	—	—	—	—
24 522 420	307.000	32700.8	4.5	13	—	—	—	—	—	—	—	—	—
25 523 302	1506.000	32721.0	20.0	52	2.4	—	—	—	—	—	—	—	—
26 525 250	409.000	32727.9	6.9	8	—	—	—	—	—	—	—	—	—
27 525 500	—	32727.9	—	8	—	—	—	—	—	—	—	—	—
28 526 140	256.000	32729.9	9.7	8	—	—	—	—	—	—	—	—	—
29 526 783	162.000	32729.9	—	—	—	—	—	—	—	—	—	—	—
30 527 050	2.500	32729.9	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	2172.000	23.8	—	—	—	—	—	—	—	—	—	—	—

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

SIGNED: WATER SUPERINTENDENT

CITY: 92439

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION AND 2511 HYPERCHLORIC ACID IS ADDED FULL STRENGTH FOR FLUORINATION.

STANDARD FL. CL. PHOS. DERRICK CO. 21 APRIL 1952

WTR. (LEGAL) GAL. PUMPED ELEC. READ DIFF. FL. NCT USED IADD TOT. NCT. FL. TEST CL. TANK USED IADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PRO. GAL. USED GAL. AND TOT. GAL. PHOS. FIN. PHOS. DIST.

1	573960	623,000	7185.50	7.78	58	10	58	1.09	54	10	0	1.3	1.6	0.3	0.5	3.33	1.53	9.33	9.33
2	574101	221,000	7188.24	2.14	54	4	54	1.04	60	4	0	1.3	1.6	0.3	1.2	9.10	0.51	9.61	9.61
3	574657	476,000	7184.17	5.93	46	8	114	0.99	53	7	0	1.3	1.7	1.2	1.5	2.09	1.19	3.28	3.28
4	574033	326,000	7186.91	2.81	156	6	156	1.06	49	6	0	0	0	0	0	7.31	0.51	7.82	7.82
5	574033	0	7186.91	0.00	156	0	156	0	49	0	0	0	0	0	0	7.31	0	7.31	7.31
6	574033	0	7186.91	0.00	156	0	156	0.32	49	0	0	0.9	1.2	0.3	1.0	2.18	0	2.18	2.18
7	575442	559,000	7203.93	6.95	147	9	147	0.98	40	9	0	1.0	1.4	0.2	0.5	5.02	1.36	6.38	6.38
8	575796	354,000	7201.40	4.47	101	6	101	0.90	35	5	0	1.3	1.6	0.3	0.7	13.38	1.02	14.40	14.40
9	575869	72,000	7203.35	0.95	139	2	139	1.03	34	1	0	1.0	1.2	1.2	1.5	12.91	0.07	12.98	12.98
10	576411	542,000	7216.12	6.77	130	9	130	1.0	25	9	0	1.3	1.8	1.1	1.5	12.62	1.19	13.81	13.81
11	576648	237,000	7219.06	2.94	126	4	126	0	21	4	0	0	0	0	0	11.94	0.69	12.63	12.63
12	576648	0	7219.06	0.00	126	0	126	0	21	0	0	1.2	1.3	1.2	2.0	11.94	0	11.94	11.94
13	576648	0	7219.06	0.00	126	0	126	0.91	21	0	0	1.2	1.3	0.7	1.0	11.94	0	11.94	11.94
14	577119	471,000	7221.91	5.85	119	7	119	1.02	13	7	0	1.4	1.7	0.7	1.0	10.22	1.02	11.24	11.24
15	577344	225,000	7227.72	2.81	115	4	115	0.99	10	3	0	1.3	1.5	0.3	0.6	10.38	0.34	10.72	10.72
16	577406	62,000	7225.50	0.78	114	1	114	1.02	9	1	0	1.4	1.7	1.2	1.6	10.43	0.17	10.60	10.60
17	577741	335,000	7232.66	4.18	108	6	108	0.98	4	5	146	1.3	1.6	1.4	1.7	9.56	0.85	10.41	10.41
18	577741	0	7232.66	0.00	108	0	108	0	150	0	0	0	0	0	0	9.56	0	9.56	9.56
19	577741	0	7232.66	0.00	108	0	108	0	150	0	0	1.1	1.3	0.7	1.0	9.56	0	9.56	9.56
20	577741	0	7232.66	0.00	108	0	108	0	150	0	0	1.1	1.3	0.7	1.0	9.56	0	9.56	9.56
21	578198	457,000	7235.35	5.69	101	7	101	0.91	144	5	3	1.3	1.6	1.2	1.5	9.37	1.19	10.56	10.56
22	578465	468,000	7241.69	3.34	97	4	97	1.01	139	5	0	1.4	1.7	1.1	1.4	7.66	0.51	8.17	8.17
23	578923	457,000	7245.39	5.69	90	7	90	0.98	128	3	0	1.3	1.6	1.1	1.5	6.94	1.02	7.96	7.96
24	579369	446,000	7252.91	5.53	83	7	83	0.95	123	7	0	1.4	1.7	1.0	1.4	5.92	1.02	6.94	6.94
25	579510	141,000	7254.67	1.76	81	2	81	0	120	3	0	0	0	0	0	5.40	0.74	6.14	6.14
26	579510	0	7254.67	0.00	81	0	81	0	120	0	0	0	0	0	0	5.40	0	5.40	5.40
27	579510	0	7254.67	0.00	81	0	81	1.02	120	0	0	0.8	1.1	1.0	1.4	4.40	1.02	5.42	5.42
28	579653	453,000	7260.30	5.43	74	7	74	1.09	112	8	0	1.1	1.4	0.8	0.8	4.16	1.02	5.18	5.18
29	580274	311,000	7244.16	3.86	69	5	69	0.97	107	5	0	1.1	1.4	1.0	1.5	4.13	0.83	4.96	4.96
30	580225	451,000	7269.77	5.61	61	8	61	0.91	97	18	0	1.3	1.6	0.7	1.2	12.95	1.19	14.14	14.14
31	580225	0	7269.77	0.00	61	0	61	0	97	0	0	0	0	0	0	12.95	0	12.95	12.95
AVERAGE			92.05		121		121	1.00								0.00		1.00	1.00
TOTAL		7,398,000																	

WE USE 1500 CHLORINE GAS CYLINDERS, 25% HYDROFLUOSILIC ACID
FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT 1219



75-57-8

[illegible]

WE USE 154 CELLULOSE GAS CYLINDERS, 3500 PSI, 100% PURE, FOR ALL PRESSURE FOR FLUORINATION AND 350 PSI PHOSPHATE FOR ION

1 CERTIFY THIS INFORMATION TO BE ACCURATE

1800-451-4242

[illegible]

WE USE 100 CHLORINE GAS CYLINDERS, 33% HYDROFLUOSILIC ACID
FULL STRENGTH FOR FLOERIDATION AND 3% PHOSPHATE FOR IRON

[illegible]

1948

[illegible]

WE USE 100 CHLORINE GAS CYLINDERS, 138 HYDROFLUOSILIC ACID
CELL STRENGTH FOR FLUORIDATION AND 3/8 PHOSPHATE FOR IRON

I CERTIFY THIS INFORMATION TO BE ACCURATE

COPY 17479

NTR. (LEGAL) GAL. PUMPED ELEC. HEAD DIFF. FL. NOT USED ADD TOT. WGT. FL. TEST CL. TANK USED ADD RES. PL. FREE RES. FL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PMS. GAL. USED GAL. AND TOT. GAL. PMS. FIN. PMS. DIST.

1	544381	0	6516.62	121	0	121	0	146	0	0	0.5	0.3	0.5	0.7	12.64	12.64
2	544381	0	6516.62	121	0	121	0	146	0	0	0.5	0.3	0.5	0.7	12.64	12.64
3	544381	0	6516.62	121	0	121	0	146	0	0	1.1	1.4	0.5	0.8	12.64	14
4	544387	476,000	6222.58	114	7	114	0	136	10	0	1.5	1.8	0.4	0.8	12.65	12
5	545115	258,000	6255.80	110	4	110	0	132	3	0	2.3	1.6	0.8	0.9	11.94	12
6	545297	252,000	6229.33	105	5	105	0	129	4	0	0.9	1.4	0.5	0.8	11.89	11
7	545335	458,000	6235.56	99	6	99	0	122	7	0	0	0	0	0	11.36	10
8	545355	0	6235.56	99	0	99	0	122	0	0	0	0	0	0	9.73	10
9	545355	0	6235.56	99	0	99	0	122	9	0	0.3	1.2	0.3	0.5	9.73	10
10	546161	306,000	6330.18	102	5	102	0	118	4	0	1.2	1.5	0.5	0.7	9.05	9
11	546538	497,000	6245.10	86	3	86	0	112	6	0	1.3	1.6	1.0	1.3	7.69	8
12	546942	214,000	6346.65	81	5	81	0	109	3	0	1.2	1.4	0.3	0.6	7.01	7
13	547392	450,000	6354.31	74	7	74	0	105	4	0	1.2	1.5	0.3	0.5	5.32	13
14	547687	215,000	6357.72	70	4	70	0	98	7	0	0	0	0	0	13.38	10
15	547687	0	6357.72	70	0	70	0	98	0	0	0	0	0	0	13.38	10
16	547687	0	6357.72	70	0	70	0	98	0	0	1.1	1.4	0.6	0.9	13.38	10
17	548118	451,000	6362.34	63	7	63	0	94	4	0	1.1	1.3	1.2	1.5	12.75	13
18	548239	211,000	6366.73	59	4	59	0	90	0	0	0.8	1.1	0.6	0.8	12.11	12
19	548315	526,000	6372.32	51	8	51	0	86	12	0	1.3	1.7	1.1	1.4	10.73	11
20	549134	429,000	6378.30	47	4	47	0	86	16	0	1.1	1.5	0.4	0.7	10.07	10
21	549519	365,000	6380.95	45	6	45	0	89	7	0	0	0	0	0	9.05	9
22	549589	70,000	6381.72	38	2	38	0	87	2	0	0	0	0	0	8.88	8
23	549589	0	6381.72	38	0	38	0	87	0	0	1.1	1.5	0.5	0.9	8.88	8
24	549746	257,000	6384.93	35	3	35	0	85	5	0	1.2	1.5	0.4	0.7	8.37	8
25	549846	0	6384.93	35	0	35	0	85	0	0	0	0	0	0	8.37	8
26	549846	0	6384.93	35	0	35	0	85	0	0	1.0	1.2	0.6	0.9	8.37	8
27	550265	519,000	6391.40	26	9	26	0	76	10	0	1.3	1.6	0.4	0.6	7.91	7
28	550265	255,000	6394.58	22	4	22	0	72	4	0	0	0	0	0	6.22	6
29	550620	0	6394.58	22	0	22	0	72	0	0	0	0	0	0	6.22	6
30	550620	0	6394.58	22	0	22	0	72	0	0	1.0	1.4	0.3	0.5	6.22	6
31	551115	495,000	6399.74	65	7	65	0	65	0	0	1.0	1.6	0.5	0.7	5.14	5
AVERAGE																
TOTAL	6,734,000	84.12	105	1.01											17.61	

WE USE 1500 POUNDS GAS CYLINDERS, 35% HYDROFLUOSILIC ACID
FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON

I CERTIFY THIS INFORMATION TO BE ACCURATE

CERT. 12/19

WTR. (LBSAL) GAL. PUMPED ELEC. REAR DIFF. PLANTS USED WADD TOT. WGT. FL. TEST CL. TANK USED WADD RES. PL. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PMS. GAL. USED GAL. AND TOT. GAL. PMS. DIST.

1	526352	0	5715.61	129	0	129	1.03	129	1.6	0.5	6.9	12.28	2.21	12.28
2	527249	897,000	6726.93	113	16	113	1.12	124	1.5	0	0	10.07	0.31	10.07
3	527249	0	6726.93	0	0	113	1.12	124	0	0	0	0	0	0
4	527249	147,000	6728.78	111	2	111	0.91	122	2	0	0	9.58	0.31	9.58
5	527249	0	6728.78	0	0	111	1.02	122	0	0	0	0	0	0
6	527249	1,038,000	6741.00	111	0	111	1.01	122	0	0	0	6.84	2.72	6.84
7	528249	0	6741.00	95	16	95	1.01	102	20	0	0	9.94	0.31	9.94
8	528249	0	6741.00	95	0	95	1.03	102	0	0	0	5.82	1.02	5.82
9	528249	363,000	6746.74	68	7	68	1.08	96	6	0	0	3.61	2.21	3.61
10	528249	747,000	6756.15	77	11	77	1.08	82	14	0	0	3.42	0.17	3.42
11	528249	91,000	6757.25	75	2	75	1.08	80	2	0	0	13.00	0.85	13.00
12	528249	0	6757.25	75	0	75	1.08	80	0	0	0	14.15	2.72	14.15
13	528249	223,000	6761.37	70	5	70	0.97	74	6	0	0	11.43	0.31	11.43
14	528249	5,026,000	6774.35	54	16	54	0.94	73	1	0	0	11.47	0.31	11.47
15	528249	0	6774.35	54	0	54	0.94	73	0	0	0	9.73	1.7	9.73
16	528249	552,000	6781.10	7.81	49	9	0.97	62	11	0	0	9.73	1.7	9.73
17	528249	0	6781.10	7.81	0	9	0.97	62	0	0	0	9.73	1.7	9.73
18	528249	0	6781.10	0	0	9	0.97	62	0	0	0	9.73	1.7	9.73
19	528249	370,000	6785.75	4.86	150	5	0.9	54	8	0	0	8.92	0.31	8.92
20	528249	359,000	6789.00	3.74	153	4	0.97	47	7	0	0	8.92	0.31	8.92
21	528249	328,000	6791.85	3.28	152	4	0.97	41	5	0	0	8.92	0.31	8.92
22	528249	235,000	6794.24	2.99	146	4	0.9	38	2	0	0	8.92	0.31	8.92
23	528249	779,000	6801.51	3.11	138	32	0.9	32	17	0	0	8.92	0.31	8.92
24	528249	37,000	6803.83	0.97	135	32	0.9	32	17	0	0	8.92	0.31	8.92
25	528249	0	6803.83	0.97	135	32	0.9	32	17	0	0	8.92	0.31	8.92
26	528249	469,000	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
27	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
28	528249	414,000	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
29	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
30	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
31	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
32	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
33	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
34	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
35	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
36	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
37	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
38	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
39	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
40	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
41	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
42	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
43	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
44	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
45	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
46	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
47	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
48	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
49	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
50	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92
51	528249	0	6804.45	0.97	127	8	0.9	32	17	0	0	8.92	0.31	8.92

AVERAGE
TOTAL

8,029,000 100.61 109

WE USE 100% CHLORINE GAS CYLINDERS, 25% HYPOCHLORIC ACID
FULL STRENGTH FOR FLUORINATION AND 33% PHOSPHATE FOR IRON

37, 12, 1979

NTR. (KCAL) GAL. PUMPED ELECT. READ DIFF. FL. UNIT PUSED PADD TOT. WGT. FL. TEST CL. TANK PUSED PADD RES. P. FREE RES. PL. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PND. GAL. USED GAL. AND TOT. GAL. PND. FL. PHOS. DIST.

1	508495	365,000	5359.80	4.57	103	5	103	18	9	0	14.31	0.51	14.31
2	508595	257,000	5353.00	3.28	99	4	99	13	5	0	13.63	0.48	14
3	509155	373,000	5367.85	4.77	93	5	93	1.07	5	145	12.61	1.02	13
4	509065	0	5367.85	0.00	93	0	93	0.96	156	0	12.61	0.7	12
5	510137	1,072,000	5381.54	13.69	77	15	77	0.77	124	26	9.72	3.89	10
6	510185	48,000	5382.15	0.61	76	1	35	111	123	1	9.35	0.17	10
7	511259	1,074,000	5395.87	13.72	94	17	94	6.9	100	23	6.49	2.46	6
8	511259	0	5395.87	0.00	94	0	94	100	0	0	6.49	0	6
9	511635	177,000	5400.59	4.81	88	6	88	0.95	90	10	5.64	0.83	6
10	511735	129,000	5402.95	1.58	85	3	85	1.1	87	3	5.30	0.34	10
11	512919	1,154,000	5417.10	14.74	67	18	67	1.1	58	23	11.94	1.06	12
12	512919	0	5417.10	0.00	67	0	67	0.96	58	0	11.94	0.8	12
13	513645	926,000	5425.93	11.83	52	13	107	159	0.95	34	8.29	2.55	22
14	514885	1,040,000	5442.28	12.35	142	17	142	0	0	0	11.94	3.04	12
15	514885	0	5442.28	0.00	142	0	142	0	150	0	11.94	0	12
16	516340	1,555,000	5452.18	19.90	117	25	117	0.98	138	20	7.96	4.00	8
17	516350	139,000	5452.75	1.58	115	2	115	1.04	135	3	7.52	0.5	8
18	517615	1,055,000	5477.35	13.49	98	17	98	1.08	115	29	4.29	3.23	4
19	518935	1,289,000	5494.93	17.58	72	23	72	1.09	94	31	3.28	2.87	12
20	518935	0	5494.93	0.00	115	0	115	1.06	84	0	3.00	0.6	12
21	519942	947,000	5507.52	12.09	100	15	100	0	0	0	12.26	1.77	12
22	520037	91,000	5508.34	1.22	98	1	98	0	0	0	11.94	0.24	12
23	520247	216,000	5516.95	2.59	95	0	95	1.01	56	4	11.21	1.00	12
24	520379	132,000	5512.64	1.71	92	1	92	1.02	93	2	10.32	0.24	12
25	521546	1,537,000	5525.34	15.20	71	22	71	0.92	24	29	5.5	1.40	8
26	521646	0	5525.34	0.00	71	0	71	1.1	24	0	5.5	0.7	8
27	521838	1,151,000	5544.34	15.20	53	19	106	1.07	134	24	4.12	1.40	12
28	522838	0	5544.34	0.00	161	0	161	1.07	134	0	12.00	0.88	12
29	524706	1,356,000	5560.20	15.15	141	20	161	1.04	164	30	7.5	2.74	12
30	524714	1,05,000	5551.57	1.37	136	1	139	1.02	100	4	11.04	0.7	12
31	524714	0	5551.57	0.00	139	0	139	1.00	100	0	11.04	0	12

AVERAGE
TOTAL

16,145,000 246.44 260

WE USE 1500 CYLINDRIC GAS CYLINDERS, 1500-POUND LOGISTIC ACID
FULL STRENGTH FOR FLUORINATION AND 10% PHOSPHATE FOR IRON

CERTIFY THIS INFORMATION TO BE ACCURATE

1991.02.05

MTR. (KCAL) GAL. PUMPED ELEC. READ DIFF. FL. WGT. USED 8400 TOT. WGT. F. TEST CL. TANK USED 8400 RES. P. FREE RES. P. TOT. RES. DIST. FREE RES. DIST. TOT. GAL. PHOS. GAL. USED GAL. ADJ. TOT. GAL. PHOS. FIN. PHOS. DIST.

1	473252	552,000	5905.41	12.02	94	0.36	0	1.4	1.7	0.3	0.7	1.12	2.55	10.80	15
2	473477	215,000	5912.30	2.79	30	0.38	2	1.6	1.9	0.5	0.8	14.50	0.34		15
3	473456	869,000	5923.36	11.5	76	1.4	0	1.1	2.0	0.6	0.9	12.11	2.25		12
4	473100	754,000	5932.94	9.58	101	1.0	0	1.1	1.6	0.4	0.7	10.07	2.04		10
5	473263	183,000	5935.27	2.33	35	1.0	0	1.1	1.6	0.4	0.7	9.73	0.34		10
6	473283	0	5935.27	0.00	99	0	0	0	0	0	0	9.73			10
7	473283	0	5935.27	0.00	99	0	0	0	0	0	0	9.73			10
8	473283	0	5935.27	0.00	99	0	0	0	0	0	0	9.73			10
9	473838	555,000	5942.22	5.85	90	0.99	11	1.2	1.7	0.5	0.8	8.70	1.53		0
10	473655	527,000	5946.83	6.61	82	0.93	15	1.1	1.5	0.5	0.9	6.84	1.26		7
11	477058	693,000	5957.60	8.72	72	1.0	1	1.2	1.7	0.4	0.7	4.97	1.87	11.79	5
12	477646	580,000	5965.01	7.41	63	1.0	102	1.0	1.4	0.5	0.8	3.67	1.25	11.79	15
13	478364	718,000	5974.07	9.06	153	1.0	138	1.0	1.6	0.5	0.8	11.96	1.94		13
14	478665	301,000	5977.84	3.77	148	1.0	135	1.0	1.6	0.5	0.8	11.28	0.68		13
15	479243	678,000	5986.38	8.54	137	1.01	124	1.0	1.6	0.4	0.7	10.27	0.11		10
16	480155	812,000	5996.77	10.39	123	0.98	110	1.2	1.6	0.4	0.8	8.13	2.04		8
17	480932	728,000	6006.30	9.53	111	0.91	92	1.1	1.4	0.5	0.7	5.82	0.21		6
18	482062	1,165,000	6011.33	15.03	92	0.93	66	1.4	1.8	0.6	0.8	3.12	2.02	11.96	15
19	482887	825,000	6032.05	10.72	78	1.09	58	1.6	1.9	0.4	0.7	11.79	2.23		12
20	484121	1,234,000	6049.90	15.81	56	1.03	38	1.6	1.9	0.4	0.7	9.22	3.03		9
21	485044	925,000	6060.62	11.72	89	0.95	22	1.1	1.5	0.5	0.8	7.01	0.11		7
22	485044	0	6059.52	0.00	89	0.95	22	1.1	1.5	0.5	0.8	7.01	0.11		7
23	485240	195,000	6062.38	2.58	85	0.95	20	1.3	1.7	0.3	0.6	5.50	0.11		7
24	485452	1,215,000	6077.62	15.42	66	0.97	2	1.1	1.5	0.6	0.9	3.17	2.23	11.79	15
25	485827	375,000	6082.52	4.90	59	1.01	120	1.0	1.5	0.5	0.8	12.81	1.19		14
26	487573	746,000	6092.11	5.29	47	0.94	117	1.3	1.7	0.7	1.0	11.77	2.04		12
27	488336	763,000	6101.87	9.76	157	0.94	103	1.3	1.7	0.7	1.0	9.73	2.04		10
28	488814	478,000	6107.94	6.07	150	1.07	93	1.3	1.6	0.8	0.8	8.54	1.19		9
29	489147	323,000	6113.43	4.21	144	1.07	87	1.3	1.6	0.8	0.8	7.86	0.68		8
30	489373	226,000	6115.05	2.94	140	0.93	81	1.3	1.7	0.8	0.8	7.18	0.68		7
31	489491	1,118,000	6129.41	14.22	122	0.96	60	1.3	1.8	0.6	0.8	4.12	3.36	10.80	15
AVERAGE						0.99								48.43	
TOTAL		10,181,000		202.02	256										

I CERTIFY THIS INFORMATION TO BE ACCURATE

SEP. 1991

WE USE 15M CHLORINE GAS CYLINDERS, 150-POUND WEIGHT, AND
FILL STRENGTH FOR FLUORINATION AND 300-POUND FOR 150N

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
45768	527,000	5716.30	6.39	129	7	129	35	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45801	73,000	5717.59	0.83	127	2	127	34	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45812	74,000	5718.82	0.93	125	2	125	33	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45837	523,000	5725.11	6.49	118	7	118	33	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45910	494,000	5731.28	6.17	111	7	111	32	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45939	488,000	5737.10	5.82	104	7	104	31	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45959	569,000	5744.18	7.00	95	9	95	30	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46018	531,000	5751.59	7.40	86	9	86	29	138	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46079	186,000	5753.82	2.34	83	3	83	28	134	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46099	178,000	5755.04	2.02	81	2	81	27	130	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46117	576,000	5764.54	8.50	70	11	70	26	122	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46179	498,000	5770.76	8.22	62	8	62	25	117	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46201	485,000	5774.03	3.27	58	4	58	24	114	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46255	264,000	5781.33	6.38	46	8	46	23	105	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46261	528,000	5781.51	6.93	44	9	44	22	97	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46267	558,000	5786.43	0.97	41	1	41	21	95	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46275	75,000	5790.23	1.74	41	2	41	20	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46283	149,750	5798.65	8.34	40	11	40	19	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46285	561,000	5807.58	8.95	32	11	32	18	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46288	713,000	5814.05	7.37	32	12	32	17	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46294	582,000	5818.18	11.22	28	14	28	16	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46297	898,000	5824.15	8.01	27	11	27	15	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46301	535,000	5826.72	3.21	26	1	26	14	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46345	74,000	5825.11	0.93	26	4	26	13	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46361	568,000	5831.71	3.48	25	2	25	12	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46363	749,000	5837.45	5.63	23	0	23	11	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46377	71,000	5841.55	10.04	23	14	23	9	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46387	84,000	5846.71	10.46	23	12	23	8	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46388	594,000	5851.77	11.22	22	13	22	7	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46396	594,000	5857.29	10.46	22	12	22	7	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46398	594,000	5857.29	10.46	22	12	22	7	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46399	594,000	5857.29	10.46	22	12	22	7	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46400	594,000	5857.29	10.46	22	12	22	7	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

45769

1,852,200

197.18

212

WE USE 100% PAPER MADE IN CANADA, RECYCLED PAPER, AND ALL
 THE PAPER IS RECYCLED IN CANADA AND IS RECYCLED FOR 100%

STANDARD FL. CL. PMS. DETAILS OF. 28 JUNE 1961

WELL # 4

DEVALD COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

MONTH OF April 1991

READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READINGS	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. SPS TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 436 430	—	65522.25	—	141	—	—	101	88	—	1.2	1.2	8	10.5	—	—	—	—
2 438 871	437.00	65318.15	5.4	155	6	—	95	87	4	1.4	1.4	5	8.5	—	—	—	—
3 439 254	453.00	65353.10	5.63	127	8	—	72	60	8	1.0	1.0	2	7.2	—	—	—	—
4 438 317	483.00	65354.90	6.10	140	9	—	93	72	8	1.2	1.2	3	9.2	—	—	—	—
5 432 603	786.00	65400.00	9.80	107	15	—	81.2	67	5	1.2	1.2	8	6.8	—	—	—	—
6 433 112	504.00	65400.00	6.52	100	7	—	—	54	0	—	—	—	7.0	—	—	—	—
7 435 020	—	65400.00	—	110	—	—	—	50	—	—	—	—	7.0	—	—	—	—
8 433 112	—	65400.00	—	110	—	—	—	50	—	—	—	—	7.0	—	—	—	—
9 433 006	534.00	65412.58	6.64	92	8	—	102	50	—	1.2	1.2	5	7.2	—	—	—	—
10 434 556	512.00	65412.58	6.54	85	7	—	10	40	10	1.2	1.2	5	7.2	—	—	—	—
11 435 702	914.00	65430.05	8.27	71	14	—	108	30	10	1.2	1.2	5	7.2	—	—	—	—
12 435 426	464.00	65405.70	5.63	65	6	47	112	18	—	1.2	1.2	5	7.2	—	—	—	—
13 435 918	442.00	65400.00	5.79	105	7	—	98	7	—	1.2	1.2	5	7.2	—	—	—	—
14 435 918	—	65400.00	—	105	—	—	—	—	—	—	—	—	7.2	—	—	—	—
15 436 122	104.00	65412.10	1.29	104	1	—	11	—	—	1.2	1.2	5	7.2	—	—	—	—
16 436 500	522.00	65412.10	6.75	78	10	—	11	—	—	1.2	1.2	5	7.2	—	—	—	—
17 437 040	482.00	65412.10	6.99	85	6	—	18	—	—	1.2	1.2	5	7.2	—	—	—	—
18 437 500	520.00	65412.10	6.78	75	8	—	17	—	—	1.2	1.2	5	7.2	—	—	—	—
19 438 023	455.00	65412.10	5.70	75	7	—	11	—	—	1.2	1.2	5	7.2	—	—	—	—
20 438 227	591.00	65412.10	4.95	60	—	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
21 438 208	180.00	65412.10	1.27	65	1	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
22 438 202	104.00	65412.10	1.20	82	1	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
23 439 323	402.00	65412.10	7.08	50	—	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
24 439 718	205.00	65412.10	4.00	54	8	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
25 440 102	205.00	65412.10	5.78	67	11	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
26 440 204	520.00	65412.10	8.00	14	9	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
27 441 844	712.00	65412.10	5.17	122	7	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
28 441 844	—	65412.10	—	122	—	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
29 441 844	750.00	65412.10	—	122	—	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—
30 441 844	750.00	65412.10	7.22	122	8	—	—	—	—	1.2	1.2	5	7.2	—	—	—	—

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

STONEY ALBRECHT, WATER SUPPLY

CENT. 42439

MONTH OF *Mar* 1941

DEKALB COUNTY

SYNGAS FLOURIDATION, CHLORINATION & PHOSPHATE REPORT

READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. 375	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 442 220	557 000	155 20.61	7.00	112	10			10	11	1.2	1.2	4.4	1.2			
2 703 251	851 000	155 72.27	11.60	48	14			10	14	1.7	1.7	1.9	2.7	1.5		
3 943 404	943 000	155 92.48	5.22	31	7			10	7	1.7	1.7	4.0	4.0			
4 1774 048	370 000	155 62.23	4.74	95	6			10	6	1.8	1.8	12.9	12.9			
5 1404 244	106 000	155 64.08	2.85	81	4			10	4	1.7	1.7	12.9	12.9			
6 1404 524	585 000	155 61.93	2.25	71	8			10	8	1.6	1.6	10.9	10.9			
7 1445 187	363 000	155 52.49	4.56	47	6			10	6	1.8	1.8	10.9	10.9			
8 1445 693	506 000	155 61.82	6.33	99	8			10	8	1.8	1.8	10.9	10.9			
9 1475 603	—	155 61.82	—	99	—			10	—	1.8	1.8	10.9	10.9			
10 1446 722	1008 000	155 76.09	12.87	82	17			10	17	1.8	1.8	10.9	10.9			
11 1447 340	508 000	155 61.82	7.14	30	4			10	4	1.8	1.8	10.9	10.9			
12 1447 841	250 000	155 61.82	3.19	64	5			10	5	1.8	1.8	10.9	10.9			
13 1448 446	650 000	155 61.82	8.11	54	10			10	10	1.8	1.8	10.9	10.9			
14 1448 550	680 000	155 61.82	5.51	120	2			10	2	1.8	1.8	10.9	10.9			
15 1449 336	180 000	155 61.82	5.56	14	11			10	11	1.8	1.8	10.9	10.9			
16 1449 684	206 000	155 61.82	5.40	142	7			10	7	1.8	1.8	10.9	10.9			
17 1450 064	285 000	155 61.82	4.80	170	6			10	6	1.8	1.8	10.9	10.9			
18 1450 141	72 000	155 61.82	8.4	135	1			10	1	1.8	1.8	10.9	10.9			
19 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
20 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
21 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
22 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
23 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
24 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
25 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
26 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
27 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
28 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
29 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
30 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
31 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			
32 1450 141	—	155 61.82	—	135	—			10	—	1.8	1.8	10.9	10.9			

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE
 SYNGAS FLOURIDATION, CHLORINATION, 25% HYDROFLUOSILIC ACID, FINAL STRENGTH FOR
 FLOURIDATION AND 32% PHOSPHATE FOR IRON.
 TROYER ALBERTSON, WATER SUPPLY
 (1941) 42439

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

MONTH OF March 1941

WATER ADING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. SYS. FREE	TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 442 210	559,000	105320.61	7.00	11.2	10				10	11	11	9.1	9.1	9.1	1.34			
2 443 251	85,000	105722.27	11.20	9.8	17				17	28	28	16.1	16.1	16.1	3.38	1.34	1.34	
3 443 604	418,000	105792.20	5.22	9.1	7				7	27	27	1.3	1.3	1.3	3.0			
4 444 248	374,000	105802.23	4.74	9.5	6				6	21	21			12.74	1.2			
5 444 244	191,000	105804.68	2.45	8	4				4	17	17			12.74	1.7			
6 444 824	586,000	105805.85	7.25	7.1	8				8	12	12	3	3	10.92	1.7			
7 445 187	763,000	105832.44	4.50	6.1	6	40	40		6	18	18	1.8	1.8	10.92	2.1			
8 445 693	556,000	105846.18	6.33	9.4	8				8	18	18	1.8	1.8	8.88	1.4			
9 445 603	—	105846.82	—	9.9	—				—	18	18	1.8	1.8	8.88	2.72			
10 446 722	1028,000	105850.69	12.87	8.2	17				17	35	35	1.8	1.8	7.32	1.52			
11 447 240	561,000	105852.83	7.14	7.2	4				4	39	39	1.8	1.8	3.62	1.8			
12 447 546	256,000	105860.3	3.14	6.3	3				3	42	42	1.8	1.8	3.62	1.8			
13 448 841	245,000	105867.2	3.22	6.4	3				3	45	45	1.8	1.8	3.62	1.8			
14 448 246	643,000	105871.07	5.11	5.7	10	10.5	10.5		10	52	52	1.8	1.8	3.62	1.8			
15 448 556	168,000	105878.22	5.9	16.0	2				2	54	54	1.8	1.8	3.62	1.8			
16 449 336	640,000	105880.28	5.50	14.4	11				11	65	65	1.8	1.8	3.62	1.8			
17 449 684	941,000	105882.49	5.40	13.4	7				7	72	72	1.8	1.8	3.62	1.8			
18 450 269	385,000	105882.32	4.5	12.8	6				6	78	78	1.8	1.8	3.62	1.8			
19 450 141	72,000	105885.3	8.4	12.5	—				—	84	84	1.8	1.8	3.62	1.8			
20 450 141	—	105885.3	—	23	—				—	84	84	1.8	1.8	3.62	1.8			
21 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
22 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
23 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
24 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
25 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
26 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
27 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
28 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
29 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
30 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
31 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			
32 450 141	—	105885.3	—	15.2	—				—	84	84	1.8	1.8	3.62	1.8			

55,000 96.00

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.
 WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSULFURIC ACID, FULL STRENGTH FOR
 FLUORIDATION AND 32% PHOSPHATE FOR IRON.
 TOWN OF ALBANY, N.Y. 12009
 APR 1941

1921

MONTH OF *March*

DEVALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL # *6*

READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL CHL. TANK	FREE	TOTAL	RESIDUAL DIST. SIS	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST
1 415.554	553.000	05.87.41	6.61	0.0	2	29	119	98	9	10	1	1.0	6	7.8	1.16	282	15	
2 416.165	555.000	05.09.18	6.94	11.2	9				184					13.4	1.16			
3 417.520	1195.000	05.20.00	14.83	9	74				137					10.14	2.00			
4 418.521	1223.000	05.24.00	15.33	7.2	19				103					12.8	2.80			
5 419.728	907.000	05.23.54	11.34	5.8	19	111	122	107	80	18	18	1.8	18	8.28	2.41			
6 420.198	200.000	05.25.31	9.52	15.6	11		6.0		52	2	2	1.2	2	3.61	1.87	11.28	15	
7 420.184		05.25.31		15.8			9.8		82	2	2	1.2	2					
8 420.225	575.500	05.25.43	6.64	17.9	7		9.7		31	12	12	1.2	12	13.09	1.20			
9 421.181	988.000	05.27.08	6.08	141	8				24					12.25	1.19			
10 422.282	1107.000	05.27.00	18.36	20.4	17		10.3		53	13	13	1.3	13	9.73	2.22			
11 422.852		05.27.00		12.4														
12 422.852	574.000	05.25.00	7.16	15	7		1.9		21	18	18	1.8	18	8.30	1.57			
13 423.308	402.000	05.25.32	6.12	10.4			11.2		24	12	12	1.2	12	3.01	1.9			
14 423.808	500.000	05.29.00	6.49	10.0	8		1.2		20	10	10	1.0	10	6.82	2.08			
15 424.462	572.000	05.29.12	6.41	9.2	8	43	11.2	1.2	2	12	12	1.2	12	5.90	1.10	1.00		
16 424.426	1272.000	05.29.25	15.36	12.2	17				8					3.21	1.3			
17 425.078		05.29.25		1.2					5									
18 425.078		05.29.25		1.2														
19 426.078	426.000	05.28.20	5.71	17.8	2		5.8							1.93	2.23			
20 426.577	465.000	05.28.20	5.26	3.8	2													
21 427.527	460.000	05.27.25	5.08	9.1	7		1.1		21	12	12	1.2	12	1.52	1.2			
22 428.526	505.000	05.24.45	2.05	8.2	4													
23 428.526	348.000	05.24.45	4.22	7.2	1													
24 429.526		05.24.45		7.2														
25 429.526		05.24.45		7.2														
26 429.526	743.200	05.28.13	5.28	2.0	7		2.4											
27 429.526	519.200	05.28.13	5.28	2.0	7													
28 429.526	711.000	05.28.13	5.28	2.0	7													
29 429.526	711.000	05.28.13	5.28	2.0	7													
30 429.526	742.000	05.28.13	5.28	2.0	7													
31 429.526	742.000	05.28.13	5.28	2.0	7													
32 429.526	742.000	05.28.13	5.28	2.0	7													

15 413.000 02.03 27 10.10

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

SEEKING THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

TITNEY ELECTRICITY WATER SUPPLY

1991

DEKALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

WELL # 1

READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL FREE	TOTAL FREE	RESIDUAL FREE	TOTAL FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 402.945	478.100	650.000	5.92	100	9		1.1		8.98	8	1.2	8	6	13.81	1.9			
2 403.392	477.000	650.250	5.54	88	5				8.43					12.79	1.02			
3 403.392		650.350		88										12.80				
4 403.535	143.000	650.350	1.18	96	2		1.48		2.55	2	1.0	1.0	1.0	12.84				
5 404.130	593.000	650.450	7.40	87	9		1.09		8.36	11	1.4	6	9	12.85	1.03			
6 404.609	374.000	650.450	4.71	60	7		1.02		8.29	8	1.2	4	7	12.87	1.02			
7 404.939	430.000	650.500	5.30	73	7		1.03		8.22	12	1.0	27	6	12.88	1.02			
8 405.248	404.000	650.500	5.04	66	7	99	1.07		8.13	11	1.4	8	11	12.90	1.01			
9 405.762	400.000	650.500	5.18	98	7				8.11	2				12.91	1.01			
10 405.831	69.000	650.500	5.35	97					8.11					12.91				
11 405.831		650.500		97										12.91				
12 406.244	408.000	650.500	5.09	95	3		1.03		8.06	9	1.0	9	9	12.92	1.02			
13 406.717	408.000	650.500	5.83	82	2		9.00		7.98	2	1.0	2	1.0	12.93	1.01			
14 407.351	408.000	650.500	5.36	25			9.2		7.98	2	1.0	2	1.0	12.93	1.01			
15 407.406	361.000	650.500	7.05	81	9		9.2		7.98	2	1.0	2	1.0	12.93	1.01			
16 407.558	392.000	650.500	4.80	85	8				7.98					12.93	1.01			
17 407.558		650.500		85										12.93				
18 408.025	455.000	650.500	1.95	83	2		9.2		7.98	2	1.0	2	1.0	12.93	1.01			
19 408.025	412.000	650.500	5.03	77	9		9.2		7.98	2	1.0	2	1.0	12.93	1.01			
20 408.025	535.000	650.500	6.03	28			9.2		7.98	2	1.0	2	1.0	12.93	1.01			
21 409.445	592.000	650.500	6.15	71	8		9.2		7.98	2	1.0	2	1.0	12.93	1.01			
22 409.445	790.000	650.500	4.84	8					7.98					12.93	1.01			
23 409.445	809.000	650.500	1.74	72					7.98					12.93	1.01			
24 409.445	1091.000	650.500	1.08	7					7.98					12.93	1.01			
25 409.445	2300.000	650.500	5.00	22	3	14			7.98					12.93	1.01			
26 409.445	350.000	650.500	5.81	2					7.98					12.93	1.01			
27 409.445	430.000	650.500	5.3	8					7.98					12.93	1.01			
28 409.445	500.000	650.500	4.00	80					7.98					12.93	1.01			
29 409.445	500.000	650.500	4.00	80					7.98					12.93	1.01			

12.85

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSULFURIC ACID, PAIL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR 100%.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYCAMORE RESIDENT, WATER TREATMENT

MONTH OF June 1941

DEKALB COUNTY

SYNCHROE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. OIL USED TANK	RESIDUAL PLANT FREE	RESIDUAL DIST. STS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 1587 153	51,200	24634.12	11.0	98	0				2 82			6.72	0.8			
2 1587 153	—	24514.1	—	98	—				—	2 14	1.2	1.2	6.52			
3 1587 153	432,000	24600.00	11.78	83	13				—	1.2	1.2	1.2	2.2	2.4		
4 1587 153	922,000	24700.00	10.20	10	10				—	1.2	1.2	2.2	2.2	1.5		
5 1587 153	818,000	24600.00	10.10	10	10				—	1.2	1.2	2.2	2.2	1.5		
6 1587 153	—	24612.8	—	154	—				125			13.25				
7 1587 153	67,000	24633.14	8.4	153	2				125	1.2	—	—	13.25			
8 1587 153	924,000	24679.00	11.28	23	15				—	1.2	1.2	1.2	2.2	2.4		
9 1587 153	434,000	24681.00	11.02	120	16	52	158		—	1.2	1.2	1.2	2.2	2.4		
10 1587 153	543,000	24682.00	11.2	120	16				—	1.2	1.2	1.2	2.2	2.4		
11 1587 153	567,000	24682.00	11.24	120	16				—	1.2	1.2	1.2	2.2	2.4		
12 1587 153	785,000	24682.00	9.25	135	1				—	1.2	1.2	1.2	2.2	2.4		
13 1587 153	—	24682.00	—	135	—				—	1.2	1.2	1.2	2.2	2.4		
14 1587 153	—	24682.00	—	135	—				—	1.2	1.2	1.2	2.2	2.4		
15 1587 153	815,000	24682.00	10.80	12	18				—	1.2	1.2	1.2	2.2	2.4		
16 1587 153	555,000	24682.00	10.80	12	18				—	1.2	1.2	1.2	2.2	2.4		
17 1587 153	555,000	24682.00	10.80	12	18				—	1.2	1.2	1.2	2.2	2.4		
18 1587 153	855,000	24682.00	10.80	12	18				—	1.2	1.2	1.2	2.2	2.4		
19 1587 153	545,000	24682.00	6.78	135	1				—	1.2	1.2	1.2	2.2	2.4		
20 1587 153	—	24682.00	—	135	—				—	1.2	1.2	1.2	2.2	2.4		
21 1587 153	—	24682.00	—	135	—				—	1.2	1.2	1.2	2.2	2.4		
22 1587 153	607,000	24682.00	7.03	13	13				—	1.2	1.2	1.2	2.2	2.4		
23 1587 153	555,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
24 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
25 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
26 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
27 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
28 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
29 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
30 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		
31 1587 153	546,000	24682.00	6.54	13	13				—	1.2	1.2	1.2	2.2	2.4		

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON.

SYDNEY ALBRECHT, WATER DIST.
CENT. #2439

WELL NO. 8 SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT DETAILS COUNTY MONTH OF *March* 1930

READING (1000 GALLS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL FREE	DIST. SPS. TOTAL	GALLS. PHOSPHATE USED	GALLS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 372.876	371.880	104.55.22	4.63	16.0	7				186	4				5.31				
2 372.876	372.880	104.55.23	—	16.0	—			1.86	186					5.31				
3 372.876	372.880	104.55.23	—	16.0	—													
4 372.876	372.880	104.55.23	5.0	5.0	7													
5 372.876	372.880	104.55.23	6.57	5.0	8													
6 372.876	372.880	104.55.23	7.04	5.0	9													
7 372.876	372.880	104.55.23	6.41	12.0	10													
8 372.876	372.880	104.55.23	5.55	12.2	7													
9 372.876	372.880	104.55.23	—	12.2	—													
10 372.876	372.880	104.55.23	9.2	12.0	2													
11 372.876	372.880	104.55.23	6.66	12.2	8													
12 372.876	372.880	104.55.23	11.83	9.5	17													
13 372.876	372.880	104.55.23	12.58	9.4	2													
14 372.876	372.880	104.55.23	12.03	9.2	13													
15 372.876	372.880	104.55.23	15.40	7.0	6													
16 372.876	372.880	104.55.23	—	7.0	—													
17 372.876	372.880	104.55.23	—	7.0	—													
18 372.876	372.880	104.55.23	11.13	6.1	35													
19 372.876	372.880	104.55.23	11.82	7.2	16													
20 372.876	372.880	104.55.23	11.04	—	—													
21 372.876	372.880	104.55.23	11.9	17.0	—													
22 372.876	372.880	104.55.23	12.28	15	—													
23 372.876	372.880	104.55.23	—	15	—													
24 372.876	372.880	104.55.23	—	15	—													
25 372.876	372.880	104.55.23	—	15	—													
26 372.876	372.880	104.55.23	—	15	—													
27 372.876	372.880	104.55.23	—	15	—													
28 372.876	372.880	104.55.23	—	15	—													
29 372.876	372.880	104.55.23	—	15	—													
30 372.876	372.880	104.55.23	—	15	—													

450.000 8.71 20.1

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR 150#.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STANLEY H. BARNETT, WATER MGR.

(CERT. 47439)

WELL # 8

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

NORTH OF ALABAMA 1970

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. SYS	CALS. PHOSPHATE	CALS. USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 363791	481.00	24555.75	6.19	14.9	8		55		10	1.0	1.0	7	7	7	7	7	
2 363840	549.00	24541.81	6.86	14.0	9		98		11	1.1	1.1	6	6	6	6	6	
3 364225	385.00	24547.65	4.82	13.2	8				4	1.0							
4 364364	79.00	24548.41	5.8	18.1	1				8	1.1							
5 3647304	-	24541.21	-	13.1	-		59		6	8.9	1.7	1.7	1.7	1.7	1.7	1.7	
6 364816	52.00	24555.12	6.41	12.3	8		10		8	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
7 365255	475.00	24561.11	5.99	15.8	8	40	161	35	7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
8 365305	576.00	24568.14	7.13	17.2	4				9	6.5	1.1	1.1	1.1	1.1	1.1	1.1	
9 366335	676.00	24574.10	5.9	14.4	8		62		7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
10 366477	42.00	24579.18	5.10	13.7	7				6	1.2							
11 366818	76.00	24581.88	5.1	13.0	1				1	1.1							
12 366818	-	24581.8	-	13.0	-		58		-	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
13 367179	591.00	24591.23	11.6	12	10		11		14	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
14 368221	512.00	24597.13	6.4	11.3	8		118		15	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
15 36878	542.00	24614.71	6.78	15.8	8		112		16	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
16 368763	-	24614.71	-	15.8	-		112		-	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
17 368763	-	24614.71	-	15.8	-		112		-	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
18 361763	-	24614.71	-	15.8	-		112		-	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
19 368763	-	24614.71	-	15.8	-		112		-	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
20 369201	504.00	24621.11	10.3	12	7		116		9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
21 369405	412.00	24631.7	5.16	14	4		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
22 370232	512.00	24631.7	6.8	12	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
23 37232	-	24631.7	-	12	-		112		-	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
24 37232	-	24631.7	-	12	-		112		-	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
25 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
26 37232	-	24631.7	-	11	-		112		-	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
27 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
28 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
29 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
30 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
31 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
32 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
33 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
34 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
35 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
36 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
37 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
38 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
39 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
40 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
41 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
42 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
43 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
44 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
45 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
46 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
47 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
48 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
49 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
50 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
51 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
52 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
53 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
54 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
55 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
56 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
57 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
58 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
59 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
60 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
61 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
62 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
63 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
64 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
65 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
66 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
67 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
68 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
69 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
70 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
71 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
72 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
73 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
74 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
75 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
76 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
77 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
78 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
79 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
80 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
81 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
82 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
83 37232	261.00	24631.7	2.01	11	1		112		11	1.2	1.2						

WELL # 4

STANMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

NORTH OF 3000 602 1970

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL FREE	TOTAL PLANT	RESIDUAL FREE	TOTAL DIST. SYS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIS
1 3490.53	174.00	0-5.55.24	2.26	54	4				1	1.0	1.4	1.0	1.1	2.28	51			
2 3507.98	108.50	0-5.58.13	13.68	60	18			21	6.5	1.0	1.4	1.0	1.1	2.28	51			
3 3518.04	110.60	0-5.58.23	13.86	47	19			21	2.3	1.0	1.5	1.0	1.1	2.28	51			
4 3527.97	108.80	0-5.58.29	13.40	45	2			21	1	1.0	1.5	1.0	1.1	2.28	51			
5 3532.306	52.100	0-5.58.22	6.55	40	4			21	7	1.0	1.5	1.0	1.1	2.28	51			
6 3532.970	46.410	0-5.58.44	5.52	158	8			21	6	1.0	1.5	1.0	1.1	2.28	51			
7 3533.632	62.100	0-5.58.28	1.19	157	1			21	2	1.0	1.5	1.0	1.1	2.28	51			
8 3533.632		0-5.58.28		157				21	2	1.0	1.5	1.0	1.1	2.28	51			
9 3533.900	116.000	0-5.58.28	6.53	51	0			21	2	1.0	1.5	1.0	1.1	2.28	51			
10 3534.251	593.100	0-5.58.22	7.85	141	10			21	6	1.0	1.5	1.0	1.1	2.28	51			
11 3534.20		0-5.58.23		91				21		1.0	1.5	1.0	1.1	2.28	51			
12 3535.015	98.00	0-5.58.27	12.10	25	10			21	4	1.0	1.5	1.0	1.1	2.28	51			
13 3535.392	367.00	0-5.58.26	4.01	18	7			21	7	1.0	1.5	1.0	1.1	2.28	51			
14 3535.454	27.000	0-5.58.26	2.8	117	1			21	7	1.0	1.5	1.0	1.1	2.28	51			
15 3535.515	76.000	0-5.58.26	4.4	104	1			21	2	1.0	1.5	1.0	1.1	2.28	51			
16 3535.827	281.00	0-5.58.26	3.66	11	5			21	2	1.0	1.5	1.0	1.1	2.28	51			
17 3536.324	552.000	0-5.58.27	6.55	104	7			21	8	1.0	1.5	1.0	1.1	2.28	51			
18 3536.858	498.00	0-5.58.28	6.26	85	9			21	0	1.0	1.5	1.0	1.1	2.28	51			
19 3537.374	476.100	0-5.58.28	5.97	87	8			21	0	1.0	1.5	1.0	1.1	2.28	51			
20 3537.304		0-5.58.28		114				21		1.0	1.5	1.0	1.1	2.28	51			
21 3537.376	72.000	0-5.58.28	9.1	106	3			21	4	1.0	1.5	1.0	1.1	2.28	51			
22 3537.376		0-5.58.28		116				21		1.0	1.5	1.0	1.1	2.28	51			
23 3538.305	788.00	0-5.58.28	2.80	41	3			21	4	1.0	1.5	1.0	1.1	2.28	51			
24 3538.328	1,013.00	0-5.58.28	1.2	141	7			21	2	1.0	1.5	1.0	1.1	2.28	51			
25 3538.384	569.000	0-5.58.28	6.29	104	8			21	0	1.0	1.5	1.0	1.1	2.28	51			
26 3538.400	570.00	0-5.58.28	2.8	84	10			21	0	1.0	1.5	1.0	1.1	2.28	51			
27 3538.743	953.000	0-5.58.28	1.55	78	6			21	0	1.0	1.5	1.0	1.1	2.28	51			
28 3538.752	1,033.00	0-5.58.28	1.84	78	3			21	0	1.0	1.5	1.0	1.1	2.28	51			
29 3538.752	964.00	0-5.58.28	2.70	143	2			21	0	1.0	1.5	1.0	1.1	2.28	51			
30 3538.755	570.00	0-5.58.28	2.74	270	2			21	0	1.0	1.5	1.0	1.1	2.28	51			
31 3538.754	570.00	0-5.58.28	2.71	57	2			21	0	1.0	1.5	1.0	1.1	2.28	51			

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

HYDROFLUOSILIC ACID
CERT. #2439

WELL # 8

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEWALB COUNTY

MONTH OF Sept 1950

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	REGIONAL PLANT FREE	TOTAL	RESIDUAL DIST. 55S	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 331624	956,000	0413164	11.97	101	16				26	32			9.90	2.00		
2 331796	172,000	0413379	2.15	98	3				6	26			7.79	57		
3 331866	70,000	0413467	.88	97	1				2	24			5.22	17		
4 332041	175,000	0413685	2.18	94	3		.93		4	20	.7	1.1	3	6	8.88	34
5 332553	572,000	0414332	6.47	86	8		1.02		150	16	.4	.4	.8	7.69	1.04	
6 333070	577,000	0414546	6.84	76	10	58	1.0		184	8	.7	.3	.7	6.30	1.13	
7 333220	650,000	0415808	8.22	122	12		1.61		138	8	.7	1.0	.3	.6	6.97	1.53
8 334110	390,000	0416295	4.90	115	7				120	8				7.12	.85	
9 334225	163,000	0416522	2.04	112	3				120	8				5.78	.80	
10 334354	86,000	0416610	1.08	111	1		1.0		124	2	.19	2.6	.4	.7	3.00	.34
11 334460	90,000	0416731	1.61	94	17		.85		108	16	.5	.5	.6	1.79	4.70	15.50
12 334484	123,000	0416951	15.12	71	23		1.2		74	34	.2	.5	.5	1.248	2.72	
13 334701	130,000	0420005	17.00	87	22	16	1.40		30	15	.4	.4	.4	1.03	3.27	
14 334949	106,000	0420095	14.42	137	23		1.09		20	14	.5	.5	.4	6.50	2.71	
15 334923	618,000	0420517	12.12	114	18				4	12	.12	.0		4.87	.52	
16 334020	177,000	0420547	2.5	114	3				2	.12				3.93	.4	
17 334118	118,000	0420493	1.50	113	3				2	.12				3.01	.19	1.07
18 3341372	125,000	0420512	6.19	91	12		.91		18	2	.2	.2	.2	1.10	.10	
19 3342850	578,000	0420553	11.53	74	12		.64		12	10	.0	.1	.2	9.00	1.00	
20 334317	937,000	0420581	12.24	57	17		.82		24	30	.2	.2	.2	6.0		
21 334392	503,000	0420916	16.59	41	16	121	1.02	.52	12	34	.0	.1	.4	6.50	.54	
22 334434	644,000	0421000	8.71	107					2	.12						
23 334421	91,000	0421000	1.07	103	2				2	.12				1.1		
24 3344550	213,000	0421000	2.80	100	3		1.22		4	.12				2.8		
25 334550	506,000	0421000	11.25	109	17		1.04		20	21	.15	.15	.15	1.1		
26 3346549	101,000	0421000	3.00	102	19		1.0		7	34	.2	.2	.2	1.1	.18	
27 3347150	95,000	0421000	2.02	92	18		.91		4	2	.10	.10	.10	9.20	2.18	
28 3348504	1014,000	0421000	13.15	72	20		1.15		0	.10				5.0	.21	
29 3349748	664,000	0421000	7.71	59	11				21	10				2.8	.10	
30 3349559	81,000	0421000	1.03	54					1					2.8	.22	

14 334900 243.10 350

WE USE 150# CHLORIDE GAS CYLINDERS FOR CHLORINATION, 25S HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32S PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

STONY ALBERT, WATER SUPPLY

SEPT. 22, 1950

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEWALD COUNTY

MOUTH OF *Rock* 1970

WELL # *4*

METER READING (1000 GALLS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	FREE	TOTAL	RESIDUAL DIST. SIS	SALS. PHOSPHATE	SALS. USED	SALS. ADDED	TOTAL GALLONS	PHOS. TEST	PHOS. FINISHED	DIST
1 377.6	575.00	634.70	07.37	92	10	3			10	63	1	11	6	8	0.80	1.50				
2 318.350	640.00	639.60	8.06	81	4				14	52	13	65	1	60	0.91	1.53				
3 347.70	634.00	637.70	2.87	70	11				14	36	4	11	2	10	2.00	1.10				
4 349.608	618.00	638.10	7.67	59	11				12	19				2.00	1.53					
5 319.600	72.00	639.00	7.4	58	1				1	18				2.33	1.10					
6 314.548	168.00	638.50	2.08	55	3	109	104		4	10	6	16	1	15	7.11	1.10				
7 360.464	561.00	639.40	6.99	105	9				10	12	7	19	2	17	0.12	1.10				
8 320.973	564.00	639.50	7.6	194	11				12	10	3	15	1	14	3.03	1.10				
9 321.578	600.00	640.00	7.52	135	9				11	11	18	29	1	18	1.30	1.10				
10 322.249	670.00	640.40	8.13	123	12				9	12	12	24	1	13	1.10	1.10				
11 322.840	571.00	640.60	7.83	119	9				10	9				10.00	6.30					
12 323.018	178.00	640.60	2.21	110	4				60	3				16.01	1.10					
13 325.018	—	642.00	—	110	—				105	—	8	16	1	15	10.01	—				
14 323.950	404.00	640.40	5.39	121	7				105	95	2	12	1	11	2.10	1.10				
15 324.330	878.00	640.70	10.77	89	14				100	78	20	22	2	20	7.35	1.10				
16 325.311	981.00	640.50	12.29	72	17	42	114		87	24		11	3	8	3.00	1.10				
17 325.605	259.00	640.50	3.30	109	5				93	48		10	6	4	0.10	1.10				
18 326.044	479.00	640.60	5.45	101	8				36	12				1.10	1.10					
19 326.217	175.00	640.60	2.14	91	7				32	7				1.10	1.10					
20 326.217	—	640.60	—	95	—				93	32				1.10	1.10					
21 326.219	532.00	640.70	6.60	85	7				10	18		2	1	1	1.10	1.10				
22 327.212	523.00	640.70	6.61	81	8				91	17		10	4	1	1.10	1.10				
23 327.212	—	640.70	—	81	—				93	—		10	2	1	1.10	1.10				
24 327.843	604.00	640.80	7.40	71	10	91	304		9					1.10	1.10					
25 328.427	549.00	640.80	6.70	65	9				11	11				1.10	1.10					
26 328.515	884.00	640.80	6.09	153	2				2	11				1.10	1.10					
27 328.516	736.00	640.80	9.27	151	2				90	3				1.10	1.10					
28 328.726	634.00	640.80	17.1	150	1				94	2				1.10	1.10					
29 329.451	708.00	640.90	8.35	1139	11				20	11				1.10	1.10					
30 330.108	327.00	640.90	9.27	126	5				24	12				1.10	1.10					
31 330.663	370.00	640.90	6.23	117	7				24	12				1.10	1.10					
32 331.100	—	640.90	—	117	—				24	12				1.10	1.10					

13,551.00 22.9 16.18 2.5.40

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 255 HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

ENTER THIS INFORMATION TO BE ADDED TO THE LIST OF MY KNOWLEDGE

STONY ALBERT, WATER SUPPLY
7731 42439

MONTH OF 2-1-1916

DEKALB COUNTY

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE CHL. TANK	AUX. CHL. USED TANK	RESIDUAL PLANT	FREE	TOTAL	RESIDUAL DIST. SYS.	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PH. TEST DI.
1 302668	92.100	0377051	1.14	142	2			2	126								
2 302668	—	0377051	—	142			10	—	126								
3 302668	258.000	0377051	3.20	138	4		10	2	126								
4 302668	769.000	0377051	9.58	126	12		96	18	98								
5 302668	153.000	0377051	2.40	173	3		96	6	98								
6 302668	519.000	0377051	6.44	114	9		95	2	96								
7 302668	593.000	0377051	6.70	100	5			2	96								
8 302668	22.000	0377051	.80	105	1		96	8	98								
9 302668	258.000	0377051	3.54	105	5		96	18	98								
10 302668	612.000	0377051	7.74	137	10		96	4	98								
11 302668	510.000	0377051	6.49	124	8		96	4	98								
12 302668	641.000	0377051	8.39	118	11		96	10	12								
13 302668	534.000	0377051	6.64	104	14		95	15	12								
14 302668	740.000	0377051	9.21	97	7		95	19	12								
15 302668	—	0377051	—	97	—		95	—	12								
16 302668	—	0377051	—	97	—		95	—	12								
17 302668	477.000	0377051	4.17	90	2		101	13	12								
18 302668	518.000	0377051	4.23	82	5		101	11	12								
19 302668	545.000	0377051	4.24	74	8		101	11	12								
20 302668	1276.000	0377051	15.44	56	16		101	9	12								
21 302668	442.000	0377051	4.13	54	8		101	9	12								
22 302668	91.000	0377051	1.11	152	2		101	9	12								
23 302668	74.000	0377051	.89	151	1		101	9	12								
24 302668	514.000	0377051	7.25	141	9		101	9	12								
25 302668	553.000	0377051	7.91	133	9		101	9	12								
26 302668	552.000	0377051	6.84	125	10		101	9	12								
27 302668	831.000	0377051	10.35	105	14		101	9	12								
28 302668	540.000	0377051	6.96	143	9		101	9	12								
29 302668	1454.000	0377051	17.57	118	25		101	9	12								
30 302668	125.000	0377051	1.62	116	5		101	9	12								
31 302668	910.000	0377051	10.17	102	14		101	9	12								
32 302668	—	0377051	—	102	—		101	—	12								
33 302668	—	0377051	—	102	—		101	—	12								
34 302668	—	0377051	—	102	—		101	—	12								
35 302668	—	0377051	—	102	—		101	—	12								
36 302668	—	0377051	—	102	—		101	—	12								
37 302668	—	0377051	—	102	—		101	—	12								
38 302668	—	0377051	—	102	—		101	—	12								
39 302668	—	0377051	—	102	—		101	—	12								
40 302668	—	0377051	—	102	—		101	—	12								
41 302668	—	0377051	—	102	—		101	—	12								
42 302668	—	0377051	—	102	—		101	—	12								
43 302668	—	0377051	—	102	—		101	—	12								
44 302668	—	0377051	—	102	—		101	—	12								
45 302668	—	0377051	—	102	—		101	—	12								
46 302668	—	0377051	—	102	—		101	—	12								
47 302668	—	0377051	—	102	—		101	—	12								
48 302668	—	0377051	—	102	—		101	—	12								
49 302668	—	0377051	—	102	—		101	—	12								
50 302668	—	0377051	—	102	—		101	—	12								
51 302668	—	0377051	—	102	—		101	—	12								
52 302668	—	0377051	—	102	—		101	—	12								
53 302668	—	0377051	—	102	—		101	—	12								
54 302668	—	0377051	—	102	—		101	—	12								
55 302668	—	0377051	—	102	—		101	—	12								
56 302668	—	0377051	—	102	—		101	—	12								
57 302668	—	0377051	—	102	—		101	—	12								
58 302668	—	0377051	—	102	—		101	—	12								
59 302668	—	0377051	—	102	—		101	—	12								
60 302668	—	0377051	—	102	—		101	—	12								
61 302668	—	0377051	—	102	—		101	—	12								
62 302668	—	0377051	—	102	—		101	—	12								
63 302668	—	0377051	—	102	—		101	—	12								
64 302668	—	0377051	—	102	—		101	—	12								
65 302668	—	0377051	—	102	—		101	—	12								
66 302668	—	0377051	—	102	—		101	—	12								
67 302668	—	0377051	—	102	—		101	—	12								
68 302668	—	0377051	—	102	—		101	—	12								
69 302668	—	0377051	—	102	—		101	—	12								
70 302668	—	0377051	—	102	—		101	—	12								
71 302668	—	0377051	—	102	—		101	—	12								
72 302668	—	0377051	—	102	—		101	—	12								
73 302668	—	0377051	—	102	—		101	—	12								
74 302668	—	0377051	—	102	—		101	—	12								
75 302668	—	0377051	—	102	—		101	—	12								
76 302668	—	0377051	—	102	—		101	—	12								
77 302668	—	0377051	—	102	—		101	—	12								
78 302668	—	0377051	—	102	—		101	—	12								
79 302668	—	0377051	—	102	—		101	—	12								
80 302668	—	0377051	—	102	—		101	—	12								
81 302668	—	0377051	—	102	—		101	—	12								
82 302668	—	0377051	—	102	—		101	—	12								
83 302668	—	0377051	—	102	—		101	—	12								
84 302668	—	0377051	—	102	—		101	—	12								
85 302668	—	0377051	—	102	—		101	—	12								
86 302668	—	0377051	—	102	—		101	—	12								
87 302668	—	0377051	—	102	—		101	—	12								
88 302668	—	0377051	—	102	—		101	—	12								
89 302668	—	0377051	—	102	—		101	—	12								
90 302668	—	0377051	—	102	—		101	—	12								
91 302668	—	0377051	—	102	—		101	—	12								
92 302668	—	0377051	—	102	—		101	—	12								
93 302668	—	0377051	—	102	—		101	—	12								
94 302668	—	0377051	—	102	—		101	—	12								
95 302668	—	0377051	—	102	—		101	—	12								
96 302668	—	0377051	—	102	—		101	—	12								
97 302668	—	0377051	—	102	—		101	—	12								
98 302668	—	0377051	—	102	—		101	—	12								
99 302668	—	0377051	—	102	—		101	—	12								
100 302668	—	0377051	—	102	—		101	—	12								

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR 1500.

SYCAMORE, WATER SUPPLY
1915

MONTH OF Dec 1990

DEARBORN COUNTY

SYCAMORE FLUORINATION, CHLORINATION & PHOSPHATE REPORT

WELL # 1

WATER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT		RESIDUAL DIST. 513		GALS. PHOSPHATE	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
										FREE	TOTAL	FREE	TOTAL					
1 298 276	588 000	0359145	7.27	12.2	9				11	1.2	1.2	1.0	1.2	2.18	1.1			
2 298 263	402 000	0359145	6.66	10.4	9				3					1.07	1.07			
3 298 263		0359145		11.3	2									1.17				
4 298 557	90 000	0359145	1.11	11.3	1				103	7	7			1.32	1.32			
5 298 557	676 000	0359145	5.36	8.0	19				14	1.1	1.1	1.2	1.1	1.14	1.53			
6 298 557	508 000	0359145	6.39	7.0	8				3	1.1	1.1	1.0	1.0	1.12	1.02			
7 298 170	1132 000	0359145	14.02	7.0	17				2	1.2	1.2	1.1	1.1	1.11	1.31			
8 298 170	533 000	0359145	6.64	6.70	8				16	1.2	1.2	1.0	1.0	1.18	1.02			
9 298 185	428 000	0359145	5.312	6.3	7				8					1.17	1.17			
10 298 252	117 000	0359145	1.74	6.1	2				3	1.2	1.2	1.0	1.0	1.20	1.2			
11 298 252	159 000	0359145	1.96	5.9	2				3	1.2	1.2	1.0	1.0	1.21	1.2			
12 298 261	352 000	0359145	10.02	4.8	13				17	1.2	1.2	1.0	1.0	1.21	1.26			
13 298 555	338 000	0359145	4.28	4.3	5				10	1.2	1.2	1.0	1.0	1.21	1.2			
14 298 555	900 000	0359145	12.62	12.8	15				14	1.0	1.0	1.0	1.0	1.21	1.2			
15 298 323	428 000	0359145	10.12	10.5	13				12	1.2	1.2	1.0	1.0	1.21	1.2			
16 298 323	621 000	0359145	8.23	10.5	10				11	1.2	1.2	1.0	1.0	1.21	1.2			
17 298 323		0359145		10.5					11	1.2	1.2	1.0	1.0	1.21	1.2			
18 298 323		0359145		10.5					11	1.2	1.2	1.0	1.0	1.21	1.2			
19 298 323	774 000	0359145	9.22	9.2	13				11	1.2	1.2	1.0	1.0	1.21	1.2			
20 298 323	774 000	0359145	5.91	8.2	16				11	1.2	1.2	1.0	1.0	1.21	1.2			
21 298 323	1173 000	0359145	13.37	6.3	19				14	1.2	1.2	1.0	1.0	1.21	1.2			
22 298 323	592 000	0359145	7.25	6.0	9				11	1.2	1.2	1.0	1.0	1.21	1.2			
23 298 323	503 000	0359145	6.25	6.0	6				11	1.2	1.2	1.0	1.0	1.21	1.2			
24 298 323		0359145		6.0					11	1.2	1.2	1.0	1.0	1.21	1.2			
25 298 323		0359145		6.0					11	1.2	1.2	1.0	1.0	1.21	1.2			
26 298 323	589 000	0359145	7.31	8.2	9				11	1.2	1.2	1.0	1.0	1.21	1.2			
27 298 323	621 000	0359145	7.72	7.1	11				11	1.2	1.2	1.0	1.0	1.21	1.2			
28 298 323	651 000	0359145	8.23	6.2	9	100			11	1.2	1.2	1.0	1.0	1.21	1.2			
29 298 323	276 000	0359145	7.77	15.2	10				11	1.2	1.2	1.0	1.0	1.21	1.2			
30 298 323	262 000	0359145	6.27	14.4	8				11	1.2	1.2	1.0	1.0	1.21	1.2			

14 958 600 185.9 2.74 2.10 2.81

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORINATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

SYDNEY KRECHT, WATER USE
CITY 47439

WELL 2

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DECATUR COUNTY

MONTH OF *May* 19*72*

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. STD. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 235 432	571.00	0347326	6.04	104	8		1.02		14	79	1.0	1.5	1.0	12.02	1.04		
2 276 371	499.00	0347345	6.22	42	17		.19		2	78	1.0	1.3	1.0	11.99	1.01		
3 326 371	—	0347348	—	92	—	46	1.53	9.2	—	78	1.0	1.5	1.0	11.99	1.01		
4 276 554	492.00	0347351	6.03	135	8		1.02		13	65	1.0	1.7	1.2	11.1	16.97	1.01	
5 277 678	524.00	0347358	10.07	122	13				14	446			4.52	1.52			
6 277 678	—	0347358	—	122	—				—	446			4.52	1.52			
7 577 678	—	0347358	—	122	—		94		—	446	7	1.0	4	7	7.54		
8 278 228	552.00	0347363	6.85	114	8		.94		14	32	1.0	1.8	1.2	8.50	1.50		
9 278 228	504.00	0347372	7.09	102	12		.81		20	12	2.0	2.4	1.2	6.52	7.0		
10 278 228	1072.00	0347376	13.44	88	14		.79		123	14	1.0	1.5	1.2	4.31	1.70	1.01	
11 278 228	576.00	0347382	7.46	78	10		.80		116	12	1.0	1.4	1.0	3.80	1.54		
12 278 228	428.00	0347387	5.25	71	7				30	6			2.0	1.5			
13 278 228	—	0347387	—	71	—				30	—			2.0	1.5			
14 278 228	—	0347387	—	71	—		.91		30	—	1.0	2.0	1.7	1.0	2.70		
15 278 228	400.00	0347394	5.97	64	7		.61		130	10	1.0	1.5	1.0	1.01	1.0		
16 278 228	502.00	0347397	6.98	55	14	112	16.7	.96	105	14	1.0	1.5	1.0	1.3	16.28	1.01	
17 278 228	512.00	0347397	6.25	159	8		.7		92	13	1.0	1.4	1.0	1.4	9.50	1.02	
18 278 228	495.00	0347398	6.13	151	8		.68		84	1	1.0	1.5	1.0	1.4	8.12	1.01	
19 278 228	417.00	0347398	5.10	124	8				91	9			1.0	1.0	1.0		
20 278 228	—	0347398	—	124	—				91	—			1.0	1.0	1.0		
21 278 228	—	0347398	—	124	—				91	—			1.0	1.0	1.0		
22 278 228	576.00	0347398	7.08	101	9		.82		—	10	1.0	1.5	1.0	1.0	8.82		
23 278 228	514.00	0347398	7.15	117	9		.92		76	7	1.0	1.4	1.0	1.0	8.72		
24 278 228	1025.00	0347398	12.00	111	16		.82		11	14	1.0	1.5	1.0	1.0	1.0		
25 278 228	435.00	0347398	1.94	100	7		.88		5	10	1.0	1.4	1.0	1.0	1.0		
26 278 228	419.00	0347398	5.19	95	5				—	—			1.0	1.0	1.0		
27 278 228	—	0347398	—	95	—				—	—			1.0	1.0	1.0		
28 278 228	—	0347398	—	95	—				—	—			1.0	1.0	1.0		
29 278 228	—	0347398	—	95	—				—	—			1.0	1.0	1.0		
30 278 228	500.00	0347398	6.40	84	8		.73		—	—			1.0	1.0	1.0		
31 278 228	525.00	0347398	6.25	8	5				—	—			1.0	1.0	1.0		

12 147.00 153.6 192 2.0

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR 1000.

SYCAMORE WATER SUPPLY DIST. 42439

WELL # 8

SYNCHROME FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

MONTH OF APRIL

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL FREE	RESIDUAL DIST. SYS	GALS. PHOSPHATE	GALS. USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 1459.821	—	03237.01	—	146	—	—	—	—	—	—	—	—	13.0	—	—	—	—	—
2 259.821	—	03237.01	—	146	—	—	—	—	—	—	—	—	13.0	—	—	—	—	—
3 260.902	185.000	03249.50	12.50	125	21	—	—	—	—	—	—	—	15.0	—	—	—	—	—
4 261.739	932.000	03260.90	11.32	104	21	—	—	—	—	—	—	—	11.0	2.0	—	—	—	—
5 262.653	914.000	03272.50	11.70	52	22	53	1935	94	—	—	—	—	7.0	2.0	—	—	—	—
6 263.585	942.000	03284.05	11.78	172	2	—	—	—	—	—	—	—	5.82	—	—	—	—	—
7 264.554	787.000	03295.90	9.14	95	8	—	—	—	—	—	—	—	7.0	—	—	—	—	—
8 264.384	—	03295.90	—	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 265.351	847.000	03307.82	—	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10 265.231	847.000	03307.82	11.52	73	22	—	—	—	—	—	—	—	—	—	—	—	—	—
11 266.164	935.000	03319.28	11.64	57	23	105	106	—	—	—	—	—	—	—	—	—	—	—
12 267.193	929.000	03322.24	11.01	142	23	—	—	—	—	—	—	—	—	—	—	—	—	—
13 268.214	821.000	03333.23	10.24	23	9	—	—	—	—	—	—	—	—	—	—	—	—	—
14 268.760	752.000	03334.40	9.39	135	18	—	—	—	—	—	—	—	—	—	—	—	—	—
15 268.766	—	03334.40	—	135	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16 268.760	—	03334.40	—	103	—	37	142	—	—	—	—	—	—	—	—	—	—	—
17 269.817	1153.000	03351.70	17.12	12	25	—	—	—	—	—	—	—	—	—	—	—	—	—
18 270.437	1180.000	03355.26	3.84	91	26	—	—	—	—	—	—	—	—	—	—	—	—	—
19 271.030	649.000	03359.85	5.73	74	12	—	—	—	—	—	—	—	—	—	—	—	—	—
20 272.161	532.000	03361.61	6.20	69	13	102	105	107	—	—	—	—	—	—	—	—	—	—
21 273.103	—	03361.61	—	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22 272.103	—	03361.61	—	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23 272.228	657.000	03361.61	51	164	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24 272.763	535.000	03396.45	16.7	150	8	—	—	—	—	—	—	—	—	—	—	—	—	—
25 273.511	748.000	03407.81	9.36	144	12	—	—	—	—	—	—	—	—	—	—	—	—	—
26 274.624	512.000	03414.40	6.94	185	9	—	—	—	—	—	—	—	—	—	—	—	—	—
27 274.824	502.000	03420.20	16.24	11	14	—	—	—	—	—	—	—	—	—	—	—	—	—
28 275.241	822.000	03420.20	6.08	15	9	—	—	—	—	—	—	—	—	—	—	—	—	—
29 275.241	—	03420.20	—	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30 275.241	—	03420.20	—	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—

15 510.00 93.01 343

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WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

SYNCHROME WATER SYSTEM #2439

WELL # 3

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

MONTH OF 1-1-19

1919

WATER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LB. USED	LB. ADDED	TOTAL WEIGHT	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LB. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. 3/3	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. TEST DIST.
1 239 268	995.000	02555.36	12.78	56	23	51	157	95	112	18	13	16	2	16	1.36	1.36
2 240 245	975.000	02542.50	12.26	118	19			11	50	50	12	15	2	17	1.19	1.19
3 241 147	904.000	03667.26	11.50	100	18				70	30				90	2.04	
4 241 147		12004.36		100					70						800	
5 241 147		02003.16		100	1			97	70		8	11	5	8	9.00	
6 242 074	927.000	05015.28	11.57	52	18			69	50	20	13	16	1	17	8.20	1.30
7 243034	920.000	03021.98	12.00	64	18			108	28	22	10	18	3	12	0.60	2.04
8 249000	906.000	03034.54	12.11	45	19	121	106	57	6	22	10	15	9	12	0.00	1.58
9 244 558	888.000	03050.69	11.55	147	19			107	4	16	11	15	6	9	2.82	7.78
10 245 279	891.000	03060.88	11.18	129	18					18					11.92	1.09
11 245 279		03000.87		129						118					11.23	
12 245 779		03060.87		129				104			18	20	10	10	11.51	
13 246 750	951.000	03070.72	11.85	110	19			109		20	18	15	17	10	9.54	1.01
14 247 656	904.000	03085.28	12.06	40	30	31	121	107		20	18	17	18	12	7.52	2.04
15 248 604	908.000	03092.05	11.57	102	19			105		20	51	12	17	10	5.82	1.70
16 249 519	905.000	03108.45	11.50	44	18	54	108	100		20	38	12	18	9	4.12	1.18
17 250 518	876.000	03119.27	10.92	151	17					18	20				13.07	1.53
18 250 518		03091.71		151						20					13.07	
19 250 518		03091.71		151						20					13.07	
20 250 518		03091.71		151						20					13.07	
21 250 518	859.000	03091.71		151	17			84		20					13.07	
22 250 518	946.000	03091.71		151	17			84		20					13.07	
23 250 518	1192.000	03091.71		151	17			84		20					13.07	
24 250 518	1272.000	03091.71		151	17			84		20					13.07	
25 250 518	861.000	03091.71		151	17			84		20					13.07	
26 250 518		03091.71		151						20					13.07	
27 250 518		03091.71		151						20					13.07	
28 250 518	975.000	03091.71		151	17			84		20					13.07	
29 250 518	1002.000	03091.71		151	17			84		20					13.07	
30 250 518	938.000	03091.71		151	17			84		20					13.07	
31 250 518	913.000	03091.71		151	17			84		20					13.07	
32 250 518	855.000	03091.71		151	17			84		20					13.07	
33 250 518		03091.71		151						20					13.07	
34 250 518		03091.71		151						20					13.07	
35 250 518		03091.71		151						20					13.07	
36 250 518		03091.71		151						20					13.07	
37 250 518		03091.71		151						20					13.07	
38 250 518		03091.71		151						20					13.07	
39 250 518		03091.71		151						20					13.07	
40 250 518		03091.71		151						20					13.07	
41 250 518		03091.71		151						20					13.07	
42 250 518		03091.71		151						20					13.07	
43 250 518		03091.71		151						20					13.07	
44 250 518		03091.71		151						20					13.07	
45 250 518		03091.71		151						20					13.07	
46 250 518		03091.71		151						20					13.07	
47 250 518		03091.71		151						20					13.07	
48 250 518		03091.71		151						20					13.07	
49 250 518		03091.71		151						20					13.07	
50 250 518		03091.71		151						20					13.07	
51 250 518		03091.71		151						20					13.07	
52 250 518		03091.71		151						20					13.07	
53 250 518		03091.71		151						20					13.07	
54 250 518		03091.71		151						20					13.07	
55 250 518		03091.71		151						20					13.07	
56 250 518		03091.71		151						20					13.07	
57 250 518		03091.71		151						20					13.07	
58 250 518		03091.71		151						20					13.07	
59 250 518		03091.71		151						20					13.07	
60 250 518		03091.71		151						20					13.07	
61 250 518		03091.71		151						20					13.07	
62 250 518		03091.71		151						20					13.07	
63 250 518		03091.71		151						20					13.07	
64 250 518		03091.71		151						20					13.07	
65 250 518		03091.71		151						20					13.07	
66 250 518		03091.71		151						20					13.07	
67 250 518		03091.71		151						20					13.07	
68 250 518		03091.71		151						20					13.07	
69 250 518		03091.71		151						20					13.07	
70 250 518		03091.71		151						20					13.07	
71 250 518		03091.71		151						20					13.07	
72 250 518		03091.71		151						20					13.07	
73 250 518		03091.71		151						20					13.07	
74 250 518		03091.71		151						20					13.07	
75 250 518		03091.71		151						20					13.07	
76 250 518		03091.71		151						20					13.07	
77 250 518		03091.71		151						20					13.07	
78 250 518		03091.71		151						20					13.07	
79 250 518		03091.71		151						20					13.07	
80 250 518		03091.71		151						20					13.07	
81 250 518		03091.71		151						20					13.07	
82 250 518		03091.71		151						20					13.07	
83 250 518		03091.71		151						20					13.07	
84 250 518		03091.71		151						20					13.07	
85 250 518		03091.71		151						20					13.07	
86 250 518		03091.71		151						20					13.07	
87 250 518		03091.71		151						20					13.07	
88 250 518		03091.71		151						20					13.07	
89 250 518		03091.71		151						20					13.07	
90 250 518		03091.71		151						20					13.07	
91 250 518		03091.71		151						20					13.07	
92 250 518		03091.71		151						20					13.07	
93 250 518		03091.71		151						20					13.07	
94 250 518		03091.71		151						20					13.07	
95 250 518		03091.71		151						20					13.07	
96 250 518		03091.71		151						20					13.07	
97 250 518		03091.71		151						20					13.07	
98 250 518		03091.71		151						20					13.07	
99 250 518		03091.71		151						20					13.07	
100 250 518		03091.71		151						20					13.07	

21,551.00 209.13 2.00

I CERTIFY THAT INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

WE USE 1500 CHLORINE GAS CYLINDERS FOR CHLORINATION, 255 HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 325 PHOSPHATE FOR IRON.

STONEY ALBERTSON WATER SUPPLY
CERT. #2419

WELL # 18

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEKALB COUNTY

NORTH OF 1655

1990

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	TOTAL	RESIDUAL DIST. SY3 FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. DIST.
1 220 604	972 000	0277720	10.85	67	19		1.05		18	8	1.8	7	9	2.79	2.21		
2 221 440	542 000	0275268	10.48	50	17	117	1.05	140	12	5	1.5	7	1.1	1.87	1.02		
3 222 444	545 000	0276855	10.57	149	18			132	14				8.57	1.20			
4 222 444		0276855		149				132									
5 222 444		0276855		149			1.0	132									
6 223 309	1105 000	0275036	12.61	126	23		1.05			1.1	1.2	1.0	1.2	10.07			
7 224 227	928 000	0274242	11.56	145	18		1.02	90	18	1.3	1.5	9	1.0	8.10	1.57		
8 225 109	932 000	0274044	11.62	88	20	37	1.25	78	18	1.7	1.6	10	1.3	6.33	1.87		
9 226 194	905 000	0273622	12.11	112	21		1.08	58	20	1.3	1.6	8	1.1	2.72	2.89	1.5	
10 227 052	908 000	0272750	11.33	96	18			40	18					11.30	1.70		
11 227 052		0272750		86				40									
12 227 052		0272750		86			1.1	40									
13 227 967	935 000	0271941	11.65	60	20		98	20	20	1.1	1.2	7	1.0	4.30	2.09		
14 228 802	879 000	0275250	10.96	48	18	118	1.0	7	18	5	0.8	7	1.0	3.50	1.70		
15 229 724	903 000	0274172	11.27	120	10		1.05	0	20	1.1	1.2	1.6	1.3	7.10	1.8		
16 230 654	925 000	0273249	11.50	131	10		1.08		14	1.8	1.5	9	1.1	3.12	2.19		
17 231 571	837 000	0272537	10.95	119	18			17						4.12	1.1		
18 231 571		0272537		113													
19 231 571		0272537		113													
20 232 486	955 000	0271958	11.94	93	20			8	20	1.1	1.2	1.6	1.3	2.70	1.0		
21 233 441	958 000	0271448	12.00	75	20				20	1.1	1.2	1.6	1.3	2.70	1.0		
22 234 400	965 000	0270750	12.18	62	21	72	1.2										
23 235 353	927 000	0270040	11.84	65	20	160	1.02		6	22	1.9	5	1.2	4.1	2.2		
24 236 194	849 000	0269400	10.59	44	18												
25 236 194		0269400		44													
26 236 194		0269400		44													
27 237 267	1076 000	0268550	13.26	126	27		1.13			1	1.1	7	1.0	1.8	1.2		
28 238 200	1000 000	0267850	12.55	102	27		1.0										

8 55 230 231.55 2.15

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

WE USE 150# CHLORITE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR 150#.

STONEY ALBERT, WATER SUP
CERT. #2439

WELL 4, 8

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEALS COUNTY

NORTH OF 242

1960

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT USED	LBS. LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL PLANT TOTAL	RESIDUAL DIST. SYS. FREE	RESIDUAL DIST. SYS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED	PHOS. DIST. TEST
1 200 320	1	024955	—	130	—	—	—	94	—	—	—	—	11.40	—	—	—	—
2 201 110	910.000	025165	9.60	115	15	102	—	10 76	1.3	1.6	.8	6.2	10.24	1.26	—	—	—
3 201 292	182.000	025274	2.24	111	4	11	—	4 70	1.1	1.4	.6	6.7	10.27	.17	—	—	—
4 202 125	831.000	025792	10.23	98	10	10	—	16 58	1.2	1.5	.6	6.9	8.54	1.53	—	—	—
5 202 925	853.000	025944	10.52	28	17	30	—	16 58	1.1	1.5	.7	6.9	8.99	1.10	—	—	—
6 203 921	946.000	025945	11.71	94	14	105	—	20 22	—	—	—	—	4.97	1.47	—	—	—
7 203 991	75.000	025946	9.5	75	1	—	—	2 22	—	—	—	—	4.40	1.17	—	—	—
8 203 994	—	025946	—	95	—	—	—	—	5.0	1.6	.8	6.4	—	—	—	—	—
9 204 985	986.000	025957	12	25	20	164	—	120 20	1.0	1.4	.8	6.0	12.02	2.38	—	—	—
10 205 877	542.000	025958	11.23	34	21	164	—	30 14	1.3	1.8	.8	6.9	11.56	1.24	—	—	—
11 206 826	949.000	025965	11.75	167	2	—	—	114 9	—	—	—	—	—	—	—	—	—
12 207 726	910.000	025972	11.28	178	54	—	—	152 14	1.2	1.8	.8	6.8	—	—	—	—	—
13 208 504	826.000	025979	11.20	131	17	—	—	165 17	—	—	—	—	—	—	—	—	—
14 208 635	710.000	025984	12	124	2	—	—	81	—	—	—	—	—	—	—	—	—
15 208 635	—	025984	—	128	—	—	—	82	—	—	—	—	—	—	—	—	—
16 208 635	574.000	026000	11.82	110	19	41	—	64 19	1.2	1.7	.8	6.0	—	—	—	—	—
17 208 505	1050.000	026225	12.02	131	20	—	—	69 20	1.2	1.5	.8	6.8	—	—	—	—	—
18 208 520	985.000	026242	11.87	111	30	—	—	69 26	1.0	1.3	.7	6.0	—	—	—	—	—
19 208 532	512.000	026443	10.59	92	18	—	—	10 10	1.1	1.7	.8	6.0	—	—	—	—	—
20 208 668	836.000	026502	10.41	24	12	—	—	8 10	—	—	—	—	—	—	—	—	—
21 208 668	—	026502	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
22 208 668	—	026502	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
23 208 668	976.000	026502	12.03	53	21	164	—	14 24	1.2	1.7	.8	6.8	—	—	—	—	—
24 208 668	982.000	026502	12.17	143	21	—	—	20 10	1.0	1.3	.7	6.0	—	—	—	—	—
25 208 668	984.000	026502	12.24	123	20	—	—	18 28	1.1	1.7	.8	6.0	—	—	—	—	—
26 208 668	715.000	026502	9.0	108	15	—	—	9 94	1.1	1.7	.8	6.0	—	—	—	—	—
27 208 668	845.000	026502	10.3	90	18	—	—	5 08	—	—	—	—	—	—	—	—	—
28 208 668	—	026502	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—
29 208 668	28.000	026502	11.5	1	—	—	—	—	—	—	—	—	—	—	—	—	—
30 208 668	1026.000	026502	11.52	17	22	—	—	—	—	—	—	—	—	—	—	—	—
31 208 668	585.000	026502	11.31	24	7	—	—	19 20	1.2	1.7	.8	6.0	—	—	—	—	—
TOTAL																	37.96
1940-200																	380
2405																	38

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25% HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 32% PHOSPHATE FOR IRON.

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE

STEVE KRECHT, WATER MGR
CITY 42339

WELL # 5

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DETAILS COUNTY

MONTH OF JULY 1979

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. SPS	GALS. PHOSPHATE	GALS. ADDED	TOTAL GALLONS	PROG. TEST FINISHED	PHOS. TEST DIST
1 18.938	962.000	02206.59	11.84	59	19	109	165	20	22	163	7	169	12.29	1.87		
2 182.808	975.000	02209.20	10.53	137	17			0	20	100			11.46	1.83		
3 182.808	—	02209.20	10.53	137	—			—	103				11.46	—		
4 182.808	—	02209.20	—	151	—		160		150	15	18	6	11	11.26		
5 183.406	598.000	02210.01	7.41	139	12		103		138	13	17	5	11.0	10.24	1.02	
6 184.451	955.000	02208.12	12.21	120	19		10		22	10	14	10	8.34	1.70		
7 185.421	970.000	02208.12	12.21	120	19		103		34	22	10	8	6.44	1.70		
8 180.337	916.000	02222.24	11.38	84	13	82	134	109	22	70	11	12	10	5.18	6.70	
9 187.151	814.000	02138.35	10.11	114	16				22	80			10.1	10.53		
10 187.151	—	02138.35	10.11	114	—				—	80			10.1	—		
11 187.151	—	02138.35	—	114	—				—	80			10.1	—		
12 185.188	927.000	02324.47	12.12	99	19				50	8	13	11	11	12.04	1.5	
13 184.118	940.000	02325.72	12.12	78	21				50	8	13	11	11	12.04	1.5	
14 184.118	940.000	02325.72	12.12	78	21				140	8	11	11	11	12.04	1.19	
15 91.594	879.000	02325.72	12.12	49	18	98	167	128	128	8	13	10	10.24	1.7		
16 19.450	802.000	02205.81	10.74	150	17			12	162				10.24	1.70		
17 191.538	820.000	02210.22	10.74	149	1			10	159				10.24	1.2		
18 191.538	—	02210.22	10.74	149	—			—	159				10.24	—		
19 192.582	124.400	02309.73	12.9	20	19			80	80	2	15	10	10.24	—		
20 193.498	916.000	02310.16	10.58	12	18	36	48	70	160				10.24	—		
21 194.451	975.000	02323.46	12.9	120	20			12	162				10.24	—		
22 195.421	1012.000	02323.46	12.9	109	19			102	162				10.24	—		
23 196.421	940.000	02323.46	12.9	91	18			8	160				10.24	—		
24 196.421	940.000	02323.46	12.9	91	18			8	160				10.24	—		
25 196.421	104.000	02323.46	12.9	87	2			2	162				10.24	—		
26 196.421	—	02323.46	—	87	—			—	162				10.24	—		
27 197.440	1012.000	02323.46	12.9	109	19			0	162				10.24	—		
28 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
29 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
30 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
31 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
32 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
33 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
34 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
35 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
36 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
37 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
38 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
39 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
40 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
41 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
42 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
43 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
44 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
45 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
46 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
47 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
48 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
49 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
50 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
51 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
52 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
53 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
54 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
55 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
56 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
57 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
58 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
59 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
60 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
61 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
62 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
63 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
64 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
65 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
66 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
67 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
68 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
69 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
70 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
71 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
72 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
73 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
74 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
75 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
76 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
77 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
78 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
79 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
80 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.24	—		
81 197.440	908.000	02323.46	12.9	91	17	10	47	10	160				10.2			

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE WEIGHT	AUX. CHL. TANK	LBS. CHL. USED TANK	RESIDUAL PLANT	RESIDUAL DIST. 325	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 171.224	397.842	12.24	4.85	116	3				4	124	1.3	6	1.8	18.58	1.8
2 172.214	458.880	13.47	3.26	87	4				16	98	1.7	1.5	1.5	1.5	
3 173.204	488.880	14.62	3.15	100	3				11	84	1.6	1.5	1.5	1.5	
4 174.194	384.842	15.87	1.25	91	7				8	78	1.6	1.5	1.5	1.5	
5 175.184	—	17.12	—	—	—				—	—	—	—	—	—	
6 176.174	—	18.37	—	—	—				—	—	—	—	—	—	
7 177.164	443.880	19.62	3.25	82	9				—	—	—	—	—	—	
8 178.154	413.880	20.87	3.25	74	8				—	—	—	—	—	—	
9 179.144	384.842	22.12	3.25	66	7				—	—	—	—	—	—	
10 180.134	354.842	23.37	3.25	58	6				—	—	—	—	—	—	
11 181.124	324.842	24.62	3.25	50	5				—	—	—	—	—	—	
12 182.114	294.842	25.87	3.25	42	4				—	—	—	—	—	—	
13 183.104	264.842	27.12	3.25	34	3				—	—	—	—	—	—	
14 184.094	234.842	28.37	3.25	26	2				—	—	—	—	—	—	
15 185.084	204.842	29.62	3.25	18	1				—	—	—	—	—	—	
16 186.074	174.842	30.87	3.25	10	1				—	—	—	—	—	—	
17 187.064	144.842	32.12	3.25	2	1				—	—	—	—	—	—	
18 188.054	114.842	33.37	3.25	—	—				—	—	—	—	—	—	
19 189.044	84.842	34.62	3.25	—	—				—	—	—	—	—	—	
20 190.034	54.842	35.87	3.25	—	—				—	—	—	—	—	—	
21 191.024	24.842	37.12	3.25	—	—				—	—	—	—	—	—	
22 192.014	—	38.37	3.25	—	—				—	—	—	—	—	—	
23 193.004	—	39.62	3.25	—	—				—	—	—	—	—	—	
24 194.000	—	40.87	3.25	—	—				—	—	—	—	—	—	
25 195.000	—	42.12	3.25	—	—				—	—	—	—	—	—	
26 196.000	—	43.37	3.25	—	—				—	—	—	—	—	—	
27 197.000	—	44.62	3.25	—	—				—	—	—	—	—	—	
28 198.000	—	45.87	3.25	—	—				—	—	—	—	—	—	
29 199.000	—	47.12	3.25	—	—				—	—	—	—	—	—	
30 200.000	—	48.37	3.25	—	—				—	—	—	—	—	—	
31 201.000	—	49.62	3.25	—	—				—	—	—	—	—	—	
32 202.000	—	50.87	3.25	—	—				—	—	—	—	—	—	
33 203.000	—	52.12	3.25	—	—				—	—	—	—	—	—	
34 204.000	—	53.37	3.25	—	—				—	—	—	—	—	—	
35 205.000	—	54.62	3.25	—	—				—	—	—	—	—	—	
36 206.000	—	55.87	3.25	—	—				—	—	—	—	—	—	
37 207.000	—	57.12	3.25	—	—				—	—	—	—	—	—	
38 208.000	—	58.37	3.25	—	—				—	—	—	—	—	—	
39 209.000	—	59.62	3.25	—	—				—	—	—	—	—	—	
40 210.000	—	60.87	3.25	—	—				—	—	—	—	—	—	
41 211.000	—	62.12	3.25	—	—				—	—	—	—	—	—	
42 212.000	—	63.37	3.25	—	—				—	—	—	—	—	—	
43 213.000	—	64.62	3.25	—	—				—	—	—	—	—	—	
44 214.000	—	65.87	3.25	—	—				—	—	—	—	—	—	
45 215.000	—	67.12	3.25	—	—				—	—	—	—	—	—	
46 216.000	—	68.37	3.25	—	—				—	—	—	—	—	—	
47 217.000	—	69.62	3.25	—	—				—	—	—	—	—	—	
48 218.000	—	70.87	3.25	—	—				—	—	—	—	—	—	
49 219.000	—	72.12	3.25	—	—				—	—	—	—	—	—	
50 220.000	—	73.37	3.25	—	—				—	—	—	—	—	—	
51 221.000	—	74.62	3.25	—	—				—	—	—	—	—	—	
52 222.000	—	75.87	3.25	—	—				—	—	—	—	—	—	
53 223.000	—	77.12	3.25	—	—				—	—	—	—	—	—	
54 224.000	—	78.37	3.25	—	—				—	—	—	—	—	—	
55 225.000	—	79.62	3.25	—	—				—	—	—	—	—	—	
56 226.000	—	80.87	3.25	—	—				—	—	—	—	—	—	
57 227.000	—	82.12	3.25	—	—				—	—	—	—	—	—	
58 228.000	—	83.37	3.25	—	—				—	—	—	—	—	—	
59 229.000	—	84.62	3.25	—	—				—	—	—	—	—	—	
60 230.000	—	85.87	3.25	—	—				—	—	—	—	—	—	
61 231.000	—	87.12	3.25	—	—				—	—	—	—	—	—	
62 232.000	—	88.37	3.25	—	—				—	—	—	—	—	—	
63 233.000	—	89.62	3.25	—	—				—	—	—	—	—	—	
64 234.000	—	90.87	3.25	—	—				—	—	—	—	—	—	
65 235.000	—	92.12	3.25	—	—				—	—	—	—	—	—	
66 236.000	—	93.37	3.25	—	—				—	—	—	—	—	—	
67 237.000	—	94.62	3.25	—	—				—	—	—	—	—	—	
68 238.000	—	95.87	3.25	—	—				—	—	—	—	—	—	
69 239.000	—	97.12	3.25	—	—				—	—	—	—	—	—	
70 240.000	—	98.37	3.25	—	—				—	—	—	—	—	—	
71 241.000	—	99.62	3.25	—	—				—	—	—	—	—	—	
72 242.000	—	100.87	3.25	—	—				—	—	—	—	—	—	
73 243.000	—	102.12	3.25	—	—				—	—	—	—	—	—	
74 244.000	—	103.37	3.25	—	—				—	—	—	—	—	—	
75 245.000	—	104.62	3.25	—	—				—	—	—	—	—	—	
76 246.000	—	105.87	3.25	—	—				—	—	—	—	—	—	
77 247.000	—	107.12	3.25	—	—				—	—	—	—	—	—	
78 248.000	—	108.37	3.25	—	—				—	—	—	—	—	—	
79 249.000	—	109.62	3.25	—	—				—	—	—	—	—	—	
80 250.000	—	110.87	3.25	—	—				—	—	—	—	—	—	
81 251.000	—	112.12	3.25	—	—				—	—	—	—	—	—	
82 252.000	—	113.37	3.25	—	—				—	—	—	—	—	—	
83 253.000	—	114.62	3.25	—	—				—	—	—	—	—	—	
84 254.000	—	115.87	3.25	—	—				—	—	—	—	—	—	
85 255.000	—	117.12	3.25	—	—				—	—	—	—	—	—	
86 256.000	—	118.37	3.25	—	—				—	—	—	—	—	—	
87 257.000	—	119.62	3.25	—	—				—	—	—	—	—	—	
88 258.000	—	120.87	3.25	—	—				—	—	—	—	—	—	
89 259.000	—	122.12	3.25	—	—				—	—	—	—	—	—	
90 260.000	—	123.37	3.25	—	—				—	—	—	—	—	—	
91 261.000	—	124.62	3.25	—	—				—	—	—	—	—	—	
92 262.000	—	125.87	3.25	—	—				—	—	—	—	—	—	
93 263.000	—	127.12	3.25	—	—				—	—	—	—	—	—	
94 264.000	—	128.37	3.25	—	—				—	—	—	—	—	—	
95 265.000	—	129.62	3.25	—	—				—	—	—	—	—	—	
96 266.000	—	130.87	3.25	—	—				—	—	—	—	—	—	
97 267.000	—	132.12	3.25	—	—				—	—	—	—	—	—	
98 268.000	—	133.37	3.25	—	—				—	—	—	—	—	—	
99 269.000	—	134.62	3.25	—	—				—	—	—	—	—	—	
100 270.000	—	135.87	3.25	—	—				—	—	—	—	—	—	
101 271.000	—	137.12	3.25	—	—				—	—	—	—	—	—	
102 272.000	—	138.37	3.25	—	—				—	—	—	—	—	—	
103 273.000	—	139.62	3.25	—	—				—	—	—	—	—	—	
104 274.000	—	140.87	3.25	—	—				—	—	—	—	—	—	
105 275.000	—	142.12	3.25	—	—				—	—	—	—	—	—	
106 276.000	—	143.37	3.25	—	—				—	—	—	—	—	—	
107 277.000	—	144.62	3.25	—	—				—	—	—	—	—	—	
108 278.000	—	145.87	3.25	—	—				—	—	—	—	—</		

WELL 4

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

DEVALB COUNTY

MONTH OF DEC 1984

METER READING (1000 GALS.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL FLUORIDE TEST	AUX. CHL. TANK	LBS. CHL. USED/TANK	RESIDUAL PLANT- FREE	TOTAL	RESIDUAL DIST. SYS. FREE	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED
1 155.04	171.00	0107.01	2.12	46	4				5.128				9.37	37		
2 155.308	159.00	019.35	1.48	91	3		1.24		4.70			3	9.43	34		
3 155.553	52.00	019.94	4.50	71	10		1.53		1.10				7.25	0.8		
4 159.342	56.00	019.90	3.7	40	11		1.09		0.0				6.13	1.3		
5 160.249	707.00	019.85	8.73	40	14		1.1		1.1				4.97	1.30	3.00	7.03
6 166.595	746.00	020.44	9.53	31	15	0.35	9.9		3.3	0.7	5		6.00	0.23		
7 155.301	506.00	020.00	6.33	153	11								5.12	4.8		
8 161.431	100.00	020.24	1.02	65	2				3.20				5.11	5.1		
9 161.45		020.24		165			1.65						5.11			
10 162.070	634.00	020.24	8.00	140	13				1				4.49	1.00		
11 162.618	546.00	020.27	6.14	124	11		1.24		2.0				3.20	1.15		
12 163.022	802.00	020.40	2.42	115	24		3.3		1.0				1.07	1.33	1.00	
13 164.231	589.00	020.47	7.54	96	12	1.7	11.5	1.1	1.8	1.2	1.5		1.98	1.54		
14 164.242	65.00	020.67	1	5.4	14								2.20	0.4		
15 164.706	54.00	020.67	0.5	62	2				0.8				2.20	1.7		
16 164.848	81.00	020.67	10.3	100	2		0.9						2.20	1.7		
17 165.542	644.00	020.73	5.65	47	13		0.9		2.1				2.20	1.7		
18 165.647	58.00	020.74	1.05	45	2		0.5		0.4				2.20	1.7		
19 166.713	1086.00	020.74	3.19	42	23	1.5	1.5		2.1				2.20	1.7		
20 166.739	226.00	020.75	2.25	22	5		0.6		0.4				2.20	1.7		
21 167.447	574.00	020.80	1.30	52	5		0.6		0.4				2.20	1.7		
22 167.522	75.00	020.80	0.3	5					0.4				2.20	1.7		
23 167.558	674.00	020.80	0.3	5			0.6		0.4				2.20	1.7		
24 168.102	575.00	020.80	2.00	137	13		0.6		0.4				2.20	1.7		
25 168.202	489.00	020.80	0.3	104	11		0.6		0.4				2.20	1.7		
26 169.210	511.00	021.10	6.83	16	5				0.4				2.20	1.7		
27 170.148	523.00	021.20	16.21	45	8				0.4				2.20	1.7		
28 170.614	524.00	021.20	0.3	33	14				0.4				2.20	1.7		
29 170.852	173.00	021.20	0.3	34	3				0.4				2.20	1.7		
30 170.882	98.00	021.20	0.3	13	1				0.4				2.20	1.7		
31 171.505	444.00	021.20	0.3	24	2				0.4				2.20	1.7		

2-TIT 13,410.00 167.44 270 64.14 3.9

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.
 SIGNED: ALBERT W. WATER SUPPLY
 CERT. #2439

WELL # 7

SYCAMORE FLUORIDATION, CHLORINATION & PHOSPHATE REPORT

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FL. WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	AUX. CHL. TANK	CBS. CHL. USED TANK	RESIDUAL PLANT FREE	RESIDUAL DIST. STS. TOTAL	GALS. PHOSPHATE USED	GALS. ADDED	TOTAL GALLONS	PHOS. TEST FINISHED DTS
1 143.101	1005.00	01752.79	12.61	94	20			90	26	8	9				
2 143.269	108.00	01784.40	2.11	90	4			54	6						
3 144.453	1144.00	01749.50	14.40	67	23			48	36						
4 144.453		01749.80		67		95	162	48							
5 144.453		01744.00		162				44							
6 145.384	936.00	01811.53	11.25	145	17			20	28	10	8				
7 145.912	523.00	01818.57	6.54	134	11			6	13	5	3				
8 146.031	114.00	01819.54	1.52	131	3			189							
9 146.551	521.00	01828.55	10.26	115	16			6	9						
10 146.951		01829.55		105											
11 148.161	1310.00	01846.32	16.47	94	26				34	10	3				
12 148.334	535.00	01853.52	7.45	74	12	52	124		20	90	5				
13 149.281	555.00	01866.49	6.97	118	11				14	20	3				
14 149.850	559.00	01867.55	7.61	126	12				16	20	3				
15 150.490	440.00	01875.52	8.03	93	13	08	161		14	20	3				
16 151.341	851.00	01884.26	15.64	144	17				12	24	60				
17 151.502	161.00	01885.23	5.01	141	3				142	4	23				
18 151.522		01888.23		141											
19 152.320	84.00	01895.48	15.34	124	17										
20 152.525	505.00	01904.79	6.32	114	10				20	24	3				
21 153.442	637.00	01926.74	7.97	105	20				14	24	3				
22 154.140	638.00	01926.25	8.49	84	14				16	24	3				
23 155.019	869.00	01932.15	15.91	69	17				14	24	3				
24 155.554	150.00	01934.44	1.89	66	5				14	24	3				
25 156.239	81.00	01935.84	1.00	62	3	55			14	24	3				
26 156.850	617.00	01942.70	7.72	151	12				14	24	3				
27 156.424	638.00	01950.77	7.01	149	12				14	24	3				
28 158.915	461.00	01955.59	6.72	149	15				14	24	3				
29 157.442	222.00	01962.55	6.95	144	15				14	24	3				
30 157.649	536.00	01969.49	6.71	84	11				14	24	3				
31															

1555.000 19911. 321 14.0 433

I CERTIFY THIS INFORMATION TO BE ACCURATE TO THE BEST OF MY KNOWLEDGE.

Ed. Atwater
STONY ALBERT, WATER SUPT.
CERT #2339

WE USE 150# CHLORINE GAS CYLINDERS FOR CHLORINATION, 25# HYDROFLUOSILIC ACID, FULL STRENGTH FOR FLUORIDATION AND 325 PHOSPHATE FOR IRON.

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FLOURIDE WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	FLOURIDE TEST	AUX. CHL. TANK	LBS. USED	CHLORINE TANK	RESIDUAL PLANT FREE TOTAL FREE TO	RESID. DIST.
1 120 965	552.002	06584.44	10.64	78	14			1.05		2.2	006.10	7.6	1.2
2 121 534	719.000	06523.39	3.45	83	15			1.05		1	006.10	7.6	1.2
3 122 362	735.000	06522.49	8.70	68	15			1.04		2.0	006.10	7.6	1.2
4 123 058	670.000	06531.51	9.42	54	14	11.2	16.2	1.0	0.03	2.0	006.10	7.6	1.2
5 124 112	651.000	0655.31	19.72	132	22			1.0	0.03	3.2	006.10	7.6	1.2
6 124 612		0656.24		132				1.0			006.10	7.6	1.2
7 126 015	1413.000	0625.92	17.64	103	24			1.0	0.03	2.8	006.10	7.6	1.2
8 126 353	368.000	06533.53	14.0	95	8			1.04	0.03	2.1	006.10	7.6	1.2
9 127 908	1075.000	0650.96	13.43	74	21	41	115	1.05	0.03	2.2	006.10	7.6	1.2
10 127 408		0651.76		115				1.05	0.03	2.2	006.10	7.6	1.2
11 128 048	115.000	0661.70	14.74	91	24			1.05	0.03	2.2	006.10	7.6	1.2
12 129 118	966.000	0662.59	12.14	71	20			1.05	0.03	2.2	006.10	7.6	1.2
13 129 614		0663.85		71	24			1.05	0.03	2.2	006.10	7.6	1.2
14 130 988	2345.000	0626.10	10.96	54	37	14	168	1.01	0.03	2.1	006.10	7.6	1.2
15 131 267	298.000	0624.57	3.77	34	6			1.0	0.03	2.1	006.10	7.6	1.2
16 131 634	272.000	0623.09	3.62	140	4			1.04	0.03	2.1	006.10	7.6	1.2
17 132 434	512.000	0629.25	9.96	121	9			1.05	0.03	2.2	006.10	7.6	1.2
18 134 115	872.000	0626.3	20.93	97	34	30	127	1.04	0.03	2.2	006.10	7.6	1.2
19 134 317	322.000	0627.02	2.34	123	4			1.05	0.03	2.2	006.10	7.6	1.2
20 135 746	1949.000	0649.08	7.91	94	24			1.05	0.03	2.2	006.10	7.6	1.2
21 135 434	93.000	0649.177	1.19	92	2			1.05	0.03	2.2	006.10	7.6	1.2
22 136 541	762.000	0628.24	9.82	78	14			1.05	0.03	2.2	006.10	7.6	1.2
23 137 102	636.000	0627.24	2.77	68	12	97	165	1.04	0.03	2.2	006.10	7.6	1.2
24 137 351	58.000	0628.23	8.02	58				1.05	0.03	2.2	006.10	7.6	1.2
25 138 528	987.000	0622.71	11.88	129	18			1.05	0.03	2.2	006.10	7.6	1.2
26 139 530	625.000	0625.58	1.67	121	1			1.05	0.03	2.2	006.10	7.6	1.2
27 139 230		0624.21		121				1.05	0.03	2.2	006.10	7.6	1.2
28 140 014	142.000	0625.25	3.72	91	20	5	116	1.05	0.03	2.2	006.10	7.6	1.2
29 140 214		0623.05		121				1.05	0.03	2.2	006.10	7.6	1.2
30 141 348	222.000	0626.14	3.24	129	13			1.05	0.03	2.2	006.10	7.6	1.2
31 142 034	222.000	0626.5	0.44	121	2			1.05	0.03	2.2	006.10	7.6	1.2

TOTAL - 2693.00 276.34 445

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

SIGNED: [Signature]
WATER SUPERINTENDENT
CERT. #2439

WE USE 1504 CHLORINE GAS CYLINDERS FOR CHLORINATION AND 254 HYDROFLUORIC ACID IS ADDED FULL STRENGTH FOR FLOURATION.

WELL # 2

STANMORE FLUORINATION & CHLORINATION REPORT

DEVALD CO.

MOUTH OF JUNE 1977

METER READING (1000 GAL.)	GALLONS PUMPED	ELECTRIC READING	DIFF.	FLUORINE WEIGHT	LBS. USED	LBS. ADDED	TOTAL WEIGHT	FLUORINE TEST	AUX. CHL. TANK	LBS. USED	CHLORINE TANK	RESIDUAL PLANT FREE TOTAL	RESIDUAL DIST.
1 098 314	572.00	0.220.18	7.22	68	11				36	36	180		
2 839 830	102.00	0.139.44	19.35	37	31				0	50	132		
3 100 071	2.00	0.142.82	2.90	31	5	126	167	1.0		14	182	1.0	1.6
4 101 257	150.00	0.165.70	14.89	62						36	82		
5 101 634	372.00	0.162.20	4.85	159	8			1.00		14	69	1.0	1.8
6 102 719	105.00	0.174.00	13.70	137	22			1.00		34	22	1.0	1.5
7 103 592	612.00	0.178.57	5.57	124	23	18	142	1.0	150	24	8	1.0	1.5
8 104 584	112.00	0.295.04	15.07	118	24				150	1			
9 105 569	785.00	0.323.34	13.70	99	19				138	12			
10 107 720	1402.00	0.332.72	20.59	67	32	07	164	1.0	16	02		1.5	1.6
11 107 872	142.00	0.354.30	21.65	135	29			1.0	70	46		1.0	1.5
12 109 458	760.00	0.304.52	9.55	118	17	54	172	1.0	49	20		1.0	1.3
13 107 856	145.00	0.360.84	2.52	168	4			1.03	92	6		1.5	1.0
14 110 099	242.00	0.342.88	3.04	163	5			1.01	70	6		1.5	1.1
15 111 264	105.00	0.332.27	14.09	120	23				8	30	180		
16 112 224		0.293.07		140					6				
17 112 107	113.00	0.342.52	18.20	113	27			1.0	16	23		1.0	1.3
18 112 402	145.00	0.400.28	1.60	105	5			1.01	16	2		1.0	1.7
19 113 841	147.00	0.266.12	12.70	97	21			1.0	82	2		1.0	1.5
20 113 545		0.170.87		87									
21 114 920	125.00	0.272.20	13.20	62	21	98	108	1.0		3	20	1.0	1.5
22 114 747		0.143.20		104									
23 114 310	282.00	0.222.24	2.30	36	25					30			
24 114 514		0.144.74		160									
25 117 511	105.00	0.252.23	14.87	118	24			1.0		22		1.0	1.5
26 117 715	22.00	0.245.20	2.57	120	4								
27 118 000	712.00	0.256.84	9.85	94	16			1.0	78			1.0	1.5
28 119 250	58.00	0.253.82	7.02	54		52	106	1.0					
29 119 500	5.00	0.257.00	9.85	118	5								
30 119 440	50.00	0.248.20	12.0	114									
31 120 215		0.250.00	5.0	110	2								
TOTAL										419		24.10	

I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

SIGNED: *[Signature]*
WATER SUPERINTENDENT
CERT. 12439

WE USE 150# CHLORINE GAS CILINDERS FOR CHLORINATION AND 25# HYPOCHLORITE ACID IS ADDED FOR FLUORINATION.

8

CYCLOPENTADIENE FLUORINATION & CHLORINATION REPORT
DEKALB CO.

DEKALB CO.

MONTH OF June

[illegible]

TUTAL -

~~I CERTIFY THAT THIS INFORMATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.~~

SIGNED: [Signature]
DATE: 10/10/00

IS THE 1904 CHLORINE-GAS COLUMNS FOR CHLORINATION AND THE HYDROLYSIS OF
ACID IS NEEDED FULL STRENGTH FOR FILTRATION.

NET

NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Midwest, Inc.
20000 Highway 10
Westfield, WI 53090
Tel: 414-289-2100
Fax: 414-289-1445

BACTERIOLOGICAL ANALYSIS

Mail Reports to: *ST. LOUIS*

Standard Fee: \$100.00 (100.00) (100.00) (100.00)

NAME: *ST. LOUIS*

DATE COLLECTED:

ADDRESS: *535 DELAWARE AVE*

COLLECTED BY:

CITY: *ST. LOUIS*

STATE:

ZIP CODE:

SAMPLE PURPOSE:

ATTN:

ROUTINE

REPLACEMENT

NEW INSTRUCTION

Other:

DATE WE:

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

REPEAT

INVALID SAMPLE

NAME:

PHONE:

Orig. Smp. Lab. No.

Orig. Smp. Lab. No.

ST. LOUIS 458-2548

Orig. Smp. Lab. No.

Orig. Smp. Lab. No.

BOTTLE NO.	NET SAMPLE NUMBER	SITE NO. / SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (HR. CLOCK)	RESIDUAL CHLORINE (mg/l)	COLORIMETER READING	TOTAL COLIFORMS	FECA COLIFORMS	SPRINT
1	30977	99901-00	WELL #1	R	7:30	0			S
2	30978	99902-00	WELL #3	R	7:30	83	N	P	U
3	30979	10001-02	2015-02	D	7:30	0			S
4	30980	10501-02	2015-02	D	7:30	0			S
5	30981	10601-02	701E ELEV.	D	7:30	0			S
6	30982	10301-02	HIGH PILE	D	7:30	0			S
7	30983	10402-03	1015-02	D	7:30	0			S
8	30984	10401-02	535 DELAWARE	D	7:30	0			S
9	30985	10701-02	200 PILE	D	7:30	0			S
10	30986	10801-02	307E W/43.4	D	7:30	0			S
11	30987	10201-02	HIGH SCHOOL	D	7:30	0			S
12	30988	10101-02	2515 SCHOOL	D	7:30	0			S

PERSON NOTIFIED OF RESULTS	DATE AND TIME ANALYZED	ANALYST INITIALS	METHOD: MEMBRANE FILTER ☐ COLLECT	CONTROL
5-14-92 5-15-92 5-15-92	1570 No. AUS 1030 LINDA BUS 1105 No. AUS	5-13-92 1040-1100	Dr. J.	0
DATE	TIME	BY	SIGNATURE	
		Dr. J.	Dr. J. Weaver	

NETNATIONAL
ENVIRONMENTAL
TESTING, INC.

BACTERIOLOGICAL ANALYSIS

Mail Report to:

NAME

ADDRESS

CITY

ATTN

PERSON TO CONTACT FOR INST. LABORATORY RESULTS

NAME

BOTTLE

NET

SAMPLE

NUMBER

SITE NO. SAMPLING POINT

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14177 Michewest Inc.
Barium Division
810 West Barium Road
Barberton, IL 60703
Tel.: 708/289-3100
Fax: 708/289-3445

BACTERIOLOGICAL ANALYSIS

Shaded Areas for Lab Use Only - Print With Black Pen

PLAQUE ~~THE~~ City of Syracuse

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME: _____ Date: _____

DATE COLLECTED

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4-4

COLLECTED BY:

PROOF. Fix $\lambda \in \mathbb{R}$. The map

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SAMPLE 2. SAMPLE

6

ROUTINE

N.T. 545 14

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REPEAT

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Orig. Simps.

Đang tìm lại

[illegible]

PERSON NOTIFIED OF RESULTS <i>Ken</i>				DATE AND TIME ANALYZED <i>4-7-92 1215-1235</i>		ANALYST INITIALS <i>JRW</i>		METHOD MEMBRANE FILTER COLLISIT		CONTROL <i>0</i>	
DATE:		TIME:		hrs BY		<i>John P. Williams</i>					

IDPH Reg. No. 17533

Temp - 21°C

*REASON FOR REPLACEMENT
☐ SAMPLES MORE THAN 30 HOURS OLD
☐ NO DATE/TIME OF COLLECTION
☐ OTHER _____

CENTRO ANALYSIS & SIGNATURE

See Reverse for
Further Information

NET

NATIONAL
ENVIRONMENTAL
TESTING, INC.

1000 West 10th Street
Des Moines, Iowa 50319
Phone: (515) 281-1100
Telex: 281-1100

BACTERIOLOGICAL ANALYSISMail Reports to *Sycamore*NAME *SVD ALBRECHT*ADDRESS *535 Dekalb Ave*CITY *Sycamore*STATE *IL*

ATTN

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME *SVD ALBRECHT* PHONE *815-895-2246*

BOTTLE #	NET SAMPLE NUMBER	SITE NO / SAMPLING POINT	SAMPLE TIME	DATE TIME	WATER TEMP	COLORS REACTIONS	TOTAL COLIFORMS	FECAL COLIFORMS	OTHER
1	28957	9904-00 Wm #	1	7:15am		0			S
2	28958	9905-00 Wm #	1	7:30am		0			S
3	28959	10001-02 2615 L Loc	2	7:45am	1.3	0			S
4	28960	10501-02 Sater. Co	D	8:41a		0			S
5	28961	10601-02 433 L Loc	D	8:15am	2	0			S
6	28962	10301-02 Hospital	D	8:30am	1.6	0			S
7	28963	10902-03 1871 Minness	D	8:45am	-	0			S
8	28964	10401-02 535 Dekalb	D	9:21m	9	0			S
9	28965	10701-02 260 Page	D	9:15am	7	0			S
10	28966	10801-02 367 Cottage	D	9:30am	10	0			S
11	28967	10201-02 High School	D	9:45am	9	0			S
12	28968	10101-02 West School	D	10:01m	9	0			S

PERSON NOTIFIED OF RESULTS	DATE AND TIME ANALYZED	ANALYST	METHOD	CONTROL
	5-15-82 10:00 AM	J. Weaver	MEMBRANE FILTER COLONY	0
DATE	TIME	INITIALS	BY	
			J. Weaver	



NATIONAL
ENVIRONMENTAL
TESTING, INC.

1817 Midwest Inc.
Baltimore Division
5501 Ward Barnhart Road
Baltimore, MD 21203
Tel: 708-289-3100
Fax: 708-289-5445

BACTERIOLOGICAL ANALYSIS

Mail Reports to

20020000

Shaded Areas for Lab Use Only. Print With Black Pen

NAME SID GLORENT DATE COLLECTED 2-12-92
ADDRESS 555 DELAWARE AVE COLLECTED BY [Signature]
CITY SYCAMORE STATE IL ZIP CODE 60155 SAMPLE PURPOSE ROUTINE REPLACEMENT NEW CONSTRUCTION
ATTN PRIVATE WELL
PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
NAME SID GLORENT PHONE 815-885-2548 REPEAT INVALID SAMPLE
Orig Smpl Lab No Orig Smpl Lab No
Orig Smpl Lab No Orig Smpl Lab No

BOTTLE NO	NET SAMPLE NUMBER	SITE NO / SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE (mg/l)	COLONIES READING	TOTAL COLIFORMS	FECAL COLIFORMS	SPORON
1	27270	99903-00 WELLS #6	R	7:30 AM		0			S
2	27271	99904-00 WELLS #7	R	7:30 AM		0			S
3	27272	10001-02 2615 GLORENT	D	7:45 AM	1.5	0			S
4	27273	10301-02 SUPER L	D	8:00 AM	1.0	0			S
5	27274	10601-02 452 R.F.	D	8:15 AM	1	0			S
6	27275	10301-02 HOSDIFAL	D	8:30 AM	1	0			S
7	27276	10902-03 1351 HOSDIFAL	D	4:45 PM	1.5	0			S
8	27277	10401-02 555 DELAWARE	D	9 AM	6	0			S
9	27278	10701-02 200 FALC	D	9:15 AM	1.1	0			S
10	27279	10801-02 507 E WELLS	D	9:30 AM	3	0			S
11	27280	10201-02 HIGH SCHOOL	D	9:45 AM	7	0			S
12	27281	10101-02 WELLS SCHOOL	D	10 AM	7	0			S

PERSON NOTIFIED OF RESULTS DATE AND TIME ANALYZED 2-12-92 11:30-11:50 ANALYST INITIALS JFW METHOD: MEMBRANE FILTER CONTROL 0
DATE TIME BY CERTIFIED ANALYST'S SIGNATURE [Signature]



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

SYCAMORE

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NAME

SYD A-BRECHT

DATE COLLECTED

6-14-92

DATE & TIME RECEIVED

6-15-92 11:00 AM

ADDRESS

535 DELAWARE AVE

COLLECTED BY

E. Smith

CITY

SYCAMORE

STATE

IL

ZIP CODE

60178

SAMPLE PURPOSE

ROUTINE

NEW CONSTRUCTION

PERMIT NO.

ATTN

RESAMPLE

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

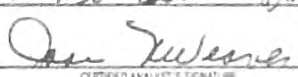
NAME SYD A-BRECHT PHONE 415-895-2548

PUBLIC WATER SUPPLY

FACILITY NO 022052

PRIVATE WELL

BOTTLE NO	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE (PPM)	TOTAL COLIFORM PER 100 ML (CFU MP)	ATYPICAL COLIFORM PER 100 ML (CFU MP)	OPINION
1	25724	9905-00 Well #5	R	7:00 AM		0	0	S
2	25725	9903-00 Well #6	R	7:30 AM		0	0	S
3	25726	1001-02 2615 Elm	D	7:45 AM	1.2	0	0	S
4	25727	10501-02 Surface	D	8:00 AM	1.5	0	0	S
5	25728	10601-02 733 E Elm	D	8:15 AM	1.0	0	0	S
6	25729	10301-02 HOSPITAL	D	8:30 AM	1.1	0	0	S
7	25730	10902-03 185 W. 21st St	D	8:45 AM	1.1	0	0	S
8	25731	10401-02 585 Duane	D	9:00 AM	1.4	0	0	S
9	25732	10701-02 200 P. Ave	D	9:15 AM	1.3	0	0	S
10	25733	10801-02 307 E. Cottage	D	9:30 AM	1.4	0	0	S
11	25734	10201-02 HIGH SCHOOL	D	9:45 AM	1.5	0	0	S
12	25735	10101-02 WEST SIDE	D	10:00 AM	1.6	0	0	S

PERSON NOTIFIED OF RESULTS			DATE AND TIME ANALYZED		CONTROL
			1-15-92 1230-1250		0
DATE	TIME	BY	 CERTIFIED ANALYST'S SIGNATURE		

Opinion

S-satisfactory, safe for drinking. No coliforms detected
 Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking
 U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking
 N-nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by PL 93-532, and may be harmful to infants.

Results reported are provided by client

See Reverse For
Further Information

NETNATIONAL
ENVIRONMENTAL
TESTING, INC.

BACTERIOLOGICAL ANALYSIS

Mail Reports:

NAME

ADDRESS

CITY

ATTN

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME

BOTTLE NO.	NET SAMPLE NUMBER	SITE NO. SAMPLING POINT	DATE AND TIME ANALYZED	TEST METHOD	RESULTS
1	34277	99904-00 - 1000' - 1000'	10/10/80	1000'	0
2	34278	99905-00 - 1000' - 1000'	10/10/80	1000'	0
3	34279	10001-00 - 1000' - 1000'	10/10/80	1000'	0
4	34280	10002-00 - 1000' - 1000'	10/10/80	1000'	0
5	34281	10003-00 - 1000' - 1000'	10/10/80	1000'	0
6	34282	10004-00 - 1000' - 1000'	10/10/80	1000'	0
7	34283	10005-00 - 1000' - 1000'	10/10/80	1000'	0
8	34284	10006-00 - 1000' - 1000'	10/10/80	1000'	0
9	34285	10007-00 - 1000' - 1000'	10/10/80	1000'	0
10	34286	10008-00 - 1000' - 1000'	10/10/80	1000'	0
11	34287	10009-00 - 1000' - 1000'	10/10/80	1000'	0
12	34288	10010-00 - 1000' - 1000'	10/10/80	1000'	0

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

TEST METHOD

RESULTS

DATE	TIME	ANALYST	TEST METHOD	RESULTS
10/10/80	10:00	1000'	1000'	0

REASON FOR REPLACEMENT
SAMPLES MORE THAN 30 HOURS OLD
NO DATE/TIME FOR COLLECTION
OTHER



NEI Midwest Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103
Tel: (708) 299-3100
Fax: (708) 299-5445

Mail Reports to: *SPC 27 CRF*

Shaded Areas for Lab Use Only — Print With Black Ink

NAME: SYD ALBRECHT

DATE COLLECTED _____

DATE RECEIVED

ADDRESS _____

COLLECTED BY:

Page 10 of 10

CITY

29 CODE

SAMPLE PURPOSE

11

ATTN:

2000

7

Figure 1. Study design.

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

REPEAT

RNA JO SAMPLE

NAME _____

Orig Singl Lab Acc

Ching Shun Lao Mei

PERSON NOTIFIED OF RESULTS			DATE AND TIME ANALYZED 11-20-91 1200-1230		ANALYST INITIALS Jaw	METHOD ☐ MEMBRANE FILTER ☐ COLLETT	CONTROL 0
DATE:	TIME:	BY:	Jaw Jaweave				

IOPH Reg. No. 17533

*REASON FOR REPLACEMENT
 * SAMPLES MORE THAN 30 HOURS OLD
 NO DATE/TIME OF COLLECTION
 OTHER

See Reverse for
Expanded Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Midwest, Inc.
 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-5445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to: SKAMORE

Shaded Areas for Lab Use Only—Print With Black Pen

NAME SID ALBRECHT DATE COLLECTED 10-15-91 DATE TIME RECEIVED 10-16-91 10:00 AM
 ADDRESS 535 DEKALB AVE COLLECTED BY E. SMITH POSTAL FACILITY NO. 6370550
 CITY SKAMORE STATE IL ZIP CODE 60178 SAMPLE PURPOSE ☒ ROUTINE ☐ REPLACEMENT ☐ NEW CONSTRUCTION
 ATTN: ☐ Other ☐ PRIVATE WELL
☐ REPEAT ☐ INVALID SAMPLE
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
 NAME SID ALBRECHT PHONE 815-845-2545 Orig Smpl Lab No. _____ Orig Smpl Lab No. _____
 Orig Smpl Lab No. _____ Orig Smpl Lab No. _____

BOTTLE NO.	NET SAMPLE NUMBER	SITE NO./SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE (mg/L)	COLORS (PCU/100mL)	TOTAL COLIFORMS	FECA COLIFORMS	SPHERA
<u>1</u>	<u>20095</u>	<u>99905-00 WELL #8</u>	<u>R</u>	<u>7:54 AM</u>		<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>2</u>	<u>20096</u>	<u>99903-00 WELL #6</u>	<u>R</u>	<u>7:30 AM</u>		<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>3</u>	<u>20097</u>	<u>10001-02 2615 LUGAN</u>	<u>D</u>	<u>7:45 AM</u>	<u>1.4</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>4</u>	<u>20098</u>	<u>10501-02 SUPER</u>	<u>D</u>	<u>8:40 AM</u>	<u>1.3</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>5</u>	<u>20099</u>	<u>10401-02 423 E. E. HWY.</u>	<u>D</u>	<u>8:50 AM</u>	<u>.5</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>6</u>	<u>20100</u>	<u>10301-02 HOSPITAL</u>	<u>D</u>	<u>9:30 AM</u>	<u>7.</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>7</u>	<u>20101</u>	<u>10401-02 1951 MEADOW</u>	<u>D</u>	<u>9:45 AM</u>	<u>1.6</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>8</u>	<u>20102</u>	<u>10401-02 535 DEKALB</u>	<u>D</u>	<u>9:47 AM</u>	<u>.4</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>9</u>	<u>20103</u>	<u>10701-02 200 PACE</u>	<u>D</u>	<u>9:50 AM</u>	<u>1.0</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>10</u>	<u>20104</u>	<u>10801-02 207 E. OGDON</u>	<u>D</u>	<u>9:50 AM</u>	<u>.7</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>11</u>	<u>20105</u>	<u>10201-02 HIGH SCHOOL</u>	<u>D</u>	<u>9:45 AM</u>	<u>.3</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>
<u>12</u>	<u>20106</u>	<u>10101-02 WEST SCHOOL</u>	<u>D</u>	<u>10:45 AM</u>	<u>.6</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>S</u>

PERSON NOTIFIED OF RESULTS _____ DATE AND TIME ANALYZED 10/16/91 12:15-12:30 ANALYST INITIALS SMH METHOD ☒ MEMBRANE FILTER ☐ COLLECTOR CONTROL 0
 DATE _____ TIME _____ RES. BY 10/17/91 Susan M. Jockwell CERTIFIED ANALYST'S SIGNATURE

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Midwest Inc.
 Bartlett Division
 650 West Bartlett Road
 Bartlett, IL 60103
 Tel (708) 289-3100
 Fax (708) 289-5445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to SYC 24026

Shaded Areas for Lab Use Only - Print With Black Pen

NAME SYD ALBRECHT DATE COLLECTED 9-17-91 DATA TIME RECEIVED 9:52 AM
 ADDRESS 535 DEKALB AVE COLLECTED BY E. SMITH PWS FACILITY NO. 0370550
 CITY SYCAMORE STATE IL ZIP CODE 60178 SAMPLE PURPOSE ROUTINE REPLACEMENT ☐ NEW CONSTRUCTION ☐
 ASTR ☐ Other ☐ REPEAT ☐ INVALID SAMPLE ☐ PRIVATE WELL ☐
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
 NAME SYD ALBRECHT PHONE 815-945-2548 Orig Smpl Lab No. Orig Smpl Lab No.

BOTTLE ID	NET SAMPLE NUMBER	SITE NO /SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE mg/L	COLONIES RECOUNT	TOTAL COLIFORMS	FECAL COLIFORMS	DPHCA
1	18251	99904-00 WELL #7	R	7:50a		0			S
2	18252	99905-00 WELL #8	R	7:50a		0			S
3	18253	10001-02 2515 LICK	P	7:45a	15	0			S
4	18254	10501-02 DUTCH	D	8:00a	11	0			S
5	18255	10601-02 423 E. E.	D	8:15a	2	0			S
6	18256	10301-02 HARTMAN	D	8:20a	14	0			S
7	18257	10402-03 1851 PARK	D	8:45a	19	0			S
8	18258	10401-02 535 DEKALB	D	9:00a	7	0			S
9	18259	10701-02 200 PAGE	D	9:15a	18	0			S
10	18260	10801-02 307 E. OTTAWA	D	9:20a	2	0			S
11	18261	10201-02 HIGH SCHOOL	D	9:45a	3	0			S
12	18262	10101-02 1615 SCHOOL	D	10:00a	4	0			S

PERSON NOTIFIED OF RESULTS DATE AND TIME ANALYZED 9-17-91 1:20-1:40 PM ANALYST INITIALS SM METHOD MEMBRANE FILTER CONTROL 0
 DATE TIME NO. BY CERTIFIED ANALYST'S SIGNATURE Jean Knepper

IDPH Reg. No. 17533

 REASON FOR REPLACEMENT
☐ SAMPLES MORE THAN 30 HOURS OLD
☐ NO DATE/TIME OF COLLECTION
☐ OTHER

 See Reverse For
 Further Information



Shaded Areas for Lab Use Only—From A to B, Back Pen

See Reverse For
Further Information

BACTERIOLOGICAL ANALYSIS

Mail Reports to

Shaded Areas for Lab Use Only—Print With Black Pen

NAME SID AURENT DATE COLLECTED 10-26-91 DATE & TIME RECEIVED 10-23-91 10:50 AM
ADDRESS 535 DELAWARE AVE COLLECTED BY G. S. 154 PWS FACILITY NO. _____
CITY SYCAMORE STATE IL ZIP CODE 60178 SAMPLE PURPOSE
☐ ROUTINE ☐ REPLACEMENT ☐ NEW CONSTRUCTION
☐ Other WELL SHUT UP ☐ PRIVATE WELL
☐ REPEAT ☐ INVALID SAMPLE
PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
NAME SID AURENT PHONE 815-845-2545
Original Smpl Lab No. _____ Original Smpl Lab No. _____
Original Smpl Lab No. _____ Original Smpl Lab No. _____

[illegible]

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED _____

ANALYST

METHOD

CONTROL

/ yd		10-23-91	113A	INITIALS <i>JW</i>	MEMBRANE FILTER ☒ COLLECT	0
DATE 10-24-91	TIME 1300hrs	BY <i>JW</i>				

CERTIFIED ANALYST'S SIGNATURE _____

*REASON FOR REPLACEMENT:
☐ SAMPLES MORE THAN 30 HOURS OLD
☐ NO DATE/TIME OF COLLECTION
☐ OTHER: _____

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 1487 Midwest, Inc.
 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-5445

BACTERIOLOGICAL ANALYSIS

Mail Reports to:

Shaded Areas for Lab Use Only - Print With Black Pen

NAME SYCAMORE SYO ALBRECHT DATE COLLECTED 8-11-91 DATE TIME RECEIVED 8-14-91 10:00 AM
 ADDRESS 535 DEKALB AVE COLLECTED BY ESN-H POST FACILITY NO. 0170050
 CITY SYCAMORE STATE IL ZIP CODE 60178 SAMPLE PURPOSE ☒ ROUTINE ☐ REPLACEMENT ☐ NEW CONSTRUCTION
 ATTN: ☐ Other ☐ REPEAT ☐ INVALID SAMPLE ☐ PRIVATE WELL
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS: _____
 NAME SYO ALBRECHT PHONE 815-895-2548 Ong Smpl Lab No. _____ Ong Smpl Lab No. _____
 Ong Smpl Lab No. _____ Ong Smpl Lab No. _____

BOTTLE ID	NET SAMPLE NUMBER	SITE NO./SAMPLING POINT	SAMPLI TYPE	TIME COLLECTED (24 HR. CLOCK)	RESIDUAL CHLORINE mg/l	COLONIES REACTION	TOTAL COLIFORMS	FECAL COLIFORMS	OTHER
1	16172	99903-00 WAL #4	R	7:15 AM		0			S
2	16173	99904-00 WAL #7	R	7:30 AM		0			S
3	16174	10001-02 3615 LILAC	D	7:45 AM	1.1	0			S
4	16175	10501-02 SUTER	D	8 AM	7	0			S
5	16176	10601-02 433 E. GR	D	8:15 AM	2	0			S
6	16177	10301-02 HOSPITAL	D	8:30 AM	3	0			S
7	16178	10902-03 1851 MANES	D	8:45 AM	12	0			S
8	16179	10401-02 535 DEKALB	D	9 AM	4	0			S
9	16180	10701-02 200 PAGES	D	9:15 AM	6	0			S
10	16181	10801-02 307 E. OTTAWA	D	9:30 AM	5	0			S
11	16182	10201-02 HIGH SCHOOL	D	9:45 AM	4	0			S
12	16183	10101-02 WEST SCHOOL	D	10 AM	4	0			S

PERSON NOTIFIED OF RESULTS			DATE AND TIME ANALYZED <u>8-14-91 10:00-10:15</u>		ANALYST INITIALS <u>Jm</u>	METHOD MEMBRANE FILTER ☐ COLLECT	CONTROL <u>0</u>
DATE	TIME	BY	CERTIFIED ANALYST'S SIGNATURE <u>Joni Swencer</u>				

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TESTING, INC.**

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 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
 Tel.: (708) 289-3100
 Fax: (708) 289-4180

IDPH Reg. No. 17533

Mail Reports to: **SYCAMORE**

Shaded Areas for Lab Use Only—Print With Black Pen

NAME SYD ALBRECHT		DATE COLLECTED 7-23-91	DATE & TIME RECEIVED 7-24-91 2:00
ADDRESS 535 DEKALB AVE		COLLECTED BY E. Smith	
CITY SYCAMORE	STATE IL	SP CODE 60178	PERMIT NO.
ATTN		SAMPLE PURPOSE ☒ ROUTINE ☐ RESAMPLE	☐ NEW CONSTRUCTION ☐ OTHER
PERSON TO CONTACT FOR UNSATISFACTORY RESULTS NAME SYD ALBRECHT , PHONE 815-895-2548		☐ PUBLIC WATER SUPPLY FACILITY NO. 0170550 ☐ PRIVATE WELL	

BOTTLE NO.	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (ON HR. CLOCK)	RESIDUAL COLIFORM PER 100 ML (CFU)	TOTAL COLIFORM PER 100 ML (CFU)	ATYPICAL COLIFORM PER 100 ML (CFU)	OPINION
1	14728	99905-00 Well #8	R	7:55 AM		0	0	S
2	14729	99903-00 Well #6	R	7:30 AM		0	0	S
3	14730	10001-02 2615 Lick	D	7:45 AM	12	0	0	S
4	14731	10501-02 Suter	D	8 AM	.5	0	0	S
5	14732	10801-02 433 E. Exch	D	8:15 AM	.4	0	0	S
6	14733	10301-02 Hospital	D	8:30 AM	6	0	0	S
7	14734	10902-03 1851 massess	D	8:45 AM	1.3	0	0	S
8	14735	10401-02 535 DeKalb	D	9 AM	.7	0	0	S
9	14736	10701-02 200 Page St.	D	9:15 AM	7.0	0	0	S
10	14737	10801-02 307 E. Ottawa	D	9:30 AM	.4	0	0	S
11	14738	10201-02 High School	D	9:45 AM	.4	0	0	S
12	14739	10101-02 West School	D	10 AM	.5	0	0	S

PERSON NOTIFIED OF RESULTS	DATE AND TIME ANALYZED 7-24-91 11:00-11:30	CONTROL 0
DATE	TIME	BY J. Weaver

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
 Q-questionable—4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
 U-unsatisfactory—more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
 Nitrate—if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

 See Reverse For
 Further Information

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TESTING, INC.**

 NET Midway Inc.
 Bartlett Division
 450 West Bartlett Road
 Bartlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-5440

BACTERIOLOGICAL ANALYSIS

 Mail Reports to **SYCAMORE**

Shaded Areas To Be Filled In Only - Print With Black Pen

NAME: **SYD ALBRECHT** DATE COLLECTED: **6-19-84** ANALYST: **J. M. J.**
 ADDRESS: **535 DEKALB AVE** COLLECTED BY: **C. Smith** PARTIAL: **NO**
 CITY: **SYCAMORE** STATE: **IL** ZIP CODE: **60178** SAMPLE PURPOSE: ☒ ROUTINE REPLACEMENT: ☐ NEW CONSTRUCTION: ☐
 ATTN: **SYD ALBRECHT** PHONE: **515 896-2548** OTHER: ☐ REPEAT: ☐ ANALYTICAL SAMPLE: ☐
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS: **SYD ALBRECHT** ORIGINAL LAB NO: **6-19-84** NEW CONSTRUCTION LAB NO: **6-19-84**

BOTTLE #	NET SAMPLE NUMBER	SITE NO./SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE PPM	COLONIES RECOUNT	TOTAL COLIFORMS	FCAL COLIFORMS	SPHER
1	11716	99904-00 well #7	R	7:15 AM		0			S
2	11717	99905-00 well #8	R	7:30 AM		0			S
3	11718	10001-02 2615 LEX LN	D	7:45 AM	15	0			S
4	11719	10501-02 Stater	D	8 AM	7	0			S
5	11720	10601-02 432 E. Exh.	D	8:15 AM	5	0			S
6	11721	10301-02 Hospital	D	8:30 AM	5	0			S
7	11722	10902-03 1851 W. Wess	D	8:45 AM	12	0			S
8	11723	10401-02 515 DEKALB	D	9 AM	6	0			S
9	11724	10701-02 205 Page St	D	9:15 AM	4	0			S
10	11725	10801-02 307 E. Arthur	D	9:30 AM	7	0			S
11	11726	10201-02 High School	D	9:45 AM	5	0			S
12	11727	10101-02 West School	D	10:2 AM	4	0			S

PERSON NOTIFIED OF RESULTS: _____ DATE AND TIME ANALYZED: **6-19-84 10:15** ANALYST INITIALS: **J. M. J.**
 METHOD: **MEMBRANE FILTER COLLECT** CONTROL: **0**
 DATE: _____ TIME: _____ BY: _____ **John M. J.**
 CERTIFIED ANALYST'S SIGNATURE

 *REASON FOR REPLACEMENT
☐ SAMPLES MORE THAN 30 HOURS OLD
☐ NO DATE/TIME OF COLLECTION
☐ OTHER

 See Reverse For
 Further Information

NETNATIONAL
ENVIRONMENTAL
TESTING, INC.
 800-371-7441
 800-371-7442
 800-371-7443
 800-371-7444
 800-371-7445
 800-371-7446
 800-371-7447
 800-371-7448
 800-371-7449
 800-371-7450
BACTERIOLOGICAL ANALYSISMail Reports to *SICAMORE*

Shaded Areas Not to be Filled In With Black Pen

 NAME *STO. LOUISIANA* DATE COLLECTED *5-17-91* TIME *5:54 PM*
 ADDRESS *535 DEKALB AVE* COLLECTED BY *E. STONE*
 CITY *SKIDAWAY* STATE *IL.* ZIP CODE *61777* SAMPLE PURPOSE *ROUTINE* REPLACEMENT ☐ NEW CONSTRUCTION ☐
 ATTN *SKIDAWAY* OTHER ☐ PRIVATE WELL ☐

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

 NAME *STO. LOUISIANA* PHONE *815-595-2574* ORIGINAL SAMPLE ☐
 ORIGINAL SAMPLE ☐ ORIGINAL SAMPLE ☐

BOTTLE #	NET SAMPLE NUMBER	SITE NO. / SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR. CLOCK)	W. SOLID (CHLORINE) (%)	CHLORINE (MG/L)	TOTAL (MG/L)	W. SOLID (MG/L)	OTHER
1	9840	99103-00 / Utility #6	R	7:20 AM		0			S
2	9841	99904-00 / Utility #7	R	7:20 AM		0			S
3	9842	10001-02 / 2655 LANE	D	7:45 AM	1.8	0			S
4	9843	10501-02 / SURF	D	8 AM	.5	0			S
5	9844	10601-02 / 437 E. PARK	D	8:15 AM	.4	0			S
6	9845	10201-02 / HOSPITAL	D	8:30 AM	.5	0			S
7	9846	10902-02 / 1951 N. MAIN	D	8:45 AM	1.4	0			S
8	9847	10401-02 / 535 DEKALB	D	9 AM	.6	0			S
9	9848	10701-02 / 224 W. ST.	D	9:50 AM	.5	0			S
10	9849	10801-02 / 301 E. ST.	D	9:50 AM	.4	0			S
11	9850	10201-02 / HIGH SCHOOL	D	9:50 AM	.4	0			S
12	9851	10101-02 / WEST SCHOOL	D	10 AM	.6	0			S

PERSON NOTIFIED OF RESULTS			DATE AND TIME ANALYZED <i>5-15-91 1100-1130</i>		ANALYST <i>SW</i>	METHOD NEW HANSEN FILTER COLLECT	CONTROL <i>10</i>
DATE	TIME	BY	<i>Don Weaver</i> CERTIFIED ANALYST'S SIGNATURE				

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**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

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 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-5445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to **SYCAMORE**

Shaded Areas for Lab Use Only - Print With Black Pen

NAME **SYD ALBRECHT** DATE COLLECTED **6-18-91** DATE & TIME RECEIVED **6/19/91 08:30 AM**
 ADDRESS **535 DEARB. AVE** COLLECTED BY **E. SMITH** ANALYST NO. **0270556**
 CITY **SYCAMORE** STATE **IL** ZIP CODE **60178** SAMPLE PURPOSE ☒ ROUTINE REPLACEMENT ☐ NEW CONSTRUCTION ☐ PRIVATE WELL ☐
 ATTN **SYD ALBRECHT** PHONE **815-895-2548** REPEAT ☐ INVALID SAMPLE ☐
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
 NAME **SYD ALBRECHT** PHONE **815-895-2548** Orig Smpl Lab No. Orig Smpl Lab No.

BOTTLE NO.	NET SAMPLE NUMBER	SITE NO./SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE (ppm)	COLORS REACTIONS	TOTAL COLIFORMS	FECAL COLIFORMS	SPIN
1	11716	99904-00 Wall #7	R	7:15 AM		0			S
2	11717	99925-00 Wall #8	R	7:30 AM		0			S
3	11718	10001-02 2615 LILY LN	D	7:45 AM	1.5	0			S
4	11719	10501-02 Stater	D	8 AM	1	0			S
5	11720	10601-02 4336 EICH	D	8:15 AM	5	0			S
6	11721	10301-02 Hospital	D	8:30 AM	5	0			S
7	11722	10902-03 1851 W. WASS	D	8:45 AM	12	0			S
8	11723	10401-02 515 DEARB	D	9 AM	6	0			S
9	11724	10701-02 200 PAGE ST	D	9:15 AM	9	0			S
10	11725	10801-02 307 E. ARLIN	D	9:30 AM	4	0			S
11	11726	10201-02 High School	D	9:45 AM	5	0			S
12	11727	10101-02 West School	D	10:10 AM	4	0			S

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

ANALYST INITIALS

METHOD MEMBRANE FILTER COLICULT

CONTROL

6-19-91

10915-1105

J. M.

0

DATE TIME NO. BY

J. M.

CERTIFIED ANALYST'S SIGNATURE

 *REASON FOR REPLACEMENT
☐ SAMPLES MORE THAN 30 HOURS OLD
☐ NOT AT TIME OF COLLECTION
☐ OTHER

**RESPONDENT'S
EXHIBIT**

 See Reverse For
Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Mineral, Inc.
 850 West Northwest Blvd.
 Portland, OR 97203
 Tel: (503) 298-1100
 Fax: (503) 298-1445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to: *SILAMORE*

Shaded Areas for L&L Use Only. Print in Black Pen

NAME *STO ALBRECHT* DATE COLLECTED *5-14-91* L&L'S RECEIVED *5-15-91 08:45 M.L.*
 ADDRESS *535 DEERLO AVE* COLLECTED BY *E. STONE* LAB FACILITY NO. *022025*
 CITY *SILAMORE* STATE *IL.* ZIP CODE *60178* SAMPLE PURPOSE ☒ ROUTINE REPLACEMENT ☐ NEW CONSTRUCTION
 ATTN: ☐ OTHER ☐ REPEAT: ☐ INVALID SAMPLE
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
 NAME *STO ALBRECHT* PHONE *845-945-9554* Orig. Sample Lab No. ☐ Orig. Sample Lab No. ☐

BOTTLE ID	NET SAMPLE NUMBER	SITE NO./SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR. CLOCK)	RESIDUAL CHLORINE mg/L	ON-TIME READ (min)	TOTAL COLIFORMS	FECAL COLIFORMS	OTHER
1	9840	99903-00 ✓ Well #6	R	7:50 AM		0			S
2	9841	99904-00 ✓ Well #7	R	7:50 AM		0			S
3	9842	10001-02 ✓ 2615 CHASE	D	7:45 AM	1.8	0			S
4	9843	10501-02 ✓ SUREN	D	8 AM	.5	0			S
5	9844	10601-02 ✓ 437 E. BELL	D	8:15 AM	.4	0			S
6	9845	10201-02 ✓ HOSPITAL	D	8:30 AM	.5	0			S
7	9846	10902-02 ✓ 1851 N. HAWK	D	8:45 AM	1.4	0			S
8	9847	10401-02 ✓ 535 DEERLO	D	9 AM	.4	0			S
9	9848	10701-02 ✓ 224 W. SR.	D	9:15 AM	.5	0			S
10	9849	10501-02 ✓ 207 E. CHASE	D	9:30 AM	.4	0			S
11	9850	10201-02 ✓ HIGH SCHOOL	D	9:45 AM	.4	0			S
12	9851	10101-02 ✓ WEST SCHOOL	D	10 AM	.6	0			S

PERSON NOTIFIED OF RESULTS _____ DATE AND TIME ANALYZED *5-15-91 1100-1130* ANALYST INITIALS *EW* METHOD *APHA 1815 - 1815A* CONTROL *C*
 DATE _____ TIME _____ BY *EW* *John Weaver*
 (PRINTED NAME)

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NE 7 Midwest Inc.
 Bacter Division
 601 West Barker Road
 Bismarck, ND 58103
 Tel: 705-289-3100
 Fax: 705-289-5445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to **SICAMORE**

Shaded Areas for Lab Use Only - Print With Black Pen.

NAME **SIO A-080047** DATE COLLECTED **4-10-91** DATE TIME RECEIVED **4-11-91 9:30 AM**
 ADDRESS **535 DELAWARE AVE** COLLECTOR **E. J. Smith** PROJECT NO. **057150**
 CITY **SICAMORE** STATE **IL** ZIP CODE **61223** SAMPLE PURPOSE **ROUTINE** REPLACEMENT ☐ NEW CONSTRUCTION ☐
 ATTN **HAZ** OTHER ☐ REPEAT ☐ FINAL C SAMPLE ☐ PRIVATE WELL ☐
 PERSON TO CONTACT FOR UNSATISFACTORY RESULTS
 NAME **STO A-080047** PHONE **815-895-3545** Orig Smpl Lab No. ☐ Orig Smpl Lab No. ☐

WELL ID	NET SAMPLE NUMBER	SITE NO./SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (DAY, MONTH, YEAR)	RESIDUAL CHLORINE mg/l	COLONIES READ/100ml	TOTAL COLIFORMS	RECAL COLIFORMS	OPINION
1	6216	99905-00 W. Well #8	R	7:30 AM		0			S
2	6217	99905-00 W. Well #6	R	7:30 AM		0			S
3	6218	10001-02 2615 G. Rd	D	7:45 AM	1.5	0			S
4	6219	10501-02 Super.	D	8:40 AM	1.5	0			S
5	6220	10601-02 433 E. St.	D	9:15 AM	.7	0			S
6	6221	10301-02 Hospital	D	9:30 AM	.7	0			S
7	6222	10902-03 181 N. Main	D	8:45 AM	1.6	0			S
8	6223	10401-02 535 Delaware	D	9:40 AM	.4	0			S
9	6224	10701-02 224 N. St.	D	9:15 AM	.8	0			S
10	6225	10801-02 307 E. 1st St.	D	9:30 AM	.4	0			S
11	6226	10201-2 HIGH SCHOOL	D	9:45 AM	.4	0			S
12	6227	10101-2 W. 1st St. Super.	D	10:40 AM	.5	0			S

PERSON NOTIFIED OF RESULTS _____ DATE AND TIME ANALYZED **4-17-91 1:00 - 11:20** ANALYST INITIALS **JM** METHOD **ACIDIMETRIC FILTER COLLECT** CONTROL **0**
 DATE _____ TIME _____ hrs BY **John J. Weaver** CLINICAL ANALYST'S SIGNATURE

 *REASON FOR REPLACEMENT
 SAMPLES MORE THAN 30 HOURS OLD
 NO DATE/TIME OF COLLECTION
 OTHER _____

NET
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 NET Midwest, Inc.
 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
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 Fax: (708) 289-5445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to *Sycamore*

Shaded Areas for Lab Use Only - Print With Black Pen

 NAME *SID ALBRECHT*

DATE COLLECTED

3-19-91

DATE & TIME RECEIVED

3/20/91 10:45 AM

 ADDRESS *535 PERKINS AVE.*

 COLLECTED BY *E. SMITH*

 FACILITY NO. *0370550*

 CITY *SYCAMORE* STATE *IL.*

 ZIP CODE *60178*

SAMPLE PURPOSE

☒ ROUTINE

☐ REPLACEMENT

☐ NEW CONSTRUCTION

☐ Other

☐ PRIVATE WELL

☐ REPEAT

☐ INVALID SAMPLE

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

 NAME *SID ALBRECHT*

 PHONE *815-875-2575*

Orig Smp Lab No

Orig Smp Lab No

Orig Smp Lab No

Orig Smp Lab No

BOTTLE ID	NET SAMPLE NUMBER	SITE NO /SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE mg/l	COLONIES READ/SPOT	TOTAL COLIFORMS	FECAL COLIFORMS	SPHER
1	4758	99904-00 WELL #7	R	7:15 AM		0			S
2	4759	99905-00 WELL #8	R	7:20 AM		0			S
3	4760	10001-02 2615 LUL	D	7:45 AM	1.5	0			S
4	4761	10501-02 SUPER	D	9:00 AM	1.2	0			S
5	4762	10601-02 433E FILL	D	9:15 AM	.6	0			S
6	4763	10701-02 HOSPITAL	D	9:30 AM	.8	0			S
7	4764	10902-03 185E HALL	D	9:45 AM	1.0	0			S
8	4765	10401-02 535 DRAG	D	9:10 AM	.4	0			S
9	4766	10701-02 224 W. SYL.	D	9:15 AM	.7	0			S
10	4767	10801-02 307E WTS	D	9:30 AM	.3	0			S
11	4768	10201-02 HIGH SCHOOL	D	9:45 AM	.4	0			S
12	4769	10101-02 WEST SCHOOL	D	10:00 AM	.5	0			S

PERSON NOTIFIED OF RESULTS

1

DATE AND TIME ANALYZED

3-20-91
12:05 PM

ANALYST

SMITH

METHOD

 MEMBRANE
FILTER
COUNT

CONTROL

0

DATE TIME BY

Jim Weeman

CERTIFIED ANALYST'S SIGNATURE

 REASON FOR REPLACEMENT
☐ SAMPLES MORE THAN 30 HOURS OLD
☐ NO DATE/TIME OF COLLECTION
☐ OTHER

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 1400 Mulholland Inc.
Barrett Division
850 West Barrett Road
Barrett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-5445

BACTERIOLOGICAL ANALYSIS

 Mail Reports to: **SYCAMORE**

Shaded Areas for Lab Use Only - Print With Black Pen

 NAME: **SYD ALBRECHT**

 ADDRESS: **525 DEKALB AVE**

 CITY: **SYCAMORE**

 STATE: **IL**

ATTN:

 DATE COLLECTED: **2-13-91**

 COLLECTED BY: **E. Smith**

SAMPLE PURPOSE:

ROUTINE

REPLACEMENT:

NEW CONSTRUCTION

PRIVATE WELL

REPEAT

Original Lab No.

Original Lab No.

 DATE OF ANALYSIS: **2-13-91 0930**

 ANALYST: **2370556**

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

 NAME: **SYD ALBRECHT**

 PHONE: **815-855-2548**

BOTTLE #	NET SAMPLE NUMBER	SITE NO / SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	REMARKS (24 HR) NO.	COLONIES READ/100ml	TOTAL COLONIES	FECA COLONIES	SPHER
1	3029	99904-00	R	7:50a		0	N	N	S
2	3030	99903-00	R	7:30a		0	N	N	S
3	3031	10001-02	D	7:45a	9	0	N	N	S
4	3032	10501-02	D	8:00a	10	0	N	N	S
5	3033	10601-02	D	8:15a	6	0	N	N	S
6	3034	10301-02	D	8:30a	6	0	N	N	S
7	3035	10902-03	D	8:50a	11	0	N	N	S
8	3036	10401-02	D	9:00a	9	0	N	N	S
9	3037	10701-02	D	9:15a	8	0	N	N	S
10	3038	10801-02	D	9:30a	7	0	N	N	S
11	3039	10201-02	D	9:45a	5	0	N	N	S
12	3040	10101-02	D	10:00a	6	0	N	N	S

PERSON NOTIFIED OF RESULTS			DATE AND TIME ANALYZED 2-13-91 1100-1125		ANALYST INITIALS SM	METHOD X-BROMINE FILTER COLONY	CONTROL 0
DATE	TIME	BY	SIGNATURE: John H. Weaver CERTIFIED ANALYST'S SIGNATURE				

NET

NATIONAL
ENVIRONMENTAL
TESTING, INC.

NE T Midwest Inc.
Barnett Division
550 West Barnhart Road
Barnett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

Sycamore

Shaded Areas for Lab Use Only - Print With Black Pen

NAME

SYD ALBRECHT

DATE OF TEST

1-16-91

DATE SAMPLED

1-17-91

ADDRESS

535 DELAND AVE

COLLECTED BY

P. SMITH

CITY

SYCAMORE

STATE

IL

ZIP CODE

60774

SAMPLE PURPOSE

ROUTINE

NEW CONSTRUCTION

ATTN

RESAMPLE

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME SYD ALBRECHT PHONE 815-895-2544

PUBLIC WATER SUPPLY

FACILITY NO. 237655

PRIVATE WELL

BOTTLE NO.	ANALYSIS NUMBER	SAMPLING POINT	WELL TYPE	TIME COLLECTED (24 HR. CLOCK)	RESIDUAL CHLORINE (mg/l)	TOTAL COLIFORM PER 100 ML (24 HR. CL)	CFU PER 100 ML (24 HR. CL)	CFU PER 100 ML (24 HR. CL)	REMARKS
1	1681	WELL # 4	R	7:15 AM		0	0	S	
2	1682	WELL # 6	R	7:30 AM		0	0	S	
3	1683	2415 LINCOLN LN.	D	7:45 AM	1.5	0	0	S	
4	1684	SUTHER CO	D	8:00 AM	1.4	0	0	S	
5	1685	433 E. EXUMINGA	D	8:15 AM	.9	0	0	S	
6	1686	HOSPITAL	D	8:30 AM	.9	0	0	S	
7	1687	1851 MANASSA ST.	D	8:45 AM	1.4	0	0	S	
8	1688	535 DELAND AVE	D	9:00 AM	.5	0	0	S	
9	1689	224 W SYCAMORE	D	9:15 AM	.7	0	0	S	
10	1690	307 E. OTTAWA	D	9:30 AM	.4	0	0	S	
11	1691	SR. HIGH SCHOOL	D	9:45 AM	.5	0	0	S	
12	1692	WEST SCHOOL	D	10:00 AM	.7	0	0	S	

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

1-17-91

1100-1120

CONTROL

0

DATE

TIME

BY

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested-Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum

contaminant level specified by PL 93-532, and may be harmful to infants.

See Reverse For
Further Information

NET

NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Midwest Inc.
Bartlett, Illinois
210 West Bartlett Road
Bartlett, IL 60133
Tel: (708) 299-3100
Fax: (708) 299-4180

IDPH Reg No 17533

Mail Reports to

SYCAMORE

Shaded Areas for Lab Use Only Print With Black Pen

NAME SIO ALBRECHT

DATE COLLECTED

12-22-90

DATE & TIME ANALYZED

12-22-90 12:00 PM

ADDRESS 535 DELAWARE AVE

COLLECTED BY

E. SMITH

CITY SYCAMORE

STATE IL

DP CODE

00178

SAMPLE PURPOSE

ROUTINE

NEW CONSTRUCTION

ATTN

☐ RESAMPLE☐ OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

☒ PUBLIC WATER SUPPLY☐ PRIVATE WELL

NAME SIO ALBRECHT

PHONE

85-495-2548

FACILITY NO. 0370550

BOTTLE NO.	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (DAY MONTH YEAR)	RESIDUAL CHLORINE (MG/L)	TOTAL COLIFORMS (PER 100 ML) (CFU/ML)	ATYPICAL COLIFORMS (PER 100 ML) (CFU/ML)	OPINION
1	98736	WELL # 4	R	7:50 AM		0	0	S
2	98737	WELL # 6	R	7:50 AM		0	0	S
3	98738	2615 LINDEN LN.	D	7:50 AM	1.5	0	0	S
4	98739	SUTER LN	D	8 AM	6	0	0	S
5	98740	1851 MARSH ST	D	9:15 AM	1.5	0	0	S
6	98741	535 DELAWARE AVE	D	8:30 AM	4	0	0	S

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

12-18-90

0930-0940

CONTROL

0

DATE

TIME

BY

Joan Weaver
CERTIFIED ANALYST SIGNATURE

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

N-nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum

contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

See Reverse For
Further Information

IDPH Reg. No. 17533

Mail Reports to:

Shaded Areas for Lab Use Only — Print With Black Pen

0000-0001-9000-0000

TABLE 1. *Continued*

TABLE 1. Mean (SD) Age and Height of Children in Each Group

ACKNOWLEDGMENTS

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

672

612

2000

5. *Staphylococcus aureus*

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ATTEMPT

2. **PROPOSED**

NEW BOOKS FROM THE
SERIES

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY

PRIVATE WELL

04-6-07

Freezing

FACILITY NO. 0328550

BOTTLE NO.	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME (DAY, MONTH, YEAR)	RESIDUAL CHLORINE (mg/l)	TOTAL COLIFORMS (per 100 ml)	ATYPICAL COLIFORMS (per 100 ml)	OPINION
1	98787	# 224 W. SYCAMORE	D	9 AM	1.0	0	0	S
2	98788	307 E. CYPRESS	D	8:30 AM	.4	0	0	S
3	98789	SE. HIGH SCHOOL	D	3:00 PM	.4	0	0	S
4	98790	WEST SCHOOL	D	8:45 AM	.6	0	0	S
5	98791	437 E. EXCHANGE	D	8:15 AM	.7	0	0	S
6	98792	HOSPITAL	D	9:15 AM	.5	0	0	S

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED _____

CONTRA

DATE _____

TIME

519

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
Q-unquestionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
U-doubtful-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-52 and may be harmful to infants.

Q101 WHO ANALYST'S SIGNATURE _____

See Reverse For
Further Information



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

NET Midwest Inc.
Barlett Division
850 West Barlett Road
Barlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Report to:

SYCAMORE

Shaded Areas for Lab Use Only. Print With Black Pen

NAME

310 ALBRECHT

DATE COLLECTED

11/15/90

DATE ANALYZED

11/16/90

ADDRESS

535 DEKALB AVE

COLLECTED BY

E. J. H.

CITY

SKAMORE

STATE

IL

ZIP CODE

60128

SAMPLE PURPOSE

ROUTINE

NEW CONSTRUCTION

PERMIT NO.

ATTN

310 ALBRECHT

RESAMPLE

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY

PRIVATE WELL

NAME 310 ALBRECHT

PHONE 815 555 2245

FACILITY NO. 0320334

BOTTLE NO.	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL CHLORINE (mg/l)	TOTAL CHLORINE (mg/l)	CHLORINE (mg/l)	SPRINK
1	96516	WELL # 8	R	7:55 AM		0	0	S
2	96517	WELL # 6	R	7:30 AM		0	0	S
3	96518	2615 LILAC LN	D	7:45 AM	14	0	0	S
4	96519	SITE C	D	8 AM	9	0	0	S
5	96520	433 E EXCHANGE	D	8:15 AM	5	0	0	S
6	96521	HOSPITAL	D	8:15 AM	4	0	0	S
7	96522	1851 MANASS CT	D	8:45 AM	11	0	0	S
8	96523	535 DEKALB AVE	D	9 AM	3	0	0	S
9	96524	224 W SYCAMORE	D	9:15 AM	9	0	0	S
10	96525	307 E. OTTAWA	D	9:30 AM	5	0	0	S
11	96526	SR. HIGH SCHOOL	D	9:45 AM	3	0	0	S
12	96527	WEST SCHOOL	D	10 AM	4	0	0	S

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

11-14-90

1205-1225

Jim C.

DATE

TIME

hrs.

BY

Jim C.
CERTIFIED ANALYST'S SIGNATURE

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
N-nitrate-if requested, Reported in mg/L. A nitrate concentration greater than 10 mg/L (or N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.
*Results reported are provided by client.

See Reverse For
Further Information



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

SILVERDALE

Shaded Areas for Lab Use Only Print With Black Pen

NAME

SIO A-000000

ADDRESS

535 PARKS

CITY

SILVERDALE

STN

SIO A-000000

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME

SIO A-000000

PHONE 816-846-2548

DATE COLLECTED

10/12/90

DATE & TIME RECEIVED

On 10/15/90 10:00

COLLECTED BY

F. S. RILEY

SAMPLE PURPOSE

ROUTINE

RESAMPLE

NEW CONSTRUCTION

OTHER

PERMIT NO

PUBLIC WATER SUPPLY

FACILITY NO 6326550

PRIVATE WELL

BOTTLE NO	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TIME	TIME COLLECTED IN HR. CLOCK	RESIDUAL CHLORINE mg/L	TOTAL COLIFORM FC/100 ML	EPIDIO. COLIFORM FC/100 ML	OTHER
1	94646	WELL #7	R	7:50 AM		0	0	S
2	94647	WELL #6	R	7:50 AM		0	0	S
3	94648	2615 LRAAC LN.	D	7:50 AM	1.2	0	0	S
4	94649	SURFACE CO.	D	8:00 AM	1.4	0	0	S
5	94650	433 E. F. EXCHANGE	D	8:15 AM	.7	0	0	S
6	94651	HOSPITAL	D	8:30 AM	.2	0	0	S
7	94652	1851 MEREDY CT.	D	8:45 AM	1.4	0	0	S
8	94653	535 PARKS AVE	D	9 AM	.4	0	0	S
9	94654	224 W. SPECTORS	D	9:15 AM	.8	0	0	S
10	94655	307 E. CROWN	D	9:30 AM	.4	0	0	S
11	94656	SR HIGH SCHOOL	D	9:45 AM	.3	0	0	S
12	94657	WEST SCHOOL	D	10 AM	.4	0	0	S

PERSON NOTIFIED OF RESULTS			DATE AND TIME ANALYZED		CONTROL
			10-18-90 1100-1/20		
DATE	TIME	BY	 CERTIFIED ANALYST'S SIGNATURE		

Opinion

S-satisfactory, safe for drinking. No coliforms detected
 O-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking
 U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking
 Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants
 *Results reported are provided by client

See Reverse For
Further Information



NATIONAL
ENVIRONMENTAL
TESTING, INC.

IDPH Reg No 47533

MA Reports to

Name

Address

City

State

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

Name

Phone

PUBLIC WATER SUPPLY
FACILITY NO

PRIVATE WELL

WELL	WELL NO	SAMPLING POINT	DATE	TIME	TEST	RESULT	TEST	RESULT
1	92690	WELL #8	R 2000		C	C	S	
2	92691	WELL #1	R 2000		C	C	S	
3	92692	2615 L. L. L. L.	D 1700		C	C	S	
4	92693	Street Co.	D 1700		C	C	S	
5	92694	433 E. Exchange	P 800		C	C	S	
6	92695	Hospital	D 800		C	C	S	
7	92696	185 E. Exchange	D 800		C	C	S	
8	92697	535 D. L. L. L.	P 900		C	C	S	
9	92698	220 W. Exchange	P 900		C	C	S	
10	92699	307 E. Exchange	P 900		C	C	S	
11	92700	100 High Street	P 900		C	C	S	
12	92701	WFSR School	P 900		C	C	S	

PERSON NOTIFIED OF RESULTS	DATE AND TIME ANALYZED	CONTROL
	9-19-90 10:00 AM	
DATE	TIME	BY

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
O-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client

See Reverse For
Further Information

NETNATIONAL
ENVIRONMENTAL
TESTING, INC.10150 - 13th Avenue, S.W.
Burien, Oregon 97001
Phone: (503) 461-1023
Telex: 270898 270898
Fax: (503) 461-1023

IDPH Reg No 17533

Mail Reports to

City of Sycamore
 NAME SYD ALBRECHT
 ADDRESS 535 DELUXE AVE
 CITY SYCAMORE STATE IL ZIP CODE 60155
 ATTN

Shaded Areas: 1 2 3 4 5 6 7 8 9 10 11 12
 DATE COLLECTED 8-15-90 TIME 2:00 PM
 COLLECTED BY F. S. S. S.
 SAMPLE PLANNING
☒ ROUTINE ☐ NEW CONSTRUCTION
☐ RESAMPLE ☐ OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME SYD ALBRECHT PHONE 815-885-2548PUBLIC WATER SUPPLY
FACILITY NO. 037050

PRIVATE WELL

WELL NO.	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	WSEAL DURATION (HR)	COLIFORMS PER 100 ML (P.M.F.)	COLIFORMS PER 100 ML (P.M.F.)	OTHER
1	90290	WELL # 6	R	7:15 AM		0	0	S
2	90291	WELL # 8	R	7:30 AM		0	0	S
3	90292	2615 LILAC LN	D	7:45 AM	1.5	0	0	S
4	90293	SUREN CO.	D	8 AM	.7	0	0	S
5	90294	433 E. FERNANDA	D	8:15 AM	.9	0	0	S
6	90295	HOSPITAL	D	8:30 AM	.6	0	0	S
7	90296	1951 MANASSA CT.	D	8:45 AM	1.5	0	0	S
8	90297	535 DELUXE AVE.	D	9 AM	.4	0	0	S
9	90298	224 W. SYCAMORE	D	9:15 AM	.9	0	0	S
10	90299	307 E. OTTAWA	D	9:30 AM	.9	0	0	S
11	90300	SR HIGH SCHOOL	D	9:45 AM	.2	0	0	S
12	90301	WEST SCHOOL	D	10 AM	.4	0	0	S

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

8-15-90

SC-1150

0

DATE TIME BY

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum

contaminant level specified by P.L. 93-532, and may be harmful to infants.

*See instructions on back of report.

See Reverse For
Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Midwest, Inc.
 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-4190

IDPH Reg No 17533

Mail Reports to SKAMORA

Shaded Areas for Lab Use Only. Print With Black Pen

NAME SID ALBRECHTDATE COLLECTED 7/19/90 CALL # 115-9012585ADDRESS 535 DELAID AVE.COLLECTED BY X J. R. N.CITY SKAMORA STATE IL.ZIP CODE 60178

SAMPLE PURPOSE

PRIVATE WELL

ATTN

☒ ROUTINE☐ NEW CONSTRUCTION☐ RESAMPLE☐ OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY

PRIVATE WELL

NAME SID ALBRECHT PHONE 915-995-2554FACILITY NO 237552

BOTTLE NO	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (DAY-HOUR)	RESIDUAL CHLORINE (PPM)	ECOL COL FORM PER 100 ML (BY MP)	ATYPICAL COLONIES PER 100 ML (BY MP)	SPRINK
1	88273	WELL # 1	R	7:45 AM		0	0	S
2	88274	WELL # 7	R	7:45 AM		0	0	S
3	88275	2615 LINCOLN LA.	D	7:45	1.5	0	0	S
4	88276	SUPER CO.	D	8:45 AM	1.1	0	0	S
5	88277	433 E. FICHMONGER	D	8:45 AM	.7	0	0	Q
6	88278	HOSPITAL	D	8:45 AM	1.6	0	0	S
7	88279	1851 MORRIS CT	D	8:45 AM	1.4	0	0	S
8	88280	535 DELAID AVE	D	9:45 AM	.7	0	0	S
9	88281	224 W. SYCAMORE	D	9:45 AM	.7	0	0	S
10	88282	307 E. OTTAWA	D	9:45 AM	.3	0	0	S
11	88283	SR HIGH SCHOOL	D	9:45 AM	.3	0	0	S
12	88284	WEST SCHOOL	D	10:45 AM	.5	0	0	S

PERSON NOTIFIED OF RESULTS <u>Hand Delivered</u>		DATE AND TIME ANALYZED <u>7-19-90</u> <u>11:40-12:00</u>		CONTROL <u>0</u>
DATE <u>7-19-90</u>	TIME <u>1:05 PM</u>	BY <u>J. R. N.</u>	CERTIFIED ANALYST'S SIGNATURE <u>Jan R. N.</u>	

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
 Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
 U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
 Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client

See Reverse For
Further Information

NET**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

1611 Midwest Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

Sycamore

Shaded Areas for Lab Use Only - Print With Black Pen

NAME **SIO ALDRICH**

DATE COLLECTED

6-19-90

DATE TIME ANALYZED

6/19/90ADDRESS **535 DAKOTA AVE**

COLLECTED BY

E. SMITHCITY **SYCAMORE**

STATE

IL

ZIP CODE

60178

SAMPLE PURPOSE

ROUTINE

PERMIT NO.

ATTN

☒ RESAMPLE☐ NEW CONSTRUCTION☐ OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME **SIO ALDRICH** PHONE **815-895-2544**☒ PUBLIC WATER SUPPLYFACILITY NO **832550**☐ PRIVATE WELL

BOTTLE NO	ANALYSIS NUMBER	SAMPLING POINT	SAMPLE TYPE	TIME COLLECTED (24 HR CLOCK)	RESIDUAL COLIFORMS (CFU)	TOTAL COLIFORM PER 100 ML (BY MP)	TYPICAL COLONIES PER 100 ML (BY MP)	OPTION
1	86380	WELL # 8	R	7:55AM		0	0	S
2	86381	WELL # 6	R	7:30AM		0	0	S
3	86382	2615 LILAC LN.	D	7:45AM	17	0	0	S
4	86383	SUTER CO.	D	8:00AM	7	0	0	S
5	86384	433 E. EXCHANGE	D	8:15AM	3	0	0	S
6	86385	HOSPITAL	D	8:30AM	5	0	0	S
7	86386	1851 MANASS CT.	D	8:45AM	17	0	0	S
8	86387	535 DAKOTA AVE	D	9:00AM	6	0	0	S
9	86388	224 W. SYCAMORE	D	9:15AM	5	0	0	S
10	86389	307 E. OTTAWA	D	9:30AM	4	0	0	S
11	86390	SR HIGH SCHOOL	D	9:45AM	4	0	0	S
12	86391	WEST SCHOOL	D	10:00AM	5	0	0	S

PERSON NOTIFIED OF RESULTS		DATE AND TIME ANALYZED		CONTROL
		6-20-90 11:15-11:40		0
DATE	TIME	BY	 CERTIFIED ANALYST'S SIGNATURE	

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

See Reverse For
Further Information

NATIONAL
ENVIRONMENTAL
TESTING, INC.

[illegible]

Mail Reports to

Shaded Areas: Not at Use Only - Priority in Hazard Rep.

NOT COLLECTED

172. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 8

Page 10 of 10

ROUTINE NEW CONSTRUCTION

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY PRIVATE WELL

NAME Mr. A. J. Brown PHONE 8-54-3001

FACILITY NO. 2-2-2-2

| WATER NO. | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | NO. OF TESTS | NO. OF ANALYSES | TEST CATEGORY | TEST RESULTS | TEST DATE | TESTER |
|-----------|-----------------|----------------|-------------|--------------|-----------------|---------------|--------------|-----------|--------|
| 1 | 86156 | 517 S. Locust | D. | 7 | 4 | 0 | 0 | | S |

De Lot. SAGE
Results to
E. P. A.

Sp. alt.

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYSIS

CONTROL

624-50 1199-1110 (over) 0

| TIME | DATE | TIME | DATE |
|------|------|------|------|
| 135 | | | |

Opinion
S-satisfactory, safe for drinking. No coliforms detected

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative May not be safe for drinking

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-If requested. Reported in mg/l. A nitrate concentration greater than 10 mg/l (as N) exceeds the maximum

Nitrate—if requested. Reported in mg/L. A nitrate concentration greater than the contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client

John Weaver

See Reverse For
Further Information

NETNATIONAL
ENVIRONMENTAL
TESTING, INC.NET Midwest, Inc.
Barrett Division
850 West Barrett Road
Barrett, IL 60113
Tel: (815) 289-3100
Fax: (815) 289-4180

IDPH Reg No 17533

Mail Reports to SILVERDALE

Shaded Areas for Lab Use Only. Print With Black Pen

NAME SID ALBERT
ADDRESS 535 DELAID AVE
CITY SILVERDALE STATE ILL
ATTN ELLDATE OF TEST 05/16/90TESTED BY E. WeaverSAMPLE PURPOSE ROUTINE

RESAMPLE

NEW CONSTRUCTION

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY
FACILITY NO 027055

PRIVATE WELL

NAME SID ALBERT PHONE 815-895-2514

| WELL NO | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (HOUR:MIN) | RESIDUAL CHLORINE (MG/L) | TOTAL COLIFORMS (MPN/100 ML) | FECAL COLIFORMS (MPN/100 ML) | OTHER |
|---------|-----------------|-------------------|-------------|---------------------------|--------------------------|------------------------------|------------------------------|-------|
| 1 | 84496 | WELL #6 | R | 7:00 AM | | 0 | 0 | S |
| 2 | 84497 | WELL #7 | R | 7:00 AM | | 0 | 0 | S |
| 3 | 84498 | 2587 LILAC LN | D | 7:00 AM | 1.0 | 0 | 0 | S |
| 4 | 84499 | SUTER GO. | D | 8:00 AM | 1.0 | 0 | 0 | S |
| 5 | 84500 | 433 E. EICHENBERG | D | 8:00 AM | 1.0 | 0 | 0 | S |
| 6 | 84501 | HOSPITAL | D | 8:00 AM | 1.0 | 0 | 0 | S |
| 7 | 84502 | 1851 MARSH LN | D | 9:00 AM | .7 | 0 | 0 | S |
| 8 | 84503 | 535 DELAID AVE | D | 9:00 AM | .5 | 0 | 0 | S |
| 9 | 84504 | 224 W. SILVERDALE | D | 9:00 AM | .4 | 0 | 0 | S |
| 10 | 84505 | 307 E. OTTAWA | | 9:00 AM | .5 | 0 | 0 | S |
| 11 | 84506 | SR. HIGH SCHOOL | | 9:00 AM | .7 | 0 | 0 | S |
| 12 | 84507 | VRST SCHOOL | | 10:00 AM | .7 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

5-16-90

1210-1230

Jew 0

DATE TIME hrs BY

Jew Weaver
CERTIFIED ANALYST'S SIGNATURE

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

See Reverse For
Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 1417 Midland, Inc.
 Barlett Division
 810 West Barlett Road
 Barlett, IL 60013
 Tel: (708) 299-7100
 Fax: (708) 299-4180

IDPH Reg No 17533

Mail Reports to

Shaded Areas for Lab Use Only Print With Black Pen

 NAME Sycamore
 ADDRESS 510 ALBRECHT
 CITY SYCAMORE STATE IL
 APTN 2 ZIP CODE 60178

 DATE COLLECTED 7-12-90 DATE ANALYZED 7/19/90
 COLLECTOR E. S. Smith
 SAMPLE PURPOSE ROUTINE NEW CONSTRUCTION ☐
 RESAMPLE ☐ OTHER ☐

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY FACILITY NO. 037055

PRIVATE WELL

NAME 510 ALBRECHT PHONE 815-254-2548

| BOTTLE NO. | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (24 HR CLOCK) | RESIDUAL CHLORINE (mg/L) | TOTAL COLIFORMS (per 100 mL) | FECAL COLIFORMS (per 100 mL) | OTHER |
|------------|-----------------|-----------------|-------------|------------------------------|--------------------------|------------------------------|------------------------------|-------|
| 1 | 82579 | WELL # 8 | R | 7:54 AM | | 0 | 0 | S |
| 2 | 82580 | WELL # 6 | R | 7:55 AM | | 0 | 0 | S |
| 3 | 82581 | 2587 LILAC LN. | D | 7:58 AM | 17 | 0 | 0 | S |
| 4 | 82582 | SUPER CO. | D | 8 AM | 15 | 0 | 0 | S |
| 5 | 82583 | 433 E. EXCHANGE | D | 8:02 AM | 8 | 0 | 0 | S |
| 6 | 82584 | HOSPITAL | D | 8:20 AM | 10 | 0 | 0 | S |
| 7 | 82585 | 411 GROZJEAN CT | D | 8:45 AM | 14 | 0 | 0 | S |
| 8 | 82586 | 535 DEKALB AVE | D | 9:00 AM | 6 | 0 | 0 | S |
| 9 | 82587 | 224 W. SKANSORE | D | 9:15 AM | 7 | 0 | 0 | S |
| 10 | 82588 | 307 E. OTTAWA | D | 9:20 AM | 4 | 0 | 0 | S |
| 11 | 82589 | WEST SCHOOL | D | 9:45 AM | 6 | 0 | 0 | S |
| 12 | 82590 | SR HIGH SCHOOL | D | 10 AM | 5 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

7-18-90 1200 - 1220
THU
0

DATE TIME hrs BY

Option

S-satisfactory, safe for drinking. No coliforms detected.
 Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
 U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
 Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532; and may be harmful to infants.

*Results reported are provided by client.

 See Reverse For
 Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Midwest, Inc.
 Barlett Division
 650 West Barlett Road
 Barlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-4160

IDPH Reg No 17533

Mail Reports to

SKAMOLE

Shaded Areas for Lab Use Only - Print With Black Pen

NAME

SYD ALBRECHT

DATE COLLECTED

3-20-90

DATE TIME ANALYZED

3/21/90 1000 BLV

ADDRESS

535 DERAUD AVE

COLLECTED BY

E. SMITH

CITY

SKAMOLE

STATE

IL

ZIP CODE

60178

SAMPLE PURPOSE

ROUTINE

NEW CONSTRUCTION

PERMIT NO.

RESAMPLE

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

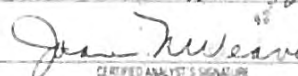
NAME SYD ALBRECHT PHONE 815-595-2544

PUBLIC WATER SUPPLY

FACILITY NO 8370550

PRIVATE WELL

| BOTTLE NO | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (ON HR CLOCK) | RESIDUAL CHLORINE (PPM) | TOTAL COLIFORM PER 100 ML (CFU) | ATYPICAL COLIFORMS PER 100 ML (CFU) | OTHER |
|-----------|-----------------|---------------------|-------------|------------------------------|-------------------------|---------------------------------|-------------------------------------|-------|
| 1 | 80825 | WELL # 8 | R | 7:50 AM | | 0 | 0 | S |
| 2 | 80826 | WELL # 6 | R | 2:30 PM | | 0 | 0 | S |
| 3 | 80827 | 2587 LILAC LN. | D | 7:45 AM | 17 | 0 | 0 | S |
| 4 | 80828 | SUTER CO. | D | 8 AM | 14 | 0 | 0 | S |
| 5 | 80829 | 433 E. SKAMOLE | D | 9:15 AM | 1.1 | 0 | 0 | S |
| 6 | 80830 | HOSPITAL | D | 8:30 AM | .7 | 0 | 0 | S |
| 7 | 80831 | 411 GORDON CT. | D | 8:45 AM | 1.2 | 0 | 0 | S |
| 8 | 80832 | 535 DERAUD AVE | D | 9 AM | 6 | 0 | 0 | S |
| 9 | 80833 | 224 W. SKAMOLE | D | 9:15 AM | .9 | 0 | 0 | S |
| 10 | 80834 | 307 E. OTTAWA | D | 9:30 AM | .5 | 0 | 0 | S |
| 11 | 80835 | 147 WEST SCHOOL ST. | D | 9:45 AM | 1.1 | 0 | 0 | S |
| 12 | 80836 | 147 MASON CT. | D | 10 AM | 1.2 | 0 | 0 | S |

| | | | | | | |
|----------------------------|------|--------|--|--|---------|--|
| PERSON NOTIFIED OF RESULTS | | | DATE AND TIME ANALYZED | | CONTROL | |
| | | | 3-21-90 1045-1105 | | JTW 0 | |
| DATE | TIME | hrs BY | 
CERTIFIED ANALYST'S SIGNATURE | | | |

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum

contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

 See Reverse For
 Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Midwest Inc.
 Eastern Division
 814 West Bluff Road
 Bannock IL 60103
 Tel: 708/289-3100
 Fax: 708/289-4180

IDPH Reg No 17533

Mail Reports to *SYCAMORE*NAME *540 ALEXANDER*ADDRESS *535 DELAID AVE*CITY *SYCAMORE* STATE *IL*ATTN *EL*

Shaded Areas for Use Only - Print with Black Pen

 DATE TIME ANALYZED *2-14-90 11:30*
 ANALYST'S SIGNATURE *[Signature]*
 TYPE OF SERVICE *ROUTINE*
 RESAMPLE ☐ NEW CONSTRUCTION ☐ OTHER ☐

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME *540 ALEXANDER* PHONE *815 885-2548*PUBLIC WATER SUPPLY FACILITY NO. *03-2350*

PRIVATE WELL

| BOTTLE NO. | ANALYST NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME ELAPSED OVER 2000 | RESIDUAL CHLORINE (mg/L) | TOTAL CHLORINE (mg/L) | CALFA CLAMPS (mg/L) | SPRINK |
|------------|----------------|------------------|-------------|------------------------|--------------------------|-----------------------|---------------------|--------|
| 1 | 78936 | WELL # 8 | R | 7:52AM | | 0 | 0 | S |
| 2 | 78937 | WELL # 6 | R | 7:52AM | | 0 | 0 | S |
| 3 | 78938 | 2587 LILAC LN. | D | 7:52AM | 1.5 | 0 | 0 | S |
| 4 | 78939 | SUTER CO. | D | 8:14AM | 1.0 | 0 | 0 | S |
| 5 | 78940 | 433 E. EXCHANGE | D | 8:15AM | .8 | 0 | 0 | S |
| 6 | 78941 | HOSPITAL | D | 8:30AM | .4 | 0 | 0 | S |
| 7 | 78942 | 411 GEORGEAN CT. | D | 8:52AM | .7 | 0 | 0 | S |
| 8 | 78943 | 535 DELAID AVE. | D | 9:41AM | .5 | 0 | 0 | S |
| 9 | 78944 | 224 W. SYCAMORE | D | 9:52AM | 1.0 | 0 | 0 | S |
| 10 | 78945 | 307 E. OTTAWA | D | 9:52AM | .4 | 0 | 0 | S |
| 11 | 78946 | WEST SCHOOL | D | 9:52AM | 1.1 | 0 | 0 | S |
| 12 | 78947 | S.R. HIGH SCHOOL | D | 10:41AM | .5 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

DATE

TIME

BY

2-14-90

11:30-11:50

JAN

0

 [Signature]
 CERTIFIED ANALYST'S SIGNATURE
Opinion

S-satisfactory, safe for drinking. No coliforms detected

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by PL 93-532, and may be harmful to infants.

*Results reported are provided by client

 See Reverse For
 Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NEI Midwest, Inc.
 Bartlett Division
 850 West Bartlett Road
 Bartlett, IL 60103
 Tel: (708) 289-3100
 Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

SYCAMORE

Shaded Areas for Lab Use Only. Print With Black Pen

 NAME SYD ALBRECHT
 ADDRESS 535 DEKALB AVE
 CITY SYCAMORE STATE IL
 ATTN S ZIP CODE 60888

 DATE COLLECTED 1/16/90 TIME RECEIVED 11:00 AM
 COLLECTED BY E. SMITH
 SAMPLE PURPOSE ROUTINE NEW CONSTRUCTION
RESAMPLE OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME SYD ALBRECHT PHONE 815-885-2548PUBLIC WATER SUPPLY
FACILITY NO 0370550

PRIVATE WELL

| BOTTLE NO | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (24 HRS) | RESIDUAL COLIFORMS (MPN) | TOTAL COLIFORMS (PER 100 ML) | STREPTOCOCCUS (PER 100 ML) | OTHER |
|-----------|-----------------|---------------------|-------------|-------------------------|--------------------------|------------------------------|----------------------------|-------|
| 1 | 77426 | WELL #8 | R | 7:00 AM | | 0 | 0 | S |
| 2 | 77427 | WELL #6 | R | 7:00 AM | | 0 | 0 | S |
| 3 | 77428 | 2587 LILAC LN | D | 7:45 AM | 1.7 | 0 | 0 | S |
| 4 | 77429 | SUTER. CO. | D | 8:00 AM | 1.0 | 0 | 0 | S |
| 5 | 77430 | 433 E. EXCHANGE | D | 8:15 AM | .7 | 0 | 0 | S |
| 6 | 77431 | HOSPITAL | D | 8:30 AM | .8 | 0 | 0 | S |
| 7 | 77432 | 411 GEORGE JEFF CT. | D | 8:45 AM | 1.1 | 0 | 0 | S |
| 8 | 77433 | 535 DEKALB AVE | D | 9:00 AM | .6 | 0 | 0 | S |
| 9 | 77434 | 224 W. SYCAMORE | D | 9:15 AM | .9 | 0 | 0 | S |
| 10 | 77435 | 307 E. OTTAWA | D | 9:30 AM | .3 | 0 | 0 | S |
| 11 | 77436 | WEST SCHOOL | D | 9:45 AM | .4 | 0 | 0 | S |
| 12 | 77437 | SR. HIGH SCHOOL | D | 10:00 AM | .7 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

1-17-90

1200 - 12:20

JAN

0

DATE

TIME

BY

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
 Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
 U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
 Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client

CERTIFIED ANALYST SIGNATURE

 See Reverse For
 Further Information

NETNATIONAL
ENVIRONMENTAL
TESTING, INC.NET Midwest Inc.
Batter Division
300 West Bannock Street
Baltimore, IL 60610
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

NAME

ADDRESS

CITY

ATTN

SILAMORE

S/D ALBRECHT

535 DELAUB

Ave.

SILAMORE

ILL.

Shaded Areas for Lab Use Only Print With Black Pen

DATE COLLECTED

COLLECTED BY

SAMPLING PURPOSE

ROUTINE

PUBLIC WATER SUPPLY

FACILITY NO 0370550

NEW CONSTRUCTION

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME

PHONE

PRIVATE WELL

| BOTTLE NO | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (or H. COLLECTED) | RESIDUAL CHLORINE (mg/L) | COLIFORMS PER 100 ML (CFU) | STREPTOCOCCI PER 100 ML (CFU) | OTHER |
|-----------|-----------------|------------------|-------------|----------------------------------|--------------------------|----------------------------|-------------------------------|-------|
| 1 | 75982 | WELL # 8 | R | 7:00 AM | | 0 | 0 | S |
| 2 | 75983 | WELL # 6 | R | 7:30 AM | | 0 | 0 | S |
| 3 | 75984 | 2587 LILAC LN. | D | 7:45 AM | 1.5 | 0 | 0 | S |
| 4 | 75985 | SUTER CO. | D | 8:00 AM | 1.3 | 0 | 0 | S |
| 5 | 75986 | 433 E. EXCHANGE | D | 8:15 AM | .5 | 0 | 0 | S |
| 6 | 75987 | HOSPITAL | D | 8:30 AM | .6 | 0 | 0 | S |
| 7 | 75988 | 411 GEORGEAN ST. | D | 8:45 AM | 1.0 | 0 | 0 | S |
| 8 | 75989 | 535 DELAUB COE | D | 9:00 AM | .6 | 0 | 0 | S |
| 9 | 75990 | 224 W. SILAMORE | D | 9:15 AM | 1.0 | 0 | 0 | S |
| 10 | 75991 | 307 E. OTTAWA | D | 9:30 AM | .6 | 0 | 0 | S |
| 11 | 75992 | WEST SCHOOL | D | 9:45 AM | 1.1 | 0 | 0 | S |
| 12 | 75993 | SIL. HIGH SCHOOL | D | 10:00 AM | .5 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

12-20-89

12:15 - 12:35

0

DATE

TIME

BY

Opinion

S-satisfactory, safe for drinking. No coliforms detected.

Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by PL 93-532, and may be harmful to infants.

*Results reported are provided by client.

CERTIFIED ANALYST'S SIGNATURE

See Reverse For
Further Information



NATIONAL
ENVIRONMENTAL
TESTING, INC.

151 S. Street, Inc.
Barnett Division
850 West Barnett Road
Barnett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

NAME

ADDRESS

CITY

STATE

ZIP

Shaded Areas for Routine Only - Print With Black Pen

DATE OF TEST

11-14-89

COLLECTED BY

E. S. S. S.

SAMPLE PURPOSE

ROUTINE

RESAMPLE

NEW CONSTRUCTION

OTHER

PUBLIC WATER SUPPLY
FACILITY NO. 17533

PRIVATE WELL

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

NAME SA S. S. S.

PHONE 815-255-2544

| BOTTLE NO. | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE NO. | DATE OF TEST | RESIDUAL CHLORINE (mg/L) | COLIFORMS (per 100 ml) | STREPTOCOCCI (per 100 ml) | SPHERICAL COLIFORMS (per 100 ml) | SPHERICAL COLIFORMS (per 100 ml) |
|------------|-----------------|---------------------------|------------|--------------|--------------------------|------------------------|---------------------------|----------------------------------|----------------------------------|
| 1 | 74027 | WELL #6 | R | 715 | | 0 | 0 | S | |
| 2 | 74028 | WELL #8 | R | 730 | | 0 | 0 | S | |
| 3 | 74029 | 147 N. W. CT. | D | 745 | 14 | 0 | 0 | S | |
| 4 | 74030 | 433 E. F. L. A. B. E. | D | 9.00 | 18 | 0 | 0 | S | |
| 5 | 74031 | SUPER W. | D | 9.15 | 10 | 0 | 0 | S | |
| 6 | 74032 | 2547 L. L. A. L. A. | D | 9.30 | 14 | 0 | 0 | S | |
| 7 | 74033 | HOSPITAL | D | 9.45 | 18 | 0 | 0 | S | |
| 8 | 74034 | 535 DEKALB AVE | D | 9.60 | 5 | 0 | 0 | S | |
| 9 | 74035 | 411 G. A. R. T. A. N. CT. | D | 9.15 | 10 | 0 | 0 | S | |
| 10 | 74036 | 224 W. SYCAMORE | D | 9.20 | 9 | 0 | 0 | S | |
| 11 | 74037 | 307 E. C. T. R. A. ST. | D | 9.45 | 10 | 0 | 0 | S | |
| 12 | 74038 | WEST SCHOOL | D | 10.00 | 8 | 0 | 0 | S | |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

11-15-89

1130-1150

0

DATE

TIME

hrs

BY

Opinion

S-satisfactory, safe for drinking. No coliforms detected
Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking
U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking
Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants
*Results reported are provided by client

See Reverse For
Further Information



ME-T Midwest, Inc.
Bartlett Division
650 West Bartlett Road
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to:

Shaded Areas for Lab Use Only – Print With Black Pen

NAME SID ALBRECHT

DATE COLLECTED FROM

2007-08-01

ADDRESS
535 DELAWARE

10-17-89

16-18 89 0955

CITY SYCAMORE

STATE
IL

6078

SAMPLE PLAN

12/10/17 NE

NEW CONSTRUCTION

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY

NAME Sgt. G. BRENT PHONE 915-895-2541

FACILITY NO 0320550

PRIVATE WELL

[illegible]

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED _____

CELESTIAL

10-18-89 12-12-1215

Fun 0

| DATE | TIME | NO. | BY |
|------|------|-----|----|
|------|------|-----|----|

Opinion

S=satisfactory, safe for drinking. No coliforms detected.

Q=questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.

U=unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.

Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

CS WTW 410 ANALYST'S SIGNATURE _____

See Reverse For
Further Information



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

NET Midwest, Inc.
Bartlett Division
840 West Bartlett Road
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-4180

IDPH Reg No 17533

Mail Reports to

Shaded Areas for Lab Use Only - Print With Black Pen

NAME SVD ALBRECHT DATE COLLECTED 9-18-89 DATE TIME RECEIVED 9-21-89 12:30 PM
ADDRESS 535 DELAWARE AVE COLLECTED BY J. J. ALBRECHT
CITY SYCAMORE STATE IL ZIP CODE 60178 SAMPLE PURPOSE ROUTINE NEW CONSTRUCTION ☐
ATTN ALBRECHT RESAMPLE ☐ OTHER ☐

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY
FACILITY NO 032650

PRIVATE WELL

NAME SVD ALBRECHT PHONE 915-291-2548 OR 496

| BOTTLE NO | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (ON HR CLOCK) | RESIDUAL CHLORINE (PPM) | TOTAL COLIFORMS PER 100 ML (BP MP) | ATYPICAL COLIFORMS PER 100 ML (BP MP) | SPICIN | |
|-----------|-----------------|------------------|-------------|------------------------------|-------------------------|------------------------------------|---------------------------------------|--------|--|
| 1 | 69867 | WELL # 6 | R | 7:30 AM | | 0 | 0 | S | |
| 2 | 69868 | WELL # 7 | R | 7:45 AM | | 0 | 0 | S | |
| 3 | 69869 | 433 E. EXCHANGE | D | 8:21 AM | 5 | 0 | 0 | S | |
| 4 | 69870 | SUPER CO. | D | 8:45 AM | 9 | 0 | 0 | S | |
| 5 | 69871 | 147 MASON CT. | D | 8:50 AM | 7 | 0 | 0 | S | |
| 6 | 69872 | 411 GEORGEAN CT. | D | 8:45 AM | 6 | 0 | 0 | S | |
| 7 | 69873 | SR. HIGH SCHOOL | D | 9:15 AM | 4 | 0 | 0 | S | |
| 8 | 69874 | JR. HIGH SCHOOL | D | 9:30 AM | 9 | 0 | 0 | S | |
| 9 | 69875 | WEST SCHOOL | D | 9:45 AM | 5 | 0 | 0 | S | |
| 10 | 69876 | 224 W. SYCAMORE | D | 11:40 AM | 7 | 0 | 0 | S | |
| 11 | 69877 | 535 DELAWARE AVE | D | 10:15 AM | 4 | 0 | 0 | S | |
| 12 | 69878 | 307 E. OTTAWA | D | 10:30 AM | 4 | 0 | 0 | S | |

| | | | | | |
|----------------------------|------|----|---|--|---------|
| PERSON NOTIFIED OF RESULTS | | | DATE AND TIME ANALYZED | | CONTROL |
| | | | 9-20-89 1230-1250 | | 0 |
| DATE | TIME | BY |
J. J. ALBRECHT
CERTIFIED ANALYST'S SIGNATURE | | |

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client

See Reverse For
Further Information



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

NET Midwest, Inc.
Barnett Division
850 West Barnett Road
Bartlett, IL 60103
Tel: (312) 289-3100
Fax: (312) 289-4180

IDPH Reg No 17533

Formerly Aquatrol, Inc.

Mail Reports to:

Shaded Areas for Lab Use Only - Print With Black Pen

NAME SYD ALBRECHT DATE COLLECTED 8-15-89 DATE LAB RECEIVED 8/16/89 2:1100
ADDRESS 535 DELAUB AVE. COLLECTED BY E. SMITH
CITY SKENESBEE STATE IL ZIP CODE 60178 SAMPLE PURPOSE ROUTINE NEW CONSTRUCTION ☐
ATTN RESAMPLE ☐ OTHER ☐ PERMIT NO

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY

PRIVATE WELL

NAME SYD ALBRECHT PHONE 815-895-2544 or 4376 FACILITY NO 0320550

| BOTTLE NO | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (24 HR CLOCK) | W. SOLID CHLORINE (mg/L) | TOTAL COLIFORM PER 100 ML (CFU) | STYPICAL COLONIES PER 100 ML (CFU) | OPINION |
|-----------|-----------------|------------------|-------------|------------------------------|--------------------------|---------------------------------|------------------------------------|---------|
| 1 | 67600 | WELL #8 | R | 7:30AM | - | 0 | 0 | S |
| 2 | 67601 | WELL #1 | R | 7:45AM | - | 0 | 0 | S |
| 3 | 67602 | 433 E. EXCHANGE | D | 8AM | 3 | 0 | 0 | S |
| 4 | 67603 | SUTER CO. | D | 9:15AM | 5 | 0 | 0 | S |
| 5 | 67604 | 147 MASON CT. | D | 9:30AM | 5 | 0 | 0 | S |
| 6 | 67605 | HOSPITAL | D | 9:45AM | 1.0 | 0 | 0 | S |
| 7 | 67606 | 411 GEORGEAN CT. | D | 9:50AM | 1.0 | 0 | 0 | S |
| 8 | 67607 | SR. HIGH SCHOOL | D | 9:30AM | 3 | 0 | 0 | S |
| 9 | 67608 | JR. HIGH SCHOOL | D | 9:45AM | 4 | 0 | 0 | S |
| 10 | 67609 | WEST SCHOOL | D | 10AM | 3 | 0 | 0 | S |
| 11 | 67610 | 2587 LILAC LN. | D | 10:15AM | 6.0 | 0 | 0 | S |
| 12 | 67611 | 535 DELAUB AVE | D | 10:30AM | 4 | 0 | 0 | S |

| | | | | |
|----------------------------|------|------------------------|-----------------------------------|---------|
| PERSON NOTIFIED OF RESULTS | | DATE AND TIME ANALYZED | | CONTROL |
| | | 8-16-89 12:25-12:45 PM | | 0 |
| DATE | TIME | BY | | |
| | | |
CERTIFIED ANALYST'S SIGNATURE | |

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
 Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
 U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
 Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

See Reverse For
Further Information



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

NE T. Midwest, Inc.
Bartlett Division
810 West Bartlett Road
Bartlett, IL 60133
Tel: 312-289-3100
Fax: 312-289-4180

IDPH Reg. No. 17533

Formerly Aquatrend, Inc.

Mail Reports to:

Shaded Areas for Lab Use Only - Print With Black Pen

NAME: SYD ALDRICH DATE COLLECTED: 7-18-89 DATE & TIME RECEIVED: 7/19/89 1:00 P
ADDRESS: 535 DEROLD AVE COLLECTED BY: For Sample
CITY: SYCAMORE STATE: IL ZIP CODE: 60178 SAMPLE PURPOSE: ROUTINE NEW CONSTRUCTION: OTHER
ATTN: _____ RESAMPLE: _____

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY FACILITY NO. 0328550

PRIVATE WELL

NAME: SYD ALDRICH PHONE: 815-885-2585-4575

| BOTTLE NO. | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (24 HR CLOCK) | RESIDUAL CHLORINE (mg/L) | TOTAL COLIFORM PER 100 ML (CFU) | CFPCA COLONIES PER 100 ML (CFU) | OPINION |
|------------|-----------------|------------------|-------------|------------------------------|--------------------------|---------------------------------|---------------------------------|---------|
| 1 | 65800 | WELL #7 | R | 7:30 AM | | 0 | 0 | S |
| 2 | 65801 | WELL #6 | R | 7:52 AM | | 0 | 0 | S |
| 3 | 65802 | 433 E EXCHANGE | D | 8:00 AM | 3 | 0 | 0 | S |
| 4 | 65803 | SUTER CO | D | 8:15 AM | 7 | 0 | 0 | S |
| 5 | 65804 | 147 NASSON CT | D | 9:00 AM | 6 | 0 | 0 | S |
| 6 | 65805 | HOSPITAL | D | 8:45 AM | 10 | 0 | 0 | S |
| 7 | 65806 | 411 G502 JEFF CT | | 9:50 AM | 1.0 | 0 | 0 | S |
| 8 | 65807 | Jr. HIGH SCHOOL | D | 9:00 AM | 3 | 0 | 0 | S |
| 9 | 65808 | Jr. HIGH SCHOOL | D | 9:00 AM | 4 | 0 | 0 | S |
| 10 | 65809 | WHSR SCHOOL | D | 10:00 AM | 4 | 0 | 0 | S |
| 11 | 65810 | 2587 LITAL LN | D | 10:15 AM | 1.4 | 0 | 0 | S |
| 12 | 65811 | 535 DEROLD AVE | D | 10:30 AM | 5 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS _____ DATE AND TIME ANALYZED: 7-19-89 1101-1120 Jim 0

DATE: _____ TIME: _____ TO: _____ BY: _____

John T. Weaver
CERTIFIED ANALYST'S SIGNATURE

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
Q-questionable-4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
U-unsatisfactory-more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
Nitrate-if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

*Results reported are provided by client.

See Reverse For
Further Information

NET
**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

 NET Microtest, Inc.
 Bannock Division
 850 West Bannock Road
 Bannock, IL 60103
 Tel: (712) 289-3100
 Fax: (712) 289-4180

IDPH Reg No 17533

Formerly: Aquabest, Inc.

Mail Reports to

Shaded Areas for Lab Use Only—Print With Black Pen

NAME

CITY OF SKANMERE

ADDRESS

510 ALBRECHT

CITY

535 DELAND AVE.

STATE

SKANMERE IL

ZIP CODE

61875

SAMPLING PURPOSE

ROUTINE

NEW CONSTRUCTION

OTHER

PERSON TO CONTACT FOR UNSATISFACTORY RESULTS

PUBLIC WATER SUPPLY

PRIVATE WELL

NAME

510 ALBRECHT

FACILITY NO. 1037 0510

| BOTTLE NO. | ANALYSIS NUMBER | SAMPLING POINT | SAMPLE TYPE | TIME COLLECTED (24 HR CLOCK) | RESIDUAL CHLORINE (PPM) | TOTAL COLIFORM PER 100 ML (PPM) | TYPICAL COLIFORM PER 100 ML (PPM) | OPINION |
|------------|-----------------|-------------------|-------------|------------------------------|-------------------------|---------------------------------|-----------------------------------|---------|
| 1 | G4031 | WELL # 81 | R | 7:00AM | - | 0 | 0 | S |
| 2 | G4032 | WELL # 48 | R | 7:45AM | - | 0 | 0 | S |
| 3 | G4033 | 433 E. EICHENHORN | D | 8:00AM | .6 | 0 | 0 | S |
| 4 | G4034 | SUTER CO. | D | 9:15AM | .7 | 0 | 0 | S |
| 5 | G4035 | HOSPITAL | D | 9:30AM | .9 | 0 | 0 | S |
| 6 | G4036 | 411 GEORJEAN CT. | D | 9:45AM | 1.4 | 0 | 0 | S |
| 7 | G4037 | SR. HIGH SCHOOL | D | 9:15AM | .2 | 0 | 0 | S |
| 8 | G4038 | JR. HIGH SCHOOL | D | 9:30AM | .7 | 0 | 0 | S |
| 9 | G4039 | WEST SCHOOL | D | 9:45AM | .4 | 0 | 0 | S |
| 10 | G4040 | 224 W. SKANMERE | D | 10:00AM | .7 | 0 | 0 | S |
| 11 | G4041 | 2597 LILAC LN. | D | 10:15AM | 1.7 | 0 | 0 | S |
| 12 | G4042 | 535 DELAND AVE | D | 10:30AM | .3 | 0 | 0 | S |

PERSON NOTIFIED OF RESULTS

DATE AND TIME ANALYZED

CONTROL

Ayd. Albrecht

6-22-89 1230-1210

JAN 0

DATE: 6-22-89

TIME: 1400

BY: JMW

Opinion

S-satisfactory, safe for drinking. No coliforms detected.
 Q-questionable—4 or less coliforms or excessive bacterial growth which confirms negative. May not be safe for drinking.
 U-unsatisfactory—more than 4 coliforms or excessive bacterial growth which confirms positive. Not safe for drinking.
 Nitrate—if requested. Reported in mg/L. A nitrate concentration greater than 10 mg/L (as N) exceeds the maximum contaminant level specified by P.L. 93-532, and may be harmful to infants.

Results reported are provided by client

 J. M. McKeown
 CERTIFIED ANALYST SIGNATURE

 See Reverse For
 Further Information

DOCUMENT D

CHLORINE RESIDUALS

| DATE | LOCATION | FREE | TOTAL |
|----------|----------------------|------|-------|
| 10-16-89 | WEST SCHOOL | 1.0 | 1.4 |
| | 307 OTTAWA | .5 | .7 |
| | SUTER CO. | .5 | .9 |
| | 147 MASON CT. | .5 | .9 |
| | 433 E. EXCHANGE | .4 | .6 |
| | HOSPITAL | .5 | .7 |
| | 239 W. STATE | 1.0 | 1.4 |
| 10-17-89 | GEORJEAN & PARK | .3 | .6 |
| | ELM & KISH. DR. | .2 | .4 |
| | LINCOLN & S. MAIN | .6 | .9 |
| | HOME & KISH. DR. | .2 | .5 |
| | PAGE ST. | 1.0 | 1.4 |
| | 239 W. STATE | .8 | 1.1 |
| | JR. HIGH | 1.0 | 1.4 |
| | SYCAMORE & MAPLE | .9 | 1.2 |
| 10-18-89 | WATERMAN & S. CALIF. | .5 | .9 |
| | S. AVE. & EDWARD | .2 | .5 |
| | EDWARD & MEADOW | .7 | 1.1 |
| | HOSPITAL | .5 | .9 |
| | 239 W. STATE | .8 | 1.1 |
| | PAGE ST. | .8 | 1.1 |
| 10-19-89 | PAGE ST. | 1.0 | 1.4 |
| | HOSPITAL | .5 | .9 |
| | 239 W. STATE | 1.0 | 1.4 |
| | EASTGATE DR & OAK | 1.5 | 2.0 |
| | K-MART | .7 | 1.0 |
| | MALTA BANK | 1.3 | 1.7 |
| 10-20-89 | WOODGATE DR. | 1.1 | 1.6 |
| | KERRYBROOK CT. | 1.1 | 1.6 |
| | DEKALB AVE. & STARK | .4 | .7 |
| | ALBERT & WEST | .7 | 1.1 |
| | GRANT & GREELY | .5 | .9 |
| | PAGE ST. | 1.0 | 1.4 |
| | HOSPITAL | .6 | 1.0 |
| 10-23-89 | 239 W. STATE | 1.0 | 1.4 |
| | 239 W. STATE | .7 | 1.1 |
| | PAGE ST. | .7 | 1.0 |
| | HOSPITAL | .4 | .8 |
| | LONGWOOD DR. | .5 | .9 |
| | ALBERT & WEST | 1.0 | 1.5 |
| | GRANT & GREELY | .2 | .4 |

10-20-89



10-23-89

| | | |
|---------------------|-----|-----|
| MAPLE & W. SYCAMORE | 1.0 | 1.4 |
| WALNUT & PLYMOUTH | .6 | 1.0 |
| PLEASANT ST. | .6 | 1.0 |
| VISTA TERRACE | .4 | .7 |
| SABIN & STATE | .0 | .2 |
| HARDEE'S | .5 | .7 |
| GOVERNOR & STATE | .6 | .9 |
| WALNUT & STATE | .9 | 1.3 |
| MAIN & STATE | .7 | 1.1 |
| S. MAIN & ALLEY | 1.0 | 1.3 |
| WALNUT & ELM | .5 | .9 |
| ELM & GOVERNOR | .6 | .9 |
| ELM & KISHWAUKEE | .3 | .6 |

10-24-89

| | | |
|----------------------|-------|-----|
| PAGE ST. | 1.0 | 1.3 |
| 239 W. STATE | 1.0 | 1.3 |
| HOSPITAL | .4 | .7 |
| 411 GEORJEAN CT. | .4 | .7 |
| 224 W. SYCAMORE | .5 | .9 |
| 2587 LILAC LN. | 1.3 | 1.5 |
| HARDEE'S | .3 | .6 |
| GOVERNOR & STATE | .4 | .7 |
| WALNUT & STATE | .7 | 1.0 |
| MAIN & STATE | .7 | 1.0 |
| WALNUT & PLYMOUTH | .7 | .9 |
| PLEASANT ST. | .4 | .7 |
| VISTA TERRACE | .3 | .6 |
| WALNUT & ELM | .5 | .8 |
| ELM & GOVERNOR | .3 | .6 |
| ELM & KISHWAUKEE DR. | TRACE | .2 |

10-25-89

| | | |
|------------------------|-------|-----|
| PAGE ST. | 1.0 | 1.4 |
| 239 W. STATE | 1.0 | 1.4 |
| HOSPITAL | .6 | .9 |
| PLEASANT ST. | 1.3 | 1.6 |
| VISTA TERRACE | .5 | .8 |
| SABIN & STATE | TRACE | .2 |
| HARDEE'S | .8 | 1.1 |
| GOVERNOR & STATE | 1.0 | 1.4 |
| WALNUT & STATE | 1.1 | 1.4 |
| WALNUT & ELM | 1.0 | 1.4 |
| ELM & GOVERNOR | 1.0 | 1.4 |
| SABIN & E. SYCAMORE | .5 | .9 |
| SABIN & E. EXCHANGE | .4 | .8 |
| 433 E. EXCHANGE | .6 | .9 |
| WALNUT & E. EXCHANGE | 1.0 | 1.3 |
| LOCUST & E. EXCHANGE | .9 | 1.3 |
| LOCUST & E. SYCAMORE | 1.0 | 1.4 |
| WALNUT & E. SYCAMORE | 1.1 | 1.5 |
| PLEASANT & E. SYCAMORE | .4 | .7 |
| 531 E. SYCAMORE | .3 | .5 |

10-26-89

| | | |
|--------------|-----|-----|
| 239 W. STATE | 1.1 | 1.4 |
| PAGE ST. | 1.0 | 1.4 |

10-26-89

| | | |
|------------------------|-----|-----|
| HOSPITAL | .5 | .8 |
| PLEASANT ST. | .6 | 1.0 |
| VISTA TERRACE | .5 | .7 |
| SABIN & STATE | .7 | 1.0 |
| HARDEE'S | .7 | 1.1 |
| GOVENOR & STATE | 1.1 | 1.4 |
| WALNUT & STATE | 1.1 | 1.4 |
| WALNUT & ELM | .9 | 1.2 |
| ELM & GOVENOR | .8 | 1.0 |
| ELM & KISHWAUKEE DR. | .6 | .9 |
| SABIN & SYCAMORE | .7 | 1.0 |
| SABIN & E. EXCHANGE | .8 | 1.1 |
| 433 E. EXCHANGE | .7 | .9 |
| LOCUST & E. EXCHANGE | .9 | 1.3 |
| LOCUST & E. SYCAMORE | 1.0 | 1.4 |
| WALNUT & E. SYCAMORE | .7 | .9 |
| PLEASANT & E. SYCAMORE | .3 | .6 |
| 531 E. SYCAMORE | .3 | .5 |
| WALNUT & E. EXCHANGE | .9 | 1.3 |

10-27-89

| | | |
|------------------------|-----|-----|
| 239 W. STATE | 1.1 | 1.4 |
| PAGE ST. | 1.0 | 1.4 |
| HOSPITAL | .5 | .8 |
| PLEASANT ST. | .4 | .7 |
| VISTA TERRACE | 1.5 | 1.9 |
| SABIN & STATE | .3 | .6 |
| HARDEE'S | .6 | 1.0 |
| GOVENOR & STATE | .9 | 1.3 |
| WALNUT & STATE | 1.1 | 1.5 |
| WALNUT & ELM | 1.1 | 1.4 |
| ELM & GOVENOR | 1.0 | 1.3 |
| ELM & KISHWAUKEE | .5 | .7 |
| SABIN & E. SYCAMORE | 1.4 | 1.7 |
| SABIN & E. EXCHANGE | .4 | .7 |
| 433 E. EXCHANGE | .5 | .8 |
| WALNUT & E. EXCHANGE | 1.0 | 1.4 |
| LOCUST & E. EXCHANGE | 1.0 | 1.3 |
| LOCUST & E. SYCAMORE | 1.2 | 1.5 |
| WALNUT & E. SYCAMORE | 1.0 | 1.3 |
| PLEASANT & E. SYCAMORE | .3 | .6 |
| 531 E. SYCAMORE | .3 | .4 |

DOCUMENT E

SANDY

ENCLOSED ARE A FEW RECENT CHLORINE RESIDUALS TAKEN IN
AND AROUND THE PROBLEM AREAS.

| | FREE | TOTAL |
|---------------------|------|-------|
| 11-7-89 | | |
| LINCOLNSHIRE | .5 | .7 |
| LINCOLN & WALNUT | .7 | 1.0 |
| LINCOLN & KISH. DR. | .4 | .7 |
| VISTA TERRACE | .5 | .8 |
| 11-8-89 | | |
| 500 CHARLES | .2 | .4 |
| VISTA TERRACE | .7 | 1.0 |
| SABIN & EXCH. | .6 | .8 |
| FAIRWAY LN. | .3 | .4 |
| 11-9-89 | | |
| CENTER AVE & STARK | .6 | .7 |
| EDWARD & ELMWOOD | .5 | .8 |
| HOME & KISH. DR. | .4 | .5 |
| FAIRWAY LN. | .2 | .2 |
| 531 E. SYCAMORE | .5 | .5 |



DOCUMENT F

| DATE | ADDRESS | FREE | TOTAL |
|------------------------|---------------------|------|-------|
| NOV. 22, 1989
3 PM. | 531 E. SYCAMORE | 1.10 | 1.40 |
| | 433 E. EXCHANGE | .30 | .30 |
| | HYD. SABIN & EXCH. | 2.30 | 2.70 |
| | VISTA TERRACE | 2.40 | 2.60 |
| | V. TERRACE & KINGS. | 1.60 | 1.80 |
| 10 PM. | 531 E. SYCAMORE | 1.00 | 1.30 |
| | 433 E. EXCHANGE | .70 | 1.00 |
| 1 AM. | 531 E. SYCAMORE | .70 | .90 |
| | HYD. KOHLER PROP. | .70 | .90 |
| | 433 E EXCHANGE | .70 | .90 |
| 3 AM. | 531 E. SYCAMORE | .40 | .60 |
| | 433 E. EXCHANGE | .30 | .50 |
| | HYD. KOHLER PROP. | .30 | .40 |

KEVINS COPY

IRON PAGE 12 - 13

PARKER ST. 4-91

STANLEY CT.

LARSON ST.

BRICKVILLE RD.

TOWNSHIP GARAGE

MAPLEWOOD DR.

JOHN ST.

MICHAEL ST.

EXCH. & SACRAMENTO

PAGE & SACRAMENTO

W. EXCHANGE & MAPLE

300 B N. CALIF.

CALIFORNIA & STATE

N. AVE. & MAIN

STATE & MAIN

N. CALIF. & N. AVE.

PAGE & MAIN

STATE & MASON CT.

STATE ST.

N. CROSS

CROSBY AVE

W. EXCH. & MAY

STATE ST. (BUSSE)

ST. (WHITE)

5.11 1.4
2.21 0.2
2.21 0.2
4.01 1.4
2.11 0.2
2.81 0.2
2.57 0.2
2.52 0.2
2.50 0.2
0.94 0.2
0.74 0.2
1.01 0.2
0.20 0.2
0.63 0.2
0.89 0.2
0.76 0.2

[Handwritten signature]

IRON TUBES



PC 90-487

| CHLORINE | IRON | PHOS. | CHLORINE |
|-----------|------|-------|----------|
| 0.50 4.92 | 4.22 | 0.80 | 1.30 |
| 1.00 | 3.99 | 4.48 | 2.00 |
| 1.30 | 0.24 | 9.25 | 1.60 |
| 1.30 | 1.31 | 0.52 | 0.32 |
| 1.40 | 0.74 | 0.78 | 1.30 |
| 0.70 | 1.77 | 0.74 | 1.30 |
| 1.20 | 4.50 | 0.57 | 2.10 |
| 1.50 | 0.56 | 0.30 | 2.10 |
| 0.70 | 1.18 | 0.40 | 1.10 |
| 1.30 | 1.19 | 0.53 | 1.30 |
| 1.00 | 1.05 | 0.33 | 0.90 |
| 1.10 | 0.47 | 0.35 | 1.30 |
| 1.00 | 0.89 | 0.31 | 1.20 |
| 0.90 | 1.71 | 0.42 | 0.70 |
| 1.00 | 1.23 | 0.36 | 0.80 |
| 1.00 | 2.58 | 0.73 | 0.50 |
| 1.10 | 1.60 | 0.32 | 1.00 |
| 1.40 | 0.77 | 0.33 | 0.54 |
| 1.00 | 0.43 | 0.18 | 1.33 |
| 1.50 | 0.45 | 0.16 | 1.12 |
| 1.70 | 0.30 | 0.19 | 1.45 |
| 1.50 | 0.65 | 0.22 | 0.77 |
| 1.00 | 0.52 | 0.23 | 0.97 |
| 1.50 | 0.59 | 0.14 | 1.12 |

KEVINS. COPY

PARKER ST.

STANLEY CT.

LARSON ST.

WINTONVILLE RD.

TOWNSHIP GARAGE

MAPLEWOOD DR.

JOHN ST.

MICHAEL ST.

EXCH. & SACRAMENTO

PAGE & SACRAMENTO

W. EXCHANGE & MAPLE

300 E. N. CALIF.

CALIFORNIA & STATE

N. AVE. & MAIN

STATE & MAIN

N. CALIF. & N. AVE.

PAGE & MAIN

STATE & MASON CT.

STATE ST.

N. CROSS

CROSBY AVE

W. EXCH. & MAY

STATE ST. (BUSSE)

STATE ST. (WHITE)

IRON TESTS

RESPONDENT'S
EXHIBIT

6

JUL 20 1967

| CHLORINE | IRON | PHOS. | CHLORINE |
|-----------|------|-------|----------|
| 0.50 4-92 | 4.22 | 0.80 | 1.30 |
| 1.00 | 3.59 | 4.48 | 2.78 |
| 1.30 | 0.21 | 0.25 | 1.18 |
| 1.10 | 2.26 | 0.52 | 1.02 |
| 0.40 | 3.74 | 0.78 | 1.30 |
| 0.70 | 1.77 | 0.74 | 1.30 |
| 1.20 | 4.70 | 0.57 | 2.78 |
| 1.50 | 0.56 | 0.30 | 2.78 |
| 0.70 | 1.18 | 0.43 | 1.18 |
| 1.30 | 1.19 | 0.53 | 1.20 |
| 1.00 | 1.05 | 0.33 | 0.97 |
| 1.10 | 0.47 | 0.35 | 1.30 |
| 1.00 | 0.89 | 0.31 | 1.20 |
| 0.90 | 1.71 | 0.42 | 0.97 |
| 1.00 | 1.23 | 0.36 | 0.97 |
| 1.00 | 2.58 | 0.73 | 0.50 |
| 1.10 | 1.60 | 0.32 | 1.00 |
| 1.40 | 0.77 | 0.33 | 0.54 |
| 1.00 | 0.43 | 0.18 | 1.20 |
| 1.50 | 0.42 | 0.15 | 1.12 |
| 1.70 | 0.30 | 0.19 | 1.45 |
| 1.50 | 0.65 | 0.22 | 0.77 |
| 1.00 | 0.82 | 0.23 | 0.97 |
| 1.50 | 0.59 | 0.14 | 1.12 |

| | | | | | |
|---------------------|------|------|------|------|------|
| 433 E. EXCHANGE | 4-21 | 3.91 | 1.24 | 1.24 | 0.00 |
| WALNUT & E. SYC. | | 0.85 | 0.14 | 0.14 | 0.00 |
| 300 B. W. SYC. | | 1.67 | 0.17 | 0.17 | 0.00 |
| SYCAMORE & SABIN | | 1.45 | 0.14 | 0.14 | 0.00 |
| SABIN & E. EXCHANGE | | 1.54 | 0.19 | 0.19 | 0.00 |
| E. SYC. & LOCUST | | 0.44 | 0.16 | 0.16 | 0.00 |
| N. WALNUT & PLYM. | | 0.77 | 0.14 | 0.14 | 0.00 |
| 300 B. PLEASANT | | 0.59 | 0.14 | 0.14 | 0.00 |
| STATE & WALNUT | | 0.79 | 0.14 | 0.14 | 0.00 |
| STATE & GOVERNOR | | 0.80 | 0.14 | 0.14 | 0.00 |
| STATE & SABIN | | 0.64 | 0.14 | 0.14 | 0.00 |
| VISTA TER. MKING. | | 1.04 | 0.14 | 0.14 | 0.00 |
| 400 B. LINCOLNSHIRE | | 0.81 | 0.14 | 0.14 | 0.00 |
| 300 B. PARKSIDE DR. | | 1.12 | 0.14 | 0.14 | 0.00 |
| PARKSIDE & HOME | | 0.56 | 0.14 | 0.14 | 0.00 |
| TERRACE & OTTAWA | | 0.85 | 0.14 | 0.14 | 0.00 |
| CAMBRIDGE PL. | | 1.16 | 0.14 | 0.14 | 0.00 |
| FAIRWAY LN. | | 1.04 | 0.14 | 0.14 | 0.00 |
| HOME & KISHWAUKEE | | 0.88 | 0.14 | 0.14 | 0.00 |
| TERRACE & HIGH | | 0.85 | 0.14 | 0.14 | 0.00 |
| MAIN ST. & HIGH | | 1.42 | 0.14 | 0.14 | 0.00 |
| 300 B. E. HIGH | | 0.93 | 0.14 | 0.14 | 0.00 |
| ELM & KISHWAUKEE | | 0.85 | 0.14 | 0.14 | 0.00 |

IRON TESTS

| | | | | |
|----|-----------|------|------|------|
| 06 | 0.20 4-92 | 1.83 | 0.51 | 0.75 |
| 09 | 0.50 | 1.25 | 0.79 | 0.75 |
| 01 | 0.20 | 1.46 | 0.51 | 0.65 |
| 02 | 0.60 | 1.12 | 0.36 | 0.75 |
| 00 | 0.20 | 1.88 | 0.41 | 0.65 |
| 05 | 0.60 | 1.45 | 0.48 | 1.46 |
| 08 | 0.90 | 1.22 | 0.33 | 0.45 |
| 05 | 0.30 | 1.18 | 0.73 | 1.05 |
| 01 | 0.60 | 1.34 | 0.73 | 1.05 |
| 09 | TR. | 1.55 | 0.62 | 0.83 |
| 08 | TR. | 2.82 | 1.45 | 0.31 |
| | TR. | 2.31 | 0.88 | 0.81 |
| 02 | TR. | 1.92 | 0.47 | 0.46 |
| | TR. | 1.62 | 0.30 | 0.35 |
| 01 | TR. | 1.62 | 0.30 | 0.35 |
| 08 | TR. | 2.09 | 0.44 | 0.55 |
| 02 | TR. | 1.72 | 0.49 | 0.55 |
| 03 | TR. | 1.70 | 0.47 | 0.61 |
| 03 | TR. | 1.70 | 0.49 | 0.56 |
| 09 | TR. | 1.40 | 0.36 | 0.83 |
| 01 | 1.20 | 1.29 | 0.33 | 0.72 |
| 09 | 0.20 | 1.43 | 0.36 | 0.44 |
| 03 | 0.50 | 1.91 | 0.46 | 0.67 |

| | | | | |
|------------------------|------|------|------|------|
| LINCOLN & WALNUT | 1.01 | 0.26 | 0.30 | 0.21 |
| 300 B. HOME | 1.12 | 0.30 | 0.40 | 0.24 |
| 300 B. OTTAWA | 0.99 | 0.21 | 0.30 | 0.20 |
| 394 LINCOLN | | | | 0.20 |
| GEORJ. & SOMONAUK 4-91 | 0.24 | 0.12 | 0.50 | 0.20 |
| GEORGE & SOMONAUK | 0.20 | 0.15 | 0.40 | 0.20 |
| CONLIN & SOMONAUK | 0.26 | 0.15 | 0.50 | 0.20 |
| PERRY & SOMONAUK | 0.28 | 0.16 | 0.50 | 0.20 |
| LYNN & MANESS CT. | 0.85 | 0.21 | 1.70 | 0.40 |
| CONLIN & MANESS CT. | 0.22 | 0.11 | 1.90 | 0.20 |
| GEORJ. & MANESS CT. | 0.19 | 0.13 | 1.60 | 0.20 |
| 1600 B. PARK AVE. | 0.20 | 0.18 | 2.00 | 0.20 |
| 1800 B. PARK AVE. | | | | 0.20 |
| SOMONAUK & KERR | 0.27 | 0.15 | 0.90 | 0.20 |
| BORDEN AVE. | 0.30 | 0.19 | 1.40 | 0.20 |
| ORCHARD LN. | 1.14 | 0.30 | 0.10 | 0.20 |
| GARDEN CT. & PARK | 0.90 | 0.21 | 1.00 | 0.60 |
| CHAUNCEY & PARK | 0.43 | 0.19 | 1.20 | 0.44 |
| TOWNSEND & RECKITT | 1.05 | 0.31 | 0.70 | 0.63 |
| 1200 B. TOWNSEND | 0.56 | 0.20 | 1.50 | 0.20 |
| SOMONAUK & CHARLES | 1.01 | 0.12 | 0.50 | 0.20 |
| PARK & CHARLES | 1.03 | 0.09 | 0.60 | 0.11 |
| S. AVENUE & CHARLES | 0.39 | 0.04 | 1.10 | 0.50 |
| CARLSON & VICTOR | 0.42 | 0.05 | 0.70 | 0.39 |

IRON TESTS

| | | | | |
|----|-----------|------|------|------|
| 1 | 1.00 | 0.82 | 0.27 | 0.7 |
| 8 | TR. | 1.64 | 0.29 | 0.4 |
| 88 | 0.20 | 1.25 | 0.30 | 0.4 |
| 93 | TR. | 0.58 | 0.21 | 0.3 |
| 99 | 1.80 4-92 | 1.61 | 0.46 | 0.31 |
| 12 | 1.80 | 1.01 | 0.33 | 0.91 |
| 15 | 1.70 | 0.92 | 0.31 | 0.69 |
| 16 | 2.00 | 0.69 | 0.29 | 0.75 |
| 25 | 2.10 | 0.39 | 0.28 | 0.22 |
| 47 | 2.00 | 0.41 | 0.28 | 0.31 |
| 21 | 1.90 | 0.58 | 0.30 | 0.14 |
| 30 | 2.20 | 0.72 | 0.36 | 0.25 |
| 19 | 2.30 | 0.39 | 0.25 | 0.4 |
| 39 | 2.00 | 0.36 | 0.17 | 1.48 |
| 31 | 2.00 | 0.52 | 0.22 | 1.8 |
| 20 | 1.00 | 0.30 | 0.24 | 0.27 |
| 25 | 1.00 | 1.69 | | 0.27 |
| 26 | 1.50 | 0.89 | 0.27 | 0.7 |
| 30 | 1.00 | 1.45 | 0.47 | 0.50 |
| 25 | 1.50 | 0.44 | 0.17 | 1.12 |
| 50 | 1.00 | 1.24 | 0.19 | 0.24 |
| 23 | 1.00 | 0.74 | 0.22 | 0.51 |
| 31 | 1.50 | 0.36 | 0.18 | 0.12 |
| 27 | 1.80 | 0.62 | 0.29 | 1.00 |

| | | | | | |
|----------------------|------|------|------|------|-----|
| CHARLES ST. | 0.52 | 0.12 | 1.00 | 0.28 | 0.2 |
| EDWARD ST. | 0.46 | 0.10 | 1.00 | 0.28 | 0.2 |
| S. AVE. & EDWARD | 4.55 | 0.12 | 1.00 | 0.28 | 0.2 |
| EDWARD & PARK | 0.52 | 0.12 | 1.00 | 0.28 | 0.2 |
| WATERMAN & S. CAL. | 0.89 | 0.14 | 1.00 | 0.28 | 0.2 |
| S. CROSS & DEKALB | 3.01 | 0.15 | 1.00 | 0.28 | 0.2 |
| SOMONAUK & EDWARD | | | | | 0.2 |
| S. AVE. & COTTAGE | 0.46 | 0.10 | 1.00 | 0.28 | 0.2 |
| STARK & COTTAGE ROW | 0.77 | 0.13 | 1.00 | 0.28 | 0.2 |
| WASH. PL. & COTT. | 0.64 | 0.12 | 1.00 | 0.28 | 0.2 |
| EDWARD & MEADOW LN. | 1.35 | 0.36 | 1.00 | 0.28 | 0.2 |
| EDWARD & ELMWOOD | 1.42 | 0.35 | 1.00 | 0.28 | 0.2 |
| MEADOW LN. | 0.96 | 0.12 | 1.00 | 0.28 | 0.2 |
| FOX POINTE & BORDEN | 2.48 | 0.15 | 1.00 | 0.28 | 0.2 |
| MEADOW LN. & BORDEN | 2.34 | 0.14 | 1.00 | 0.28 | 0.2 |
| MEADOW LN. & VAUGHAN | 0.42 | 0.14 | 1.40 | 0.28 | 0.2 |
| S. CROSS & EMMERT | 0.38 | 0.12 | 1.50 | 0.28 | 0.2 |
| FOXPOINTE & VAUGHAN | 2.13 | 0.61 | 1.00 | 0.28 | 0.2 |
| HIGH & S. CALIF. | | | | 0.48 | 0.2 |
| CENTER AV. & STARK | 0.56 | 0.15 | 0.60 | 0.28 | 0.2 |
| FAIR ST. & SUNSET | 0.64 | 0.17 | 1.00 | 0.28 | 0.2 |
| ALMA & TENNIS CT. | 1.77 | 0.52 | 0.60 | 0.28 | 0.2 |
| JOHNSON AV. | 0.36 | 0.13 | 1.60 | 0.28 | 0.2 |
| CENTR CRSS & ARCHIE | 1.68 | 0.56 | 0.80 | 0.28 | 0.2 |
| 300 B. ALBERT | 0.43 | 0.13 | 3.10 | 0.61 | 0.2 |

IRON TESTS

| | | | |
|------|------|------|------|
| 1.10 | 0.99 | 0.22 | 0.30 |
| 1.30 | 0.22 | 0.22 | 1.25 |
| 1.00 | 0.71 | 0.29 | 0.59 |
| 1.50 | 1.11 | 0.28 | 0.91 |
| 0.50 | 1.29 | 0.29 | 1.19 |
| 0.90 | 0.69 | 0.20 | 0.64 |
| 1.10 | 1.46 | 0.20 | 0.49 |
| 1.00 | 1.27 | 0.21 | 0.49 |
| 0.40 | 1.25 | 0.21 | 0.41 |
| 0.50 | 1.27 | 0.30 | 0.72 |
| 1.30 | 0.54 | 0.14 | 0.80 |
| 1.10 | 2.25 | 0.28 | 0.60 |
| 1.30 | 0.51 | 0.27 | 1.20 |
| 2.10 | 0.59 | 0.20 | 1.50 |
| 1.80 | 0.65 | 0.33 | 1.40 |
| 1.40 | 1.00 | 0.45 | 0.80 |
| 1.60 | 0.48 | 0.31 | 1.30 |
| 2.20 | 2.24 | 0.22 | 0.70 |
| 0.80 | 1.32 | 0.24 | 1.38 |
| 0.50 | 1.30 | 0.15 | 1.80 |
| 1.10 | 0.20 | 0.13 | 1.30 |
| 0.90 | 0.49 | 0.15 | 2.10 |
| 2.30 | 0.22 | 0.16 | 1.50 |
| 0.50 | 1.09 | 0.19 | 0.60 |
| 1.40 | 0.25 | 0.14 | 1.00 |

GRAY & GREENE

BETHANY RD.

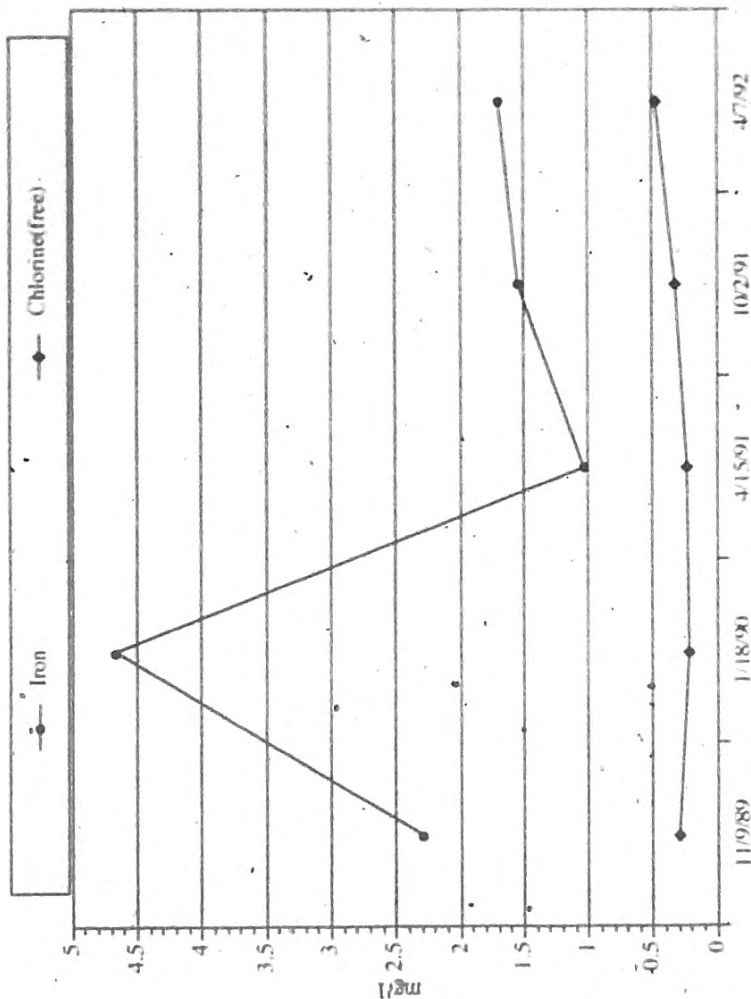
GATEWAY DR.

OAK & EASTGATE DR.

BROOKHILL

IRON TESTS

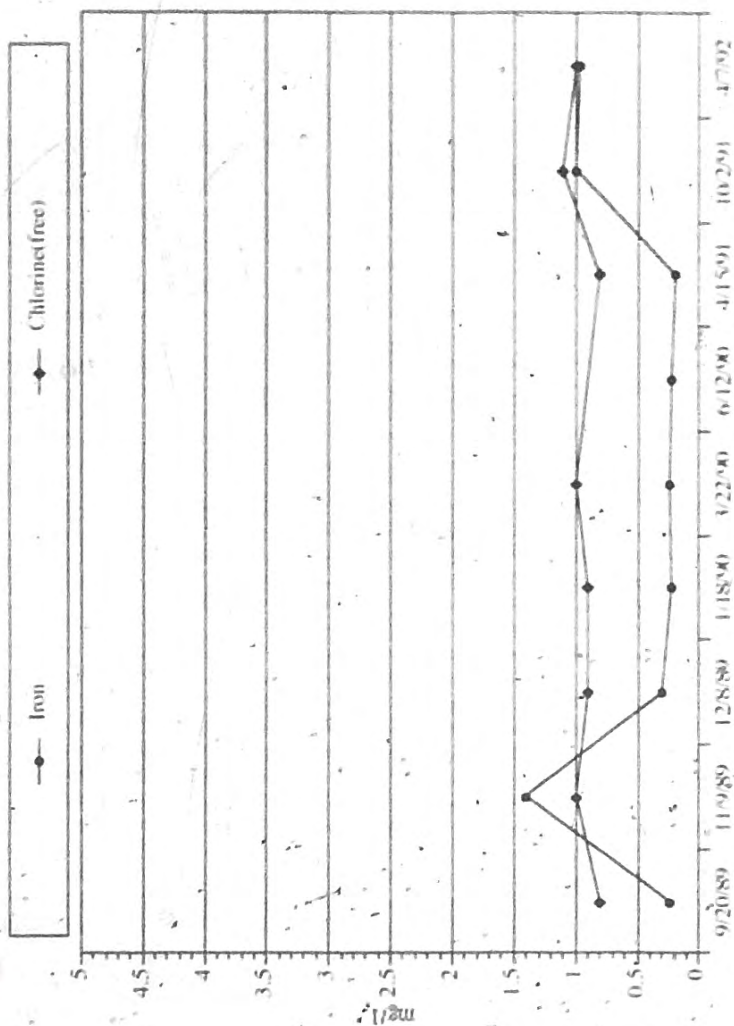
| | | | |
|------|------|------|------|
| 0.40 | 1.32 | 0.17 | 0.60 |
| 1.60 | 2.65 | 0.54 | 1.50 |
| 1.30 | 1.09 | 0.29 | 1.40 |
| 1.80 | 0.81 | 0.24 | 1.40 |
| 1.50 | 2.04 | 0.67 | 1.40 |



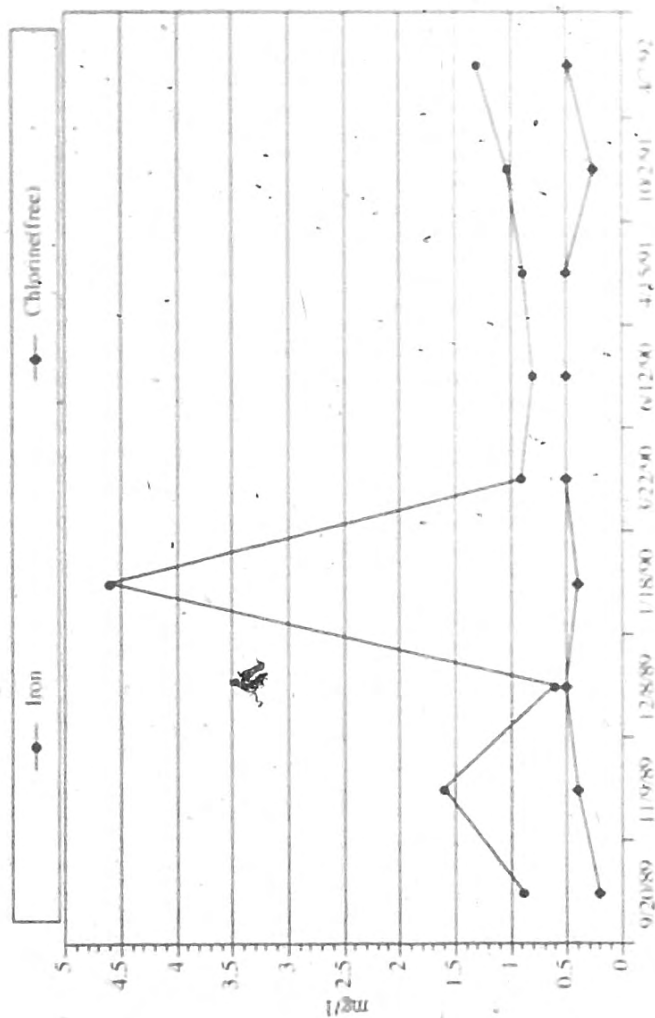
Fairway Avenue Sycamore, Illinois Iron Free Chlorine Levels

PCB 90.87

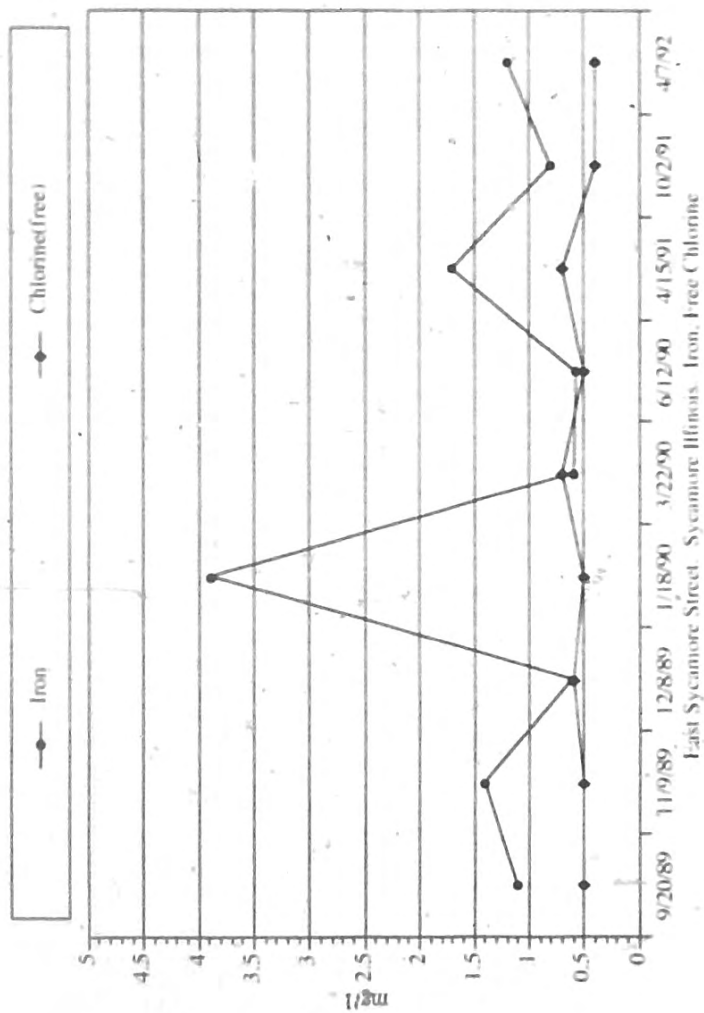


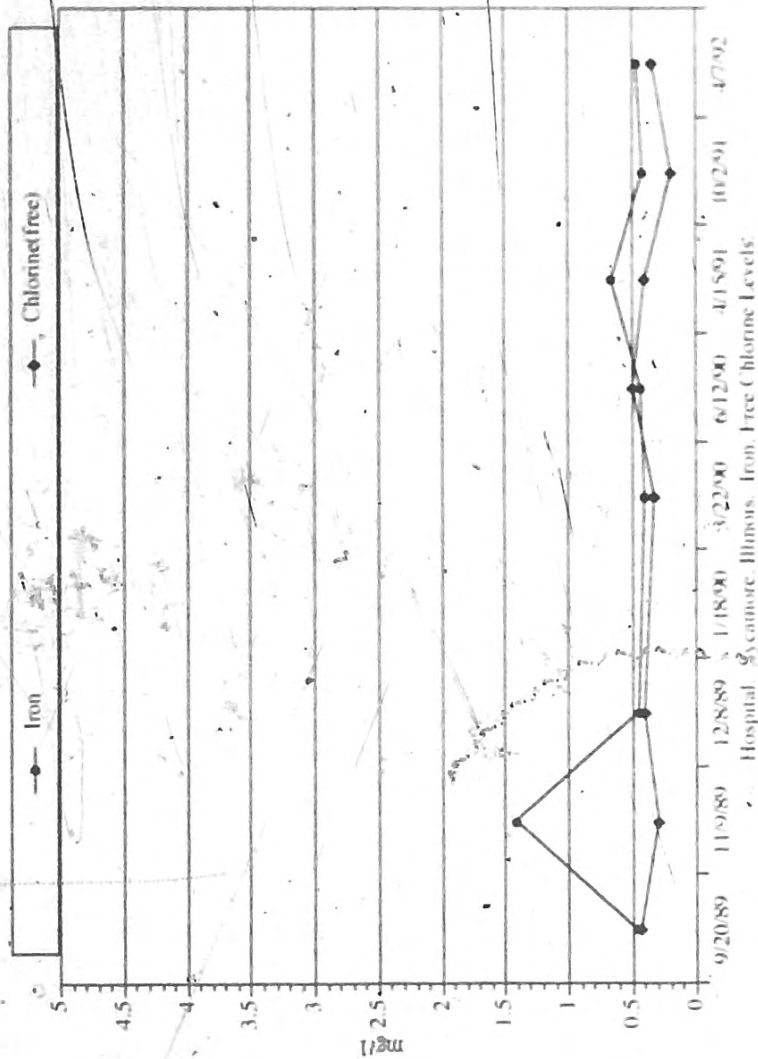


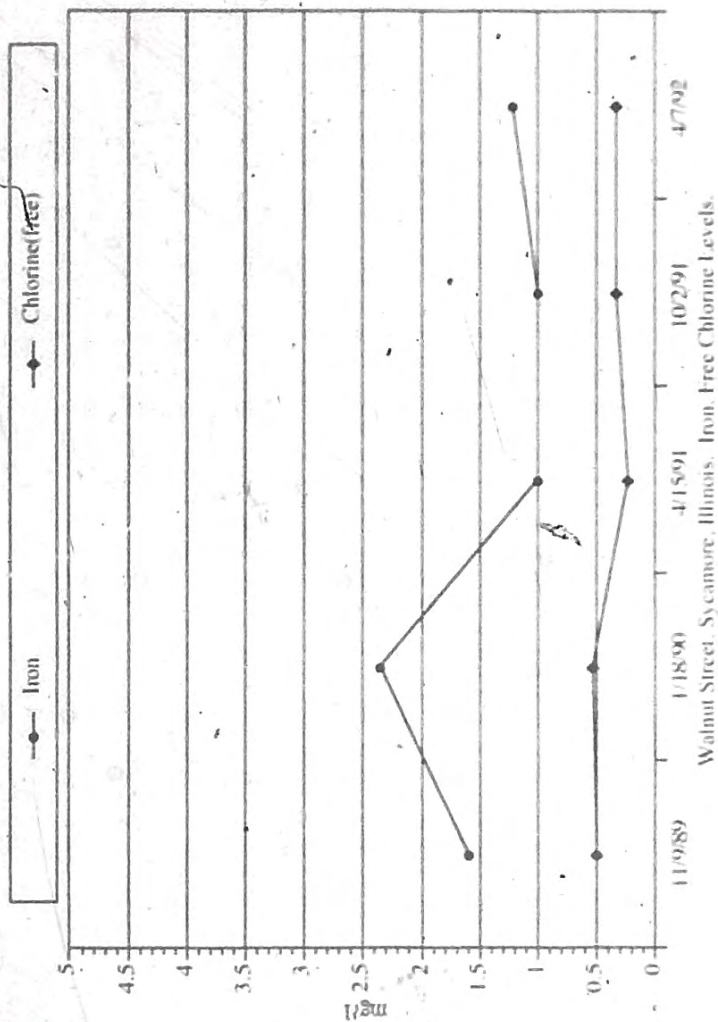
Page Street Sycamore Blinds Iron Free Chlorine Levels



Home Street, Sycamore, Illinois, Iron Free Chlorine Levels







Walnut Street, Sycamore, Illinois, Iron Free Chlorine Levels.

Prairie Environmental Specialists, Inc.

1275 W. ROOSEVELT ROAD SUITE 104 WEST CHICAGO, ILL. 60658
(708) 293-4441 FAX (708) 293-4402

May 29, 1992

Mr. Peter Smith
SMITH & STRAUSS
207 W. State Street
Sycamore, Illinois 60178

RE: WATER FLOW CALCULATIONS FROM MAIN WATER SUPPLY LINE ON
EXCHANGE ST. TO 462 EXCHANGE ST. RESIDENCE IN SYCAMORE,
ILLINOIS.

Dear Mr. Smith:

Enclosed are the water flow calculations for the above referenced
residence based on the enclosed map provided the City Engineer.

o Water Volume Estimates

Volume of a cylinder = $\pi r^2 l$ (pipe)

π = 3.1416 (ratio of the circumference of a circle to its
diameter)

r = radius (half the diameter of the pipe)

l = length (distance of pipe)

Volume (Gallons) of Water

200' of 6" water main from Exchange
St. to 2" line junction.

Assume 5.5" inside diameter of pipe.

246.8 gal.

80' of 2" water service line to residence
from 6" line junction.

Assume 1.5" inside diameter of pipe.

7.3 gal.

10' of 1" pipe from 2" line to faucet at
462 Exchange residence, where water
sampling took place.

0.4 gal.

Total Volume

254.5 gal.



PB 50-87

o Flow Rate at residence faucet

254 gal. @ 3.0 gal./min

(optimum flow out of faucet) = *85 minutes

*Time required to purge sufficient water volume out of pipe to obtain representative water sample from main water line on Exchange St.

Note: 6" water line is a "T" line, not a loop line with water flow back to the main supply line along Exchange St.

We hope this information assists in providing a better understanding of the water supply flow dynamics for this particular area of Sycamore.

Sincerely,

Thomas M. Mangan

Thomas M. Mangan
President, CPG #8441

Enclosure



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
 Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

0370553
 County/Supply Dubuque 1 STEANORE Interviewed Syd Albright Date 11-1-79

Address 535 Oakleaf Ave Steanore IL 60128 Phone 815-245-1111

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

Changes _____

The following checked items were discussed during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices.

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| 1 | | WELL OR SOURCE | 9 | | SEDIMENTATION | 17 | | RECORD KEEPING |
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| 4 | | METERING | 12 | | STORAGE | 20 | | BACTERIOLOGICAL QUALITY |
| 5 | | SOFTENING | 13 | X | DISTRIBUTION | 21 | | MINERAL QUALITY |
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| 7 | | REACTION BASIN | 15 | | FINANCIAL | 23 | | |
| 8 | | FLOCCULATION | 16 | | OPERATOR CERTIFICATION | 24 | | |

ITEM

REMARKS AND RECOMMENDATION FOR CORRECTIONS

CORRECTED BY:

Visit pump at night to observe and recommend proper flushing techniques. A problem section of distribution main was identified. Only six hydrants were flushed in 5 hours time because of difficulty in obtaining clear water. Residual chlorination at the hydrant was before and after.

| Hyd No | Location | Nozzle Size | Flow | Residual |
|--------|----------------------|-------------|------|----------|
| 1 | Steele & Steanore | 2 1/2" | 0.7 | — |
| 2 | Exchange & Steanore | 2 1/2" | 0.3 | 0.1 |
| 3 | Steeanore & Pleasant | 4" | 0.4 | 0.1 |
| 4 | Exchange & Steanore | 4" | 0.10 | 0.4 |
| 5 | Steeanore & Walnut | 4" | 0.6 | — |
| 6 | Steele & Walnut | 2 1/2" | 0.15 | 0.1 |

Free Chlorine Residual 7.0 mg/l. Location of Test Steeanore B. Sample Collected 11-1-79

Agency Person Syd Albright 11-1-79 FY 19 _____ F/U _____

Report Received By Syd Albright Class/Cert. # 1 F/U _____

PC390187



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

057 0530
County/Supply DeKalb / SYCAMORE Interviewed Srd Albrecht Date May 23, 90

Address Sycamore Water Dept Phone 515-895-2548

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

Changes _____

The following checked items were discussed during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices.

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| ITEM | REMARKS AND RECOMMENDATION FOR CORRECTIONS | CORRECTED BY: | | | | | | | | | | | | | | | | | | |
|---------|--|---------------|-------------------|--|--|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| | <p>Purpose of visit was to follow up on complaint of rusty water and insufficient residual chlorine. Measured residual chlorine and collected samples for iron concentration tests. Location was northwest part of city. Specific locations for tests were all on East Exchange Street.</p> <table> <tr> <th>Address</th><th>Residual Chlorine</th><th></th></tr> <tr> <td></td><td>Free</td><td>Total</td></tr> <tr> <td>407</td><td>0.4</td><td>0.6</td></tr> <tr> <td>486</td><td>0.0</td><td>0.0</td></tr> <tr> <td>465</td><td>0.2</td><td>0.3</td></tr> <tr> <td>462</td><td>0.1</td><td>0.15</td></tr> </table> | Address | Residual Chlorine | | | Free | Total | 407 | 0.4 | 0.6 | 486 | 0.0 | 0.0 | 465 | 0.2 | 0.3 | 462 | 0.1 | 0.15 | |
| Address | Residual Chlorine | | | | | | | | | | | | | | | | | | | |
| | Free | Total | | | | | | | | | | | | | | | | | | |
| 407 | 0.4 | 0.6 | | | | | | | | | | | | | | | | | | |
| 486 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | |
| 465 | 0.2 | 0.3 | | | | | | | | | | | | | | | | | | |
| 462 | 0.1 | 0.15 | | | | | | | | | | | | | | | | | | |

Free Chlorine Residual _____ mg/l, Location of Test _____ B. Sample Collected _____

Agency Person Walter Russell FY 19 _____ F/U _____

Report Received By Srd Albrecht Class/Cert.# _____ / _____ F/U _____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

County/Supply DeKalb 15 CAMP Interviewed Jed Albrecht Date May 31, 90

Address Sycamore Water Dept. Phone 815-835-2548

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

Changes _____

The following checked items were discussed during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices.

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| ITEM | REMARKS AND RECOMMENDATION FOR CORRECTIONS | CORRECTED BY: | | | | | | | | | | | | | | | | | |
|---------|---|---------------|-------------------|--|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| | <p>Follow-up on water quality complaint, met and sufficient residual chlorine. Checked residual chlorine at four locations on East Exchange Street.</p> <table><thead><tr><th rowspan="2">Address</th><th colspan="2">Residual Chlorine</th></tr><tr><th>Free</th><th>Total</th></tr></thead><tbody><tr><td>429</td><td>0.3</td><td>0.5</td></tr><tr><td>485</td><td>0.1</td><td>0.1</td></tr><tr><td>465</td><td>0.3</td><td>0.4</td></tr><tr><td>462</td><td>0.2</td><td>0.25</td></tr></tbody></table> | Address | Residual Chlorine | | Free | Total | 429 | 0.3 | 0.5 | 485 | 0.1 | 0.1 | 465 | 0.3 | 0.4 | 462 | 0.2 | 0.25 | |
| Address | Residual Chlorine | | | | | | | | | | | | | | | | | | |
| | Free | Total | | | | | | | | | | | | | | | | | |
| 429 | 0.3 | 0.5 | | | | | | | | | | | | | | | | | |
| 485 | 0.1 | 0.1 | | | | | | | | | | | | | | | | | |
| 465 | 0.3 | 0.4 | | | | | | | | | | | | | | | | | |
| 462 | 0.2 | 0.25 | | | | | | | | | | | | | | | | | |

Free Chlorine Residual _____ mg/l. Location of Test _____ B. Sample Collected _____

Agency Person Walter Russell FY 19 _____ F/U _____

Report Received By Jed Albrecht Class/Cert.# _____ F/U _____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

037 0550
County/Supply Dakota 1 STEAMORE Interviewed Sgt. Albrecht Date June 6 90

Address Steamore Water Dept. Phone _____

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

Changes _____

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|---------|--|---------------|------|-------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|----|--|
| | <p>Follow-up on water quality complaint, insufficient residual chlorine. Checked to see if certain line valves are open. The following line valves were found to be open:</p> <p> <u>Wm. & Kishwaukee</u> <u>Kishwaukee & Fort</u>
 <u>John. C. State</u> <u>Johnson & John</u>
 <u>John. C. Graham</u> <u>Spencer & John</u>
 <u>Evans & John</u> </p> <p>Residual chlorine was taken on May 16, at location <u>E. Exchange St.</u></p> <table border="1"> <thead> <tr> <th>Address</th> <th>Free</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>429</td> <td>0.25</td> <td>0.2</td> </tr> <tr> <td>433</td> <td>0.5</td> <td>0.45</td> </tr> <tr> <td>462</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>461</td> <td>TD</td> <td>0.1</td> </tr> <tr> <td>435</td> <td>0.0</td> <td>TD</td> </tr> </tbody> </table> <p>Well #8 is running today. No further well from problem area. Slight H₂S odor was detected at 431 E. Exchange.</p> | Address | Free | Total | 429 | 0.25 | 0.2 | 433 | 0.5 | 0.45 | 462 | 0.0 | 0.0 | 461 | TD | 0.1 | 435 | 0.0 | TD | |
| Address | Free | Total | | | | | | | | | | | | | | | | | | |
| 429 | 0.25 | 0.2 | | | | | | | | | | | | | | | | | | |
| 433 | 0.5 | 0.45 | | | | | | | | | | | | | | | | | | |
| 462 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | |
| 461 | TD | 0.1 | | | | | | | | | | | | | | | | | | |
| 435 | 0.0 | TD | | | | | | | | | | | | | | | | | | |

Free Chlorine Residual _____ mg/l, Location of Test _____ B. Sample Collected _____

Agency Person Walter Purcell FY 19 _____ P/U _____

Report Received By W. Albrecht Class/Cert.# _____ P/U _____

057 0550
County/Supply DeKalb STEAMORE Interviewed SFO ALBRECHT Date June 14, 90
Address STEAMORE WATER DEPT Phone 311-895-2548

Addendum to Public Water Supply Data Sheet Dated: _____ FY 19 _____

Changes _____

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|----------------------------------|---|--------------|------|-------|----------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|--|
| | <p>Follow-up on inadequate residual chlorine in northwest part of City. All locations for tests for chlorine were on E. Exchange Street.</p> <p style="text-align: center;"><u>Residual Chlorine</u></p> <table border="1"> <thead> <tr> <th>Address</th> <th>Free</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Five hydrant at Exchange @ Jabin</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>462</td> <td>0.1</td> <td>0.1</td> </tr> <tr> <td>429</td> <td>0.2</td> <td>0.3</td> </tr> <tr> <td>471</td> <td>0.05</td> <td>0.0</td> </tr> </tbody> </table> | Address | Free | Total | Five hydrant at Exchange @ Jabin | 0.15 | 0.25 | 462 | 0.1 | 0.1 | 429 | 0.2 | 0.3 | 471 | 0.05 | 0.0 | |
| Address | Free | Total | | | | | | | | | | | | | | | |
| Five hydrant at Exchange @ Jabin | 0.15 | 0.25 | | | | | | | | | | | | | | | |
| 462 | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| 429 | 0.2 | 0.3 | | | | | | | | | | | | | | | |
| 471 | 0.05 | 0.0 | | | | | | | | | | | | | | | |

Free Chlorine Residual _____ mg/l, Location of Test _____ B. Sample Collected _____
Agency Person Walter Purcell FY 19 _____ F/U _____
Report Received By Albrecht Class/Cert.# _____ / _____ F/U _____

037 0550
County/Supply DEKALB 15CAMORE Interviewed Don Smith Date June 26 80

Address 15CAMORE with Dept. Phone _____

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

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|-------------------------------|--|-------------------------------|--------------------------------|-------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|--|
| | <p>Follow-up on previous complaint about insufficient residual chlorine. Checked residual chlorine as follows. Well #1 (nearby well to that northeast part of city) has been run for past two days with PO₄ added to treat iron.</p> <table> <thead> <tr> <th>ADDRESS ON
E. EXCHANGE ST.</th><th>RESIDUAL CHLORINE mg/l
FREE</th><th>TOTAL</th></tr> </thead> <tbody> <tr> <td>485</td><td>0.25</td><td>0.3</td></tr> <tr> <td>459</td><td>0.2</td><td>0.25</td></tr> <tr> <td>429</td><td>0.3</td><td>0.6</td></tr> <tr> <td>462</td><td>0.6</td><td>0.0</td></tr> </tbody> </table> <p>* Test equipment malfunctioned</p> | ADDRESS ON
E. EXCHANGE ST. | RESIDUAL CHLORINE mg/l
FREE | TOTAL | 485 | 0.25 | 0.3 | 459 | 0.2 | 0.25 | 429 | 0.3 | 0.6 | 462 | 0.6 | 0.0 | <p>IRON
TESTS mg/l</p> <p>— *</p> <p>— no sample</p> <p>— no sample</p> <p>— *</p> <p>operator collected
iron samples
and ran them
on test
equipment</p> |
| ADDRESS ON
E. EXCHANGE ST. | RESIDUAL CHLORINE mg/l
FREE | TOTAL | | | | | | | | | | | | | | | |
| 485 | 0.25 | 0.3 | | | | | | | | | | | | | | | |
| 459 | 0.2 | 0.25 | | | | | | | | | | | | | | | |
| 429 | 0.3 | 0.6 | | | | | | | | | | | | | | | |
| 462 | 0.6 | 0.0 | | | | | | | | | | | | | | | |

Free Chlorine Residual _____ mg/l, Location of Test _____ B. Sample Collected _____

Agency Person Walter Russell FY 19 _____ F/U _____

Report Received By Donnell E Smith Jr. Class/Cert. # _____ / _____ F/U _____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF PUBLIC WATER SUPPLIES-OPERATIONAL SURVEY
Rockford Regional Office, P.O. Box 915, 4302 North Main, Rockford, IL. 61105-Phone (815) 987-7760

County/Supply DEKALB / STEALMORE Interviewed Ed Abbott Date July 19, 90

Address 5700 W. Main St. Phone 515-2542

Addendum to Public Water Supply Data Sheet Dated _____ FY 19 _____

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|-------------------------|---|---------------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|--|
| | <p>Follow-up on complaint of insufficient residual chlorine. Tested in residual chlorine E. on Main Street.</p> <table> <tr> <th>Sample</th><th>Free</th><th>Total</th></tr> <tr> <td>455</td><td>0.4</td><td>0.4</td></tr> <tr> <td>471</td><td>0.4</td><td>0.5</td></tr> <tr> <td>427</td><td>0.6</td><td>0.7</td></tr> <tr> <td>462 (Preston Residence)</td><td>0.0</td><td>0.0</td></tr> </table> <p>Well #1 not in operation. All three tests were made.</p> | Sample | Free | Total | 455 | 0.4 | 0.4 | 471 | 0.4 | 0.5 | 427 | 0.6 | 0.7 | 462 (Preston Residence) | 0.0 | 0.0 | |
| Sample | Free | Total | | | | | | | | | | | | | | | |
| 455 | 0.4 | 0.4 | | | | | | | | | | | | | | | |
| 471 | 0.4 | 0.5 | | | | | | | | | | | | | | | |
| 427 | 0.6 | 0.7 | | | | | | | | | | | | | | | |
| 462 (Preston Residence) | 0.0 | 0.0 | | | | | | | | | | | | | | | |

Free Chlorine Residual _____ mg/l, Location of Test _____ B. Sample Collected _____

Agency Person Walter Russell FY 19 _____ F/U _____

Report Received By Ed Abbott Class/Cert.# _____ / _____ F/U _____

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| 601.104 | Analytical Testing |
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| 602.105 | Standards for Issuance |
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TITLE 35: ENVIRONMENTAL PROTECTION

SUBTITLE F: PUBLIC WATER SUPPLIES

CHAPTER I: POLLUTION CONTROL BOARD

**PART 601
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Appendix References to Former Rules

AUTHORITY: Implementing Section 17 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1981 ch. 111 1/2, pars. 1017 and 1027).

SOURCE: Filed with Secretary of State January 1, 1978, amended at 2 Ill. Reg. 36, p. 72 effective August 28, 1978, amended at 3 Ill. Reg. 13, p. 236, effective March 30, 1979, amended and codified at 6 Ill. Reg. 11497, effective September 14, 1982, amended at 6 Ill. Reg. 14344, effective November 2, 1982.

Section 601.101 General Requirements

Owners and official custodians of a public water supply in the State of Illinois shall provide pursuant to the Environmental Protection Act (Ill. Rev. Stat. 1981 ch. 111 1/2, pars. 1001 et seq.) "Act", the Pollution Control Board (Board) Rules and the Safe Drinking Water Act (42 U.S.C. 300f et seq.) continuous operation and maintenance of public water supply facilities so that the water shall be assuredly safe in quality, clean, adequate in quantity, and of satisfactory mineral characteristics for ordinary domestic consumption.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 601.102 Applicability

The provisions of this Chapter shall apply to public water supplies, as defined in the Act, except for those designated as non-community water supplies. A public water supply shall be considered to end at each service connection.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 601.103 Severability

If any provision of these rules or regulations is adjudged invalid or if the application thereof to any person or in any circumstance is adjudged invalid, such invalidity shall not affect the validity of this Chapter as a whole, or any other part, subpart, sentence or clause thereof not adjudged invalid.

Section 601.104 Analytical Testing

- To determine compliance with these rules and regulations, all sampling and physical, chemical, bacteriological, and microscopic analyses shall be made according to the methods described in the National Primary Drinking Water Regulations (40 CFR 141) and any other method specifically approved by the Environmental Protection Agency (Agency).

b. All analyses for substances other than those listed in these rules and regulations shall be made by the methods acceptable to the Agency.

(Source: Amended at 3 Ill. Reg. 13, p. 236, effective March 30, 1979.)

Section 601.105 Definitions

For purposes of this Chapter:

"Act" means the Environmental Protection Act, as amended (Ill. Rev. Stat. 1981 ch. 111 1/2, pars. 1001 et seq.).

"Agency" means the Illinois Environmental Protection Agency.

"Board" means the Illinois Pollution Control Board.

"Boil Order" means a notice to boil all drinking and culinary water for at least five minutes before use, issued by the proper authorities to the consumers of a public water supply affected whenever the water being supplied may have become bacteriologically contaminated.

"Certified Laboratory" means any laboratory approved by the Agency or the Illinois Department of Public Health for the specific parameters to be examined as set out in rules adopted pursuant to the Administrative Procedure Act, (Ill. Rev. Stat. 1981 ch. 127, pars. 1001 et seq.).

"Chemical Analysis" means analysis for any inorganic or organic substance, with the exception of radiological or microbiological analyses.

"Confined Geologic Formations" are geologic water-bearing formations protected against the entrance of contamination to other geologic formations.

"Disinfectant" means any oxidant, including but not limited to chlorine, chlorine dioxide, chloramines and some added to water in any part of the treatment or distribution process, which is intended to kill or inactivate pathogenic microorganisms.

"Dose Equivalent" means the product of the absorbed dose from ionizing radiation and such factors as account for differences in biological effectiveness due to the type of radiation and its distribution in the body as specified by the International Commission on Radiological Units and Measurements (ICRU).

"Gross Alpha Particle Activity" means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample.

"Gross Beta Particle Activity" means the total radioactivity due to beta particle emission as inferred from measurements on a dry sample.

"Ground Water" means all natural or artificially introduced waters found below the ground surface, including water from dug, drilled, bored or driven wells, infiltration lines, and springs.

"Halogens" means one of the chemical elements chlorine, bromine or iodine.

"Man-Made Beta Particle and Photon Emitters" means all radionuclides emitting beta particles and/or photons listed in Maximum Permissible Body Burdens and maximum Permissible Concentration of Radionuclides in Air or Water for Occupational Exposure, National Bureau of Standards (NBS) Handbook 69 except the daughter products of thorium 232, uranium 235 and uranium 238.

"Maximum Total Trihalomethane Potential (MTP)" means the maximum concentration of total trihalomethanes produced in a given water containing a disinfectant residual after 7 days at a temperature of 25°C or above.

"Official Custodian" means any officer of an organization who is the owner or operator of a public water supply and who has direct administrative responsibility for the supply.

"Persistent Contamination" exists when analysis for total coliform is positive in one or more samples of a routine sample set and when three or more subsequent check samples indicate the presence of contamination.

"Ticurec (pCi)" means that quantity of radioactive material producing 222 nuclei transformations per minute.

"Returning Contamination" exists when analysis of total coliform is positive in one or more samples of a routine sample set if this occurs four or more times in a calendar year.

"Rem" means the unit of dose equivalent from ionizing radiation to the total body or any internal organ or organ system. A "millirem (mrem)" is 1/1000 of a rem.

"Re-sell Water" means to deliver or provide potable water obtained from a public water supply subject to these regulations to the consumer, who is then individually or specifically billed for water service, or where any monetary assessment is levied or required and specifically used for water service. Water supply facilities owned or operated by political subdivisions, homeowners associations, and not-for-profit associations, as well as privately owned utilities regulated by the Illinois Commerce Commission, are considered to sell water whether or not a charge is specifically made for water.

"Service Connection" is the opening, including all fittings and appurtenances, at the water main through which water is supplied to the user.

"Surface Water" means all tributary streams and drainage basins, including natural lakes and artificial reservoirs, which may effect a specific water supply above the point of water supply intake.

"Surface Water Supply Source" means any surface water used as a water source for a public water supply.

"Supply" means a public water supply.

"Total Trihalomethanes (TTHM)" means the sum of the concentration in milligrams per liter of the trihalomethane compounds trichloromethane (chloroform), dibromochloromethane, bromodichloromethane and tribromomethane (bromoform), rounded to two significant figures.

"Trihalomethane (THM)" means one of the family of organic compounds named as derivatives of methane, wherein three of the four hydrogen atoms in methane are each substituted by a halogen atom in the molecular structure.

"Water Main" means any pipe for the purpose of distributing potable water which serves or is accessible to more than one property, dwelling, or rental unit, and is exterior to buildings.

(Source: Amended at 6 Ill. Reg. 11487, effective September 14, 1982.)

Appendix

References to Former Rules

The following table shows the relationship between the new and old rules.

Chapter 6: Public Water Supplies Part I: Introduction

35 Ill. Adm. Code
Part 601

| | |
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| Rule 201 | Section 601.101 |
| Rule 102 | Section 601.102 |
| Rule 103 | Section 601.103 |
| Rule 104 | Section 601.104 |
| Rule 105 | Section 601.105 |
| Rule 106 | Section 601.106 |
| Rule 107 | Section 601.107 |

TITLE 35. ENVIRONMENTAL PROTECTION

SUBTITLE F. PUBLIC WATER SUPPLIES

CHAPTER I. POLLUTION CONTROL BOARD

PART 602 PERMITS

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| 602.101 | Construction Permit |
| 602.102 | Operating Permit |
| 602.103 | Algalicide Permit |
| 602.104 | Emergency Permit |
| 602.105 | Standards for Issuance |
| 602.106 | Restricted Status |
| 602.107 | Signatory Requirement for Permit Applications |
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| 602.110 | Algalicide Permit Applications |
| 602.111 | Application Forms and Additional Information |
| 602.112 | Filing and Final Action by Agency on Permit Application |
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| 602.114 | Conditions |
| 602.115 | Design, Operation and Maintenance Criteria |
| 602.116 | Requirement for As-Built Plans |
| 602.117 | Existence of Permit No Defense |
| 602.118 | Appeals from Conditions |
| 602.119 | Revocations |
| 602.120 | Limitations |

Appendix. References to Former Rules

AUTHORITY. Implementing Rules of the Illinois Pollution Control Board, Section 27 of the Environmental Protection Act, Ill. Rev. Stat. 1967, ch. 117, pars. 1017 and 1027.

SOURCE. Filed with Secretary of State January 1, 1977, amended and codified as 6 Ill. Reg. 11497 effective September 14, 1982.

Section 602.101 Construction Permit

- No person shall cause or allow the construction of any new public water supply installation or cause or allow the change of or addition to any existing public water supply without a construction permit issued by the Environmental Protection Agency. Agency. Public water supply installation change or addition shall not include routine maintenance, service pipe connections, hydrants and valves or replacement of equipment, pipe and appurtenances with equivalent equipment, pipe and appurtenances.
- All work performed on a public water supply shall be in accordance with accepted engineering practices.

Section 602.102 Operating Permits

No owner or operator of a public water supply shall cause or allow the use or operation of any new public water supply or any new addition to an existing supply for which a Construction Permit is required under this Part without an Operating Permit issued by the Agency.

Section 602.103 Algalicide Permits

No algalicide shall be applied to any stream, reservoir, lake, pond or other body of water used as a public water supply source without an Algalicide Permit issued by the Agency. Copper sulphate is the only algalicide which may be used in public water supply. Permits issued under this Section will be valid for public water supply sources only.

Section 602.104 Emergency Permits

- When an emergency exists, the Agency may issue an emergency permit to allow the temporary operation of a public water supply system in a manner which deviates from the requirements of this Part, provided that the Agency determines that the deviation is necessary for the proper functioning of the system or the health of the water consumers.

Any such permit and application will be valid only if the permit holder under the emergency permit must be in compliance with the Agency's order as to water quality.

- Modifications required by the Agency after issuance of an emergency permit shall be made promptly.

- The Agency shall render an opinion within ten days of issuance of a permit for an emergency construction permit. Such information may be considered upon the merits and approved by the Agency in whole or in part and operations may.

SOURCE. Amended as 6 Ill. Reg. 11497 effective September 14, 1982.

Section 602.105 Standards for Issuance

- The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the public water supply system is constructed, modified or operated so as not to cause a violation of the Environmental Protection Act, Ill. Rev. Stat. 1967, ch. 117, pars. 1016 et seq., and that the design, operation and maintenance criteria are met.

- The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the public water supply system conforms to the design criteria promulgated by the Agency under Section 35a of the Act or Section 1017 of the Act or is based on such other criteria which the applicant proves will produce consistently satisfactory results.

- The Agency shall not grant any construction permit required by this Part unless the applicant submits proof that all plan documents required by this Section and Section 602.108 have been prepared by a person qualified under the Illinois Architects Act (Ill. Rev. Stat. 1967, ch. 111, pars. 1201 et seq.; the Illinois Professional Engineering Act (Ill. Rev. Stat. 1967, ch. 111, pars. 1201 et seq.; the Illinois Structural Engineering Act (Ill. Rev. Stat. 1967, ch. 111, pars. 6501 et seq.) or any required combination thereof.

SOURCE. Amended as 6 Ill. Reg. 11497 effective September 14, 1982.

Section 602.106 Restricted Status

- Restricted status shall be defined as the Agency determination pursuant to Section 30a of the Act and Section 602.105 that a public water supply facility may no longer be issued a construction permit without causing a violation of the Act or this Chapter.
- The Agency shall publish and make available to the public at intervals of not more than six months a comprehensive and up-to-date list of supplies subject to restricted status and the reasons why.
- The Agency shall notify all owners of affected supplies and supplies when the supply is initially placed on restricted status.

SOURCE. Amended as 6 Ill. Reg. 11497 effective September 14, 1982.

Section 602.107 - Signature Requirement for Permit Applications

All permit applications shall be signed by the owner or officer, member of the public water supply or by the owner's duly authorized agent and shall be accompanied by evidence of authority to sign the application.

Section 602.108 - Construction Permit Applications

All applications for any construction permit required under this Chapter shall contain, where appropriate, the following information and documents:

- A summary of the design basis
- Operation requirements
- General layout
- Detailed plans
- Specifications
- A professional seal to satisfy Section 602.105 - requirements
- Any other information required by the Agency for proper consideration of the permit

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 602.109 - Operating Permit Applications

All applications for operating permits shall contain:

- The name and certificate number of the certified operator in responsible charge on the operational staff of the public water supply or the name and registration number of the registered person in responsible charge for supplies which are exempt from the requirement for a certified operator, and
- the name and location of the public water supply
- the construction permit number under which the public water supply was constructed, and
- any other information required by the Agency for proper consideration of the permit

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 602.110 - Algalicide Permit Applications

All applications for algalicide permits shall contain:

- the name and certificate number of the certified operator supervising the application of the algalicide
- a statement describing the extent of the algae problem, history of any past algae problems, and algalicide treatments, and a description of any fish kills which have resulted from treatments in the past, and
- adequate information to support exceeding the limits as stated in 35 Ill. Adm. Code 302, Water Quality Standards.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 602.111 - Application Forms and Additional Information

The Agency may approve the form in which an applicant has requested information. If the form is not approved, the Agency may require the applicant to submit additional information as it deems necessary to determine whether the public water supply complies with the requirements of the Act and this Chapter.

Section 602.112 - Filing and Final Action by Agency on Permit Applications

- An application for permit shall be deemed to be filed on the date of initial receipt by the Agency of the documents.
- If the Agency fails to take final action by granting or denying the permit as requested or with conditions, within sixty days from the filing of the completed application, the applicant may deem the permit granted for a period of one year commencing on the Agency's first day after the application was filed.
- Any applicant for a permit may waive the requirement that the Agency must take final action within sixty days from the filing of the application.
- The Agency shall send all notices of final action by first mail. The Agency shall be deemed to have taken final action on the date that the notice is mailed.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 602.113 - Duration

- Construction Permits** - Construction permits for supply facilities shall be valid for the term of construction, with, in one year from the date of issuance and may be renewed for additional one-year periods at the discretion of the Agency. Construction once started may continue for four years without permit renewal and may be renewed for periods specified by the Agency at its discretion for each permit renewal.
- Operating Permits** - Operating permits shall be valid until revoked unless otherwise stated in the permit.
- Algalicide Permits** - Algalicide permits shall be valid only for the period stated in the permit, but in no case longer than one year.

Section 602.114 - Conditions

In addition to specific conditions authorized under this Part the Agency may impose such conditions in a permit as may be necessary to accomplish the purposes of the Act and as are not inconsistent with regulations promulgated by the Illinois Pollution Control Board.

Section 602.115 - Design, Operation, and Maintenance Criteria

- The Agency may adopt criteria published in the form of Technical Policy Statements for the design, operation, and maintenance of public water supply facilities as necessary to insure safe, adequate and clean water. These criteria shall be revised from time to time to reflect current engineering judgment and advances in the state of the art.
- Before adopting new criteria or making substantive changes to any Technical Policy Statements, the Agency shall comply with the provisions of the Administrative

Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.

Section 602.116 Requirement for As-Built Plans

Whenever a supply has been constructed without a construction permit, the Agency may require submission of as-built plans prepared by a qualified person as described in Section 602.107. Any deficiencies requiring correction as determined by the Agency must be corrected within a time limit set by the Agency. This does not relieve the owner or official custodian from any liability for construction of the supply without a permit.

Section 602.117 Existence of Permit No Defense

The existence of a permit under this Chapter shall not constitute a defense to a violation of the Act or any Board rule except for the requirements to secure construction, operating, alongside or emergency permits.

Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.

Section 602.118 Appeals from Conditions

An applicant may consider any condition imposed by the Agency in a permit as a refusal by the Agency to grant a permit. It shall entitle the applicant to appeal the Agency's decision to the Board pursuant to Section 46 of the Act.

Section 602.119 Revocations

Violation of any permit conditions or failure to comply with any rule or regulation of this Chapter shall be grounds for enforcement actions as provided in the Act, including revocation of permit. Such enforcement actions shall be sought by filing a complaint with the Board pursuant to Title VIII of the Act.

Section 602.120 Limitations

Any permit issued under this Part shall not be considered to be valid unless and until all applicable permits from State agencies including but not limited to those listed below, have been applied for.

AGENCY

Illinois Commerce Commission
Dept. of Mines and Minerals
Div. of Oil and Gas
Dept. of Transportation
Div. of Water Resource Management

PERMIT DESCRIPTION

Certificate of Convenience and
Necessity
Well Drilling
Changes to Existing Waterway

Appendix References to Former Rules

Ill. Commerce Commission, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 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TITLE 32: ENVIRONMENTAL PROTECTION

SUBTITLE 7: PUBLIC WATER SUPPLIES

CHAPTER 1: POLLUTION CONTROL BOARD

PART 603

OWNERSHIP AND RESPONSIBLE PERSONNEL

| | |
|---------|--|
| Section | |
| 603.101 | Ownership |
| 603.102 | Responsible Personnel |
| 603.103 | Certified Operator |
| 603.104 | Registered Person in Responsible Charge |
| 603.105 | Notification of Change of Ownership or Responsible Personnel |

Appendix References to Former Rules

AUTHORITY Implementing Section 17 and authorized by Section 23 of the Environmental Protection Act (III Reg. Stat. 1981 ch. 111 1/2 pars. 1017 and 1027).

SOURCE Filed with Secretary of State January 7, 1978; amended and codified at 6 Ill. Reg. 11497, effective September 14, 1982.

Section 603.101 Ownership

- To assure the continued maintenance and operation of public water supplies, each supply shall be under the individual direct supervision of a municipal or private corporation, individual private ownership, or a regularly organized body governed by a constitution and by laws requiring regular election of officers.
- The body exercising such direct supervision shall file with the Environmental Protection Agency (Agency) a statement of ownership before commencing construction of any public water supply facility. Public water supplies in existence on December 21, 1974, shall file a statement of ownership with the Agency no later than ninety days after that date.
- The body filing such a statement shall be considered to be the owner until such time as a notification of change of ownership is received in accordance with Section 603.105.
- The owner or official custodian and individual designated in responsible charge pursuant to Section 603.103 or 603.104 shall be jointly accountable for the proper operation of the supply.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 603.102 Responsible Personnel

Each public water supply shall have designated an individual in responsible charge of the operation of that supply properly qualified and registered pursuant to "An Act to regulate the operating of a public water supply" (III Reg. Stat. 1981 ch. 111 1/2, pars. 501 et seq. hereinafter "Water Supply Operator Certification Law"), with all provisions of the Water Supply Operator Certification Law complied with.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 603.103 Certified Operator

- Each public water supply, unless exempted under Section 603.104, shall have a certified operator qualified and registered in accordance with the Water Supply

Operator Certification Law.

The owner or official custodian of a public water supply shall designate a responsible charge person in a signed statement identifying the responsible person in responsible charge in forms provided to the Agency.

- Both the treatment and distribution facilities of each supply must have responsible personnel indicated.
- The properly certified operator shall supervise both the treatment and distribution facilities of the supply.
- Completion of the above forms shall indicate acceptance of the duties and responsibilities for the proper operation and maintenance of the public water supply facilities by both owner or official custodian and certified operator.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 603.104 Registered Person in Responsible Charge

- A public water supply that seeks an exemption from the requirements of a certified operator or responsible charge person must request in writing to the Agency.
- Each public water supply seeking such exemption shall file with the Agency a signed statement identifying the registered person in responsible charge in forms provided by the Agency. Such statement shall also be signed by the registered person in responsible charge.
- Both the treatment and distribution facilities of each supply must have responsible personnel indicated.
- The properly registered person in responsible charge may supervise both the treatment and distribution facilities of the supply.
- Completion of the above forms shall indicate acceptance of the duties and responsibilities for the proper operation and maintenance of the public water supply facilities by both owner or official custodian and registered person in responsible charge.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 603.105 Notification of Change of Ownership or Responsible Personnel

- The Agency shall be notified within fifteen days on forms supplied by the Agency by the owner of a public water supply of changes in ownership.
- The Agency shall be notified within fifteen days on forms supplied by the Agency of changes in responsible personnel and who may be contacted in the event such contact is required.
- No notification shall be considered valid unless the new owner or responsible personnel indicates acceptance of

Source: Amended at 6:30 P.M. May 11, 1957; effective September 12, 1957.

Appendix References to Former Rules

The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.

Chapter 6: Public Water Supplies 25 Ill. Adm. Code Part III: Operation and Maintenance Part 603

| | |
|----------|-----------------|
| Rule 301 | Section 603.101 |
| New | Section 603.102 |
| Rule 302 | Section 603.103 |
| New | Section 603.104 |
| Rule 303 | Section 603.105 |

TITLE 24. ENVIRONMENTAL PROTECTION

SUBTITLE F. PUBLIC WATER SUPPLIES

CHAPTER 1. POLLUTION CONTROL BOARD

PART 604

FINISHED WATER AND RAW WATER QUALITY AND QUANTITY

SUBPART A: BACTERIOLOGICAL QUALITY

| | |
|---------|------------------------------|
| Section | |
| 604.101 | Standard Sample |
| 604.102 | Total Coliform Limits |
| 604.103 | Total Coliform Check Samples |
| 604.104 | Bacterial Plate Count Sample |
| 604.105 | Bacterial Plate Count Limits |

SUBPART B: CHEMICAL AND PHYSICAL QUALITY

| | |
|---------|--|
| Section | |
| 604.201 | Finished Water Quality |
| 604.202 | Contaminants and Maximum Allowable Concentrations |
| 604.203 | Exceptions to Maximum Allowable Concentrations |
| 604.204 | Action Pursuant to Exceedance of Maximum Allowable Concentration |

SUBPART C: RADIOLOGICAL QUALITY

| | |
|---------|---|
| Section | |
| 604.301 | Radium-226, -228, and Gross Alpha Particle Activity |
| 604.302 | Man-Made Radioactivity |
| 604.303 | Determining Maximum Allowable Concentrations |

SUBPART D: CHLORINATION AND FLUORIDATION

| | |
|---------|---|
| Section | |
| 604.401 | Chlorination Requirement |
| 604.402 | Chlorination Exemption Requirements |
| 604.403 | Conditions for Obtaining a Written Chlorination Exemption |
| 604.404 | Loss of Chlorination Exemption |
| 604.405 | Fluoridation Requirement |

SUBPART E: RAW WATER

| | |
|---------|--------------------|
| Section | |
| 604.501 | Raw Water Quality |
| 604.502 | Raw Water Quantity |

Appendix References to Former Rules

AUTHORITY: Implementing Section 17 and authorized by Section 27 of the Environmental Protection Act (H. Res. Stat. 1981, ch. 111:1-2, para. 1017 and 1027).

SOURCE: Filed with Secretary of State January 1, 1978, amended at 2 Ill. Reg. 36, p. 72, effective August 30, 1978, amended at 3 Ill. Reg. 13, p. 236, effective March 30, 1979, amended and codified at 6 Ill. Reg. 11497, effective September 14, 1982, amended at 6 Ill. Reg. 14344, effective November 3, 1982.

SUBPART A: BACTERIOLOGICAL QUALITY

Section 604.101 Standard Sample

- For the membrane filter technique: not less than 100 milliliters.
- For the fermentation tube method: five standard portions of either ten milliliters or 100 milliliters.

Section 604.102 Total Coliform Limits

The number of organisms of the coliform group present in the water as indicated by representative samples examined shall not exceed the following limits:

- When the membrane filter technique is used, arithmetic mean coliform density of all standard samples examined per month shall not exceed one per 100 milliliters; the coliform colonies per standard sample shall not exceed four per 100 milliliters in:
 - more than one standard sample when less than twenty are examined per month; or
 - more than five percent of the standard samples when twenty or more are examined per month.
- When ten milliliter standard portions are examined by the fermentation tube method, not more than ten percent in any month shall show the presence of the coliform group. The presence of the coliform group in three or more ten milliliter portions of a standard sample shall not be allowable if this occurs in:
 - more than one sample per month when less than twenty are examined per month; or
 - more than five percent of the samples when twenty or more are examined per month.
- When 100 milliliter standard portions are examined by the fermentation tube method, not more than sixty percent in any month shall show the presence of the coliform group. The presence of the coliform group in five of the 100 milliliter portions of a standard sample shall not be allowable if this occurs in:
 - more than one sample per month when less than five are examined per month; or
 - more than twenty percent of the samples when five or more are examined per month.

Section 604.103 Total Coliform Check Samples

- When coliform densities exceed the limit established in Section 604.102, they shall indicate a breakdown in the protective barriers and shall be cause for special investigation to locate and eliminate the cause of contamination.
- Check samples may be taken at the discretion of the Environmental Protection Agency (Agency) under the following conditions:
 - When coliform colonies in a single standard sample exceed four per 100 milliliters as measured by the membrane filter technique, daily samples shall be promptly collected and examined from the same sampling point until the results obtained from at least two consecutive samples show less than one coliform per 100 milliliters.
 - When organisms of the coliform group occur in three or more of the ten milliliter portions of a single standard sample (fermentation tube method), daily samples shall be promptly collected and examined from the same sampling point until the results obtained from at least two consecutive samples show no positive results.
 - When organisms of the coliform group occur in all five of the 100 milliliter portions of a single standard sample (fermentation tube method), daily samples shall be promptly collected and examined from the same sampling point until the results obtained

from at least two consecutive samples drawn under five tubes.

- c. The sampling point required to be checked samples may not be eliminated from future collections based on a history of questionable water quality. These check samples shall not be included in the total number of samples examined per month, nor shall the check samples be used as a basis for determining compliance with Section 604.102.

Section 604.104 Bacterial Plate Count Sample

When bacterial plate counts are considered by the Agency to be necessary, the sample for the bacterial plate count using Stated and Plate-Count Agar (35°C, 48 hours) shall consist of two portions of one milliliter and two portions of one tenth milliliter.

(Source: Amended at 3 Ill. Reg. 13, p. 226 effective March 30, 1979.)

Section 604.105 Bacterial Plate Count Limits

- a. The maximum number for the bacterial plate count in the water distributed to the consumer is 500 organisms per one milliliter based on arithmetic average of all samples examined in a calendar month. In determining compliance, these data shall be reported to two significant figures.
- b. When the average bacterial plate count is found to exceed 500 organisms per one milliliter either in portions of the distribution network or in finished water reservoir storage, the Agency shall determine if these bacterial counts require further action to be taken to protect the water consumers. Upon such findings, prompt attention shall be directed to the owner toward finding the cause and taking appropriate action for correction.

SUBPART B: CHEMICAL AND PHYSICAL QUALITY

Section 604.201 Finished Water Quality

- a. The finished water shall contain no impurities in concentrations that may be hazardous to the health of the consumer or excessively corrosive or otherwise deleterious to the water supply. Drinking water shall contain no impurity which could reasonably be expected to cause offense to the sense of sight, taste or smell.
- b. Substances used in treatment should not remain in the water in concentrations greater than required by good practice. Substances which may have a deleterious physiological effect, or for which physiological effects are not known, shall not be used in a manner that would permit them to reach the consumer.

Section 604.202 Contaminants and Maximum Allowable Concentrations

The concentration of substances in the finished water shall not exceed the limits listed, except as provided in Section 604.203.

| Substance | Reported As | Maximum Concentration mg/l |
|-----------|-------------|----------------------------|
| Arsenic | As | 0.05 |
| Barium | Ba | 1 |
| Cadmium | Cd | 0.010 |
| Chromium | Cr | 0.05 |
| Copper | Cu | 5 |
| Cyanide | CN | 0.2 |
| Fluoride | F | 1.6 |

| | | |
|---|-----|--------|
| Lead | Pb | 0.05 |
| Manganese | Mn | 0.05 |
| Mercury | Hg | 0.001 |
| Nitrate Nitrogen | N | 10 |
| Organics | | |
| Phenolics | | |
| Chlorinated Hydrocarbons (Insecticides) | | |
| Aldrin | | 0.001 |
| Chlordane | | 0.001 |
| DDT | | 0.01 |
| Dieldrin | | 0.001 |
| Endrin | | 0.0002 |
| Heptachlor | | 0.0001 |
| Heptachlor Epoxide | | 0.0001 |
| Lindane | | 0.004 |
| Methoxychlor | | 2 |
| Toxaphene | | 0.005 |
| Chlorophenols (Herbicides) | | |
| 2,4 Dichlorophenoxyacetic acid (2,4 D) | | 0.01 |
| 2,4,5 Trichlorophenoxypropionic acid (2,4,5 TP or Silvex) | | 0.1 |
| Total Trihalomethanes | | 0.10 |
| Selenium | Se | 0.01 |
| Silver | Ag | 0.05 |
| Turbidity | NTU | 1 |
| Zinc | Zn | 5 |

(Source: Amended at 6 Ill. Reg. 14344 effective November 3, 1982.)

Section 604.203 Exceptions to Maximum Allowable Concentrations

The following supplementary conditions apply to the concentrations listed in Section 604.202:

- a. Fluoride: Those counties of the State north of and including the counties of Henderson, McDonough, Fulton, Tazewell, McLean, Ford and Iroquois shall have a maximum allowable fluoride concentration of 2.0 mg/l.
- b. Iron and Manganese
- Community water supplies which serve a population of 1000 or less or 300 service connections or less shall be exempt from the standards for iron and manganese.
 - All other water supplies shall comply with these standards by July 1, 1981. Iron: a maximum of 0.3 mg/l and manganese: an excess of 0.15 mg/l may be allowed at the discretion of the Agency if sequestration, tried on an experimental basis, proves to be effective. If sequestration is not effective, positive iron or manganese reduction treatment, as applicable, must be provided. No experimental use of a sequestering agent may be tried without previous Agency approval.
- c. Nitrate Nitrogen: The provisions of Section 604.202 not withstanding, compliance with the maximum allowable concentration for nitrate shall be determined on the basis of the mean of two analyses. When a level exceeding the maximum allowable concentration for nitrate is found, a second analysis shall be initiated within 24 hours and if the mean of the two analyses exceeds the maximum allowable concentration, the owner or operator of the public water supply shall report his findings to the Agency pursuant to 35 Ill. Adm. Code 606.102 and shall notify the public pursuant to 35 Ill. Adm. Code 606.
- d. Total Trihalomethanes
- The average of Total Trihalomethanes concentration in the finished water of four samples of any

that cumulative quantity per treatment point of per capita shall not exceed the limit listed in Section 604.202.

2. Supplies serving 10,000 or more individuals shall comply with the Total Trihalomethanes standard listed in Section 604.202 by the effective date of these regulations. Supplies serving 10,000 to 74,999 individuals shall comply with this standard by November 5, 1993. This standard does not apply to supplies serving less than 10,000 individuals.

3. If the average of samples covering any twelve month period exceeds the Maximum Allowable Concentration for Total Trihalomethanes, as listed in Section 604.202, the owner or operator of the supply shall notify the Agency pursuant to Section 606.102 and give notice to the public pursuant to Sections 606.201, 606.205 of these Rules. Monitoring after public notification shall be at the frequency required by Section 606.104.

c) Turbidity

1. Turbidity in drinking water shall not exceed one turbidity unit at a point where water enters the distribution system unless it can be demonstrated that a higher turbidity not exceeding 5 Nephelometric Turbidity Units (NTU) does not

- A) interfere with disinfection, or
- B) cause tastes and odors upon disinfection, or
- C) prevent the maintenance of an effective disinfection agent throughout the distribution system, or
- D) result in deposits in the distribution system, or
- E) cause customers to question the safety of their drinking water.

2. The provisions of Section 604.204 notwithstanding, if a turbidity measurement exceeds the maximum allowable concentration, a sample must be taken as soon as practicable and preferably within one hour. If the check sample confirms that the standard has been exceeded, the Agency must be notified within 48 hours. The value of the check sample shall be the value used in calculating the monthly average. If the monthly average of the daily samples taken in accordance with 35 Ill. Adm. Code 605.109 exceeds the maximum allowable concentration, or if the average of two samples taken on consecutive days exceeds 5 NTU, the owner or operator of the public water supply shall report to the Agency and notify the public as directed in 35 Ill. Adm. Code 606.

(Source: Amended at 6 Ill. Reg. 14344 effective November 3, 1982)

Section 604.204 Action Pursuant to Exceedance of Maximum Allowable Concentration

If the result of an analysis made pursuant to these Rules indicates that the level of any contaminant listed in Section 604.202 exceeds the maximum allowable concentration allowed by this subpart, the owner or operator of the supply shall:

- a) report to the Agency within seven days and initiate three additional analyses at the same sampling point within one month,
- b) notify the Agency and give notice to the public pursuant to 35 Ill. Adm. Code 606 when the average of four

analyses exceeds the same number of significant figures as the maximum allowable concentration for the substance in question, exceeds the maximum allowable concentration, and

monitor after public notification at a frequency designated by the Agency and continue monitoring until the maximum allowable concentration has not been exceeded in two successive samples or until a monitoring schedule as a condition to a variance or enforcement action becomes effective.

SUBPART C: RADIOLOGICAL QUALITY

Section 604.301 Radium - 226, 228 and Gross Alpha Particle Activity

The following are the maximum allowable concentrations for radium 226, radium 228, and gross alpha particle radioactivity in community water supplies:

- a) Combined radium 226 and radium 228: 5 pCi/l
- b) Gross alpha particle activity (including radium 226, but excluding radon and uranium): 15 pCi/l

(Source: Amended at 2 Ill. Reg. 30 p. 72 effective August 29, 1978)

Section 604.302 Man-Made Radioactivity

The following are the maximum allowable concentrations for beta particle and photon radioactivity from man-made radionuclides in community water systems:

- a) The average annual concentration of beta particle and photon radioactivity from man-made radionuclides in drinking water shall not produce an annual dose equivalent to the total body or any internal organ greater than 4 millirem/year.
- b) Except for the radionuclides listed in subsection c, the concentration of man-made radionuclides causing 4 millirem total body or organ dose equivalents shall be calculated on the basis of a 2 liter per day drinking water intake using the 168 hour data listed in "Maximum Permissible Body Burdens and Maximum Permissible Concentration of Radionuclides in Air or Water for Occupational Exposure" National Bureau of Standards Handbook 69 as amended August 1963 U.S. Department of Commerce. If two or more radionuclides are present, the sum of their annual dose equivalent to the total body or to any organ shall not exceed 4 millirem/year.
- c) Average Annual Concentrations Assumed To Produce A Total Body or Organ Dose of 4 mREM/Yr:

| Radionuclide | Critical Organ | pCi per liter |
|--------------|----------------|---------------|
| Tritium | Total Body | 20,000 |
| Strontium 90 | Bone Marrow | 6 |

(Source: Amended at 2 Ill. Reg. 36 p. 72 effective August 29, 1978)

Section 604.303 Determining Maximum Allowable Concentrations

To judge compliance with the maximum allowable concentrations listed in this subpart, averages of data shall be used and shall be rounded to the same number of significant figures as the maximum allowable concentration for the substance in question.

(Source: Amended at 2 Ill. Reg. 36 p. 72 effective August 29, 1978)

SUBPART D. CHLORINATION AND FLUORIDATION

Section 604.401 Chlorination Requirement

All supplies, except those community water supplies exempted in this subpart shall chlorinate the water before it enters the distribution system.

- All supplies which are required to chlorinate shall maintain residuals of free or combined chlorine at levels sufficient to provide adequate protection.
- The Agency may set levels and promulgate procedures for chlorination.
- Supplies now in operation must comply with this rule immediately except that community water supplies which were under the jurisdiction of the Illinois Department of Public Health prior to January 1, 1982, and which were not required to chlorinate under Public Health Rules and Regulations must comply by January 1, 1983. Any supply which is now in compliance or reaches compliance before that date must continue in compliance thereafter.
- Those supplies having hand-pumped wells and no distribution system are exempted from the requirements of this subpart.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 604.402 Chlorination Exemption Requirements

A community water supply shall be exempt from the chlorination requirement provided:

- The community water supply obtains all of its water from a supply under the jurisdiction of the Agency which does chlorinate and maintains records which demonstrate that the water in all active parts of its distribution system has an adequate chlorine residual.
- the community water supply has a written exemption from the requirement to chlorinate pursuant to Section 604.403.

(Source Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 604.403 Conditions for Obtaining a Written Chlorination Exemption

To obtain that exemption the community water supply must apply to the Agency in writing and meet all of the following conditions:

- Pumps not more than 100 gallons of water per capita per day, averaged annually.
- Has no more than three miles of distribution piping for delivery of water to consumers.
- Has as its only source of raw water one or more properly constructed wells into confined geological formations not subject to contamination.
- Has no history of persistent or recurring contamination, as indicated by sampling results which show violations of finished water quality requirements for the most recent five-year period.
- Does not provide any raw water treatment other than fluoridation.

Has an active program approved by the Agency to promote educational efforts to consumers in preventing the entry of contaminants into the water system.

Has a certified operator of the proper class or if it is a public water supply which is exempt from having a certified operator has a registered person in responsible charge of the operation of the supply; and

Submits samples for bacteriological analysis in accordance with 95 Ill. Admin. Code 606.101(a) and (b).

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 604.404 Loss of Chlorination Exemption

Any community water supply which fails to continuously meet the exemption conditions applicable to that supply shall lose its exemption, shall immediately start chlorinating and shall continue to do so until the requirements stated in Sections 604.401 or 604.403 are again met and written Agency approval of the exemption application is again granted.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 604.405 Fluoridation Requirement

All supplies which are required to add fluoride to the water shall maintain a fluoride ion concentration reported as F of 0.4 to 1.2 mg/l in its distribution system, as required by Section 7-1 of the Act to provide for safeguarding the public health by venting certain measures of control and supervision to the Department of Public Health over Public Water Supplies in the State, approved and effective August 6, 1951 as amended Ill. Rev. Stat. 1981 ch. 131.1/2 par. 111(g).

SUBPART E. RAW WATER

Section 604.501 Raw Water Quality

- Each supply must take its raw water from the best available source which is economically reasonable and technically possible.
- Use of recycled sewage treatment plant effluent on a routine basis shall not be permitted.
- The twelve month running geometric means of fecal coliform and total coliform densities in raw water sources shall not exceed 2,000 per 100 ml and 20,000 per 100 ml respectively, without specific approval of the Agency.
- Each owner or operator of a supply owning and/or controlling a supply's water source shall take all reasonable actions for the protection of that source from contamination.
- Each community water supply exempted from the chlorination requirement pursuant to Section 604.403 shall obtain water only from wells drilled into confined geologic formations not subject to contamination.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 604.502 - Raw Water Quantity

- a) Surface Supply - The quantity of surface water at the source shall be adequate to supply the total water demand of a community from that source as well as a reasonable surplus for anticipated growth.
- b) Groundwater Supply - The quantity of ground water from the source of supply shall be adequate to supply the total water demand of that public water supply as well as a reasonable surplus for anticipated growth, without excessive depletion of the aquifer.
- c) In determining adequacy of supply for compliance with this Section, each individual source of supply shall be considered in relation to the percentage of the total requirements it is expected to provide.

Appendix References to Former Rules

The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.

Chapter 6: Public Water Supplies 33 Ill. Adm. Code Part III: Operation and Maintenance Part 604

| | |
|-----------------------------|-----------------|
| Rule 304(A)(1) | Section 604.101 |
| Rule 304(A)(2) | Section 604.102 |
| Rule 304(A)(3) | Section 604.103 |
| Rule 304(A)(4) | Section 604.104 |
| Rule 304(A)(5) | Section 604.105 |
| Rule 304(B) | Section 604.201 |
| Rule 304 (Table I) | Section 604.202 |
| Rule 304 (Table I) Notes | Section 604.203 |
| Rule 304(B)(2) | Section 604.204 |
| Rule 304(C)(1) | Section 604.301 |
| Rule 304(C)(2) and Table II | Section 604.302 |
| Rule 304(C)(3) | Section 604.303 |
| Rule 305 | Section 604.401 |
| New | Section 604.402 |
| New | Section 604.403 |
| New | Section 604.404 |
| Rule 306 | Section 604.405 |
| Rule 307 | Section 604.501 |
| Rule 308 | Section 604.502 |

TITLE 15 ENVIRONMENTAL PROTECTION

SUBTITLE F PUBLIC WATER SUPPLIES

CHAPTER I POLLUTION CONTROL BOARD

PART 605
SAMPLING AND MONITORING

| | |
|---------|---|
| Section | |
| 605.101 | Frequency of Bacteriological Sampling |
| 605.102 | Minimum Allowable Monthly Samples for Bacteriological Analysis |
| 605.103 | Frequency of Chemical Analysis Sampling |
| 605.104 | Frequency of Trihalomethane Analysis Sampling |
| 605.105 | Monitoring Requirements for Radium-226, -228, and Gross Alpha Particle Activity |
| 605.106 | Monitoring Frequency for Radium-226, -228, and Gross Alpha Particle Activity |
| 605.107 | Monitoring Requirements for Man-Made Radioactivity |
| 605.108 | Monitoring Frequency for Man-Made Radioactivity |
| 605.109 | Surface Water Supplies Additional Monitoring Requirements |
| 605.110 | Modification of Monitoring Requirements |

Appendix References to Former Rules

AUTHORITY Implementing Section 17 and authorized by Section 27 of the Environmental Protection Act, Chapter 130, § 17, 12, parts 1017 and 1027

SOURCE Filed with Secretary of State January 2, 1978, amended at 2 Ill. Reg. 36, p. 72 effective August 29, 1978, amended and modified at 6 Ill. Reg. 11497, effective September 14, 1982, amended at 6 Ill. Reg. 14344, effective November 2, 1982

Section 605.101 Frequency of Bacteriological Sampling

- a) Representative samples of the finished water from the distribution system are to be submitted monthly by each supply owner, official custodian, or his authorized personnel to a certified laboratory for bacteriological analysis
- The minimum number of samples to be submitted monthly is dependent upon the population served as shown in Section 605.102.
 - A greater number of samples may be required by the Environmental Protection Agency or Agency to be analyzed each month.
- b) The owner, official custodian, or authorized personnel of any community water supply which is exempt from chlorination pursuant to 35 Ill. Adm. Code 604.403 shall submit samples to a certified laboratory for bacteriological analysis at least twice a month. Each submission shall consist of the minimum number of samples shown in Section 605.102 plus raw water samples of a sufficient number to assure that each active well is sampled at least monthly.
- c) It shall be the responsibility of the supply to have the analyses performed either at its own certified laboratory or at any other certified laboratory. The Agency may require that some or all of the monthly samples be submitted to its laboratories.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 605.102 Minimum Allowable Monthly Samples for Bacteriological Analysis

| Population Served | Minimum Number of Samples Per Month |
|--------------------|-------------------------------------|
| 25 to 100 | 1 |
| 101 to 2,500 | 2 |
| 2,501 to 3,300 | 3 |
| 3,301 to 4,100 | 4 |
| 4,101 to 4,900 | 5 |
| 4,901 to 5,800 | 6 |
| 5,801 to 6,700 | 7 |
| 6,701 to 7,600 | 8 |
| 7,601 to 8,500 | 9 |
| 8,501 to 9,400 | 10 |
| 9,401 to 10,300 | 11 |
| 10,301 to 11,100 | 12 |
| 11,101 to 12,000 | 13 |
| 12,001 to 12,900 | 14 |
| 12,901 to 13,700 | 15 |
| 13,701 to 14,600 | 16 |
| 14,601 to 15,500 | 17 |
| 15,501 to 16,300 | 18 |
| 16,301 to 17,200 | 19 |
| 17,201 to 18,100 | 20 |
| 18,101 to 18,900 | 21 |
| 18,901 to 19,800 | 22 |
| 19,801 to 20,700 | 23 |
| 20,701 to 21,500 | 24 |
| 21,501 to 22,300 | 25 |
| 22,301 to 23,200 | 26 |
| 23,201 to 24,000 | 27 |
| 24,001 to 24,900 | 28 |
| 24,901 to 25,800 | 29 |
| 25,801 to 26,700 | 30 |
| 26,701 to 27,600 | 31 |
| 27,601 to 28,500 | 32 |
| 28,501 to 29,400 | 33 |
| 29,401 to 30,300 | 34 |
| 30,301 to 31,200 | 35 |
| 31,201 to 32,100 | 36 |
| 32,101 to 33,000 | 37 |
| 33,001 to 33,900 | 38 |
| 33,901 to 34,800 | 39 |
| 34,801 to 35,700 | 40 |
| 35,701 to 36,600 | 41 |
| 36,601 to 37,500 | 42 |
| 37,501 to 38,400 | 43 |
| 38,401 to 39,300 | 44 |
| 39,301 to 40,200 | 45 |
| 40,201 to 41,100 | 46 |
| 41,101 to 42,000 | 47 |
| 42,001 to 42,900 | 48 |
| 42,901 to 43,800 | 49 |
| 43,801 to 44,700 | 50 |
| 44,701 to 45,600 | 51 |
| 45,601 to 46,500 | 52 |
| 46,501 to 47,400 | 53 |
| 47,401 to 48,300 | 54 |
| 48,301 to 49,200 | 55 |
| 49,201 to 50,100 | 56 |
| 50,101 to 51,000 | 57 |
| 51,001 to 51,900 | 58 |
| 51,901 to 52,800 | 59 |
| 52,801 to 53,700 | 60 |
| 53,701 to 54,600 | 61 |
| 54,601 to 55,500 | 62 |
| 55,501 to 56,400 | 63 |
| 56,401 to 57,300 | 64 |
| 57,301 to 58,200 | 65 |
| 58,201 to 59,100 | 66 |
| 59,101 to 60,000 | 67 |
| 60,001 to 60,900 | 68 |
| 60,901 to 61,800 | 69 |
| 61,801 to 62,700 | 70 |
| 62,701 to 63,600 | 71 |
| 63,601 to 64,500 | 72 |
| 64,501 to 65,400 | 73 |
| 65,401 to 66,300 | 74 |
| 66,301 to 67,200 | 75 |
| 67,201 to 68,100 | 76 |
| 68,101 to 69,000 | 77 |
| 69,001 to 69,900 | 78 |
| 69,901 to 70,800 | 79 |
| 70,801 to 71,700 | 80 |
| 71,701 to 72,600 | 81 |
| 72,601 to 73,500 | 82 |
| 73,501 to 74,400 | 83 |
| 74,401 to 75,300 | 84 |
| 75,301 to 76,200 | 85 |
| 76,201 to 77,100 | 86 |
| 77,101 to 78,000 | 87 |
| 78,001 to 78,900 | 88 |
| 78,901 to 79,800 | 89 |
| 79,801 to 80,700 | 90 |
| 80,701 to 81,600 | 91 |
| 81,601 to 82,500 | 92 |
| 82,501 to 83,400 | 93 |
| 83,401 to 84,300 | 94 |
| 84,301 to 85,200 | 95 |
| 85,201 to 86,100 | 96 |
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| 87,001 to 87,900 | 98 |
| 87,901 to 88,800 | 99 |
| 88,801 to 89,700 | 100 |
| 89,701 to 90,600 | 101 |
| 90,601 to 91,500 | 102 |
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| 92,401 to 93,300 | 104 |
| 93,301 to 94,200 | 105 |
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| 137,401 to 138,300 | 154 |
| 138,301 to 139,200 | 155 |
| 139,201 to 140,100 | 156 |
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| 141,901 to 142,800 | 159 |
| 142,801 to 143,700 | 160 |
| 143,701 to 144,600 | 161 |
| 144,601 to 145,500 | 162 |
| 145,501 to 146,400 | 163 |
| 146,401 to 147,300 | 164 |
| 147,301 to 148,200 | 165 |
| 148,201 to 149,100 | 166 |
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| 166,201 to 167,100 | 186 |
| 167,101 to 168,000 | 187 |
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| 285,901 to 286,800 | 319 |
| 286,801 to 287,700 | 320 |
| 287,701 to 288,600 | 321 |
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| 289,501 to 290,400 | 323 |
| 290,401 to 291,300 | 324 |
| 291,301 to 292,200 | 325 |
| 292,201 to 293,100 | 326 |
| 293,101 to 294,000 | 327 |
| 294,001 to 294,900 | 328 |
| 294,901 to 295,800 | 329 |
| 295,801 to 296,700 | 330 |
| 296,701 to 297,600 | 331 |
| 297,601 to 298,500 | 332 |
| 298,501 to 299,400 | 333 |
| 299,401 to 300,300 | 334 |
| 300,301 to 301,200 | 335 |
| 301,201 to 302,100 | 336 |
| 302,101 to 303,000 | 337 |
| 303,001 to 303,900 | 338 |
| 303,901 to 304,800 | 339 |
| 304,801 to 305,700 | 340 |
| 305,701 to 306,600 | 341 |
| 306,601 to 307,500 | 342 |
| 307,501 to 308,400 | 343 |
| 308,401 to 309,300 | 344 |
| 309,301 to 310,200 | 345 |
| 310,201 to 311,100 | 346 |
| 311,101 to 312,000 | 347 |
| 312,001 to 312,900 | 348 |
| 312,901 to 313,800 | 349 |
| 313,801 to 314,700 | 350 |
| 314,701 to 315,600 | 351 |
| 315,601 to 316,500 | 352 |
| 316,501 to 317,400 | 353 |
| 317,401 to 318,300 | 354 |
| 318,301 to 319,200 | 355 |
| 319,201 to 320,100 | 356 |
| 320,101 to 321,000 | 357 |
| 321,001 to 321,900 | 358 |
| 321,901 to 322,800 | 359 |
| 322,801 to 323,700 | 360 |
| 323,701 to 324,600 | 361 |
| 324,601 to 325,500 | 362 |
| 325,501 to 326,400 | 363 |
| 326,401 to 327,300 | 364 |
| 327,301 to 328,200 | 365 |
| 328,201 to 329,100 | 366 |
| 329,101 to 330,000 | 367 |
| 330,001 to 330,900 | 368 |
| 330,901 to 331,800 | 369 |
| 331,801 to 332,700 | 370 |
| 332,701 to 333,600 | 371 |
| 333,601 to 334,500 | 372 |
| 334,501 to 335,400 | 373 |
| 335,401 to 336,300 | 374 |
| 336,301 to 337,200 | 375 |
| 337,201 to 338,100 | 376 |
| 338,101 to 339,000 | 377 |
| 339,001 to 339,900 | 378 |
| 339,901 to 340,800 | 379 |
| 340,801 to 341,700 | 380 |
| 341,701 to 342,600 | 381 |
| 342,601 to 343,500 | 382 |
| 343,501 to 344,400 | 383 |
| 344,401 to 345,300 | 384 |
| 345,301 to 346,200 | 385 |
| 346,201 to | |

| | |
|------------------------|-----|
| 2,600,001 to 2,700,000 | 370 |
| 2,700,001 to 2,800,000 | 380 |
| 2,800,001 to 2,900,000 | 390 |
| 2,900,001 to 3,000,000 | 400 |
| 3,000,001 to 3,100,000 | 410 |
| 3,100,001 to 3,200,000 | 420 |
| 3,200,001 to 3,300,000 | 430 |
| 3,300,001 to 3,400,000 | 440 |
| 3,400,001 to 3,500,000 | 450 |
| 3,500,001 to 3,600,000 | 460 |
| 3,600,001 to 3,700,000 | 470 |
| 3,700,001 to 3,800,000 | 480 |
| 3,800,001 to 3,900,000 | 490 |
| 3,900,001 to 4,000,000 | 500 |
| 4,000,001 or more | 500 |

Source: Amended at 6 Ill. Reg. 1149, effective September 14, 1982.

Section 605.103 Frequency of Chemical Analysis Sampling

A minimum of one representative sample each of the raw and finished water is to be submitted every year to the Agency's laboratory for chemical analysis from community water supplies which utilize a surface water source. Community water supplies which utilize a ground water source are to submit finished water samples to the Agency for analysis at least every three years. Sampling for specific parameters may be required by the Agency more frequently whenever there is reason to believe that these parameters are or may be in excess of the limits listed in 35 Ill. Adm. Code 604.202 and 604.203, or if the presence of other dangerous or potentially dangerous substances is suspected.

Source: Amended at 6 Ill. Reg. 1149, effective September 14, 1982.

Section 605.104 Frequency of Trihalomethane Analysis Sampling

a. Surface Water Sources. Supplies serving over 10,000 individuals shall submit at least four samples per treatment plant per quarter for analysis of individual results from a certified laboratory for Total Trihalomethanes to the Agency. After results of four consecutive quarters demonstrate consistent Total Trihalomethanes concentrations below the Maximum Allowable Concentration, and upon written application by the supply, the Agency may reduce the sample frequency to one sample per quarter until the Maximum Allowable Concentration is exceeded or until a significant change in source or treatment method is made.

b. Ground Water Sources. Supplies serving 10,000 individuals or more shall submit at least one sample per treatment plant for MTP analysis. After written request by the supply and the determination by the Agency that the results of the sample and local conditions indicate that the supply is not likely to approach or exceed the Maximum Allowable Concentration, the supply shall continue to submit one annual sample per treatment plant, or report of analysis by a certified laboratory to the Agency. If the sample exceeds the Maximum Allowable Concentration or cannot be analyzed for MTP, the supply shall submit samples in accordance with Section 605.104a.

c. Significant changes in water sources or treatment will require testing in accordance with Section 605.104a.

d. If the result of an analysis made pursuant to the reduced monitoring schedules provided by Section 605.104a indicates that the level of Total Trihalomethanes exceeds the Maximum Allowable Concentration listed in Section 604.202, the owner or operator of the supply shall initiate analysis of one check sample promptly after the exceedance is reported to the supply. If the check sam-

Section 605.105 Monitoring Requirements for Radium 226, 228 and Gross Alpha Particle Activity

- Compliance with 35 Ill. Adm. Code 604.301 shall be based on the analysis of an annual composite of quarterly samples or the average of the analyses of four samples obtained at quarterly intervals.
- A gross alpha particle activity measurement may be substituted for the required radium 226 and radium 228 analysis, provided that the measured gross alpha particle activity does not exceed 2 pCi/l with a confidence level of 95 percent. 1.00 alpha where alpha is the standard deviation of the net counting rate of the sample. The standard where radium activity may be present in drinking water, radium 226 and radium 228, may be substituted for the Agency when the gross alpha particle activity exceeds 2 pCi.
- When the gross alpha particle activity exceeds the same as in paragraph (b), radium 226 and radium 228 analysis shall be required. The same analysis shall be required if the sample analyzed for radium 226.
- A supply using two or more sources of surface water concentrations of radium activity shall monitor source water in addition to water from a single source when required by the Agency.

Source: Renumbered from Section 605.104 and amended at 6 Ill. Reg. 1144, effective November 3, 1982.

Section 605.106 Monitoring Frequency for Radium 226, 228 and Gross Alpha Particle Activity

Suppliers of water shall monitor at least once every four years. When an annual record taken in conformity with Section 605.105 has established that the average annual concentration is less than half the maximum contaminant levels established by 35 Ill. Adm. Code 604.301, analysis of a single sample may be substituted for the quarterly sampling procedure required by Section 605.105.

- More frequent monitoring shall be undertaken when required by the Agency in the vicinity of mining or other operations.
- Monitoring for compliance with radium 226 levels need be done only in the initial test of each source and when specifically requested by the Agency, provided that the average annual concentration of radium 226 has been assayed at least once using the quarterly sampling procedure required by Section 605.104a.
- Owners and operators of supplies shall conduct annual monitoring of any community water system in which the radium 226 concentration exceeds 3 pCi/l except when specifically exempted by the Agency.
- Monitoring at quarterly intervals shall be continued until the annual average concentration no longer exceeds the maximum contaminant level or until a monitoring schedule as a condition to a variance exemption or enforcement action shall become effective.

- If the average annual maximum allowable concentration for gross alpha particle activity in total radon is exceeded, the owner or operator of a community water supply shall give notice to the Agency and notify the public as required by 35 Ill. Adm. Code 604.

(Source: Renumbered from Section 605.106 and amended at 6 Ill. Reg. 14344 effective November 3, 1982.)

Section 605.107 Monitoring Requirements for Man-Made Radioactivity

- a. Community water supplies using surface water sources and serving more than 100,000 persons and such other community water supplies as are designated by the Agency shall be monitored for compliance with 35 Ill. Adm. Code 604.302 by analysis of a composite of four consecutive quarterly samples or analysis of four quarterly samples.
- 1. Compliance with 35 Ill. Adm. Code 604.302 may be assumed without further analysis if the average annual concentrations of tritium and effluent 90 are less than those listed in 35 Ill. Adm. Code 604.302(a) provided that if both radionuclides are present, the sum of their annual dose equivalents to bone marrow shall not exceed 4 millirem/year.
- 2. If the gross beta particle activity exceeds 50 pCi/l, an analysis of the sample must be performed to identify the major radioactive constituents present and the appropriate organ and total body doses shall be calculated to determine compliance with 35 Ill. Adm. Code 604.302.
- b. Supplies shall conduct additional monitoring as required by the Agency to determine the concentration of man-made radioactivity in principal watersheds designated by the Agency.
- c. At the discretion of the Agency, supplies utilizing only ground waters may be required to monitor for man-made radioactivity.

(Source: Renumbered from Section 605.106 at 6 Ill. Reg. 14344 effective November 3, 1982.)

Section 605.108 Monitoring Frequency for Man-Made Radioactivity

- a. Supplies shall monitor for beta activity at least every four years.
- b. Any community water supply designated by the Agency as utilizing water contaminated by effluents from nuclear facilities shall initiate quarterly monitoring for gross beta particle and iodine-131 radioactivity and annual monitoring for strontium-90 and tritium.
- c. Quarterly monitoring for gross beta particle activity shall be based on the analysis of monthly samples or the analysis of a composite of three monthly samples. If the gross beta particle activity in a sample exceeds 15 pCi/l, the same or an equivalent sample shall be analyzed for strontium-90 and cesium-134. If the gross beta particle activity exceeds 50 pCi/l, an analysis of the sample must be performed to identify the major radioactive constituents present and the appropriate organ and total body doses shall be calculated to determine compliance with 35 Ill. Adm. Code 604.302(c).
- d. For iodine-131, a composite of five consecutive daily samples shall be analyzed once each quarter. If required by the Agency, more frequent monitoring shall be conducted when iodine-131 is identified in the finished water.

Annual monitoring for strontium-90 and cesium-134 shall be conducted by the Agency or the owner of a community water supply.

The Agency may allow the substitution of environmental surveillance data taken in conjunction with a nuclear facility for direct monitoring of man-made radioactivity by the community water supply where the Agency determines such data is applicable to that particular community water supply.

- e. If the average annual maximum allowable concentration for man-made radioactivity set forth in 35 Ill. Adm. Code 604.302 is exceeded, monitoring at monthly intervals shall continue until the concentration no longer exceeds the maximum allowable concentration or, until, a monitoring schedule as a condition to a variance or enforcement action shall become effective.
- f. If the average annual maximum allowable concentration for man-made radioactivity set forth in 35 Ill. Adm. Code 604.302 is exceeded, the owner or official custodian of a community water supply shall give notice to the Agency and to the public as required by 35 Ill. Adm. Code 604.

(Source: Renumbered from Section 605.106 at 6 Ill. Reg. 14344 effective November 3, 1982.)

Section 605.109 Surface Water Supplies Additional Monitoring Requirements

Owners or official custodians of community water supplies utilizing surface water sources shall ensure:

- a. that finished water samples are taken at a representative entry point to the distribution system at least once per day; and
- b. that a turbidity analysis is performed on each of the samples immediately. The analysis of the samples shall be done by an individual who has been approved by the Agency as qualified to make this analysis.

(Source: Renumbered from 605.106 at 6 Ill. Reg. 14344 effective November 3, 1982.)

Section 605.110 Modification of Monitoring Requirements

When a supply provides water to one or more other supplies, the Agency may modify the monitoring requirements imposed by this rule to the extent that the interconnection of the supplies justifies treating them as a single supply for monitoring purposes. Any modified monitoring shall be conducted pursuant to a schedule specified by the Agency.

(Source: Renumbered from Section 605.109 at 6 Ill. Reg. 14344 effective November 3, 1982.)

Appendix References to Former Rules

The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.

Chapter 6: Public Water Supplies 35 Ill. Adm. Code Part III: Operation and Maintenance Part 605

| | |
|----------------------|-----------------|
| Rule 309(A) | Section 605.101 |
| Rule 309 (Table III) | Section 605.102 |
| Rule 309(B) | Section 605.103 |
| Rule 309(C)(1)(a) | Section 605.105 |
| Rule 309(C)(1)(b) | Section 605.106 |
| Rule 309(C)(2)(a) | Section 605.107 |
| Rule 309(C)(2)(b) | Section 605.108 |
| Rule 309(D) | Section 605.109 |
| Rule 309(E) | Section 605.110 |

(Source: Amended at 6 Ill. Reg. 14344, effective November 3, 1982.)

TITLE 35 ENVIRONMENTAL PROTECTION

SUBTITLE F PUBLIC WATER SUPPLIES

CHAPTER I POLLUTION CONTROL BOARD

PART 606

REPORTING AND PUBLIC NOTIFICATION

SUBPART A REPORTING

| | |
|-----------------|---------------------------|
| Section 606.101 | Monthly Operating Reports |
| 606.102 | Reporting Requirements |
| 606.103 | Signatory Requirement |

SUBPART B PUBLIC NOTIFICATION

| | |
|-----------------|---|
| Section 606.201 | Public Notice Required to Persons Served |
| 606.202 | Public Notice Required to Public in General |
| 606.203 | Additional Public Notice |
| 606.204 | Form of Public Notice |
| 606.205 | Agency Issues Public Notice |

Appendix References to Former Rules

AUTHORITY Implementing Section 17 and authorized by Section 25 of the Environmental Protection Act (11 Reg. Stat. 1964, ch. 111, 102, parts 1017 and 1027).

SOURCE Filed with Secretary of State January 1, 1976, amended at 2 Ill. Reg. 36, p. 72 effective August 29, 1976, amended at 3 Ill. Reg. 13, p. 236 effective March 30, 1979, amended and codified at 6 Ill. Reg. 11497 effective September 14, 1982, amended at 6 Ill. Reg. 14344 effective November 3, 1982.

SUBPART A REPORTING

Section 606.101 Monthly Operating Reports

Monthly reports shall be submitted to the Environmental Protection Agency (Agency) by all supplies within 30 days following the last day of each month, on forms provided or approved by the Agency.

(Source Amended at 2 Ill. Reg. 36, p. 72 effective August 29, 1976)

Section 606.102 Reporting Requirements

- Except where a shorter reporting period is specified in this Chapter or by the Agency, the owner, operator or registered person in responsible charge of a supply shall report to the Agency within 40 days following a test, measurement or analysis required to be made by this Chapter, the results of that test, measurement or analysis.
- The owner, operator or registered person in responsible charge of a supply shall report to the Agency within 48 hours the failure to comply with any requirement (including failure to comply with monitoring requirements) set forth in this Chapter.
- The owner, operator or registered person in responsible charge of a supply is not required to report analytical results to the Agency in cases where an Agency laboratory performs the analysis and reports the results to the Agency office which would normally receive such notification.
- The owner, operator or registered person in responsible charge of those community water supplies exempted from the chlorination requirement pursuant to 35 Ill. Adm. Code 604.403 shall report monthly to the Agency its activity to educate and inform its customers about

Section 606.103 Signatory Requirement

All official operating reports submitted to the Agency must be signed by the certified operator in responsible charge or the registered person in responsible charge.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982)

SUBPART B PUBLIC NOTIFICATION

Section 606.201 Public Notice Required to Persons Served

If a community water supply fails to comply with an applicable maximum allowable concentration established in 35 Ill. Adm. Code 604, fails to comply with an applicable testing procedure established in those Rules, is granted a variance from an applicable maximum allowable concentration, fails to comply with any requirement of any schedule prescribed pursuant to those Rules, the owner or official custodian of such supply shall notify persons served by the supply of the failure or grant by publication of a notice in the first set of water bills of the supply issued after the failure or grant and in any event by written notice within three months. Such notice shall be repeated at least once every three months so long as the supply's failure continues or the variance remains in effect. If the supply issues water bills more frequently than quarterly or does not issue water bills or cannot economically include the notice with the water bill, the notice shall be made by or supplemented by another written form of direct mail or hand delivery.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982)

Section 606.202 Public Notice Required to Public in General

If a community water supply has failed to comply with an applicable maximum allowable concentration, the owner or official custodian of such supply shall notify the public of such failure in addition to the notification required by Section 606.201 as follows:

- By publication on not less than three consecutive days in a newspaper or newspapers of general circulation in the area served by the supply. Such notice shall be completed within fourteen days after the owner or operator learns of the failure. If the area served by a community water supply is not served by a daily newspaper of general circulation, notification by newspaper required shall instead be given by publication on three consecutive weeks in a weekly newspaper of general circulation serving the area. If no weekly or daily newspaper of general circulation serves the area, notice shall be given by posting the notice in post offices within the area served by the supply.
- By furnishing a copy of the notice to the radio and television stations serving the area served by the supply. Such notice shall be furnished within seven days after the owner or operator learns of the failure.

(Source Amended at 6 Ill. Reg. 11497, effective September 14, 1982)

Section 606.203 Additional Public Notice

In any instance in which notification by mail is required by Section 606.201 but notification by newspaper or to radio or television stations is not required by Section 606.202, the Agency may

order, the owner or official custodian of the supply to provide notification by newspaper, and by radio and television stations when circumstances make these immediate or delayed notice appropriate to protect the public health. In cases of emergency, more expeditious means such as door-to-door notification by water supply personnel, police or others may be required by the Agency.

(Source: Amended at 2 Ill. Reg. 36, p. 72, effective August 29, 1978.)

Section 606.204 Form of Public Notice

Notices given pursuant to this Section shall be written in a manner reasonably designed to inform fully the users of the supply.

- a) The notice shall be conspicuous and shall not use unduly technical language, unduly small print or other methods which would frustrate the purpose of the notice.
- b) The notice shall disclose all material facts regarding the subject including the nature of the problem and when appropriate, a clear statement that a drinking water regulation has been violated and any preventive measures that should be taken by the public.
- c) Where appropriate, or where designated by the Agency, bilingual notice shall be given.
- d) Notices may include a balanced explanation of the significance or seriousness to the public health of the subject of the notice, a fair explanation of steps taken by the supply to correct any problem and the results of any additional sampling.

(Source: Amended at 2 Ill. Reg. 36, p. 72, effective August 29, 1978.)

Section 606.205 Agency Issued Public Notice

Notice to the public required by this subpart may be given by the Agency on behalf of the owner or official custodian of the supply.

(Source: Amended at 2 Ill. Reg. 36, p. 72, effective August 29, 1978.)

Appendix References to Former Rules

The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.

Chapter 6: Public Water Supplies 35 Ill. Adm. Code Part III: Operation and Maintenance Part 606

| | |
|---------------------------|-----------------|
| Rule 310(A) | Section 606.101 |
| Rule 310(B) | Section 606.102 |
| Rule 313(D)(1) | Section 606.201 |
| Rule 313(D)(2), (3) | Section 606.202 |
| Rule 313(D)(5) | Section 606.204 |
| Rule 313(D)(6) | Section 606.205 |
| Rule 313(D)(7) | Section 606.203 |

ENVIROMENTAL PROTECTION
 PUBLIC WATER SUPPLIES
 CHAPTER I POLLUTION CONTROL BOARD

PART 607
 OPERATION AND RECORD KEEPING

| | |
|----------|---|
| Section | |
| 607.101 | Protection During Repair Work |
| 607.102 | Disinfection Following Repair or Reconstruction |
| 607.103 | Emergency Operation |
| 607.104 | Cross Connections |
| 607.105 | Laboratory Testing Equipment |
| 607.106 | Record Maintenance |
| Appendix | References to Former Rules |

AUTHORITY Implementing Section 17 and Authorized by Section 27 of the Environmental Protection Act III Rev. Stat. 1991 ch. 111, 172, para. 1017 and 1025.

SOURCE Filed with Secretary of State January 1, 1974, amended and codified at 6 Ill. Reg. 11497 effective September 14, 1982.

Section 607.101 Protection During Repair Work

All supplies repaired, reconstructed or altered shall be adequate to protect to prevent contamination of the water at the source or in the system during such work.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 607.102 Disinfection Following Repair or Reconstruction

Any part of a supply which has been repaired, reconstructed or altered shall be satisfactorily disinfected before being put into operation. The disinfection procedure must be specifically approved by the Environmental Protection Agency. Upon receipt of such approval the supply may use the accepted disinfection procedure in the future, unless the Agency, for good cause, notifies the owner of a supply that such a procedure is no longer acceptable.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 607.103 Emergency Operation

a) Whenever contamination is determined to persist in a public water supply, as demonstrated by bacteriological analysis results, the owners or official custodians of the supply shall notify all consumers to boil all water used for drinking or culinary purposes until bacteriological samples demonstrate that the water is safe for domestic use, or until appropriate corrective action approved by the Agency is taken. If the owner or official custodian of the supply fails to take such action on his own or at the recommendation of the Agency, the Agency may issue a boil order directly to the consumers affected.

b) Any emergency which results in water pressures falling below twenty pounds per square inch on any portion of the distribution system shall be reason for immediate issuance of a boil order by the owner or official custodian of the supply to those consumers affected unless:

1) There is a historical record of adequate chlorine residual and approved turbidity levels in the general area affected covering at least twelve months readings.

...the supply system...

...the supply system...

Whenever the water in a supply is endangered by any reason including but not limited to leakage of hazardous substances, the Agency shall be notified immediately. The owner, official custodian or his authorized representative and the supply officials shall take appropriate action to protect the supply. The owner, official custodian or his authorized representative shall notify all consumers of appropriate action to protect themselves against any waterborne hazards. If the owner or official custodian of the supply fails to take such action on his own or at the recommendation of the Agency, the Agency shall notify directly the consumers affected.

Section 607.104 Cross Connections

a) No physical connection shall be permitted between the potable portion of a supply and any other water supply not of equal or better bacteriological and chemical quality as determined by inspection and analysis by the Agency, except as provided for in subsection d).

b) There shall be no arrangement or connection by which an unsafe substance may enter a supply.

c) Control of all cross connections to a supply is the responsibility of the owner or official custodian of the supply. If a privately owned water supply meets the applicable criteria, it may be connected to a water supply upon approval by the owner or official custodian and by the Agency. Where such connections are permitted it is the responsibility of the public water supply officials to assure submission from such privately owned water supply source or source samples and operating reports as required by 35 Ill. Adm. Code 605 and 606 as applicable to the cross connected source.

d) The Agency may adopt specific conditions for control of unsafe cross connections which shall be complied with by the supplies of this State as applicable. These conditions shall be adopted and/or changed by the Agency as prescribed in 35 Ill. Adm. Code 602.115.

e) Each community water supply exempted pursuant to 35 Ill. Adm. Code 603.103 or 604.402 shall provide an active program approved by the Agency to continually educate and inform water supply consumers regarding prevention of the entry of contaminants into the distribution system. Conditions under which the Agency will approve this active program shall be adopted or changed by the Agency as prescribed in 35 Ill. Adm. Code 602.115.

(Source Amended at 6 Ill. Reg. 11497 effective September 14, 1982.)

Section 607.105 Laboratory Testing Equipment

a) Each supply must have adequate laboratory equipment and capability to perform the operational tests except bacteriological appropriate to the parameters to be tested and to the type of treatment employed. Such equipment must be in good operating condition and the operator on duty must be familiar with the procedure for performing the tests.

- b. If a supply performs laboratory examinations of water samples with the provisions of 35 Ill. Adm. Code 603, such work shall be done by a certified laboratory.

- c. Nothing in this rule shall be construed to prevent a supply from running control laboratory tests in an uncertified laboratory. These results are not to be included in the sample quota for that supply, as required by 35 Ill. Adm. Code 603.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

Section 607.106 Record Maintenance

Any owner, operator or registered person in responsible charge of a supply subject to the provisions of this Chapter shall retain on its premises or at a convenient location near its premises the following records:

- a. Records of bacteriological analyses made pursuant to these Rules shall be kept for not less than five years. Records of chemical analyses made pursuant to these Rules shall be kept for not less than ten years. Actual laboratory reports may be kept, or data may be transferred to tabular summaries, provided that the following information is included:
 1. The date, place, and time of sampling, and the name of the person who collected the sample.
 2. Identification of the sample as to whether it was a routine distribution system sample, check sample, raw or process water sample, or other special purpose sample.
 3. Date of analysis.
 4. Laboratory and person responsible for performing analysis.
 5. The analytical technique/method used, and
 6. The results of the analysis.
- b. Records of action taken by the supply to correct violations of the Environmental Protection Act (Ill. Rev. Stat. 1981, ch. 111 1/2, pars. 1001 et seq.) and this Chapter shall be kept for a period not less than three years after the last action taken with respect to the particular violation involved.
- c. Copies of any written reports, summaries or communications relating to sanitary surveys of the supply conducted by the supply itself, by a private consultant, or by any local, State or Federal agency, shall be kept for a period not less than ten years after completion of the sanitary survey involved.
- d. Records concerning a variance granted to the supply shall be kept for a period ending not less than five years following the expiration of such variance.

(Source: Amended at 6 Ill. Reg. 11497, effective September 14, 1982.)

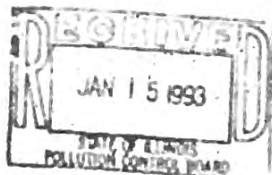
Appendix Reference to Former Rules

The following table is provided to show the relationship between rule numbers in previous numbers pursuant to codification.

Chapter 6: Public Water Supplies 35 Ill. Adm. Code Part III: Operation and Maintenance, Part 607

| | |
|-----------|-----------------|
| Rule 310B | Section 607.106 |
| Rule 311 | Section 607.107 |
| Rule 312 | Section 607.107 |
| Rule 313A | Section 607.103 |
| Rule 314 | Section 607.104 |
| Rule 315 | Section 607.105 |

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD



HERMAN W. PRESCOTT,

Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-187.

MOTION FOR RECONSIDERATION

Now comes your Complainant, HERMAN PRESCOTT, by and through his attorneys, GALLAGHER, KLEIN and BRADY, and respectfully requests that this Board reconsider its previous ruling in this case, and thereafter reverse its ruling and enter its order finding in favor of Complainant and against Respondent, and as grounds therefore, states:

1. The Board's Order of December 17, 1992, adopted by a vote of 6-1 contained a finding of "no violation", and the action was therefore dismissed.
2. The Board's Opinion and Order (R 88-26) contained a change in relevant regulations which became effective before the Complaint herein was filed.
3. The Board's opinion states that the "applicable law" is that which was in effect on the date the complaint was filed.
4. The Board's finding regarding the law "applicable" to the facts proven at the hearing is erroneous because both the complaint and the facts proven at hearing refer to a time period when different regulations were effective, and there has been no pleading or finding that the complaint was not otherwise timely filed.

5. That the effect of the Board's finding is to immunize from violations all conduct, however improper or illegal, which occurred before the effective date of new regulations.

6. That nothing in law or in the Board's Opinion and Order indicate an intention to immunize unlawful conduct as of the effective date of the new regulations cited by the Board in its order, and in fact, contrary intent is evident.

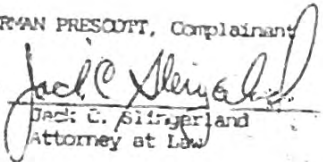
7. That Respondent, City of Sycamore, filed a motion to dismiss the complaint previous to a hearing thereon, but did not request dismissal on the grounds relied upon by the Board in this cause.

8. That the Board's action has deprived the Complainant, a private citizen, of his right to a decision on the merits of his complaint, even though he has expended vast resources in seeking to obtain what the law entitled him to - clean safe drinking water.

9. In support of its motion, Complainant has attached a brief, incorporated herein.

HERMAN PRESOTT, Complainant

By


Jack C. Silberger
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

BEFORE THE
ILLINOIS POLLUTION CONTROL BOARD

HERMAN W. PRESCOTT,

Complainant,

vs

THE CITY OF SYCAMORE, ILLINOIS,

Respondent.

PCB NO. 90-167.

BRIEF IN SUPPORT OF COMPLAINANT'S MOTION FOR RECONSIDERATION

Complainant, HERMAN PRESCOTT, filed his complaint using a form provided him by this Board. Even though the form does not require the Complainant to specify a date that the alleged violation occurred, the complaint herein clearly alleges violations between November 22, 1989 and January 22, 1990. No one heretofore has indicated in any manner any uncertainty as to when the violations occurred. The complaint has been upheld by this Board as adequate following the denial of the Respondent's motion to strike for failure to state a claim. The complaint contains allegations which, if true, demonstrate that the Respondent violated the Board's regulations in effect as of the date of the allegation.

1. THE DATE OF FILING IS IRRELEVANT WHEN THE COMPLAINT ALLEGES VIOLATIONS OF STANDARDS IN EFFECT AT THE TIME OF THE VIOLATIONS.

The Board's ruling has the effect of barring all enforcement actions unless the violations complained of were violations not only at the time they

occurred, but also at the time that the action was commenced. This contention was explicitly rejected in Madine Manufacturing Company v. Pollution Control Board, ___ Ill.App.3d ___ 549 N.E.2d 1379, 140 Ill.Dec. 507 (2d Dist. 1990). The Madine court recognized that the Board is to exercise its authority even though there was no violation at the time the complaint was filed. Similarly here, the Board cannot sustain its finding that "no violation occurred" on the basis that the only "applicable law" was that which was in effect on the date of filing.

II. THE BOARD SHOULD NOT GIVE RETROACTIVE EFFECT TO ITS NEW REGULATIONS.

By ruling that "no violation occurred", the Board has given retroactive effect to the regulations which became effective after the violations occurred. The Board's written opinion fails to acknowledge the retroactivity of the previous rules and fails to demonstrate that a retroactive interpretation of the rules is necessary. An administrative agency is justified in giving retroactive application to its rules only when it has given consideration to certain established considerations. Gonzales-Blanco v. Clayton, 110 Ill.App.3d 197, 441 N.E.2d 1308, 65 Ill.Dec. 794 (1982). The opinion in this case fails to demonstrate that the Board gave any consideration to any of those factors, and fails to demonstrate that the Board found that significant statutory interests required that retroactive application be invoked to completely defeat what arguably is an otherwise valid cause of action.

Before the Board's rules can be given retroactive effect, consideration must be given to factors such as whether the case is one of first impression, whether the agency action results in injury or substantial prejudice, whether

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the regulation represents an abrupt departure from well-established practice, the extent to which the party against whom the new regulation is applied relied on the former regulation, and the degree of the burden imposed upon that party. Gonzales-Blanco v. Clayton, Id. It is obvious that when proper weight is given to each of these criteria, retroactive application should not be invoked to defeat Complainant's claim. Prescott "relied" upon the standard that was in effect at the time of his water sampling when he filed his complaint. Prescott is substantially burdened by retroactive application, as it deprives him of a ruling on the merits of his complaint even though the Respondent has not sought a dismissal on the grounds of retroactivity.

The regulations themselves contain various implementation dates dependent on the type of water supply system under examination, thus inducing Prescott to believe that retroactivity was not contemplated by the Board. The Board's opinion and final order adopting new water quality regulations contains comments which directly contradict this Board's decision in this case. The Board's comments pertinent to Section 611.240 state "as is discussed in general above, the phase-in of these requirements must be coordinated with the phase-out of the existing requirements." 114 PCB 215. It is thus clear that the violations of the former regulations alleged by Prescott were not retroactively nullified, but instead, the former regulations were replaced. The regulations represent an abrupt departure from past practice, as the regulations completely abandon water chlorination requirements in favor of a "disinfection" standard based upon the source of the water supply - factors previously not pertinent to the Board's water quality regulatory scheme. Furthermore, this particular rule making was not subject to the first or

second notice review requirements of the Administrative Procedures Act, and was the first rule making governing public water supply regulations following enactment of the Safe Drinking Water Act. 114 PCB 149-150. The Board should consider this petition for reconsideration in light of what the Board has admitted are "inconsistent" new regulations; the very paragraphs of which the Board cites to defeat Prescott's claim. 114 PCB 216.

CONCLUSION

Herman Prescott filed a complaint alleging water quality violations based upon tests conducted over a period of months preceding the filing. The complaint was filed within the time allowed for filing, and no issue was raised questioning timeliness either by the Respondent, City of Sycamore, or the Pollution Control Board when the Board considered Sycamore's dismissal motion. Evidence of Prescott's testing results was freely admitted by the Board Hearing Officer during the two day hearing. Nevertheless, the Board's decision in this case totally deprives Prescott of a ruling on his complaint because the Board saw fit to amend its regulations effective after Prescott's testing but before the complaint was filed with the Board.

The Board's ruling is contrary to established legal precedent and should be reconsidered and reversed. The decision establishes a rule that only violations existing at the time of filing are reviewable by the Board, even though no such intention is disclosed in the applicable regulation, and despite case law to the contrary. It is clear that the new regulations, by establishing various implementation dates, contemplated only prospective application, but the Board's decision retroactively applies the regulations, resulting in a "no violation" finding. The uniqueness of the rule making process applicable to the new regulations provides more than adequate justification for a renewed consideration of this case.

The Board should reconsider its ruling and consider Herman Prescott's case on its merits.

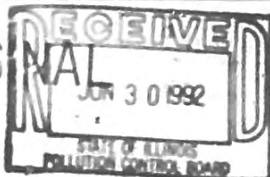
HERMAN PRESCOTT, Complainant

By

Jack C. Kling
Jack C. Kling
Attorney at Law

GALLAGHER, KLEIN and BRADY
Attorneys at Law
114 West State Street
Sycamore, IL 60178
Telephone: (815) 895-5141

ORIGINAL



STATE OF ILLINOIS)
COUNTY OF C O O K) SS

BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS

HERMAN W. PRESCOTT,

Complainant,

vs.

PCB 90-187

THE CITY OF SYCAMORE,
ILLINOIS,

Respondent.

The following is a transcript of a hearing held in the above-entitled matter, at Sycamore City Hall, Council Chambers, 535 DeKalb Avenue Sycamore, Illinois, on the 2nd of June, 1992, A.D., commencing at the hour of 10:00 o'clock a.m.

BEFORE:

MR. MARVIN MEDINTZ
Hearing Officer.

APPEARANCES:

Mr. T. Jordan Gallagher
Gallagher, Klein & Brady
Suite 300, Hillcrest Centre
444 East Hillcrest
DeKalb, IL 60115

appeared on behalf of Complainant:

Mr. Peter Thomas Smith
Smith & Strauss
207 West State Street
Sycamore, IL 60178

and
Mr. Timothy W. Johnson
315 West Elm Street
P. O. Box 327
Sycamore, IL 60178

appeared on behalf of Respondent.

Also Present:

Mr. Herman Prescott;

Mr. Syd Albrecht,
Water Department Superintendent
City of Sycamore;

Mr. Kevin G. Lookis,
Vice President,
Hydronics, Inc.;

Mr. Leonard A. Lindstrom, P.E.,
Regional Manager,
Field Operations Section,
Division of Public Water Supplies,
Illinois Environmental Protection Agency

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HEARING OFFICER MEDINTZ. Good morning. This is the hearing in the case before the Illinois Pollution Control Board of Herman W. Prescott, Complainant, versus the City of Sycamore, Respondent, docketed before the Pollution Control Board as PCB 90-187, and received by them on October 16th of 1990.

My name is Marvin Medintz. I'm an attorney in private practice in Chicago and I have been appointed by the Illinois Pollution Control Board to serve as hearing officer in this cause.

The first thing I want to advise and inform the record is I do not make the decision in this case, that is made by the Illinois Pollution Control Board which consists of seven men and women appointed by the Governor and confirmed by the Senate to meet every two weeks and make their decisions on the cases heard based on the transcripts.

based on the exhibits, based on whatever admissions may be contained in the pleadings and whatever stipulations the parties may present of record, and on the arguments both closing and final, whether oral or written, that the parties may choose to present to the Board.

My purpose is to assure the compilation of an accurate and complete record as fairly as I can accomplish that consistent with rules of the Illinois Pollution Control Board.

We're meeting today, in the Council Chambers at the City Hall of Sycamore at 535 DeKalb Avenue in Sycamore. I would like to thank whoever it is I'm supposed to thank who kindly allowed us to use this facility because it has certainly made my life a lot easier.

The notice of this hearing was published in the Sycamore Republican

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Now pursuant to law and so that there was public notice of this hearing which is a requirement of the Illinois Environmental Protection Act.

At this point I would like the parties to identify themselves through their counsel.

First the complainant, please.

MR. GALLAGHER: My name is Jordan Gallagher, I'm the attorney for Mr. Herman Prescott who is present at the hearing:

HEARING OFFICER MEDINTZ: Thank you.

MR. SMITH: Mr. Hearing Officer, my name is Peter Smith, with me is Tim Johnson Associates, we are both City Attorneys for the City of Sycamore.

Also present is Syd Albrecht. Mr. Albrecht is the Water Superintendent for the City of Sycamore and he's here as the City's

representative.

HEARING OFFICER MEDINTZ: Are there any preliminary motions or procedural matters that either party wants to bring to my attention at this point.

MR. GALLAGHER: The complainant doesn't have anything at this time.

MR. SMITH: The respondent has nothing at this time.

HEARING OFFICER MEDINTZ: At this time under the rules for opening statements, should either/or both parties chose to make such a statement.

Mr. Gallagher, do you have a Opening Statement?

MR. GALLAGHER: I would waive Opening Statement.

MR. SMITH: Your Honor, I do have an Opening Statement to make.

HEARING OFFICER MEDINTZ: Okay.

MR. SMITH: And I make it as much for the Pollution Control Board as for what.

may be happening here.

HEARING OFFICER MEDINTZ: If I can interrupt you for a second -- And this can be off the record.

(Whereupon a discussion was held off the record.)

HEARING OFFICER MEDINTZ: Proceed.

OPENING STATEMENT

By Mr. Smith:

MR. SMITH: Mr. Hearing Officer, as I indicated, my name is Peter Smith. I am a City Attorney for the City of Sycamore, and with me as counsel on this case is Tim Johnson also a City Attorney.

The basic allegations that Mr. Prescott has brought in this case allege violations of Section 653.604 of the Environmental Protection Act of State of Illinois.

And these require a minimum chlorine residual of

2 milligrams per liter or a minimum combined reading of .5 milligrams per liter in all active parts of the distribution system for the City of Sycamore. Now, that Section also requires that chlorine tests shall be made at frequent and regular intervals to determine the amount and type of residuals at different times in the distribution system.

The City expects the evidence, when it is complete, to show in this case first that adequate chlorine has always been provided for the City water supply; that the City's distribution system has, beginning in September of 1989, been under a phosphate treatment program to basically coat the iron piping with a noncorrosive and to remove iron from the water and improve the chlorine content of the water supply.

Now, that phosphate treatment program has taken time, but it has also been very successful, and chlorine and iron content have improved within the City's water system and its distribution system and are stable within Illinois Environmental Protection Agency's mandatory requirements.

The water service extension which runs from the City's distribution system to the Prescott residence is a private service. It is not owned by the City. It is cement-lined. It is dead-ended. It is not looped.

The Illinois Environmental Protection Agency does not require a looped water service extension in its regulations.

There will, we expect and anticipate, be some test results provided by Mr. Prescott with regard to water at

his residence and believe when all of the evidence comes in it will show that the testing done by Mr. Prescott at his residence on the line off the private water service is so procedurally flawed that it should not even be considered.

Now, the City of Sycamore, the evidence will show, has complied fully where applicable with a July 20, 1990 Illinois Environmental Protection Agency letter and its recommendations.

The Illinois Environmental Protection Agency in July -- on July 20, 1990 letter which was sent out, will also be shown to be factually in error in several significant respects.

First, it was an error for that letter to state that Mr. Albrecht reports that the City is no longer opening hydrants where the chlorine residual is low or absent.

Second, that it was error

to state that Mr. Albrecht reported that several of the old hydrants in the northeast section of the city had failed and had not been repaired.

And, third, it was error to state that the water service extension was not repaired.

Now, the Illinois Environmental Protection Agency recommendation to shut down Well Number 1, which is a well that provides water to this northeast section of town, within that letter, was unnecessary, and the impact of that was actually to reduce the chlorine distribution to the northeast section of town.

It's one of our positions here that that aggravated the situation and that that recommendation should not really have been made.

The evidence when it is all before this hearing and before the

Pollution Control Board will show that the City has continued to improve the water quality and the chlorine and iron content by renovating Well Number 3, which is in the northeast section of town and by reopening Well Number 1 in the downtown area near the northeast section of town using a special phosphate treatment to treat the iron content of those wells so that they can be run and so that they can supply chlorine to this northeast section of town which is really in issue. That's where Mr. Prescott lives.

All of the evidence taken as a whole will show that the City has complied with all Illinois Environmental Protection Agency requirements, that the City has consistently used its best efforts to comply with mandatory water requirements, and that the water supply is of good quality and in compliance:

HEARING OFFICER MEDINTZ Thank you.

Before I ask Mr. Gallagher to call his first witness, I want to amplify on my opening remarks.

The Environmental Protection Act and the Board's Procedural Rules require that interested citizens be allowed to make statements of record and the Procedural Rules provide that it be after the Complainant's rebuttal case.

If there are members of the public who do at some point want to make statements for the record for the Board to consider as statements as opposed to evidence, I will not require them to sit around until the absolute end of the testimonial portion of the case, but rather will, before we break for lunch and before we break at the end of the day ask if there are any citizens who want to make statements of record for the Pollution Control Board.

Mr. Gallagher, are you prepared to call a witness?

MR. GALLAGHER: Yes, I am.

HEARING OFFICER MEDINTZ: Thank you, sir.

MR. GALLAGHER: I call Mr. Albrecht.

HEARING OFFICER MEDINTZ: Either sit there or if you want to, move around the front of the desk if you'll be more comfortable. It's your choice, sir.

And would you swear the witness, please?

(The witness was sworn.)

SYD ALBRECHT,

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

By Mr. Gallagher:

Q. Would you state your name and spell your last name for the court reporter, please?

A. Syd Albrecht, A-l-b-r-e-c-h-t

Q. Mr. Albrecht, what is your business or occupation?

A. I'm the water superintendent.

Q. For the City of Sycamore?

A. For the City of Sycamore.

Q. And how long have you held that position?

A. Fourteen years.

Q. And among your duties of overseeing the Water Department, do you also have involvement when new service is put into service?

A. Can you clarify that?

Q. Sure.

In particular when Mr. Prescott's residence was being built, did you oversee the water connection from the main?

A. No, I did not.

Q. Who would have done that?

A. I don't know.

Q. Okay. Were there certain permits that were required before that could be -- the service could be put in use?

A. There was a permit for the water maintenance.

Q. And was there a permit required from IEPA, Illinois Environmental Protection Agency?

A. I believe there was, yes.

(Whereupon Complainant's

Exhibit No. 1 was

marked for

identification.)

By Mr. Gallagher:

Q. I'm going to show you what I have marked as Complainant's Exhibit Number 1 for identification which is a series of documents, correspondence between IEPA and City of Sycamore.

A. Where did this go, may I ask?

Q. Pardon?

A. May I ask a question?

Q. Have you ever seen that before with?

A. Not to my knowledge, no.

Q. I would call your attention to Application For Construction Permit, the third page?

MR. SMITH: Pardon me,
Mr. Gallagher.

Mr. Hearing Officer, I would object to any questions with regard to this exhibit. This witness has indicated he has not seen it and he certainly, not having seen it, cannot provide any testimony with regard to it.

MR. GALLAGHER: If I could have him look at this one page, perhaps he can --

HEARING OFFICER MEDINTZ: I think it's a bit premature to bar questioning on the document.

By Mr. Gallagher:

Q. That's the third page of the

Application For The Permit, is that correct?

A: The construction permit, yes. Correct.

Q: And there's a signature that appears in the middle of that page, is that right?

A: Yes.

Q: And whose signature is that?

MR. SMITH: I would have to object.

There has been no foundation laid for anything with regard to the signature, or his familiarity with signatures or again with this document in his knowledge.

MR. GALLAGHER: At this point --

HEARING OFFICER MEDINTZ: I would just like him to proceed asking him the preliminary questions.

MR. GALLAGHER: First off, I am just asking him does he recognize the signature.

THE WITNESS: Yes.

By Mr. Gallagher:

Q. And whose signature is it?

A. Our late mayor's.

Q. Late Mayor Harold Johnson?

A. Yes.

Q. And you're familiar with that because you have seen that signature a number of times in your fourteen years?

A. Yes.

Q. He sent you correspondence and sent you letters and memos?

A. He signs my paycheck.

Q. He signs your paycheck, or signed your paycheck.

But the rest of the materials you've never seen before?

A. I haven't looked all through it.

To my knowledge, no, I haven't seen it.

MR. GALLAGHER: If I could go off the

record for a second or ask Mr. Smith about a witness.

Mr. Brady will be here?

MR. SMITH: Yes.

MR. GALLAGHER: That's all I have.

MR. SMITH: No questions at this time, Mr. Hearing Officer.

HEARING OFFICER MEDINTZ: You may step down please.

MR. GALLAGHER: I call Mr. Prescott.

HEARING OFFICER MEDINTZ: Would you swear the witness, please?

(The witness was sworn.)

HERMAN W. PRESCOTT,
called as a witness, having been first
duly sworn, was examined and testified as
follows:

DIRECT EXAMINATION

By Mr. Gallagher:

Q: Would you state your name and
spell your last name for the court
reporter?

A. Herman Prescott.

P-r-e-s-c-o-t-t.

Q. And where do you reside, sir?

A. 462 East Exchange Street,
Sycamore, Illinois.

Q. And how long have you lived
there?

A. Since November of '88.

Q. And who do you live there with?

A. My wife.

Q. Mr. Prescott, can you explain to
the hearing officer, in November of '88
when you moved in if you've noticed
anything unusual about the water in your
residence?

A. Yes. It was most unusual. The
first time I turned it on it was black.

Q. Did you notice anything about
the odor?

A. Yes. The odor was horrendous,
smelled like rotten eggs.

Q. And what did you do, sir?

A. Well, I called the builder and he told me that "Oh, that's water that's laying in the line there and we'll have to flush that hydrant out and that will improve the quality of your water."

Q. And to your knowledge was that line flushed out?

A. Yes. He himself came over and turned on the hydrant and flushed it out.

Q. And you saw that?

A. Yes.

Q. And after the flushing of the line, was there any change in the water?

A. Well, the water cleared up, it wasn't black any longer, but the odor was still present.

Q. And what did you do then, sir?

A. Well, at that time I believe I went up to see Mayor Johnson because I was told by someone in town if you go see Mayor Johnson, he'll see that things get straightened out. He in turn said after

I talked to him --

MR. SMITH: Pardon me.

Mr. Hearing Officer, I have to object. Mayor Johnson is dead. I believe there is a Dead Man's Act that prohibits testimony as to what a dead man has said.

MR. GALLAGHER: I will go on from there.

By Mr. Gallagher:

Q. After you had your conversation with Mayor Johnson, where did you go?

A. I believe that after sometime I called the Water Department.

Q. And who did you talk to there?

A. Mr. Albrecht. Albrecht.

Q. Did you tell Mr. Albrecht of your concerns about the water?

A. Yes. In fact, he came up to my house.

Q. And what did he do when he came to your house?

A. Well, first he asked me about a water softener and I said "Yes."

He said "Well, you have a line that's not connected to the water softener?"

I said "Yes, the outside tap at the rear of the condo is not connected."

And he went out and took a sample of the water in a glass or a cup or something, smelled it, and he said, "Well, that's Sycamore water, there's nothing I can do for you."

Q. What did you do then, sir?

A. Well, I believe I went back to the Mayor's office and asked him if there was something else that could be done.

I believe at that time I started to contact a company that put in a filter for me to do away with the odor in the water.

Q. And did the filter do away with

the odor?

A. Most of it, yes.

Q. But there is still an odor?

A. Yes.

Q. Did you then contact other people?

A. Well, I contacted the EPA. I just don't know just when.

Q. And after you contacted them, did they make a suggestion with regard to testing it?

A. Well, the EPA came out, first sent out a Mr. Brent Hanson from their office in Rockford and he took some tests, and at that time when the test results came back he handed -- I was not at home that day, my wife was there, and he handed her a sheet of paper and he said "I would advise you and your husband to file a complaint with the Illinois Pollution Control Board."

Q. And before you did that did you

do any testing on your own?

A. Before I filed the Complaint.

Q. Yes.

A. Yes, I did.

Q. Could you explain to the Hearing Officer how you came about to start the testing?

A. Well, at first the EPA was up there doing testing. I don't know on a weekly or biweekly schedule.

And I asked them if it would be better to have someone close by to do the testing that would get, you know, quicker results than sending someone up from Rockford all the time.

So they lent me the use of one of their test kits and said that I could use that until I was able to acquire one of my own.

A. And did they tell you where to acquire that.

A. Yes, they did.

Q. Where did they tell you to acquire that kit?

A. From the Hach Company in Colorado.

Q. And did you, in fact, obtain a kit?

A. Yes, I did.

[Whereupon Complainant's Exhibits Nos. 2 and 3 were marked for identification.]

By Mr. Gallagher

Q. Mr. Prescott, I'm going to show you what I've marked as Complainant's Exhibit Number 2 for identification and ask you to take a look at that.

Can you tell the hearing officer what that is?

A. This is a test kit for checking free or total chlorine.

Q. And where did you obtain that kit, sir?

A. From the Mach Company in Denver, Colorado. I sent for it.

Q. And are there instructions that came with that kit?

A. Yes, there are.

Q. And are those inside there?

A. Yes, sir.

Q. And does that tell you how to use the kit?

A. Yes, it does.

Q. Can you explain to the Hearing Officer what you did when you conducted these tests?

A. Well, one of the people up there at the EPA office in Rockford, when they lent me their kit to use, they showed me how it should be done. And I followed their instructions and then further the instructions in this booklet.

Take two test tubes, the caps off, rinse them out, fill them with water. This one any length and the one

where you are going to put the solution in to the line here, which is so many milliliters.

Insert them back in here and then you take a tube out of here, open it up with a pair of clippers, and put it in that part. Let it set three minutes and take the reading.

The reading is done by holding it up against a light object and comparing the color wheel with the color in the tube.

Q. And when you matched the color wheel to the color in the tube that gives you a reading?

A. That's correct, sir.

Q. And what reading does that give you?

A. Well, I only took total chlorine test.

Q. And what do you mean by total chlorine?

A. Well, that I'm not too clear on.

I was told by the EPA that if I used the total tablet or powder pillows, as they called them, that that would give a good general reading on what the chlorine content of the water was.

Q. Would that be the free chlorine or the combined?

A. No. Total.

Q. Total combined chlorine reading.

And is that the same type of kit that you used when EPA loaned you one?

A. Yes. Identical.

Q. Now, when you would take these tests, how often would you do them?

A. Well, I did them periodically. Not everyday, because I wasn't there everyday, but when I was around I would take them and I took them at different

times of the day.

And I'd also like to state that when I took these tests, I always let the water run out of the faucet for five minutes before the test was taken, to make sure that there was no residue in the lines as I was instructed by the EPA.

Q. And what faucet did you use to take these tests?

A. The outside tap in the rear of our condominium.

Q. And that's the tap that you described earlier that isn't on the water softening system?

A. That's right. That's direct from the City supply.

By Mr. Gallagher:

Q. Mr. Prescott, I'm going to show you what I have marked as Plaintiff's Exhibit Number 3 for identification and ask you to take a look at that.

Can you tell us what that is?

A. Yes. These are readings that I took at various dates and the results of the readings, not only at 462 East Exchange, but at 480 East Exchange and at 486 East Exchange.

Q. And can you tell us what is at 480 East Exchange?

A. That's a residence.

Q. And at 486?

A. That's another residence.

Q. And what faucets did you use in those?

A. I always used faucets that were not run through any softener or any filter.

Q. And when you conducted tests at those other sites, did you once again let the faucet run for five minutes before you did the test?

A. Yes.

Q. Who prepared that document, sir?

A. I did.

Q. And you had made handwritten notes and then typed them up. Is that correct?

A. Yes.

Q. Now, there are different dates listed on there; is that correct?

A. Uh-hum.

Q. Do you know what year that is, sir?

A. I believe this is '89. 1989. 11/22/1989 through 12/27 and then 1/3/90 to 1/22/90.

Q. And the second column has some numbers noted and times that you took --

A. Times of day.

Q. Times of day that you took the test.

And the third column is a series of numbers, and what are those?

A. Those are the readings that I

got from the test kit.

Q. And again those are the combined chlorine?

A. Total.

Q. Total?

A. Total.

MR. SMITH: Objection. First, the question is leading and, second, it's inconsistent with his testimony.

It's not a reading of combined, it is a reading of total.

MR. GALLAGHER: Okay. I think he cleared that up.

By Mr. Gallagher:

Q. It's total, right?

MR. JOHNSON: He has to answer the question. He just shook his head.

THE WITNESS: Yes, it's total.

(Whereupon Complainant's Exhibit No. 4 was marked for identification.)

By Mr. Gallagher:

Q. Mr. Prescott, I'm going to show you what I've marked now as Complainant's Exhibit Number 4 for identification and can you tell us what that is?

A. These are the results of some chlorine tests starting October 24, 1990, and continuing through December 30, 1990.

Q. And who conducted those tests?

A. I did.

Q. And where were they conducted at?

A. Most of them at 462 East Exchange and then others at 465 East Exchange, the 433 East Exchange, 370 Parkside Drive and the rest were at 462 East Exchange.

Q. And those other addresses, what type of structure are those?

A. They're residences.

Q. And how did you conduct these

tests?

A. The same way as I did all the others.

Q. And at the other residences other than your own, what type of a faucet did you use?

A. Outside faucet, not connected to a softener.

Q. And again on that there are various columns, the first one there are dates, is that correct?

A. The first is date, second is address, third column is the times they were taken, and the last column is the results of the reading.

Q. And those were tests taken by you, is that correct?

A. Yes, sir.

Q. And who prepared this document?

A. I did.

Q. And, again, you had notes that you prepared it from, is that correct?

A. Correct.

Q. When you would take the test you would make the note and then later put this together?

A. Uh-hum.

HEARING OFFICER MEDINTZ: Sir, you have to say yes or no.

THE WITNESS: Yes. I'm sorry.

HEARING OFFICER MEDINTZ: The court reporter can't record a nod.

(Whereupon Complainant's Exhibit No. 5 was marked for identification.)

By Mr. Gallagher:

Q. I'm now going to show you what has been marked as Complainant's Exhibit Number 5.

Can you tell us what that is?

A. Yes. These are tests that I started taking 4/7/92 up through

5/30/92.

Dates/times in the second column and results in the third column.

Q. And again the way you conducted those tests is the same way you testified to here?

A. That's correct.

Q. Those were all taken at your residence?

A. Yes.

Q. And, again, the outside faucet?

A. Right.

Q. And, again, you prepared this document; is that correct?

A. I did.

(Whereupon Complainant's
Group Exhibit No. 6 was
marked for
identification.)

By Mr. Gallagher:

Q. Mr. Prescott, today you brought with you five jars; is that correct?

A. Yes, sir.

Q. I'm going to show you what I have marked as Complainant's Group Exhibit 6 which are five jars.

Can you tell us what they are?

A. Yes. They are samples of water that I procured from my faucet in these four and this one here was from Sabin Street. I can't think of the address.

Q. Do you know whose residence it was?

A. Yes. If I can see that petition, I can identify it.

Q. And when you say "this one," you are referring to the jar that has the Kraft Marshmallow top?

A. Right.

Q. When were those samples procured?

A. Well, one of them I have marked here.

I did have a date on one. Did it fall off in that bag? It was a piece of Scott tape.

MR. SMITH: Mr. Hearing Officer, I have to object.

We're asking for this witness's recollection, I believe, and if he doesn't have that recollection, he can't testify.

By Mr. Gallagher:

Q. Is there anything that would

HEARING OFFICER MEDINTZ: Off the record.

(Whereupon a discussion was held off the record.)

By Mr. Gallagher:

Q. Do you know approximately when these samples were taken?

A. Well, one of them I had labeled here was taken in May of '89.

Q. And you're referring to?

A. This jar right here

Q. A jar that's got an orange and white cap?

A. Yes.

Q. And has water with dark material in it; is that correct?

A. Yes.

Q. What about the other samples?

A. Well, they were taken at various times. I can't recall the dates they were taken, but I -- As you can see, there are different particles in them.

They were all taken from the outside tap. These four here, from the outside tap of my residence.

Q. When you say on various times, can you give us a time period?

A. I would say between 5/89 and 9/89.

Q. And those four were all taken from your tap?

A. Correct.

Q. Now, have you shared any of these test results with the City of Sycamore?

A. Gave them to Mr. Smith.

Q. When you first started conducting these tests with the kit from the Denver company, was anyone from the EPA around the first time you did?

A. Well, the EPA and Mr. Albrecht were at the rear of my house several times conducting the same test.

Q. And did they observe the way that you conducted the tests?

A. Well, the man from the EPA did. The woman from the EPA, Miss Sands was the one who instructed me on the use of it.

Q. Okay. Are you familiar at all with the water service to your condominium unit?

A. Yes, sir.

Q. And can you describe that

service for the Hearing Officer?

A. Well, the service is -- I think it's a 250 foot line coming in from the main that dead ends at a hydrant and the ten units that are on the property are all fed off of that line.

Q. Do you know ~~that~~ that line is constructed of?

A. No, I don't. I have no idea.

MR. GALLAGHER: That's all I have of Mr. Prescott.

HEARING OFFICER MEDINTZ: Mr. Smith, do you have any Cross Examination?

MR. SMITH: Yes, Mr. Hearing Officer. I do.

CROSS EXAMINATION

By Mr. Smith

Q. Mr. Prescott, with regard to this water service that you testified to at the very end, who owns that water service?

A. I don't know who owns it.

Q. Is it an Condominium Association property?

A. Yes.

Q. Are you a member of the Condominium Association?

A. I am.

Q. Would it be fair to say that you were one of the co-owners then of the property on which the line is?

A. That is correct.

Q. Would you also be one of the co-owners of the line in the hydrant that's on that property?

A. I don't know.

I was told by the developer that the line was dedicated to the City.

Q. Now, if the line were not dedicated to the City and there were no City easements and the City had not contributed any money towards it, would you consider that line to be yours?

A. No, not whole.

Q. But, in part, as one of the members of the Condominium Association, is that correct?

A. If that were the case, yes.

Q. Mr. Prescott, if I could take you back in your testimony to the very beginning where you were talking about black water and bad odor with it, did you have a water heater with your home?

A. Yes.

Q. Did that water heater have a manganese core in it?

A. Yes, sir.

Q. Did that manganese core have to be removed?

A. Yes, it did.

Q. And was that manganese core removed because a manganese core in a water heater sometimes produces a bad odor and bad color to the water?

A. That's what I was told.

Q. Now, within your testimony when you were talking about instructions on this Bach test kit, you indicated that, at least from my recollection, that you followed the EPA instructions and the instructions in the test kit, is that correct?

A. That's correct.

Q. Have you ever testified or made a statement that's inconsistent with that?

A. Not to my knowledge.

Q. Then do you recall a deposition that I took of you many, many months ago at this time?

A. Yes, I do.

Q. This would be back on the 20th of June, 1991.

Now, do you recall testifying within that deposition that Sandy Sands of the EPA advised you as to which test kit to use and later, at the

Rockford EPA office. Sands gave you a test kit and that the EPA instructed you in its use?

A. Yes, that's right.

Q. Now, you didn't at that time mention at all that you had reviewed the instructions in the test kit.

MR. GALLAGHER: I would object unless he was asked that question. I don't think it's impeaching if it was never asked the question. I don't think there's anything inconsistent in that at all.

HEARING OFFICER MEDINTZ: I'm also unclear as to whether the testimony at the deposition you're describing is in the context of some apparent meeting at Rockford that you seem to be referring to.

MR. SMITH: I will withdraw the question and ask another.

HEARING OFFICER MEDINTZ: Okay.

By Mr. Smith

Q. Mr. Prescott, isn't it in fact true that you never reviewed the instruction booklet, you relied solely on the instructions that were given to you by the IEPA?

A. No, sir.

Q. In your deposition do you recall my asking you with regard to the procedures and the instructions that you followed.

"QUESTION: Then you simply followed the directions as you were given them?

"ANSWER: Correct."

Do you recall testifying that way in the deposition?

A. Yes.

Q. Now, do you also recall my asking you within the deposition

"QUESTION: Is there

an instruction booklet or anything that comes with the kit?"

And your responding "You know, I'm not sure. I think there is, though."

Do you recall testifying to that effect?

A. Yes.

Q. Now, isn't it in fact true that you relied solely on the instructions given to you by the EPA in the testing that you did and you didn't really even know where the instruction booklet was?

A. No, sir.

The reason I testified that way is because when I received the kit from the EPA, I was instructed on its use orally, there was no instruction booklet in that test book, and I was told to send for one of my own.

When I received my own, at that time I did read it.

But the question you asked me at that deposition was whether there was an instruction booklet with the kit and I said I'm not sure, but I thought there was.

Q. Now, Mr. Prescott, are you asking me to believe that you read an instruction booklet in a test kit and then when I asked you the question you didn't even know if there was one there?

Because that's basically what you responded.

MR. GALLAGHER: Objection. We are getting into argument here.

HEARING OFFICER MEDINTZ: Sustained.

MR. SMITH: I will withdraw the question.

By Mr. Smith:

Q. Mr. Prescott, in the questioning you described how you did the test, how

you conducted the test.

Q. These water samples were taken at an outside faucet for you. Is that correct?

A. At my residence, that's correct.

Q. At your residence. Now, were those water samples run through a rubber hose before they got to the vile?

A. I am not sure whether it's rubber or not. I think it's vinyl.

Q. I asked you by notice to bring that hose?

A. It's here.

I don't believe it's a rubber hose. I believe it's vinyl.

(Whereupon Respondent's Exhibit No. A was marked for identification.)

By Mr. Smith:

Q. Mr. Prescott, I show you what's

been marked as Respondent's Exhibit A?

A. Right.

Q. Is this the hose that's rubber or vinyl that you ran the water through before it got to the vial?

A. Correct.

Q. About how long is this hose?

A. 7, 8 feet.

Q. Now, did you test the water immediately after it came through the hose?

A. Yes, sir. As soon as possible.

Q. Is that because chlorine is active and it will dissipate quickly if you don't test quickly?

A. Correct.

Q. When you described the procedure that you used, you were talking about capsules, and these are capsules I believe that are provided with the test kit; is that correct?

A. That's correct, sir.

Q. Did you at any time test the capsules to see if they were good?

A. No, I wouldn't know how to test the capsules.

Q. Now, as I recall, your testimony indicated that you snipped the capsule, put the contents into the vile with the water, and did you then place it in -- directly place it into the test kit --

A. Correct.

Q. -- for reading?

A. In fact, I put that in the test kit before I emptied the pillow in there.

Q. So you put the vile with the water to be tested into the kit and then you put in the pillow, the contents of the pillow?

A. It's just as simple to demonstrate it to you.

Fill those with water, fill this one to that level. Put them back in

here, clip the top of that capsule off
and empty it into that test tube.
Shake it up, put it back
in and let it set for three minutes.
that's when you take the reading.

Q. Okay. Now, you've added some
things here that you didn't testify to
initially when you were asked questions
by Mr. Gallagher, haven't you?

A. I don't believe so. It's the
same as I said before.

Q. Am I correct that in your prior
testimony you did not testify that you
shook the vile?

A. I don't know.

Q. Am I correct in your testimony
that you did not state that you waited
three minutes?

A. I don't know. I don't recall.

Q. Do you recall testifying in your
deposition with regard to your
procedure?

A. You know, that's a year ago I believe that that deposition was taken. I can't recall every question and every answer at the time.

HEARING OFFICER MEDINTZ The question, sir, is simply do you recall testifying about the procedures you followed.

A. He hasn't asked you yet in detail what your testimony might have been.

THE WITNESS: Yes, I recall. I recall testifying about it.

By Mr. Smith:

Q. Okay. Do you recall my asking you what did they say you were supposed to do in instructing you how to use it:

"ANSWER: Let the water run freely for five minutes and then take the samples in the two test tubes, put them in the test

kit, and empty the powder in the one with the certain number of milliliters of water and then you compare the read on a dial, colored dial."

"QUESTION BY MR. [unclear]"

"Anything else?"

"ANSWER BY MR. [unclear]"

"that I can recall."

Do you recall testifying to that effect?

A. Yes.

Q. Now, Mr. Prescott, you've testified very positively that you ran the water for five minutes; is that correct?

A. That's correct.

Q. Now, how did you handle the viles after the testing had been completed? After you had taken the reading, what did you do with the viles?

A. Emptied them. I emptied them and flushed them out.

Q. You flushed them out with tap water?

A. Right.

Q. How did you dry them?

A. With a towel, paper towel.

And I didn't dry the interior of them, sir.

Q. You dried the outside?

A. Right.

Q. You let the inside just basically drip dry?

A. I guess that's what you would call it. It dried by itself, whatever.

Q. Am I correct that you tested for total only?

A. That's right.

Q. You did not test for free?

A. Yes.

Q. For free. Let me add, for free residual chlorine.

As I also correct that you did not test for combined chlorine?

A. That's right. I didn't.

Q. How old are you, Mr. Prescott?

A. Sixty-nine.

Q. I notice that you are wearing glasses. How long have you worn glasses?

A. Ten years.

Q. Is the problem nearsightedness, farsightedness?

A. Nearsightedness.

Q. And the glasses correct that?

A. Yes, sir.

Q. Have you had any problem with color blindness?

A. None.

Q. Did you have anybody else check the readings?

A. Yes. Mr. Pestaris (phonetic) took some of them. He checked his.

Q. So you didn't take all of these readings?

Q. The ones that I testified to, I did.

Q. Okay. Mr. Pastaric, I take it, did not check any of the readings that were made at your residence?

A. No.

Q. Did he check all of the readings made at his residence?

A. No. I believe his wife did some of them, too.

Q. But those test results are not within the materials that you have here?

A. Well, they are somewhere here. I don't think any --

MR. GALLAGHER: None have been testified to.

By Mr. Smith:

Q. Okay. Were you expecting to find low chlorine readings when you tested?

A. No. I didn't know what to expect, that's why I was taking the

test.

Q. You mean after taking all of these tests, you, after the first couple, didn't expect that there would be low chlorine? That wasn't your expectation?

A. I really don't know what my expectation was. All I can go by is what the test kit showed me.

Q. So you had no expectation or anticipation of a particular reading when you were taking these?

A. No. And I think the test results will show that there were times when the chlorine content was at a point where it showed quite clearly that there was chlorine in the supply.

Q. Now, all these tests were conducted at your residence off of the private water service; is that correct?

MR. GALLAGHER: Objection.

THE WITNESS: Not all of them, no.

By Mr. Smith:

Q. All the ones labeled 467 East Exchange were?

A. That's correct.

Q. And all of the others were again taken from private residences and off of what would have been their water service as well; is that correct?

A. Off the City water main.

Q. Well, the City water main does not run into the house, does it?

A. No, I don't believe so.

Q. And you took these off of a faucet that was probably an outside faucet or at least a faucet not connected or running through a water softener?

A. Correct.

Q. It would have then been off of their private water service to that faucet?

A. Yes.

MR. GALLAGHER: Objection to the characterization of "private water

service. I don't think we have any evidence to that.

MR. SMITH: Mr. Hearing Officer, the question has been asked and answered.

HEARING OFFICER MEDINTZ: To the extent that the witness knows whether or not somebody else's water service is private or public, that isn't something that would be expected to be within his normal range of knowledge or expertise.

By Mr. Smith:

Q. Mr. Prescott, to go back for a minute to the testing procedure which you used. Before you took the readings, before you placed water in the vials, did you rinse them out at that time?

A. Yes, I did.

Q. And what did you rinse them out with?

A. I always rinsed them out with the City water from outside.

Q. The water from the outside --

45
A. That's correct.

Q. -- that you were then going to be testing?

A. Right.

Q. Did you wear gloves or anything, at that time?

A. No.

Q. Were you outside at that time?

A. Yes, sir.

Q. I take it that since you were rinsing them out with the water from that outside tap that they weren't covered at that time or immediately before you put the water that you were going to be testing in, is that correct?

A. They weren't what?

Q. They weren't covered immediately before you put the water in?

A. No. If they were covered, I couldn't get the water in.

Q. Okay. But they had been uncovered for a period of time, rinsed

with the water from that outside tap, and then you filled them?

A. That's correct.

Q. Okay. And were you wearing any rubber gloves or anything sterile?

A. No.

MR. SMITH: No further questions.
Mr. Hearing Officer.

HEARING OFFICER MEDINTZ: Any redirect?

MR. GALLAGHER: If I could.

REDIRECT EXAMINATION

By Mr. Gallagher:

Q. Mr. Prescott, either in the written instructions or the instructions that you received from the EPA, did anybody tell you that you should wear rubber gloves?

A. No.

Q. Did anybody tell you that the tubes had to be sterilized?

A. No.

Q. In fact, the instructions say to just rinse the tubes out?

You can answer.

A. That's right, yes.

Q. And just so everybody's clear on the way that you conducted these tests, you filled both tubes with water?

A. Correct.

Q. Then you replaced them into the kit; correct?

A. Right.

Q. You have to answer.

A. I'm sorry.

Q. And then you would use the clippers and clip the --

A. Top of the pillow.

Q. -- top of the pillow and dump that in?

A. Right.

Q. And mix it to swirl it?

A. I would put my hand over it and shake it.

Q. And then you would wait three minutes and take the reading. Is that correct?

A. Correct.

Q. Did you ever take a reading before the three minutes were up?

A. I might have. I might have done it at two and a half minutes or something like that.

Q. Did you ever wait longer than six minutes to take a reading?

A. No. I believe that after a certain length of time the chlorine would dissipate anyhow, if you waited too long.

Q. You answered Mr. Smith's questions about the water heater, do you recall that?

A. Yes.

Q. You talked about removing the core?

A. Uh-hum.

Q. After that core was removed, was there any change in your water?

A. No.

Q. It still had the odor?

A. Yes.

Q. Still had the other problems?

A. Yes, sir.

Q. With regard to the hose which has been marked as Respondent's Exhibit Number A, when you took samples from other residence, did you use that hose?

A. No.

Q. Did you use any hose from those other residences?

A. No.

Q. Just came right out of the faucet?

A. Right.

MR. GALLAGHER: I think that's all I have.

MR. SMITH: Couple of short questions on recross.

RECROSS EXAMINATION

By Mr. Smith:

Q. Mr. Prescott, as I correct that when you shook it, you put your thumb on something on the top of the vile and shook it, your index finger?

A. Index finger.

Q. So you put your index finger on the top of the vile and shook it?

A. (No audible response.)

HEARING OFFICER MEDINTZ: You have to answer audibly.

THE WITNESS: Yes, I did.

By Mr. Smith:

Q. Now, you also testified that you may have taken some of these readings before the three minutes; is that correct?

A. Yes. I would say that's possible.

Q. What percentage? 50 percent? 60 percent? 40 percent?

A. I would have no knowledge of what percentage of time it was.

Q. So you don't know how many you took at two and a half rather than at three or in excess of three?

A. No.

I know I didn't take any in excess of three minutes.

Q. None in excess of three minutes?

A. No.

Q. So they were all three minutes or less?

A. Yes. And as a rule I would look at my watch and put that pillow in, so that's why I can't be exact. I don't have a -- I didn't set a timer for the exact three minutes.

Q. So you didn't use a timer or anything like that?

A. No, sir, I didn't.

Q. But it was never more than three minutes but sometimes less than three

minutes?

A. Yes.

Q. And you don't remember how many you had of that situation?

A. No, I don't. I would imagine it was very few of them.

Q. But everything was less than three minutes or three minutes or less?

A. I tried to get it as exactly to three minutes as I could using a wrist watch.

Q. But not over three minutes?

A. Correct.

Q. May I see the instruction book?

And I'm correct that instruction number 3 under the Total Chlorine Test says: "Let stand for three minutes but not more than six to allow color development?"

A. That's what it says. That's correct.

Q. And everything that you tested

was at three minutes or less?

A. Yes.

MR. SMITH: No further questions,
Mr. Hearing Officer.

MR. GALLAGHER: Just one.

REDIRECT EXAMINATION (Continued)

By Mr. Gallagher:

Q. Just so I'm clear, you would
look at your wrist watch and when the
three minutes passed, that's when you
would do it?

A. That's correct.

MR. GALLAGHER: That's all I have.
HEARING OFFICER MEDINTZ: Okay.

Mr. Prescott, I have a
question or two if I may.

THE WITNESS: Yes.

HEARING OFFICER MEDINTZ: Did you
live in Sycamore prior to the time you
moved into the condominium at 462 East
Exchange?

THE WITNESS: No, I didn't.

HEARING OFFICER MEDINTZ: I have no other questions. Thank you.

MR. GALLAGHER: Thank you, Mr. Prescott.

(Witness excused.)

HEARING OFFICER MEDINTZ: Next witness?

MR. GALLAGHER: Could I take suggest a short break and maybe I can talk with Mr. Smith about the next witness.

HEARING OFFICER MEDINTZ: Five minutes.

MR. GALLAGHER: That would be great.

(Whereupon a short recess was had.)

MR. SMITH: I want to go on the record briefly and introduce this.

MR. GALLAGHER: Mr. Hearing Officer, with regard to Complainant's Exhibit Number 1, I think we have a stipulation that these will be true and correct copies of correspondence between the City

of Sycamore and the IEPA with regard to the water service at the townhouse of the condominium of Mr. Prescott.

MR. SMITH: Your Honor, the City would so stipulate.

HEARING OFFICER MEDINTZ: Okay. Are they being offered then.

MR. GALLAGHER: It would be offered into evidence.

HEARING OFFICER MEDINTZ: They will be accepted with that stipulation.

(Said document, heretofore marked Complainant's Exhibit No. 1 for identification, was admitted into evidence, to wit, as follows:)

HEARING OFFICER MEDINTZ: Thank you.

I will hold on to these,
if it's okay with you.

THE COURT REPORTER: That's fine.

MR. SMITH: What is the exhibit
number on that, Mr. Hearing Officer?

HEARING OFFICER MEDINTZ: Okay.
Complainant's Exhibit Number 1.

If there is nothing
further at this time, we stand in recess
until one o'clock sharp.

Thank you very much.
(Whereupon, a lunch recess
was taken until
June 2, 1992
at 1:00 o'clock p.m.)

STATE OF ILLINOIS)
) SS
COUNTY OF C O O K)

BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS

HERMAN W. PRESCOTT,

Complainant,

vs.

PCB 90-167

THE CITY OF SYCAMORE,
ILLINOIS,

Respondent.

June 2, 1992
1:00 o'clock p.m.

City Hall Council Chambers
535 De Kalb Avenue
Sycamore, Illinois

The proceedings
were resumed pursuant to recess.

BEFORE:

MR. MARVIN MEDINTZ
Hearing Officer.

APPEARANCES:

Mr. T. Jordan Gallagher
Gallagher, Klein & Brady
Suite 300, Hillcrest Centre
444 East Hillcrest
DeKalb, IL 60115

appeared on behalf of Complainant;

Mr. Peter Thomas Smith
Smith & Strauss
207 West State Street
Sycamore, IL 60178

and

Mr. Timothy W. Johnson
315 West Elm Street
P. O. Box 327
Sycamore, IL 60178

appeared on behalf of Respondent.

Also Present:

Mr. Herman Prescott,

Mr. Syd Albrecht,
Water Department Superintendent,
City of Sycamore;

Mr. Kevin G. Lookis,
Vice President,
Hydronics, Inc.,

Mr. Leonard A. Lindstrom, P.E.,
Regional Manager,
Field Operations Section,
Division of Public Water Supplies,
Illinois Environmental Protection Agency

HEARING OFFICER MEDINTEZ This is the resumed session in the case of Prescott versus Sycamore, 90-187.

I neglected to mention one additional responsibility I had as hearing officer this morning, and it's one that I take very seriously.

I am occurred by the Pollution Control Board's Procedural Rules to make a statement of record as to whether or not I think there is any concern regarding the credibility of witnesses.

As the Board is not here and cannot observe the demeanor and the bearing of the witnesses under the questioning and examination by counsel, they rely on the Hearing Officer's statement regarding credibility and I will make such a statement at the conclusion of the evidentiary portion of the hearing.

Will you call your next witness?

Thank you.

MR. GALLAGHER Thank you

I call Mr. Lindstrom.

(The witness was sworn.)

LEONARD A. LINDSTROM, P.E., called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

By Mr. Gallagher:

Q. Would you state your name and spell your last name for the court reporter, please?

A. My name is Leonard Lindstrom.
L-i-n-d-s-t-r-o-m.

Q. And what is your business or occupation, sir?

A. I work for the Environmental Protection Agency, the State of Illinois. I'm with the Division of

Public Water Supplies

Q. And you work out of one particular office?

A. I actually work out of two offices. I'm the supervisor of the office at Elgin for Region II and supervisor of the office at Rockford for Region I.

Q. And is the City of Sycamore in one of those regionals?

A. Yes, the City of Sycamore is in Region I, the Rockford Region.

Q. Can you explain to the Hearing Officer your educational background, sir?

A. I have a Bachelor of Science Degree in Mechanical Engineering from the University of Wyoming in 1954.

I have been with the State of Illinois Division of Public Water Supplies of the Illinois Department of Public Health and the EPA since 1968.

The EPA didn't start until 1970.

And I am a Professional Engineer in the State of Illinois.

Q. When were you licensed?

A. In 1962, I believe.

Q. And in your career with the State of Illinois, have you held various positions?

A. Primarily, I've worked for the Division of Public Water Supplies.

Q. And worked up to the point where you're now supervisor of two offices; is that correct?

A. Correct. The acting supervisor of one. They just need to hire someone for Region I.

Q. During the years of 1989 up until the present, were you the supervisor of those offices?

A. Yes, I was.

Q. Calling your attention to

late '89 or middle of '89 up through 1990, did you become aware of a problem involving the water in the City of Sycamore?

A. I did. I believe it was late in the -- late in the Fall when Mr. Prescott came to our office in Rockford and reviewed the problem with us.

Q. And what if any action did your Agency take?

A. Well, prior to the time that Mr. Prescott had come, there had been representatives from our office who had been in Sycamore.

Since I don't get over there, I'm not full-time over there, they do handle a number of complaints of the various Public Water Supplies and more or less treated them as though they were just a typical complaint.

After Mr. Prescott's visit, then I did make a personal visit.

here to Sycamore.

Q. And did you review records of the Agency before coming down for that meeting?

A. Yes, I did.

Q. And who was that meeting with, sir, if you recall?

A. Well, I can recall Mr. Albrecht, the Water Superintendent, was there.

The Mayor at that time I think. I'm not sure what his name was.

And the Council people were there and myself.

Q. And was there some discussion about the water in the area where Mr. Prescott lives?

A. Yes. That's what I came down to discuss.

Q. And what area was that?

A. The area is the northeast area of Sycamore. It's the Sabin Street, Exchange and Sycamore Street, over in

that area.

Q. And what was the nature of the complaint that was discussed?

MR. SMITH: Pardon me a moment. I have no object.

I don't believe a proper foundation has been set yet for the meeting, particularly with regard to time, place, and date, things along those lines.

By Mr. Gallagher:

Q. Okay. Do you recall --

A. If it's all right if I look at my notes.

Q. But you don't have any independent recollection without reviewing your --

HEARING OFFICER MEDINTZ: Why don't you ask him the questions.

Don't refer to your notes. We have to go through the process first.

By Mr. Gallagher:

Q. Do you know, as you sit there right now, do you know the approximate time of that meeting?

A. It was in the afternoon.

Q. Do you know approximately the date?

A. I believe it was in December, but I'm not sure of the date, 1988.

Q. Was there anything that would refresh your recollection?

A. Yes. I have my -- Well, I have referred to it in the letter, other notes that I have in my file.

(Whereupon Complainant's Exhibit No. 7 was marked for identification.)

By Mr. Gallagher:

Q. I'm going to show you what I've marked as Complainant's Exhibit Number 7 and ask you to take a look at that.

First off, have you seen that before?

A. Yes.

HEARING OFFICER MEDINTZ: Excuse me. Could you, for my record keeping, tell me what the exhibit is?

MR. GALLAGHER: Yes.

By Mr. Gallagher:

Q. And what is that?

A. This is a letter that I wrote to the City of Sycamore.

Q. And after reviewing that letter, can you tell me approximately when that meeting was?

A. It was held December 7, 1989, at the Sycamore Water Department Office.

Q. And does that refresh your recollection of who was present?

A. Again, Mr. Albrecht, the Mayor, I see it was Mr. Johnson at the time, and most of the Council members we met out back here in what was then the Water

Department office and discussed it in there.

Q. And can you relate what the nature of the complaint that was discussed was?

A. The nature of the complaint was that from Mr. Prescott's visit and from reviewing with the people from our office who had been out that there were complaints of red water and of some odor, black water.

Q. Based on your training and your experience, what causes red water, black water and the odor?

MR. SMITH: I would have to object. I don't believe there's been a proper foundation laid by way of experience.

HEARING OFFICER MEDINTZ: I think you can ask him some foundation questions as to what he has done during his more than two decades in Public Water Supplies.

By Mr. Gallagher

Q. Mr. Lindstrom, in your duties working with both the Department of Public Health and the EPA in the Water Division, can you describe starting I guess at the beginning of your career I guess what your duties were and what type of work you did?

A. Well, I might state just a little previous to the EPA I worked for a major oil company and then a major service company. I have considerable experience in geology and engineering with respect to wells.

With the service company I did a lot of work with water treating in the oil field and there improved my experience with testing and looking at corrosion control of oil field brines (phonetic).

In 1968 I went to work for the Health Department. At that time I

worked on the public water supplies and on the swimming pools, both of which again are primarily water-related problems that we're looking at, bacteriological contamination and also from corrosion, corrosion that occurs in the system and in the piping.

In 1970 we became or I was transferred from the Health Department to the Environmental Protection Agency at Rockford and have worked with the Public Water Supplies over there.

Then was transferred to Aurora and over there I worked with the Chicago Public Water Supply and all of the water supplies in the surrounding area.

We have a great number of -- Well, we have -- When I first came to Aurora, we had a great number of red water problems, black water problems in those systems in the Aurora area, so I

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have spent a great amount of time working with customers, with water users who are not satisfied with their water quality because it's red or black or smells and attempting to determine what is the problem and what can be done to correct the problem.

Q. I know this is probably a difficult question, but could you estimate for us how many different water systems you have been involved with, either overseen or dealing with complaints?

A. Well, there are nine hundred water supplies which we supervise? Region I and Region II, approximately half the water supplies in the State.

Q. And approximately how many complaints have you dealt with since you started with the State of Illinois?

A. In Elgin where we are now we have a full-time person who handles

complaints and I didn't. Probably twenty a month from the various water supplies. Sometimes it would be the same water supply over and over again, but a great number of complaints.

Q. And back before you became supervisor did you also work with complaints?

A. Yes.

Q. Based on your training and your experience now, can you explain for us what causes red water?

A. The red water is caused by iron, usually iron oxide or iron hydroxide.

It's either present in the raw water from the wells, and when it's aerated or chlorinated it's oxidized.

As it comes out of the wells it dissolves so the water is very clear, you can't see the iron and you can't see a problem. When you oxidize the iron, it turns red.

It can also then come from the dissolving the cast iron water mains and the iron there then can be oxidized by the chlorine and form red water.

Q. And what remedy or what are some of the remedies to correct the red water?

A. Well, the remedies, if it comes from the well itself, are to put in iron removal. There you oxidize the iron and then you filter it out of the water so that the iron is gone when you pump it through the distribution system.

In the distribution system itself, it's either adjusting the pH of the water or using a phosphate, something to help with the corrosion and to reduce the time that it spends in the mains.

We have what I call low flow areas in mains, areas where the water just tends to go, and rather than flowing through that area, it's just used

by the people, therefore, it's in the cast iron pipes quite a while and here it will begin to dissolve the iron from the pipes and as it's dissolved, it uses up the chlorine because chlorine oxidizes the iron.

And then we find in these low flow areas that often bacteria will grow, not hazardous or pathogenic, pack bacteria, but they seem to be various types of bacteria and they seem to speed up the corrosion process so that you get these areas that will have red water problems considerably out of proportion to the amount of area there is or these users have a great number more problems than the town as a whole do.

Q. And chlorination of the water will help alleviate the red water problem?

A. Well, it alleviates -- Chlorination of the places where these

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biofilms form will get rid of the bacteria there, but the chlorination, no, it causes the oxidation of the iron and it turns it red.

Q. What about the black water problem, what causes that?

A. The black water is iron sulfide, and what you do is you produce -- you don't produce iron sulfide out of wells because it's a solid material and when the water comes out of the wells it's very very clear.

Sometimes the water coming out of the wells will have hydrogen sulfide in it. This then combines with iron in the pipe to form the black iron sulfide.

At other times the raw water from the well will have dissolved iron and no hydrogen sulfide, but will have sulfates. And there is a type of bacteria, sulfate reducing bacteria which

reduces the sulfates to sulfides and form black iron sulfide and, therefore, you find it out in the system even though the water in the well was very clear and showed no problems at all. you get out in the distribution system and find some people are troubled with this black iron sulfide or the smell of rotten eggs which is the hydrogen sulfide.

Q: And the odor, that was going to be my next question, that's caused --

A: That is the hydrogen sulfide. It smells like rotten eggs because it is what rotten eggs produce as they rot, they get the hydrogen sulfide in them to give them that particular smell.

Q: And what are some of the remedies you can use for the black water in the water?

A: Well, the black water, if the hydrogen sulfide is dissolved in the raw water, then it needs to be aerated there

to take it out of the water and to be chlorinated.

If it's developing out in the distribution system, then you need to maintain a chlorine residual out in the distribution system so that the sulfate reducing bacteria, they just don't do well in an oxidizing -- where there is a chlorine oxidizing atmosphere. Therefore, by maintaining the chlorine residual you can get rid of the hydrogen sulfide and black iron sulfide.

Q. Are there minimum requirements for the chlorine residual?

A. We do have minimum requirements in our technical policy statements. It's Title 35 Subtitle F, Chapter 2, and a section in there does require that in all active parts of the distribution system there either be a free residual of .2 milligrams per liter or a combined or total residual of .5 milligrams per

liter.

Q. You say "combined" or "total," are those terms interchangeable?

A. Yes, they are.

Well, the total is the free plus the combined, but when you measure, you measure the total or you measure the free.

Q. At this meeting and based on the records of your Agency, were you able to determine whether there was a problem in the northeast section?

A. Well, not -- We always have -- The thing that tells you you have a problem is generally the complaints of the people and so this really, or this type of a problem, generally the only way you can tell if you have much of a problem in the distribution system, in some area of the distribution system, is from the complaints that the people have about the water quality.

(Whereupon Complainant's
Exhibit No. 8 was
marked for
identification.)

By Mr. Gallagher:

Q. Mr. Lindstrom, can you tell us
who Walter Purcell is?

A. Yes. Walter Purcell was an
employee in the Rockford office. He
retired this last December.

Q. And did he work under your
supervision?

A. Yes, he did.

Q. I'm going to show you what I
have marked as Complainant's Exhibit
Number 8, which purports to be a letter
from Mr. Purcell to the City of
Sycamore?

A. Yes, it is.

Q. Okay. And that letter makes
reference to a survey?

A. Yes, it does.

Q. And does your Agency from time to time conduct surveys --

A. Yes, we do.

Q. -- when you have complaints in an area?

A. Right. When we're trying to determine how severe a problem is.

Usually with most types of problems there's also a cost involved, and so that where everyone will say "Yes, I would like to have better water if it doesn't cost anything."

If they recognize that there's a cost involved, they often change their mind.

And so we use these surveys primarily where we have problem areas usually with water quality of this type, red water problems, to determine if the people are satisfied with water and if they would be willing to pay more to have it corrected.

In this case I think the form just primarily was were they satisfied with the water, but typically we use this to judge the severity of the problem based on whether they're willing to pay to correct the problem.

Q. And can you tell us how that survey is conducted?

A. What we do in most areas, if it's not too large, is to send out to everyone, make a mailing.

We write up the survey form, we make a mailing to everyone in town.

In this case, because it was only the northeast area of town, I went through, picked up the addresses in that area, and then we just mailed out to the addresses in that particular area of town.

Q. And do you recall what type of response you received?

MR. SMITH: I have to object at this point.

✓ We have testimony with regard to a survey. There hasn't been a proper foundation laid or any testimony with regard to the results of the survey.

We have a letter that has been marked, but has not been sought to be introduced and which is really -- and a double hearsay situation, both with regard to the letter and with regard to the survey and with regard to apparently the man who wrote the letter who may have been involved in conducting the survey.

There is no way that I can effectively confront this evidence. I can't cross-examine it and, again, we have a double hearsay situation.

MR. GALLAGHER: At this point, I'm not seeking to introduce the letter, but I'm having Mr. Lindstrom testify about

the survey.

I think he just testified he's the one who got the addresses. The questionnaire was sent out.

And my question was simply what were the responses, not substantively, did they receive any responses.

And then my next question would be, "If so, how many?".

MR. SMITH: We are going to the results of the survey at this point.

HEARING OFFICER MEDINTZ: We are not quite there, yet, and when we get to what the survey results indicated, I would like you to renew your objection and have further discussion on it because the survey area is a difficult area for me as a Hearing Officer and for the Board as the Trier of Fact and the Ruler On Law.

If you could continue laying the foundation regarding the

survey.

MR. GALLAGHER: Thank you.

By Mr. Gallagher:

Q. Mr. Lindstrom, do you know how many responses you received back?

A. No, I don't.

Q. Okay. Is there anything that would refresh your recollection?

A. Yes. This letter and summary would.

Q. Okay. Would you review that and see if that refreshes your recollection?

A. Yes, it does.

Q. How many responses did you receive?

A. Sixty-two.

Q. Without telling us any results, can you tell us what areas were surveyed, what questions were asked?

A. The questions asked were just merely is the water acceptable, is the water quality acceptable, or, is the water

quality not acceptable I believe was how it went, and with a place for explanations for additional comments on what was the problem with the water or whatever they wanted to say about the water.

Q. And those were mailed back to your office, then?

A. Yes. They're sent out -- I believe these had self-addressed and stamped envelopes.

They're sent out from Springfield, and then those people, approximately I think -- at least a hundred were sent out and these many came back, were mailed back to us.

Q. And then your office compiles the results; is that correct?

A. Correct.

Q. And the attachment to the letter which is marked as Complainant's Exhibit, Number 8, that is a compilation of those

results?

A. Yes, it is.

MR. GALLAGHER: At this time I would offer it so at least we can get into the discussion.

HEARING OFFICER MEDINTZ: I have another question or two regarding the conduct of the survey.

Who selected the addresses?

THE WITNESS: I did.

HEARING OFFICER MEDINTZ: From what list or appendix did you get the addresses.

THE WITNESS: What I did was drove through the northeast corner.

We didn't want -- Many of the people in Sycamore in our opinion do not have a water quality problem. We did not want to send out a survey to everyone in Sycamore.

This seems to be a very

localized problem in the northeast corner of Sycamore, therefore, I drove down those streets which would be Sycamore, Exchange, Walnut, Elm, Governor, Sabin and there's one other, Vista, and just wrote down the addresses and we just mailed them out to "Occupant" of those particular addresses.

HEARING OFFICER MEDINTZ: What is the purpose of the survey? What response do you -- For what purpose is the survey taken?

THE WITNESS: The survey here was taken to decide, to try to decide -- This was a problem for me to decide how serious this particular problem was.

Every one of us have some water problems occasionally, and it is difficult. Sometimes there is no problem at all. It's very easy to see there's a problem and it's a serious problem. At other times it's more difficult to

determine how serious the problem is, just how much money and time should be spent on it.

And this was primarily to get tape a better idea of the seriousness, how many people would answer the inquiry and how many would indicate that the water was not acceptable or was acceptable.

HEARING OFFICER MEDINTZ: Then when a survey is taken, that means that yourself or somebody else in the Division of Public Water Supplies has determined that there does exist a problem and the purpose of the survey is to define the parameters of the problem. Is that correct?

THE WITNESS: Well, if I could go a little bit more in explanation.

What it is, we do not have Rules and Regulations of maximum contaminant levels for red water problems

in effect and so it is a case where we look at these under a section of the Environmental Protection Act, Chapter 2 --

It's not the Act, but the Rules and Regulations -- which says that the water will be assuredly safe and assuredly clean.

So this then is to help us make a judgment on whether or not -- Rather than -- since there is no particular standard here, enforceable standard, then whether or not this in general, it exceeds -- the water quality is not -- people perceive it as not being satisfactory for ordinary domestic use.

HEARING OFFICER MEDINTZ: But you don't select areas randomly to send these surveys to?

THE WITNESS: No. We either send them to everyone in the community or in this case we selected the area with the problem.

HEARING OFFICER MEDINTZ: How did you determine that enough of a problem in your mind existed for you to go through and compile a hundred or so addresses and arrange for a questionnaire with a self-addressed stamped envelope to be sent?

THE WITNESS: Right.

One of the first things that had been done before I really was involved in this in June and July of 1989, Mr. Prescott took to the people in the area a petition and quite a number of people in that area signed this petition about the problems they were having with the water.

We -- One of the representatives from our office over there had gone door to door to some of the people and some of them had indicated that there were complaints.

In addition to that, we

checked the chlorine residual in the area, which is an indication, and found that part of the area over on Sabin Street and in that area there was without a chlorine residual, indicating that there was corrosion and the possibility of being a red and black water problem.

HEARING OFFICER MEDINTZ: Now, when you sent out the letters, did you also, for lack of a better phrase, send out some placebo letters to areas where you don't expect problems to act as a control to see whether you're dealing with just a group of malcontents or whether that there are real problems?

THE WITNESS: No. From that standpoint, it still leaves you with that question.

HEARING OFFICER MEDINTZ: You may proceed and I apologize for intruding on your examination.

MR. GALLAGHER: Not at all.

At this time I would offer the survey. Just the survey not the letter.

MR. SMITH The survey results alone?

MR. GALLAGHER Yes

MR. SMITH May I see them?

MR. GALLAGHER Sure

MR. SMITH And I would object.

HEARING OFFICER MEDINTZ And the basis for the objection?

MR. SMITH One of the foundation requirements for a survey of this type is that the methods and the circumstances did not suggest answers favorable to the parties sponsoring the survey, and there's been no showing of that.

In fact, I believe, if there was a closer examination, it would show that the first group picked was one where there were, from this witness's testimony, malcontents, including

Mr. Prescott, who is here with a complaint now, and also that the survey questionnaire referred to problems and suggested that there should be such a problem and that the order of the questions was not varied so that the "unsatisfactory" was always the first one available to be picked.

There is an inherent bias in people to hit the first button. The politicians know that well, that's why the first position on a ballot is particularly important, and there's simply been no showing that the methods and the circumstances did not suggest the answers.

MR. GALLAGHER: If I might, in response, I think Mr. Lindstrom has testified to the survey document as either "acceptable" or "not acceptable" were your only two choices and then a place for comment, and they compiled

those comments.

But just by having a comment certainly doesn't suggest any answer as to what the the problems, if any, are.

It was sent out and these people aren't just walking into a voting booth and marking. They had to take it, look at it, mark it, and then mail it back, albeit at no expense to them, but to place it into -- to take some steps to place it in the United States mails to mail it back.

I don't think there's been any evidence other than it was a fairly drafted document, "you find your water, acceptable or not acceptable and do you have any comments," and that's what the results show.

MR. SMITH: Mr. Hearing Officer, we don't have the questionnaire before us.

Counsel's statements are

basically speculation based on hearsay.

MR. GALLASHER: No.

MR. SMITH: And it is really a hearsay that comes from Mr. Lindstrom because we don't have the document before us.

One of the things that is missing from this --

HEARING OFFICER MEDINTZ: Is the document here?

MR. SMITH: -- Is the total number that it was actually mailed to, the nonresponses should really be recorded as an acceptable response because these are people who didn't feel that there was enough of a problem to complain and we don't have an accurate one.

HEARING OFFICER MEDINTZ: I believe Mr. Lindstrom's testimony was approximately a hundred were sent out.

But I am troubled -- I wasn't aware until now, and I haven't

seen the document being tendered, that the questions are not contained therein. We simply have a tabular result which troubles me because I don't know what those answers and the Board won't know what those answers refer to.

MR. GALLAGHER: I think Mr. Lindstrom testified that the instrument was "acceptable," "not acceptable," and "comments," and the compilation is "acceptable," "not acceptable," and then they broke the comments down into categories, if you will.

And they recorded how many commented on this category, how many comments on this category, and how many commented on this category.

Those were comments, they were not questions.

MR. SMITH: Mr. Hearing Officer, I believe there was much more to the questionnaire than that, including a lead

in and paragraph or two.

THE COURT: Is there a copy of the questionnaire in the hearing room?

THE WITNESS: I have a copy of that I believe in my file.

HEARING OFFICER MEDINTZ: Is your file present with you today.

THE WITNESS: Yes, it is.

I will need to dig here a little bit.

I have one problem with this one. I have copies that have the person's name on it. Usually, we don't give out the names themselves, but here are copies of the surveys but this one I suppose we could tear the ---

HEARING OFFICER MEDINTZ: We could redact the names as is necessary, if one were to be tendered as an exhibit.

THE WITNESS: All right.

MR. GALLAGHER: Perhaps I should mark it.

THE WITNESS: It should be taken off. It's signed and the comments are at the bottom.

HEARING OFFICER MEDINTZ: I would leave the name on it for now, and should it be offered as an exhibit and admitted as an exhibit, we should excise the bottom portion of it.

(Whereupon Complainant's Exhibit No. 9 was marked for identification.)

-By Mr. Gallagher:

Q. Mr. Lindstrom, I am now going to show you what's been marked for identification as Complainant's Exhibit Number 9 for identification which purports to be a survey or questionnaire that was sent out; is that correct, sir?

A. Yes.

Q. And this is the instrument that you testified to earlier?

A. Yes.

Q. And there is a lead in paragraph explaining the purpose of the survey?

A. Yes, there is.

Q. And what are the next questions or are they phrased as questions?

A. Well, not as questions. We ask that you check the appropriate box below.

Q. And how many boxes are there?

A. There are two.

Q. And what are the choices?

A. "Water quality is not acceptable." "Water quality is acceptable."

Q. And those are the only two choices they have?

A. Yes.

Q. And then below that, what is there?

A. A place for the signature, the address, and comments.

Q. And this compilation which is

part of Complainant's Exhibit Number 8, and I've marked it as 8 A, that is a compilation of the results of that survey; is that correct?

A. Yes. Mr. Purcell went through these and tabulated the street address, whether they had marked acceptable or not acceptable, and then when they had made comments he checked those off as being -- And the one person might have had more than one problem and then he did tabulate what were their comments on what the problem was.

Q. In the compilation of the survey, the first two columns are "acceptable" and "not acceptable"; is that correct?

A. Yes.

Q. How many other columns are there?

A. Six.

Q. And those are specific types of

complaints?

A. Yes.

Q. And if someone commented in the comment area, made a complaint about one of those six areas, then he would have checked in that area, is that correct?

A. Correct.

Q. So the compilation of the comments is still shown in those six columns, instead of writing out all the comments?

A. Right. Yes.

MR. GALLAGHER: At this time I would offer Complainant's Exhibit 9 which is the instrument, as the instrument that was used with the idea that if it's admitted we would redact the name and address.

MR. SMITH: I have no objection to 9 as it is simply a questionnaire.

I have no problem with redacting the name, but I still continue

to have problems, especially in light of the questionnaire, with the results of the survey.

The results of the survey again do not show the exact number that's been sent out. Mr. Lindstrom cannot testify to the exact number sent out. We are dealing only with those who responded and the questionnaire itself does suggest both by the order of the request and by the statement of a problem at the top that an appropriate response might be that there is a problem with the water.

HEARING OFFICER MEDINTZ: I'm going to overrule the objection for a couple of reasons, some legal and some practical.

First is the practical one which is if I sustain the objection, at that point counsel is going to be obligated to perform an offer of proof and at which point it will be in the record and if the Board determines I was

wrong, they will basically overrule my exclusion and it will save the time and difficulty of sending me back out here to hold an abbreviated hearing simply on the issue of the questionnaire.

The other reason is I am admitting these not as proof that a problem -- Not as proof that a problem existed in this area, but rather as an investigative tool that is used by the Agency to determine whether or not a problem may exist and to determine what types of corrective actions, if any, may be taken.

I think the nature of the survey conducted here renders it of some probative value as an investigatory tool, but I think the problems that you described of it being hearsay upon hearsay, especially the fact that it was tabulated by an individual who cannot testify as to how the various tabulations

were made, especially regarding the comment portion, is well-founded and, accordingly, I think the document, not having seen it, but I think the document as described by the testimony is not particularly probative of the fact that there may or may not have been a violation of any applicable state standards.

As an investigatory tool, I think the questionnaire and the results are admissible.

MR. SMITH: Mr. Hearing Officer, I would further object then, if it is to be considered simply as investigatory tool. I would object to its inclusion into the record because there's an improper foundation laid for this to be an official record.

It is an investigatory tool. It is not probative and as such, it's not relevant to the nature of the

inquiry here which is basically whether the chlorine residual was adequate or not and it prejudices my client's case in this matter.

HEARING OFFICER MEDINTZ: I respectfully disagree.

MR. SMITH: I understand.

MR. GALLAGHER: Thank you.

By Mr. Gallagher:

Q. Mr. Lindstrom, you indicated that as part of your investigation certain tests were conducted to determine chlorine residuals; is that correct?

A. Yes.

Q. And those were done by you and your Agency?

A. Correct.

Q. Can you explain to the Hearing Officer how those tests were conducted?

A. We run chlorine residual tests as I explained a little earlier.

If there is a chlorine

residual there, then we don't feel like we have black water or hydrogen sulfide, nor do we find any bacteria or this biofilm which increased the amount of corrosion, therefore, we use it as a way of looking to see where the problem is or where there might be a problem or whether we don't believe there would be a problem.

The test is run both from the hydrants and from the people's homes. I like myself to use the hydrants because the problem usually exists in the distribution mains as well as in the plumbing, and we usually ask the Water Superintendent to open the hydrant, we run it for five to ten minutes because each hydrant has a barrel where that portion of the water right next to the the hydrant doesn't have a chlorine residual, and then we have a test kit in which we take two tubes of water and we

use a DPD reagent, we put it in the water, and then we observe the little colorimeter slide type thing -- It's circular -- Now red, in this case, the DPD. If the chlorine turns red and we match it against the slide, that tells us approximately the chlorine residual in the water.

Q. Mr. Lindstrom I'm going to show you what has been previously marked as Complainant's Exhibit Number 2 for identification.

Take a look at that. Can you tell the Hearing Officer what that is?

A. Yes. This is a chlorine test kit. It's manufactured by a company that manufactures these called Hach, H-a-c-h, I believe it is. H-a-c-h. And it is also the type of test kit which we use.

You fill both of these bottles, you put the reagents which is

our little powder pillow, you take it out of here using the clippers, take the end off the little powder pillow, put it in the water and shake it and then give it time to let it react.

You can look through the

There's two holes here, and the color of the red of the slide shows up in this one and you compare it with the color that you get in the water.

And, in that manner, why we estimate the chlorine residual estimate in the water.

Q. And that's the system the Illinois EPA uses to determine --

A. Yes. We do use this same equipment.

Q. Now, having used similar equipment like that, your Agency conducted tests in the Sycamore area; is that correct?

A. Yes.

Q. And, as you sit there, do you recall when those tests were conducted?

A. I believe it was in May or June of 1990 when I came up. And Mr. Albrecht and I went out and opened the various hydrants and I checked the chlorine residuals. And then later Mr. Purcell had come over and checked some of the chlorine residuals at the homes.

Q. Mr. Lindstrom, I'm going to show you what I have marked as Complainant's Exhibit Number 7 for identification which purports to be page 2 of the letter that you referred to earlier that you sent, is that correct, sir?

A. Page 3. Yes.

Q. Or page 3, I'm sorry.

And there are certain numbers listed by columns; is that correct?

A. Yes, there are.

Q. And I think the first column is entitled "location"?

A. Correct.

Q. Now, this is a letter you prepared; is that correct?

A. Yes, it is.

Q. And what do those columns -- Generally, what do those represent?

A. Well, the first column is the location.

On May 8th, across the top then, are dates of when these chlorine residual tests were made.

May 8th was the date, I believe, when I came up and we looked at the hydrants, opened the hydrants and checked the chlorine residual.

In general, what it indicated to me, as you got farther west from the area, when you got over to Walnut Street there was a good chlorine residual in the distribution system, but

as you got over to the very corner of town, Sabin Street which runs along the east side of town there, we did find two hydrants with no chlorine residual.

There was also a couple other hydrants in that area that we couldn't open either because -- I don't remember if it was because they were difficult to open or they just weren't working at that time, and so these hydrants were kind of in the center of the area there and they're not present here on this tabulation.

Q. In addition to the hydrants, for location, there's also some streets that are listed there?

A. "SER" stands for service, service apt, and then the "485" is the house number and "Exchange" is the street.

And these I believe were done by Mr. Purcell who came over -- If it

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wasn't him. It might have been one of the other people in the office -- and measured these chlorine residuals at these various houses.

This was done, May 23rd, May 31st, June 6th, June 14th, and June 26th.

Q. And these measurements -- Are these measurements of free chlorine or total or combined?

A. My measurements were total.

The measurements of these others were both free and -- Both measurements were made free and total.

And I do not -- I certainly think that I would have put down total, but I do not know for sure.

Q. And they're related in tenths percentage?

A. What we recommend to the public water supplies is that there be one milligram per liter at the well.

If you try to turn the chlorine up too much higher, then you have objections from the people who are close to the well.

And so we recommend, we start with one part per million and then measure what you get and in all active parts of the distribution system you should have at least .23 or .5 total.

Q. I also note there is a couple notations that have a "TR" before the "CL"?

A. In this case that was "trace."

Q. Which would be less than .1?

A. Which would be less than .1.

Q. Now, these tests were conducted either by yourself or by someone under your supervision; is that correct?

A. Correct.

Q. And, again, you probably made notes and then compiled them into this letter; is that correct?

A. Right. This is just a compilation of the tests that were run on those particular dates.

We tried to go over more than once because one measurement of anything does not mean too much.

The more data that you have, the more likely you can -- Well, you see trends or averages or what is there more of the time, so we try to go more than once and get more than one bit of data.

MR. GALLAGHER: At this time I would offer Complainant's Exhibit Number 7 into evidence.

It has a paragraph above it and two paragraphs below it that I'm not offering as evidence as a part of the regular letter, but just to the chlorine residual measurement.

MR. SMITH: I would object, Mr. Hearing Officer. I would object as

to foundation. There have been no testimony here that the instructions were actually complied with for the test kit.

Of the readings that are present here, only one of them was actually conducted by the witness. The other was conducted by someone else in his office, conducted not pursuant to a normal standard required operation which would make it a public record, but instead pursuant to a special investigation that was being done and it does not show either free or combined. Of this witness's own testimony, it shows total.

And the Regulation before us and the issue before us deals with free and it deals with combined, but it does not deal with total.

I would also suggest that the method of testing here is not one that is either qualitative or

quantitative, but instead is simply a field test.

HEARING OFFICER MEDINTE Response:

MR. GALLAGHER He testified that he was here on May 8th and there's more than one test that he conducted. The other tests were conducted by people under his supervision.

He testified that this is the testing mechanism that is used. It is used by the Illinois Environmental Protection Agency in determining chlorination.

And he described how the test was conducted which is consistent with, as the Hearing Officer is aware, the directions from the testimony this morning, and he testified to instructions.

MR. SMITH: Actually, Mr. Hearing Officer, he did not testify that he complied fully with those directions and

instructions

HEARING OFFICER NOVAK: Well, I don't know what the directions and instructions are because I haven't been made privy to them yet.

He has testified that he conducted some of the tests. He has testified that he has been professionally active in the public water supply area for in excess of twenty years at the time the tests were performed.

I may be making an improper leap of faith as Hearing Examiner to believe that he did the tests in a professional and workman like manner, and so, accordingly, I will admit the test results in evidence.

MR. GALLAGHER: Thank you.

(Said document, heretofore marked Complainant's Exhibit No. 7 for identification, was

admitted into evidence

to wit, as follows:



By Mr. Gallagher

Q. Mr. Lindstrom, as a result of the tests that were conducted and your investigation and your meeting with the City, did you determine whether or not there was a problem with respect to chlorination in that area?

HEARING OFFICER MEDINTZ: Excuse me. Could you read the question back? I lost it.

(Whereupon the record was read.)

THE WITNESS: I most qualify that this is one of the difficulties of the thing that you did not find any large area of no chlorine. There were chlorine at most of the tests. It was a little difficult to -- There is a -- I determined that there was a problem. The chlorine in the area was generally low, but since there was chlorine in many places, at many times it was difficult to

judge just how much of a problem, problem this was.

Q. Were there locations where there was no chlorine?

A. Yes, there were locations where there was no chlorine.

Q. Did you have any recommendations to the City on steps they could take to ensure that there would be chlorine residual at every point in the distribution system?

A. To a certain extent what we're saying here is active parts of the distribution system.

I don't know that anybody has chlorine in every part of every distribution system. In fact, I'm quite sure they don't.

But certainly I did recommend steps to the City to attempt to improve or increase the chlorine residual in this area so that we wouldn't be able

to say the problem here was growth of nuisance bacteria and problems that were unnecessary to these water users, so I did recommend things that would increase the chlorine residual in that area, yes.

Q. And what were those recommendations?

A. Basically, on the chlorine residual, my experience has been that most towns will flush an area, a dead end or an area, and in flushing it they open the hydrant quite wide, flush out the red water and flush in the chlorine residual and they will shut the hydrant down and that area is flushed.

And it's been my experience in a number of towns, Lockport, DuPage Utility Company, Fox River Grove, just to name a few of the problem areas we've looked at, that what happens, you often in some of these areas, in these low flow areas, do get a growth

of bacteria, a biofilm, on your mains and on the plumbing, and this flushing doesn't help.

What seems to help the most is to open a hydrant, even if it's every day. Let it run until you have a chlorine residual. Go back the next day and let it run until it has a chlorine residual.

This is a considerable amount of work and certainly has been met with skepticism with a great number of the towns. But we have found that by persistence and getting the operators to do this, we can in most cases even find that the chlorine will begin to hold for at least three or four weeks to a month.

In some of these low flow areas it's just necessary to go back and to open hydrants and to let them run.

We have some areas in one town where -- well, in two towns, really.

where they just run the hydrants in these areas continuously, not at a large rate, but at a small rate to maintain a chlorine residual and just to reduce the black water, red water and problems that the users in that area have.

But this area, the results we got were not typical of some of the areas where we would just find no chlorine residual in a low flow area, here we found several places where we find no chlorine residuals, other places where there were. It was a very spotty thing.

Q. The area that Mr. Prescott lives -- By the way, have you been to his residence?

A. Yes, I have.

Q. In the area where he's located, is that what you would characterize as a low flow?

A. He is in the or at the edge of

the low flow area

I had considered that Mr. Prescott's problem was more a case of the service line -- It's not a service line, it is a main.

What this is, these condominium's where Mr. Prescott lives is a new addition here in Sycamore. It was built, I believe, where there used to be a school and the condominium was built north and south, where typically the houses would have been built east and west along the road, so this was built into the property.

And, although I didn't see the line being installed and I don't know that it was unlined, it appeared to be an unlined, cast iron main, that was run into. I believe it was a six inch, but it was dug across the street and down in front of these condominiums.

And that particular area

where Mr. Prescott is, this constitutes just an unlined dead end which, certainly, from my experience, creates a problem almost any place and in this case I don't know that -- What I was really trying to do is to ensure that we had a chlorine residual in the whole area so that we could pin the problem down and say well it's this dead end main, but we just never got that -- We just didn't get the chlorine residual improved much in the area, and so there is always going to remain how much the dead end -- how much of the problem is the dead end, how much of a problem there is because there's not much chlorine in the area to start with.

Q. If you have a dead end main, would that cause or could that cause a low chlorine residual?

A. Yes. When you have a lead -- an unlined dead end main, then the water reacts with the metal in the pipe, it

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dissolves the iron from the pipes and reacts
with the iron, and then the chlorine is
gone.

The iron. The water sits
there. Since only it's a six inch main
you're only using a little bit of it with
what the condominiums do and the other
two houses there, so it promotes the
growth of -- not always do we get this
growth of bacteria, this biofilm that
speeds things up. If we do get that in
the dead end, then certainly we have an
enhanced red water/black water odor
problem.

But, no matter what, in a
dead end main, even though we don't have
a growth problem or a biofilm, still the
water does dissolve the iron from the
pipes in most of the well supplies and it
creates red water problems. Almost
anyone living on a dead end will report
red water problems.

Q. And also a low chlorine residual?

A. Yes. Because since -- Well, there is one other third problem. This was not an easy problem.

In addition to that we had a -- The wells here are deep wells, but the early wells were drilled and only cased through the drift and through the upper parts of the formation.

And in the later wells, Wells Number 6, 7, and I don't have a lot of data on Well Number 8, they were cased through what's called the Galena platy fill and through the drift and these wells are low in iron and low in sulfates.

But the early wells were not cased that deep, Number 1 and Number 3.

And Number 1 we ran two tests on it and had a previous test that

our Ground Water Section had run on it which showed it had had iron in excess of 1.5 milligrams per liter, and the recommended secondary standard -- The Illinois EPA has a standard of 1 milligram per liter as the maximum contaminant level for iron. When it exceeds that, then treatment must be provided.

In this case treatment is provided in the form of phosphate; however, the recommended secondary standard for iron, where it doesn't cause these red water problems, is .3, and although one part, 1.6 compared with 3 doesn't seem like a great difference, any time the iron coming from the raw water of a well gets to be more than 1 it does cause a lot of red water problems.

And, therefore, this was another possible way that we could have increased -- Since 1 pretty much feeds the

downtown area and that area, it's another way that we could have increased the number of red water problems we had out there.

Q. And, again, with the increased iron in Well Number 1, that also affects the chlorine residual, is that correct, because it interacts?

A. It does.

Since they chlorinate at the well, they add enough chlorine to chlorinate or to reduce or oxidize the iron and then add additional chlorine, so it doesn't, in itself, affect the chlorine residual.

And, actually, one reason to run that well is by having this well closer to that northeast area and chlorinating there, then this chlorine was more likely to carry out there.

But from the same standpoint, based on the test data we

have, it was very high in iron so that it seemed counterproductive to run Well Number 1 to increase the chlorine when you were also increasing the red water problems over there.

But I still felt that the major problem for Mr. Prescott was his dead end main, from which he took service at.

MR. GALLAGHER: Just one second.

That's all I have.

Thank you, Mr. Lindstrom.

HEARING OFFICER MEDINTZ: Cross Examination?

MR. SMITH: Yes, Mr. Hearing Officer.

CROSS EXAMINATION

By Mr. Smith:

Q. Mr. Lindstrom, with regard to this survey, do you know if anyone contacted individuals in order to urge them to respond that they had a water

problem?

A. No, I don't.

Q. Have you heard that?

A. Yes.

Q. And had you heard that

Mr. Prescott had made those contacts?

A. It had been indicated, yes.

Q. And you still offer those survey results here --

A. I'm not offering --

Q. -- knowing that?

A. I'm not offering those survey results.

You don't even know what my conclusion was from the survey results.

I'm not offering them. They're not my -- They're a part of my file. They're a part of the information I used to investigate this problem, but I didn't offer them.

Q. Are you suggesting then that you

don't have a high regard for these survey results?

A. I think the survey results are an excellent way -- We have found that the people are very truthful in answering these. We found -- We really feel that these surveys are something they'll write down what they feel.

I think more than anything, what we probably got from these was the tone, in other words, we found maybe not the same tone in this particular survey that we have in other surveys.

It, as you point out, is a very inexact way you have to make decisions on these problems on all of the data you have, and that's part of the data that we use.

Q. Do you think that these results are highly reliable in light of the contacts?

A. I think that the people -- Well, the problem that bothers me with this whole problem, the thing that has caused the -- is nobody has ever, except for Mr. Prescott, has ever contacted us directly, therefore, it actually had more or less stopped with this particular letter.

I do believe the water quality in that area could be better. I especially think that this dead end main is a very poor situation for the City to leave users with, but, on the whole, I felt that we just had a lack of real support from the water users.

And what you really have to have is support of the water users if you're going to go in and force a town to make changes.

Q. Would it be fair to say that what you're really saying here is that there is no general outcry from that

section of town for a change?

A. Well, I think that a lot of people there would certainly like to have better water quality. I think they could have with a little more work. But I don't think it bothers them so much that they're willing to hassle City Hall about it. Let's put it that way.

And this is how we judge how big a problem somebody has.

Everybody would like to have better everything and I certainly don't think these people have the best, but, again, the feeling was that they didn't consider it to be a real serious problem, otherwise, they would have called us personally.

I have not heard from any of them since writing this letter in June of 1990, and which does indicate to me a lack of great concern, but I certainly think they have some problem.

I certainly think it could be improved.

Q. In fact, the results of the survey indicate that there were people who complained about too much chlorine in their water, weren't there?

A. Correct, there were.

Q. Were there in excess of a hundred sent out?

A. Well, about a hundred. I went -- What I did was came over from Rockford. I live in Sandwich. I spent approximately three hours one afternoon and I submitted approximately a hundred plus names.

In the area of too much chlorine, of course, I tried to ring the area, and I think the area of too much chlorine was not really in the area of question. It was really on the edge of the area of question.

Q. With regard to the tests that you conducted, now, would you describe

for me the procedure that you used again?

A. For the chlorine residual?

Q. Yes.

A. Yes.

What we do, on the ones, for instance, as I say, I like to use the hydrants because when you go into somebody's house you don't know whether their softener is working, you don't know what all their plumbing problems might be.

So we usually use either the outside hose bin which is usually connected to the service line before much of the plumbing or try to get the water operators to go around with us to open the hydrants.

When you open the hydrant and let it run for just a few minutes, you will find the hydrant is connected to the main with a barrel. And to clean out

this barrel, when you open the hydrant and the barrel -- the hydrant has been there for a long time, it's again kind of an unlined dead end, you get a lot of red water and it is not a plug type flow, in other words, you don't just clean out the barrel, the water doesn't just come through and push all the red water out, it's a dilution process where the water runs and the water becomes clearer and clearer, and it can run for ten minutes before you really have the -- Depending on how long the barrel is.

So we try to run the hydrant long enough so that we're actually getting water from the main.

So what we do then is fill both of the little tubes. Or sometimes we only fill one.

We add the powder pillow, and our experience has been whether we use -- We do use the wheel. We do

check. We do look to see what it is.

But the chlorine test is such that if there is a lot of chlorine there, it turns red and is readily apparent to anyone that there's chlorine in the water.

If there is practically no chlorine when you shake it up, it will be just a tinge, and it's readily apparent to everybody that there's practically no chlorine in the water.

And if you shake it up and it stays clear, or it doesn't have any red color to it at all, then we say there is no chlorine.

Then also you can get a haze in the water. Sometimes people when you read clear down here at this lower end; sometimes you'll put down a trace, but a trace usually to me means you're not very sure of what you are seeing.

At Five-tenths to a part

per million there is no doubt about it in your mind that the chlorine is there, that it's a good residual, so you get to a point where you do put it in, you do compare it with the wheel, but it's something that's just not subject to much doubt.

We use it for our operating reports. In other words, each day people who feed chlorine at the wells are to measure the water produced, the amount of chlorine that they injected, and to take a chlorine residual in this manner of the water that's going to the distribution system.

It's a simple test. It's a fairly reliable test. There are a few things maybe that interfere, but typically there aren't, and, typically, I'm not saying it's plus or minus one-tenth, but you can certainly tell whether it's five-tenths or one or zero.

Q. So you don't know what the margin of error is with this Hach Test?

A. Well, you are certainly plus or minus .1.

Q. Okay.

A. In other words, when you read .1 you are saying I can see something there.

When you are reading .5, it might be .4 or .6.

When you're reading .1, it might be .11, .12, but there's definitely is this change that you can tell where you are.

Q. With the Hach test that you have and you conducted, when you shake it, do you put your finger on the top and shake it?

A. Sometimes I use my finger, sometimes I use the little stopper.

Q. After you shake it and you put it in, do you read it within a minute or

two?

A. Usually, right. Or leave it set.

You get a -- The difference between these tests are that the free chlorine reacts almost immediately, so when you read very quickly and it used to be -- Before we used DPD we used Orthotoluidine and the way then was to put in the color, the reagent, and the first initial development, the free chlorine, was there to reagent with the reagent and it does. The combined are chloramines, and these, in any chemical reaction to chlorine, combines and uncombines, combines and uncombines.

So when as it uncombines and it combines with the reagent, you get this slow -- you get an increase in the amount of color. And the longer you wait, you do get -- after a minute or two

you do get maybe a little bit more, a little bit more color, but there's really never any doubt in your mind whether or not you have chlorine at that location.

You have a doubt in your mind whether it's .2, .3 or .4 maybe, but not whether you have chlorine or don't have chlorine.

Q. When you take the readings, you take them within a minute or two, after you've shaken it, is that correct?

A. Well, usually, we read it, see what it's going to be. Set it aside so it has time to develop and read it again, especially when you're trying to give somebody -- saying: "Well, here, let's look at this. As long as this will develop, if you're interested in the last tenth, we will wait for the last tenth here."

Q. But you usually ~~don't~~ wait for the last tenth, you usually shake it,

Q. wait a minute or so, then you read it and that's what you put down, isn't that what you usually do?

A. No. I think when I'm out testing chlorine, somebody's watching me. I do it fairly carefully, so that if I come to a hearing I won't be in doubt whether I let it set long enough to get a full reading or not.

Because I'm never out there trying to show that there is no chlorine in the water, that's not to my advantage at all.

Q. Now, when you are done with the sample, what do you do with it? Throw it out?

A. Throw it out, wash out the tube, go on to the next.

Q. What do you use to wash out the tube?

A. Water from the hydrant.

Q. Have you ever cleaned the tube

with detergent or anything like that?

A. No.

Q. Ever use distilled water with it?

A. No. Infrequently.

Q. If we want -- If we are looking for tests, you see -- The reason -- These are, of course, field tests, and they are field tests for the operator as well as the other.

Q. Chlorine residuals, if we were going to -- For any of these tests, and you will see that in the iron tests and any of the other tests we have run, we have a procedure for taking those in and we hand carry these into our lab and usually we refrigerate them.

Q. And we use our labs. If we want a certified test, then we use our lab's test.

Q. If we are looking for a field test of what we think is there,

especially in terms of chlorine, as I say, I think if you had done it a number of times, you'd find that the chlorine test is not one in which there is a lot of doubt about what the results are.

Q. Apparently, then you use this simply as a field test and it's really not a true quantitative test, you do that back at the lab if you are going to do it that way; is that correct?

A. Well, chlorine residuals are -- We just -- Usually, the chlorine residual we are looking for is present is enough so it's there, a good chlorine residual, or no chlorine residual. I can't remember ever taking in a chlorine test to our lab.

Q. So you certainly didn't take a chlorine test into the lab at the time you took your test in May when you were out there?

A. No.

Q. The other person who went out and tested, did they use the same method as you have described?

A. Yes. The same test.

Q. Well, did they also shake with the finger, rinse out in the hydrant?

A. I was not there so I cannot --

Q. Did they wait for a minute or two before reading?

A. I was not there so I can't testify to that.

But I do feel that the person that went out and the work he did, if there was chlorine there, he would have found it. If there was no chlorine there, which in this case it was very apparent in some of these places, he didn't find chlorine.

So do feel that he knew when he put down 0.0, there was no doubt about the fact there was none there.

When he put down .1

there's some doubt there was any there at all.

When he put down

four-tenths or above, there was little doubt that it was a reasonable chlorine residual.

Q. But you don't know how long they waited before they made their determination on the reading, do you?

A. I don't know how long they waited.

But, again, the development is quite rapid.

It's not a case of waiting for the full three minutes to get most of the residual.

Q. And you also don't know how they treated the wife before they took the sample; is that correct?

A. I know that the person who had been out there had been the Water Superintendent at Peru for several

years. I know that he was very careful. I know that he was experienced. I know that he was knowledgeable. I know that the numbers that he came up with would be very similar to the ones that I would.

That's my feeling on the thing and that's, of course, all. -- That's my opinion and that's the only thing I know.

Q. And you similarly don't know how the vile was treated after the sample was completed?

A. Right. I don't know exactly what he did.

Q. Okay. You were speaking within the direct examination with regard to recommendations that you made for treatment and I'd like to clarify that now.

Did you make recommendations off of the December 7th, 1989 meeting?

A. I made recommendations at that particular meeting, yes.

Q. Did you further make recommendations in your July 20, 1990 letter?

A. Yes. I certainly -- That letter was to indicate some of the background and to try to do as much as possible to educate, to say here is what the typical reason for these problems are and here's our recommendations, here's what we think you should do.

Q. Now, at the December 7, 1989 meeting, did you recommend the Well Number 1, not be used?

A. I can't remember whether I made that recommendation at that time or not or whether we've since ran the rest of the iron tests on that. I can't remember whether that was -- I made that recommendation at that time.

Q. Would it refresh your

recollection if you were to look at the letter?

A. It would refresh my recollection to what I recommended when I wrote that

MR. GALLAGHER: Mr. Lindstrom, this has already been marked.

THE WITNESS: Okay. At least when I wrote this letter I felt that I had recommended that Well Number 1 not be used except during emergencies. Right.

By Mr. Smith:

Q. Okay. Do you recall recommending a continuation of the phosphate treatment to reduce corrosion?

A. I have that here in the letter, yes.

Q. Do you recall recommending that the entire distribution system be flushed thoroughly each Spring and Fall?

A. Yes, I do.

Q. And do you recall recommending that the chlorine residuals in the

northeast sections of Sycamore be monitored and when no or low residuals were found, for the hydrant to be opened and run?

A. Yes.

Q. Now, were those in fact your recommendations or was that the result of an outline that the City proposed to the Illinois Environmental Protection Agency as a method of dealing with this problem?

A. During the Spring or during the Summer when other people had come -- There were two other people who came here.

There were a number of recommendations that the Agency made. personnel from the Agency, one was chlorination over at the Well Number 3 site and at this particular meeting, although I don't have that in here, I recommended that they not do this because they were pumping no water from that site

at the time and you add chlorine without knowing what concentrations you are going to get out into the system.

Certainly the City had -- I think the only -- Well Number 1, I don't believe, I don't believe that was a special recommendation of the City.

Certainly, the phosphate was something that the City has done on their own, and the flushing is something that's typical, and I'm not in any way here faulting the City for the work they did for the flushing as I know it or for the phosphate or for actually trying to follow the recommendations.

I think the one place where we did not come out at all the same and we did not get any -- I didn't feel like we got any cooperation was on opening the hydrants and just letting them flow.

I feel like that was the

point that would have gotten the chlorine residual up in those areas and would have determined whether that was the problem or the dead end main was the problem and the City had done a lot of work to alleviate this problem, and this was the one place, opening these hydrants and getting the chlorine residual was really the only point of disagreement that we had there. The City had done a lot of work on it before.

Q. Let me go back for just a second then.

A. I basically correct from your testimony that the phosphate and the flushing and the monitoring were things that the City had proposed in an outline, but that not running Well Number 1 was basically one of your recommendations?

Just with regards to those four.

A. I think the monitoring, the looking at an area to see whether or not there is a chlorine residual and to open the hydrant then till you get it in. I think that was my recommendation because this is the one thing that I find helps more than the other thing, so this, plus Well Number 1, if there was anything unique about the Agency's recommendations there, those would be the two.

Q. Okay. Now, that came out of the December 7, 1989 meeting, correct?

A. Right.

Q. Had some of the people at the Illinois Environmental Protection Agency actually suggested the Phosphate Treatment Program for the City of Sycamore to your knowledge?

A. They could have. I don't know.

The reason that this particular -- Phosphate as a treatment for perhaps Well Number 1 to keep the

iron from being as big a problem is, to my knowledge, is a very good recommendation.

To try to use phosphate or any type of corrosion inhibitor in a low flow area is kind of self-defeating because you just can't get enough, you don't have enough flow through there. You find you have better protection out in the active parts of the distribution system where no one is having a problem and you don't change anything in the dead end.

Therefore, although I certainly was not going to sit there and say let's quit the phosphate, because phosphate, especially now that we are running lead and copper tests, I think phosphate is going to help the town of Sycamore.

But I didn't really believe that the phosphate was going to

be very helpful in the particular area because it is low flow, you just don't get enough water through it to really form go films, phosphate films. That's been my experience.

Q. But do you know if someone under your supervision at the IEPA may have recommended this phosphate treatment for the City?

A. They could have, like they recommended the chloring at Well Number 3.

I don't know exactly what they did or didn't recommend there.

Q. And you did approve of the phosphate treatment although you did have the reservations you had indicated?

A. I had reservations about helping in this particular area, not that it was a bad treatment for the water as a whole, and especially now that, as I say, you are looking for corrosion of the lead

services, I think that probably it would be very helpful. A number of towns are starting this. I certainly didn't discourage it, but I didn't feel that at that time it was such of an answer for the low flow area over there.

Q. Now, within that July 20, 1990 letter, did you indicate that Mr. Albrecht reports he no longer is opening hydrants in the areas where the chlorine residual is low or absent?

A. Right. The reason --

HEARING OFFICER MEDINTZ: You answered the question.

THE WITNESS: Did I indicate?

By Mr. Smith:

Q. Did you indicate that?

A. In the letter, yes.

Q. Thank you.

Did you indicate that Mr. Albrecht reports several of the old hydrants in the northeast area have

failed after being opened and closed several times and have not been repaired?

A. Yes, I did.

Q. Did you also indicate that the pipe in the water service going back to Mr. Prescott's area was on line?

A. Yes. I felt that it was. We had opened it several times, but I have no proof of that. I didn't see it installed and I, of course, never dug it up.

Q. Okay. And if it were cement lined, would there be a difference in opinion for you with regard to that?

A. Yes, there would.

Q. If it was cement lined, I would feel different about that particular way.

Q. If it was cement lined, how would you feel about it?

A. Well, we still could have the growth of the sulfate reducing bacteria

and the hydrogen -- the rotten egg smell, but the red water that typically we would get out from opening the hydrant probably wouldn't be there.

Q. Okay. Now, you had some additional recommendations for the City within the July 20, 1990 letter.

Did you recommend that they follow a program which included supplying as much water as possible from Wells with the best raw water quality?

A. Well, this was a general -- What I had said in this letter is that almost all communities that use wells have similar problems, and that, in general, here are the steps that most of these towns have found to be helpful. One of them is to use the wells with the best water quality and this is with reference to Well Number 1.

I note that Well Number 1 has now been restarted. I don't know

whether more tests have been run to show that the water quality isn't the problem there or not, but, yes, this is one ever my recommended -- would be a general recommendation.

Usually, you find when you look through the water quality, raw water quality from the wells in a town, if they have several wells, that some of the wells have better quality than others and as a whole we recommend that those be given preference or used the most.

Q. Did you also recommend flushing every hydrant thoroughly each Spring and Fall to remove iron sediment from the mains?

A. Yes, I did.

Q. And did you also recommend regularly checking the chlorine residuals and opening and flowing hydrants in areas where the chlorine residual was found to be low?

A. Yes.

Q. Did you further recommend the drainage of the storm -- that the drainage for the storm sewer which serves the northeast portion of Sycamore be improved?

A. The reason --

HEARING OFFICER MEDINTZ: Yes or no.

did you recommend that?

THE WITNESS: No.

By Mr. Smith:

Q. You did not recommend that?

A. I did not recommend it per se.
no.

Q. Did you recommend that the broken hydrants be repaired?

A. Yes, I did recommend that.

Q. Did you recommend that the hydrants be flowed as necessary to maintain a .5 milligrams per liter chlorine residual in the system?

A. Yes. Yes, I did.

Q Did you recommend that the City pass an ordinance requiring that all future mains either be looped, cement lined or constructed of corrosion resistant material?

A Yes, I did.

Q Did you recommend that the dead end main be replaced with corrosion resistant material or that the services to the condominium complex be retapped into the looped main which runs along the north side of Exchange Street?

A Not precisely. I think you'd want to reread that particular one.

Q Okay. Did you recommend that the main servicing Mr. Prescott's residence, this dead end main, should be replaced with corrosion resistant material or the services to the condominium complex should be retapped into the looped main which runs along the north side of Exchange Street?

A. I think that was an alternative to flowing the hydrants and seeing if the problem could be corrected in that manner and, if it couldn't, then replacing.

Q. Now, when you began and you were speaking about remedies for red water, I believe that you indicated that one of the remedies was to reduce the time that the chlorine remained in the mains, is that correct?

A. No.

Q. Okay.

A. I would tell you what I did recommend there.

Q. Okay.

A. The amount of water, the amount of iron you dissolve off the mains, you probably dissolve the same amount of iron off the mains as the water flows through, no matter what.

But if the same water stays in contact, than the milligrams per

liter, the concentration of iron in that water builds up.

In the active areas of your mains, in other words, around your wells, where the water is flowing away from your wells, it certainly -- the iron tends to build-up some in that, but it's gone and used and passed there, and, therefore, you don't get much of a concentration in the water, it depends on how long the water is in contact with the iron in the mains.

The chlorine merely oxidizes the dissolved iron so that it turns red, otherwise, if you don't have any chlorine residuals, it comes out and stains your fixtures and your clothes.

Q. To take you to the phosphate treatment for a minute.

You're aware that when there is a phosphate treatment there is a sloughing and there's a lack of corrosive

that comes off and that's part of the course of the treatment; is that correct?

A. I have never been convinced of that, no.

It's always been reported by the phosphate salesman that this is what happens and they need a certain length of period to clean up and flush the mains. I think it all depends on each distribution system.

In many of the areas where the well water is not scale forming, tends to be a little bit corrosive, you'll find that most places the mains are quite clean.

I don't know whether that's the situation in this town or not.

Q. Now, it's reported to you then that with a phosphate treatment there is sometimes a sloughing; is that correct?

A. I've heard it said, yes.

Certainly it's never been demonstrated to me because this is the way it works.

Q. Now, if chlorine has to travel a great distance in order to get to a particular section of town, is it correct that the chlorine will dissipate and combine, during the course of it's travels, in the time it has to stay in the main?

A. Well, true, depending on the water stability.

Chicago puts the chlorine in the water and you find it three days later out in the suburbs at approximately the same way.

In some corrosive waters you can put it in and you won't find it till the end of the block.

Here we are finding nearly a part per million as close as Walnut Street, so it just depends on each distribution system.

Q. Now, Well Number 1 in the downtown area is basically the closest well to the northeast section of town, isn't it?

A. Well, Well Number 3 which has been started is the closest one now.

But Well Number 1 is certainly closer than the other major wells and Well Number 3 is not apparently a very big well.

Q. Well Number 3 wasn't be run in 1989, was it?

A. No, it wasn't. It just was started in this last year.

Q. It also was not being run in 1990, is that correct?

A. Correct.

Q. And your recommending that Well Number 3 not be run, it be run only in emergency situations --

A. No. Well Number one.

Q. Pardon me. Well Number one.

That Well Number 1 not be run except in emergency situations, weren't you aggravating the chlorine situation in the northeast section of town?

A. Yes. From the standpoint of getting the chlorine there.

But because of the high iron in the well and the high sulfates, it seemed like you might be helping the chlorine a little bit, but aggravating the black water, the smell, and the red water problem, and so that, no, I didn't feel that that was a -- but, yes, you could have gotten chlorine to that area of the town if you would have not worried about the other problems.

Q. And doesn't the phosphate treatment also stabilize and combine the iron so that it is not as much of a problem in the treated water?

A. So that it's not as much of a

problem problem, true.

MR. SMITH: No further questions.
Mr. Hearing Officer.

HEARING OFFICER MEDINTZ: Before you start any redirect, would you like to take a brief break? You have been sitting in the hot seat for an hour and forty-five minutes.

THE WITNESS: No, thank you. That's fine.

HEARING OFFICER MEDINTZ: You can proceed then.

REDIRECT EXAMINATION

By Mr. Gallagher

Q. Mr. Lindstrom, with respect to the test that was conducted to determine the chlorine residual, you indicated if somebody was watching you, you sat there and made sure you followed the rules right to the tee; is that correct?

A. I'm not positive I followed the rules right to the tee. I feel so

confident that the full chlorine test gives the indication that you want, not the exact, but, no, I couldn't swear that that day that I maybe didn't shortcut the test a little bit, but I feel confident that it would have given me within the tenth -- within a readable range of the same answer that I would have gotten if I would have carried out everything to the tee.

Q. On that day, May 8, 1990 you conducted that test with hydrants, isn't that correct?

A. Yes. I remember that we did. Mr. Albrecht and I went from hydrant to hydrant and this is how we came out to the hydrants that weren't -- This letter was really written based on that particular -- (indicating.) I believe it was -- Well, maybe it was the next particular time.

But we couldn't open a

hydrant or two in the heart of what would have then been the real low flow area because that in particular is the end of Exchange and Sabin, that hydrant was not functioning, so that the hydrants right where you -- the hydrant right where you would like to take the residual was not available for use.

Q. That was going to be my next question.

Who was with you when you were doing those tests?

A. Just Mr. Albrecht and myself. I believe just the two of us that particular date.

Q. And when you conducted the test and you had a color change or no color change, was he able to observe that?

A. He may have run some of them. He may have run them all.

Q. He was with you. If he ran them or you ran them, you both ran them.

together?

A. We both looked at them. We may have been using his particular test that day.

Q. He uses the same type of test?

A. Yes. And, usually, I will get the operator or superintendent to run the test if I can.

Q. In response to a couple of questions by Mr. Smith, you indicated that in your letter of July 20th that Mr. Albrecht was no longer opening hydrants in the area where the chlorine residual was low or absent?

A. If I could take just a moment longer on this particular one.

The point that we had arrived at on that particular day is that I felt we would get a chlorine residual in that area if we would open these hydrants and let them run for two reasons.

One, he said I can't do that because it runs out this storm sewer and causes a problem out there someplace. I have no idea whether it did or how much of a problem, what it is, but that was one reason he couldn't do that. And then the other was these hydrants that weren't operational.

And pretty much right at that time it was pretty much clear that we weren't going to open and run hydrants and so these two points here were made just for that very thing, that if you can't flush your hydrants or run the hydrants because the storm sewers are causing the problem, then you should fix whatever is causing the problem at the end of the storm sewer and if you can't open and run hydrants because they are broke, you ought to fix the hydrants.

At that point it had just come to the point that it was very

apparent that we weren't going to open and run -- we weren't -- One thing is he wasn't going to flush twice a year or he wasn't going to do these other things because he had done a lot of work and listened to a lot of different opinions from the bureaucrats on how he ought to run his business, but, from the same standpoint, he at that time had more or less said, "I'm going to do it."

And I felt it was necessary if we were ever going to get a real good residual in that area and ever really going to pin down whether we were going to improve the situation here or not.

Q. In your letter of when you made recommendations, in particular, flowing as necessary to maintain a .5 milligrams per liter chlorine residual, did you also offer an alternative in case somebody felt that was using too much water?

A. Yes. And that would be to replace the mains with plastic mains, PVC or cement line ductile, or something like that, where you wouldn't have to waste water, because I think one of the problems with these flowing hydrants is you just see the waste, money running out the hydrant.

But unless you have -- In some of these areas, they're just low flow enough that unless you waste water, there is just no other way of keeping the flow in the area, or loop it or in some way change your flow patterns in that area, you've either got to do that or you've got to use corrosion resistant material.

MR. GALLAGHER: That's all I have.

HEARING OFFICER MEDINTZ: Any redirect?

RECROSS EXAMINATION

By Mr. Smith:

Q. Mr. Lindstrom, with regard to the testing, am I correct that you're not sure whether you ran the test or whether it was run by Mr. Albrecht?

A. That's true because we both looked at the results. I watched him, but I'm not sure whether I ran those particular tests with my test kit or we used his test kit and he ran the test.

Q. Now, with regard to the running of the hydrants, am I correct that what you had basically had wanted was for them to be flushed on a daily basis for an extended period of time?

A. At a low rate.

In other words, when you go into any area in most towns, you open up a hydrants, completely open them, and you let them flush out, you do clean out the area, you let the chlorine in, but what happens is you stir up the rest of the town.

And so the thing that we have found in many other towns to keep this from occurring, this stirring up the whole town, is to go out there and crack the hydrant, open it a little ways, and in this case what you are doing is you're reducing the pressure, so when you open your valve -- if you open the valve of a hydrant part way, then you have a weep hole that tends to get over everything, however, if you just open it, just crack it, you find your pressure loss is through your valve at the bottom of the hydrant, and, therefore, you can flow it out there at 20, 30 gallons a minute, which isn't very much, it's just running out the end of the hydrant.

You can go by in the morning, you can open a hydrant, you can come by the at ten o'clock and check and see if it's got a chlorine residual and, if it does, you close it.

And you do have to do that approximately on a daily basis to start with. And it seems like you've got to keep at this for three weeks to a month to get a chlorine residual in a low flow area as this area over there appeared to be.

Q. So three weeks to a month is the length of time you wanted the water to be run during this period?

A. Yes. Every morning that he would go over there, he would open these hydrants with no chlorine residual.

If there was no chlorine, he'd measure the chlorine residual. If there was no chlorine residual, he'd let it run at 20, 30 gallons a minute, and, yes, I wanted him to do that for two to three weeks or a month.

Q. And aren't you basically flushing the entire city in doing that?

A. Not at 20, 30 gallons a minute

for two hours. If you multiply that, that's not a very big portion of what your --

Q But didn't you indicate when you flush you stir up the entire system?

A This is opening up full.

You see a hydrant open on a six-inch main will flow out at a thousand gallons a minute; then you stir up the whole area.

So what we are suggesting is just 20 to 30 gallons a minute, which is a long way from a thousand gallons a minute if you just crank it open.

When you just crank it open, you stir up -- you tear up the lawns, you tear up the street.

But if you just open it just a little, let it run 20, 30 gallons a minutes, in half a day you'll use -- Let's see, 50 times 30, 1800 gallons -- 1800 gallons an hour. Is that what we

are using? And for three hours we use about 3,000 gallons. That's about three minutes.

In three hours you'd flush out about the same amount of water you would in three minutes when you crank the six-inch main open.

Q. Am I correct that your July 20, 1990 letter does not say what you have just told us?

A. I thought it did.

"Hydrants will be flowed as necessary to maintain," and I think I've gone over again that --

Q. All right. If I'm correct, the letter says: "Hydrants will be flowed as necessary to maintain a .5 milligrams per liter chlorine residual in the system."

It doesn't say that you want this to be run on a daily basis from

three weeks to a month for an extended period of time at a low pressure?

A. But you would find that if you

Q. It doesn't say that, does it?

A. It implies that

I think it implies that in that if you go open a hydrant and find no chlorine, then you let it run until it gets chlorine residual.

Q. Mr. Lindstrom, I'm a layman, it doesn't say anything of that sort to me.

A. Not every letter I write is the crystal clear, but I had tried to make that point time and time again that it was not flushing it full out, but because you've stirred up the rest of the town, that this was a very easy way to do it.

All you had to do was go by in the morning, open it, let it run, and come by a couple hours later when you had time, see if there was a chlorine residual, and change it.

No, my letter - I certainly thought I said that a number of times, but, you're right, my letter doesn't say that, but that's what I had in mind there.

MR. SMITH: No further questions, Mr. Hearing officer.

MR. GALLAGHER: I have nothing further.

HEARING OFFICER MEDINTZ: I have a few questions before you can escape.

THE WITNESS: All right.

EXAMINATION

By Hearing Officer Medintz:

Q. What is an active distribution system?

A. The distribution systems are made in grids, you run down the streets this way, and down the streets this way.

The water tends to circulate around these, and we call that being an active part of the distribution

system.

The source is here, the water is running out of this area out to the edges, and the edges and the corners usually become low flow because they're just out there. The water doesn't go by, the people just use the water out of the mains.

Whereas near the well and in what what I say is the active parts, the water is coming from the well and just going past these people. They're using it, yea, but it's just going past and to the rest of the distribution system.

Q. Is the pipe that carries the water into Mr. Prescott's condominium part of the active distribution system?

A. Well, no. It's a dead end.

It would be an inactive, a low flow, a dead end, this pipe.

See, there's no use except

for these houses, therefore, the only way this pipe -- It's a six-inch design. I remember it being a six-inch main laid across the street and over into the front of Mr. Prescott's condominium or the row there, and then they've tapped off of that for the services. There's two services on one side and then the condominiums.

So the only water -- No one else uses water. I'm not saying -- The reason it wasn't extended on down is there is no right-of-way on down to the next street, otherwise, you would have extended it on down and then the water could have ran by Mr. Prescott and circulated.

As it is, it just runs in there, and the only water used out of that is used by the users there. If they're not home or not using very much, then it just sits there a very long

time.

Q. You also stated that you recommended -- If I'm correct, your testimony was that you recommended orally to representatives of the City and then refer to it in your letter regarding the flushing of the hydrants.

My question is after the -- Let's say the City went along with your recommendation or had gone along with it and had flush the hydrants or had run the hydrants at the lower flow for three weeks or a month for a couple hours a day and, finally, they got a chlorine residual there.

At that point would they continue to run the hydrants for three hours a day or at that point could they shut them off and just go out there once a week or once a month or every six months?

A. Yes. That would be the way it

worked. In other words, you start out and you have to, because there seemed to be enough bacteria or enough of a film that you have to constantly keep at it everyday to get ahead of it and finally kill it, but once you get ahead of it, once it's no longer there, then you can go back every three weeks or twice a month and open it and maintain your residual.

It's only that this initial opening has to be done almost day after day or you find that you've brought the chlorine residual in and about an hour later I've opened hydrants and just found no chlorine residual, it's gone that fast. Okay. So now if you wait two weeks and open it again, everything goes right back. You've got to be there and you have to almost do it every day.

Q. A few questions about the tests.

Does it make any difference whether you put the water in before you add the pallet or you put the pallet in before you add the water? Does it make a difference in the result?

A. It may, but it doesn't make a noticeable difference.

What it is, you're supposed to fill it up to a certain line. You do that by filling the tube and then you learn to flip it out like this. (Indicating.)

Soon you get so you can flip the water out right at the line. Then you just put that much in. Otherwise, you'd have to try to fill it out of something up to the line and you'd never get it filled to the line, therefore, you'd have more water, the reagent and more water. The more water you have it in, in effect, you lose some of your color.

So if you fill the tube clear up and put it in, you would read a little less of a chlorine residual than you would if you'd just fill it up to this line.

Q. Does the reagent have any kind of a shelf life?

A. Yes, it does. That's another thing. Certainly, if you don't -- Even if you keep them refrigerated, you must replace them every year or so or certainly it's possible to go out there and not find any chlorine residual because your reagent isn't working.

Q. Do kits have an expiration date on them?

A. I'm not sure they have an expiration date per se.

No. These don't. But at the end of a year, a year and a half, or if you kept them where they're warm, it could be that they would last long, but

it could be at the end of that time they would not show a chlorine residual, they would just no longer turn red, so they certainly do have a shelf life.

Q. Do you have any feel as to whether or not the age or the lack thereof of the reagent in any of the tests that at least you performed was in issue here, the result?

A. Usually, if you can start out someplace where you have a residual or you can find a residual and you do show a residual as you go along.

If every place you go you would find no residual, suddenly you'd have to suspect that there's something. I'd better check these.

But if you find a good residual here and then a residual less here and then maybe none there, then you feel like the capsules, the little packets are satisfactory.

HEARING OFFICER MEDINTZ: I have nothing additional.

If any of the parties have questions based on my questioning, feeling free.

MR. GALLAGHER: I do.

HEARING OFFICER MEDINTZ: Okay.

Mr. Gallagher.

MR. GALLAGHER: Thank you.

REDIRECT EXAMINATION (Continued)

By Mr. Gallagher:

Q. Mr. Lindstrom, the places where you conducted the test on May 8th, the hydrant at Walnut and Exchange, State and Sabin, Elm and Kishwaukee, Sabin and Sycamore, Walnut and Sycamore and Walnut and State, those are all active parts of the distribution system, isn't that correct, those locations?

A. By "active," whether it's active or nonactive is just low flow or flow, just depends on the flow in that area.

I felt that when we were over there at Walnut and Sycamore and Walnut and State that here we had -- See, we had at Sycamore and Walnut, which is over east of the area we are talking about, we had one part per million.

I don't know how much Chlorine he's feeding at the well, but not a lot more than that. If I had the test results, I could look.

But that indicates just three or four blocks away a residual, a good residual, one almost like the well.

But when we go over there at State and Sabin, and Elm and Kishwaukee, those are the two places that we didn't find any that day.

Q: Let me ask it this way. We are missing the point.

In your letter of the 20th you refer to Title 35 and Subtitle S, Chapter 2, Section 653-604, dealing with

chlorination, is that correct?

A. Yes.

Q. And that section requires chlorination to be maintained in all active parts of the distribution system?

A. Right.

The Rule and Regulations as far as I know is written --

HEARING OFFICER MEDINTZ: That's a yes for no question, sir.

THE WITNESS: Okay. Excuse me.

By Mr. Gallagher:

Q. Is that your understanding of the Rules and Regulations?

A. Ask me one more time.

Q. That it requires that a certain minimum residue be maintained in all active parts of the distribution system at all times?

A. Right.

Q. Okay. When you are talking about low flow being inactive, are you

saying that it's not an active part of the distribution system as per this regulation?

A. A dead end would not be -- We would not consider that an active part of the distribution system. We would think it would be nearly impossible to always maintain a residual at the end of a dead end and this is the reason for having to open that hydrant frequently because you just can't maintain a residual in an unlined dead end. It just wouldn't be possible to meet that rule and regulation.

Q. Unless you opened --

A. Unless you opened the hydrant and keep after that.

Q. Would that then make it active?

A. You in effect are make it active for those people by wasting that water, yes, because this is what we are suggesting, that you can't discriminate

against people on dead ends by saying that's inactive.

You need to make that particular part of the system active by wasting water or by looping it.

Q. And, correct me if I'm wrong, but in your testimony when you talk about "low flow" and "inactive," you are using those interchangeably?

A. Yes, I am.

I'm saying that low flow areas are inactive areas where it's extremely difficult to maintain the chlorine residual without wasting water.

Q. But they can be part of the distribution system?

A. But certainly they're part of the distribution system and the people there certainly shouldn't be discriminated against because they live in the corner of town.

MR. GALLAGHER: That's all I have.

HEARING OFFICER MEDINTZ Mr. Smith?
REDIRECT EXAMINATION (Continued)

By Mr. Smith:

Q. Mr. Lindstrom, with regard to the Hach test, is it your recommendation that the pillows of reagent should be refrigerated?

A. Yes. We refrigerate ours.

Q. And am I correct that older reagent will not react as well as new reagent?

A. Sometimes old reagent will not show a chloring residual.

Q. Is it part of standard operating procedure for the Illinois Environmental Protection Agency to give Hach tests to citizens to run tests on their behalf?

A. It's not standard practice. Each time I give a kit away, I hear about it.

Q. You do give kits away?

A. I do occasionally when somebody

has a problem and I think they should be able to -- Maybe I don't give them away. I loan them a kit.

Q. And do you give them instruction on it?

A. I give them instruction on how to use it and to check their chlorine residual since nobody else can be there all the time.

And try to get it back.

Q. And I guess you don't do this on an everyday basis, but it's not uncommon for you to do it; is that correct?

A. I don't do it on a day-to-day basis. I don't do as many of the problems as I used to. It has to be somebody with a special problem.

MR. SMITH: Okay.

No further questions.

MR. GALLAGHER: Nothing further.

Thank you, Mr. Lindstrom.

HEARING OFFICER MEDINTZ: Before you

go, Mr. Lindstrom, I would like to take about a seven or eight, ten minute break and during that I would like to know if the parties can arrange to photocopy Exhibit 9 which were the survey questions and give the original back to the witness and redact the name and address of the individual involved and submit the photocopy as the exhibit.

Is that procedure acceptable?

MR. GALLAGHER: It will be fine.

MR. SMITH: No objection.

(The witness was excused.)

HEARING OFFICER MEDINTZ: Let's take ten.

Off the record.

(Whereupon a short recess was had.)

MR. GALLAGHER: I would offer into evidence at this time what I've marked as Complainant's Exhibits Numbers 3, 4, 5

and 6 and I'm not going to offer 2 which is the test kit.

HEARING OFFICER MEDINTZ: Objection?

MR. SMITH: I would object to them all, Mr. Hearing Officer.

HEARING OFFICER MEDINTZ: In reverse order, what is your objection to Group Exhibit 6 which are the five jars?

MR. SMITH: Well, there's basically no testimony that the condition of the water now is as it was at the time it was taken and so the objection is relevancy.

HEARING OFFICER MEDINTZ: So Mr. Gallagher, do you want to respond?

MR. GALLAGHER: My only response is Mr. Prescott told me this morning that he took the water, placed it in the jar, although perhaps that exacts the question is it in the same condition today as it was of that date. I don't think that's necessary.

It's being offered to show

the condition of the water in the the City of Sycamore at his location between the dates, as he testified, of May 1989 and September 1989.

I think that, further along those lines, it's similar to what he's talking about is the chain of custody, and for it to be in the same condition today as it was then, is a foundational question for photographs, documents and things like that.

I would equate this to a substance like a drug in a drug case and I think that if they want to attack the chain of custody, then that has to come out on Cross Examination, but otherwise it will be presumed to be in the same condition as it was then.

The only authority I would have would be criminal cases where they're involving drugs or other substances.

HEARING OFFICER MEDINTZ I guess I'm going to sustain the objection.

There are still too many things that are not known about what is in those jars. for example, I can see one of them from here appears to have some type of sediment on the bottom and I don't know, for example, what the Board is supposed to do with that.

Is it supposed to shake it up and assume that's how it looked when it came out of the pipe or was it less cloudy than that would be when it came out of the pipe? Was it cloudier for some reason?

I would assume that -- I've heard nothing, excuse me, to indicate that Mr. Prescott isn't playing it straight and put in some dirt from his garden and then put in some clean water, and I'm not, by any means, intending to imply that nor do I want anyone to infer

that.

I guess my question that I ask myself is how will these, assuming that they meet the grounds of foundation relevance, et cetera, will help the Board in determining the issues in this cause, and as I sit here looking at those bottles of water, I don't know how they will help the Board, because there are five bottles of water and they're not purporting to represent anything that is of critical importance to the issues that the Board faces in this case.

So the objection will be sustained as to the bottles of water.

MR. GALLAGHER: Thank you.

HEARING OFFICER MEDINTZ: Next are, according to my notes, 3, 4 and 5, which are different chlorine test results taken at different times.

My records indicate that Exhibit 3 were taken by the Complainant.

My notes don't indicate who took 4 and 5. If you could educate me as to that.

MR. GALLAGHER: I think he testified he did.

HEARING OFFICER MEDINTZ: He took all of them?

MR. GALLAGHER: Yes. They're just different years. 3 is 1969. 4 is 1990 through -- Yes, 1990. And 5 is 1992.

HEARING OFFICER MEDINTZ: Mr. Smith, you objected to those, and what are the bases?

MR. SMITH: Your Honor, there are two bases, one is relevancy, and the reason for that is because we are dealing with a free standard and we are dealing with a combined standard and we are not dealing with a total situation, and the total does not give either a free or a combined reading in and of itself.

And the second is the testimony that we have had with regard to

the procedure used on this testing is basically contrary to the instruction, the portion of the instructions which was read and certainly with regard to the time that a total reagent is to be held before reading. And it's stated within the instruction, as I read it and as Mr. Prescott acknowledged, it should be three to six minutes to give time for the reagent to react.

Mr. Prescott's testimony is three minutes or less. As to how often it was less, he doesn't know how often it was three minutes, didn't have a timer with that.

All of these test results are inherently suspect. All of these test results were not taken, at least, you know, there is no preponderance of the evidence that one specifically went three minutes and another didn't, but they were not taken pursuant to the

instructions that came with the kit and as such should not be admitted. They are inherently unreliable from the testimony that we have here.

HEARING OFFICER MEDINTZ: Okay.
Mr. Gallagher?

MR. GALLAGHER: In response, I think the testimony was he did follow the rules. He said there were a couple of occasions maybe it was only two and a half minutes, and I think Mr. Lindstrom's testimony this afternoon had certainly cleared up any question about that. It happens immediately.

By letting it sit for three minutes, it might pick up a little bit more, but if you've got a zero reading, you have that the instant you put your reagent in.

With regard to the question about the shelf life, if you will, of the reagent. Again, I think

with Mr. Lindstrom's testimony, if the reagent isn't working, it's going to not be working at all. You are not going to get a reading sometime and then the next time get a zero and then the time after that get a reading again.

Again, I think if they want to attack the shelf life or the activity of the reagent that was used, they need to show some sort of attack, otherwise, I think presumptively that if you follow the rules, which Mr. Prescott did, and he recorded them, these results, at the time that the test was made, that they're admissible.

With regard to total, the total is the combined and the free.

If it's a zero, that means that there's absolutely nothing in there, and I think it goes to -- It's probative of whether or not there was chlorine residual in the system on these

particular dates and at that particular time.

HEARING OFFICER MEDINT? I'm going to allow 3, 4, and 5 in.

I think that the testimony of Mr. Lindstrom indicates that it's a relatively simple to administer a test and I'm satisfied that the test was conducted, if not in letter-perfect performance to the instructions, with sufficient conformance to the instructions to produce a reliable result.

As far as the issue of whether the test measures the appropriate numerical standard or not, and, therefore, is not relevant, while that may be a closer question, the tests may be used to either support or disprove the contentions in the complaint that the water smells and is red and I'll let the Board determine the proper probative

weight to be given to the particular test results in support of or as against those allegations in the complaint.

So 3, 4 and 5 are admitted.

MR. GALLAGHER: Thank you.

(Said document, heretofore marked Complainant's Exhibits Nos. 3, 4 and 5 for identification, were admitted into evidence, to wit, as follows:)

MR. GALLAGHER: At this point the Complainant would rest its case.

HEARING OFFICER MEDINTZ: Mr. Smith, do you have any witnesses to call?

MR. SMITH: Yes, Mr. Hearing officer I do.

HEARING OFFICER MEDINTZ: Would you call one?

MR. SMITH: Your Honor, prior to calling witnesses, I would move at this time for the admission into evidence of the Hach test kit which was Exhibit 2, along with the instruction booklet, and also defense Exhibit 1 which is the hose.

MR. GALLAGHER: No objection to 2.

With respect to 1, I'm not sure what the relevancy is at this point, and I'm sure Mr. Smith will tie that up for me during his case, but perhaps if he could wait until the end of his case and see the relevancy.

HEARING OFFICER MEDINTZ: Any problem with that?

MR. SMITH: No. The relevancy is apparent if you take a look at it.

HEARING OFFICER MEDINTZ: Can someone tender to me the test kit?

MR. GALLAGHER: Sure.

(Said document, heretofore marked Complainant's Exhibit No. 2 for identification, was admitted into evidence, to wit, as follows.)

HEARING OFFICER MEDINTZ: Okay.

Mr. Lindstrom, if anybody gives you any trouble as to what happened to this test kit, you can give them my name and the Pollution Control Board's phone number.

MR. LINDSTROM: It's somebody else's, not mine.

MR. SMITH: I believe it belongs to Mr. Prescott.

HEARING OFFICER MEDINTZ: That's right. This is the one that belongs to Mr. Prescott. I'm sorry.

MR. SMITH: Mr. Hearing Officer, for our first witness I'd call Syd Albrecht.

HEARING OFFICER MEDINTZ: Okay.

Mr. Albrecht, you have been previously sworn and you remain under oath.

(The witness was previously sworn.)

SYD ALBRECHT,
called as a witness, having been

previously sworn, was examined and testified as follows:

DIRECT EXAMINATION

By Mr. Smith:

Q. Mr. Albrecht for purposes of the questioning at this time, would you again state your name?

A. Syd Albrecht.

Q. Where do you live?

A. 411 Georgine Court in Sycamore.

Q. Are you married?

A. Yes.

Q. How long have you been married?

A. Twenty-six years.

Q. Do you have children?

A. Yes.

Q. How many?

A. One.

Q. How old?

A. Twenty-three.

Q. Would you briefly describe your educational background?

A. I graduated from Sycamore High School and I went to college for two years.

Q. Where did you attend school, college?

A. Monmouth College in Monmouth, Illinois.

Q. What is your present occupation?

A. Water superintendent, Sycamore, Illinois.

Q. And how long have you been the Water Superintendent in Sycamore?

A. Since 1978.

Q. What are your responsibilities in that position?

A. Provide water for people, oversee the duties of the water superintendent.

Q. Now, have you received any special training or taken any special courses with regard to that?

A. Just seminars, periodically.

Q. Who conducts those seminars?

A. The AWWA and the Illinois EPA.

Q. How many seminars do you attend on a yearly basis?

A. On an average of two.

Q. I'd like to direct your attention to the year 1988. Did Sycamore have a water quality problem in the northeast section of town during that year?

A. [No audible response.]

HEARING OFFICER MEDINTZ: You will have to answer yes or no, sir.

THE WITNESS: Yes.

By Mr. Smith:

Q. How was the problem brought to your attention?

A. It was through Mr. Prescott, I believe.

Q. Were there complaints about the rust and smell?

A. Yes.

Q. Did you consult with the Illinois Environmental Protection Agency on this?

A. Yes, I did.

Q. Who did you contact?

A. Walter Purcell.

Q. When did you contact him, if you recall?

A. I really can't remember.

Q. Was it sometime after you'd been contacted by Mr. Prescott?

A. I believe it was in the Spring.

Q. Spring of 1989?

A. Yes.

Q. Where did you contact Mr. Purcell?

A. By telephone, at the Rockford office.

Q. What, if anything, did the Illinois Environmental Protection Agency recommend?

A. They recommended to flush the

fire hydrants in the area and to inject bleach at Well Number 3 and to run number 1, Well Number 1.

Q. In light of that recommendation, what did you do?

A. We did all the things that were asked of us to do.

Q. Did you have further contact with the Illinois Environmental Protection Agency after that?

A. Yes.

Q. And do you recall when?

A. Not exactly, no.

Q. Approximately a month and a year, if you can?

A. Well, they came out and took some samples with me.

Q. Do you recall when that was?

A. Mr. Lindstrom came out the first part of May, I believe.

Q. Is this 1989?

A. Yes.

Q. Where did he go?

A. We went down to the northeast section of town.

Q. And that was with Mr. Lindstrom from the Illinois Environmental Protection Agency?

A. Yes.

Q. What happened?

A. Starting from when he came to the office?

He came from Sandwich to my office, and, as I remember, he had no test kit with him, so we went out in my vehicle and I asked him where he wanted to go to take the samples.

And I took him there and he used my test kit to take the results. And then we went to six, seven fire hydrants in that area and took samples.

Q. Did he have any recommendations for you at that time?

A. If he did, I can't remember.

Q. Now, did the City do anything in addition to the Illinois Environmental Protection Agency's recommendations of flushing and injecting additional chlorine?

A. We started the Phosphate Program.

Q. And how did that come about?

A. We contacted Kevin Lookis and we had him come out for a meeting with the Mayor and Water and Sewer Committee to go over the costs of what it would be and principles of the program and I believe that was in July?

Q. Had anyone suggested that you do that?

A. A representative from the Illinois EPA had recommended it.

Q. Did the City start a Phosphate Treatment Program for its water supply?

A. Yes.

Q. Were water samples taken?

A. Yes.

Q. What was done with regard to the Phosphate Treatment Program?

A. We flush our hydrants twice a year, we take chlorine residuals at the time when we flush the fire hydrants all over town.

Q. Now, is phosphate injected at the wells?

A. Yes, in each well.

Q. With regard to the monitoring, who conducts the tests?

A. The chlorine tests?

Q. Yes.

A. The people that work for me.

Q. Is Mr. Lookis present when that monitoring and that testing is done?

A. When we're flushing, yes, he is. He's here a couple nights and knows those are -- He video tapes the two areas in town.

Q. In addition to the chlorine

tests. are any other tests taken?

A. We test for the iron and the phosphate.

Q. Now, first, when did the Phosphate Treatment Program begin?

A. September of 1989.

Q. Now, before December of 1989, did the Illinois Environmental Protection Agency make any other requests for recommendations?

A. I believe that's when Mr. Lindstrom was out here and met with the Mayor and representative from the Water and --

Q. Now, this is before that meeting in December of 1989. Were any recommendations made before that meeting in 1989?

A. Yes. If I've got that straight. That's when he wanted the fire hydrants replaced which were not broken.

Q. Now, again, this is before the

meeting, before the meeting in
December of 1989?

A. I'm not aware of it.

Q. There were no other
recommendations made before the meeting?

A. I'm not aware of them, no. I
can't remember.

Q. Now, in the meeting on
December 7, 1989, here in Sycamore, who
was present?

A. Mayor Johnson, myself, Alderman
Drake and anybody else would be pure
speculation. Those are the ones I can
remember.

Q. Okay. Do you recall what
happened at that meeting?

A. Mr. Lindstrom recommended that
we not run Well Number 1 and he
recommended that we drill another well
behind Well Number 3 to case it off
deeper underground than what Well
Number 3 was cased.

Q. Did He have any other recommendations?

A. None that I can remember

Q. Okay. Now, was the City, as a result of that meeting, supposed to provide an outline of things to do to improve the water quality?

A. Yes.

Q. Did the City in fact do that?

A. Yes.

Q. What did you recommend with regard to that outline for improvement of water quality?

A. To monitor the chlorine residuals and a Phosphate Program to flush the hydrants. Twice a year Hydrant Flushing Program.

Q. Did the Illinois Environmental Protection Agency approve that outline?

A. As far as I know because I never heard back from them that they didn't.

Q. What did the City do?

A. We did exactly what we said we were going to do.

Q. When did you next have contact with the Illinois Environmental Protection Agency concerning water quality in the northeast section of town?

A. Well, the next time was when Mr. Purcell came out to take water samples once a week for about six weeks.

Q. Was that in May and June of 1990 approximately?

A. Yes.

Q. Were you present with him when he was doing this?

A. Yes.

Q. Now, where were the tests taken?

A. They were taken right in the East Exchange Street area, right there.

Q. Do you recall what happened, if anything?

A. Yes.

Some of his powder pillows were not -- They weren't any good. He had to use my pillows to take the test.

Q. Was that in one of the testing sessions?

A. Yes.

Q. Or in all of them?

A. I wouldn't say it was in all of them, but it was in a couple of them.
yes.

Q. Now, in July of 1990 --

(Whereupon a discussion
was held off the
record.)

By Mr. Smith:

Q. I will withdraw the last question and just start over again for you.

Mr. Albrecht, did you receive a letter from the Illinois Environmental Protection Agency in

July of 1990?

A. Yes.

Q. Was that letter factually accurate in all respects?

A. No, it was not.

Q. Where was it in error?

A. It mentioned about two fire hydrants that were inoperable, broken, that should be replaced.

Well, the fire hydrants do work.

And also that the storm sewer should be replaced.

Well, it was not a storm sewer that had to be replaced. It was when the hydrants ran in that area, they went down into the storm sewer, and the storm sewer opened up on to the ground, and then the water laid there and the residents were complaining about the mosquitos and the man's truck garden was flooded, and was not -- He didn't

appreciate that.

Q. Was there anything else that you can recall that was in error?

A. There was some things I didn't agree with, yes.

Q. Was there anything else with regard to running the hydrants?

A. Well, I did keep running the fire hydrants.

He says I didn't. I did run the fire hydrants.

Q. Had you been given any instructions by the Illinois Environmental Protection Agency with regard to not running the hydrants?

A. Yes. During the month or six weeks that they were going to make those tests every week I was not to run the fire hydrants during that time.

Q. And did you comply with that recommendation?

A. Yes, I did.

Q. Now, was there an error with regard to the lining of the water service?

A. Yes.

Q. Would you explain that?

A. Well, the City requires all new water main to be lined.

Q. What are they lined with?

A. Cement.

Q. Did you respond in writing to the Environmental Protection Agency concerning the July 30, 1990 letter?

A. Yes, I did.

(Whereupon Respondent's Exhibit No. B was marked for identification.)

By Mr. Smith:

Q. I show you what's been marked as Respondent's Exhibit B, and I ask you if you can identify that?

A. That's the letter that I wrote.

yes.

Q. Now, is this a copy of the letter or is it the original?

A. It looks like it's an original. I mean, I couldn't swear to it.

Q. Could the original have been sent to the Illinois Environmental Protection Agency?

A. It very well could have been.

Q. Okay. In addition to the December 7, 1989 recommendations, what new recommendations, if any, did the Illinois Environmental Protection Agency make in the July 20, 1990 letter?

A. Can you repeat that?

Q. Okay. They made recommendations in December of 1989?

A. Yes.

Q. And you followed those from what your testimony has been.

Now, in addition to those that they recommended in the

December meeting, did they have any new recommendations for the July 20, 1990 letter?

A. I can't remember.

Q. Do you recall if they had a recommendation with regard to drainage for the storm sewer?

A. Yes.

Q. What was that recommendation?

A. That we install new storm sewers.

Q. Did they have a recommendation with regard to broken hydrants?

A. Yes.

Q. What was that recommendation?

A. That we should replace the broken hydrants.

Q. Did they have a recommendation with regard to hydrants being flowed or replacing mains in areas of low or no chlorine?

A. Yes. They wanted us to replace

all the water mains in that area, all unlined cast iron water mains.

Q. Now, did they have a recommendation with regard to an ordinance concerning looping or cement lining?

A. Yes.

Q. Did they have a recommendation concerning flushing?

A. They wanted a Hydrant Flushing Program, yes.

Q. Now, what if anything did the City do in response to the recommendation that drainage for storm sewer be improved?

A. There was nothing that I could do about it. That was up to the Mayor or counselor or whoever.

Q. Was there adequate drainage for the storm sewer in the northeast section of town, to your knowledge?

A. To my knowledge there was.

Q. The only problem was that it had flooded the gentleman's truck garden, basically?

A. Right.

Q. Now, what was the response to the repair of the broken hydrants recommendation?

A. Well, they were not broken to start with, and so there was no need to replace them per se, but they are on a list to be replaced because they are old.

Q. Okay. Now, with regard to hydrants being flowed as necessary to maintain a .5 milligram per liter residual in the system, what if anything was done with regard to that?

A. We did flow the fire hydrants down there.

Q. Were the mains in the areas of low or no chlorine replaced?

A. No, they weren't.

Q. Was that required if there was flowing of hydrants?

A. In his letter, they were to replace the mains and flow the fire hydrants.

Q. Now, what if anything did the City do with regard to an ordinance requiring looping and cement lining?

A. I believe there was already an ordinance in place.

Q. Now, since July 20, 1990, has the Illinois Environmental Protection Agency made any further recommendations on this matter?

A. To my knowledge, no.

Q. In addition to the EPA -- the Illinois Environmental Protection Agency recommendation, what has the City of Sycamore done to increase chlorine residual in the northeast section of town?

A. We have renovated Well Number 3

and we have since started Well Number 1 back up.

Q: Now, prior to the recommendation from the Illinois EPA that Well Number 1 not be run except in emergencies, what was the water quality like in the northeast section of town?

A. Before it was run?

Q. Before the recommendation not to run, in other words, when it was run?

A. The water was dirty and it had a smell.

Q. What was the chlorine residual?

A. Like?

Q. Yes.

A. I really can't say.

Q. Okay. Now, this is when Well Number 1 was run prior to December of 1989?

A. Yes.

Q. It was at that time that --

A. The water prior to the

December meeting, before the EPA had come out and told us not to run it anymore, the water quality had improved in the area and there was a chlorine residual in the area.

Q. Okay. Now, after the Illinois Environmental Protection Agency directed you not to run Well Number 1 and you did not in compliance, what was the water quality like in the northeast section of town?

A. It started getting back to the situation that it was in when the complaints first started showing up.

And that's --

Q. Which was?

A. That there was an rotten egg smell to it and dirty water.

Q. Now, you've indicated that you've renovated Well Number 3, and where is Well Number 3 located?

A. Located at North Walnut Street.

Q. And is that in the northeast section of town?

A. Correct.

Q. And you've indicated that you're now running Well Number 1?

A. Yes.

Q. What if anything is the City doing with regard to the iron content there?

A. We've got a different -- running a different phosphate, stronger phosphate just to take care of a higher iron content well.

HEARING OFFICER MEDINTZ: Sir, could you speak a little bit more loudly, sometimes I'm losing your sentences.

THE WITNESS: Okay. Sorry.

By Mr. Smith:

Q. Where is Well Number 1 located in relation to the northeast section of town?

A. It's probably about three blocks

away directly in the center of town.

Q. Where are Wells 6, 7 and 8 located?

A. Wells 6, 7 and 8 are located on the far west extremes of the City.

Q. So any water coming from there would have to basically have to come all the way through the City in order to get to the northeast section of town?

A. Correct.

Q. Now, have you had any contact with Mr. or Mrs. Herman Prescott concerning chlorine residual at their property at 462 Exchange Street in Sycamore, Illinois?

A. Yes.

Q. When did you first have contact with Mr. and Mrs. Prescott?

A. November of '88, I believe. Is that when he moved in?

Q. Now, who was present at that time?

A. Mr. Prescott, his wife and myself.

Q. And where did this contact take place?

A. In their home.

Q. What happened?

A. I went down and took a sample of their water and I found no chlorine. I did not smell any rotten egg odor. I tasted it and it tasted like Sycamore water. And that's about all I can remember.

Q. Did you make any inquiry with regard to water heater?

A. Yes.

Q. What was said there?

A. I don't know if he said it was still in or if they had just taken it out, but there had been one in his hot water heater.

Q. When you say "one," what do you mean?

A. Magnesium rod

Q. What affect does a magnesium rod have?

A. It's supposed to protect the inside of the water heater

Q. What affect does it have on the water quality?

A. It makes it smell like rotten eggs.

Q. Does that problem go away the minute that the magnesium rod is removed?

A. No, it doesn't. It stays in that piping for a long time.

Q. When did you next have contact with Mr. and Mrs. Prescott concerning this water quality problem?

A. I believe they were at a counsel meeting.

Q. What happened at that time?

A. There was a -- oh, a bunch of protesters from that area present.

Q. What was said?

A. Well, there was a couple of them complained about their low water pressure and a few of them complaining about their rusty water. And I believe there was some smell.

Q. Did you have occasion to write a letter to Mr. Prescott?

A. I wrote a letter that Winter while he was in Arizona. I believe, telling him what we had been doing in his absence.

(Whereupon Respondent's
Exhibit C was
marked for
identification.)

By Mr. Smith:

Q. Okay. Now, I will show you what has been marked as Respondent's Exhibit C and ask if you can identify that?

A. That's it.

Q. Is that a copy of the letter that you forwarded to Mr. Prescott?

A. Yes, it is.

Yes, that's a copy.

Q. Has the City tested the water in its distribution system for chlorine content since June of 1989?

A. Yes.

Q. Who supervised that testing?

A. I suppose I did. I wasn't present, but I showed him and told him how to take the test.

Q. And you directed that it be done?

A. Yes.

Q. What was the reason for the testing?

A. Are we talking about 433 Exchange Street now?

Q. We are talking about in general testing of chlorine and flourine for the City?

A. Well, this is when Sandy Sands came down and requested that we monitor

our chlorine residuals all over the City of Sycamore, so that was in October of '89, maybe.

Q. Is the finished water at the wells tested?

A. Yes.

Q. And was that being done pursuant to a legal requirement?

A. No, that's done -- That's normal procedure.

Q. Normal procedure.

Now, what test was used with regard to the testing of chlorine?

A. The Hach test kit.

Q. And what procedure was used?

A. The little bit different than what they do, but it's basically the same except that when we take our test, we cut the pillows off first, put the water in the tube to the level, dump the pillow in, put the little rubber cap on top and gently shake it and then compare it.

Q. Do you wait a period of time before making the comparison?

A. Yes. They are instructed to wait three minutes.

Q. How long do they wait for the testing for free?

A. A minute.

Q. How long do they wait for the testing for total?

A. Three minutes.

Q. Now, was a record kept of the results of those tests?

A. Yes.

Q. Where are those records kept?

A. In my office.

Q. How are the results recorded?

A. Right now they're recorded on a computer.

Before they were recorded on a -- by hand on a piece of paper.

Q. Okay. How are they prepared mechanically, what's physically done?

A. The printer prints them out.

Q. For the records that were done by hand, somebody wrote them out?

A. Yes. I wrote them out and signed them and sent them to the EPA.

Q. Again, are these records that are required to be prepared and kept as part of the official duties --

A. Yes.

Q. -- of Water Superintendent?

A. Yes, they are.

(Whereupon Respondent's Exhibit D was marked for identification.)

By Mr. Smith:

Q. With regard to the records kept in the computer, where is the data for the computer input taken from?

A. It's from our daily test.

Q. Who puts the data into the computer?

A. I do. While I'm there.

Q. Is the computer in a normal operating condition?

A. Yes, it is.

Q. You have some, I believe. -- Let me withdraw that question and instead show you what's been marked collectively as Respondent's Exhibit D.

Can you identify those?

A. Yes, these are my records every day for a month at each well.

Q. Now, I know that these are multiple portions to the exhibit and that it consists of Respondent's Exhibits D-1 through D-5.

Are Respondent's Exhibits D-1 through D-5 accurate copies of the reports that have been prepared?

A. Yes.

Q. And what time limits do they cover, what time spans?

A. One month.

Q. And you have a number of them

What month and year do they begin and what month and year do you have as your last entry?

A. Right here?

Q. Yes.

A. This one is June of 1989 and the last one is April of 1992. 3/12.

Q. There is a portion that has computer printing rather than a copy of handwritten records.

Were those statements printed from the computer as a standard computer function?

A. Yes.

Q. Are these records forwarded to anyone?

A. Yes, they are.

Q. Who are they forwarded to?

A. To the Rockford office of the Illinois EPA.

Q. And are they relied on by you

and by the Illinois Environmental Protection Agency?

A. Yes.

(Whereupon Respondent's Exhibit No. E was marked for identification.)

By Mr. Smith:

Q. What if any testing was done on Sycamore water for bacteria from June of 1989?

A. After the residence were up here making a complaint of the water, we then started taking a water sample from 433 East Exchange Street, and we have every month since June of 1989 to the present time, where we tested for chlorine at the house when we take the bacteria sample.

Q. Noq, these are then submitted to a laboratory for testing and bacterial analysis?

A. Correct.

Q. Who supervises that testing?

A. I'm not present when they're tested, but they again have been directed by me on how to do it.

Q. What happens with the water samples? Are they sent anywhere for testing?

A. They're sent to the NET lab in Bartlett for bacterial samples.

Q. Is "NET" National Environmental Testing, Inc.?

A. Yes.

Q. Would you describe the procedure that is used?

A. For the chlorine testing part of it?

Q. For the chlorine testing and then for sending the samples out for analysis that are returned?

A. The samples are not sent away for chlorine sampling, we do our own sampling when we take the sample.

Q. And how do you do that, that testing for chlorine?

A. We take it from usually it's the kitchen sink, and there again we snip the powder pillow first and then fill the bottles up to the right level, dump the powder pillow in, put the rubber cap on and gently mix it up, and wait for it, and then read it. And then it's put down on a piece of paper.

Q. Is a second water sample taken and sent to the National Environmental Testing, Inc. company?

A. The water sample we get are just in the tubes for the chlorine and then we have another separate bottle that we fill up for the Bacti samples.

Q. What is done with the samples taken for the Bacti testing?

A. We send it to Bartlett for testing.

Q. What if anything does Bartlett

send back to you?

A. They send back the report showing that that water is safe to drink.

Q. I'm going to show you what's been marked as Respondent's Exhibit E and ask if you can identify those?

A. Yes. Those are the reports I get back from the lab.

Q. Are those copies of the reports that you received?

A. Correct.

Q. What dates do they run from and to?

A. 6/21/89 to 5/19/92.

Q. Okay. Are these results records that you've maintained as part of your duties, your official duties as Water Superintendent?

A. Yes, they are.

Q. Are these records forwarded to anyone?

A. Yes. They are forwarded to the Illinois Agency in Springfield. EPA Agency in Springfield.

Q. And does the Illinois Agency in Springfield rely on these test results and do you rely on these test results?

A. Yes.

Q. Did the City conduct any other testing for chlorine on its own initiative?

A. Yes. We would periodically be in the area checking chlorine residuals at the fire hydrants.

Q. This has been since June of 1989?

A. Yes.

Q. How supervised that testing?

A. There again, I wasn't present, but the fellows who did it were instructed by me on how to do it.

Q. And they were following out your directions?

A. Yes, they were.

Q. What was the reason for the testing?

A. We were asked to do this by Sandy Sands in the Rockford office.

Q. And she's with the Illinois Environmental Protection Agency?

A. Yes, she is.

Q. What test was used?

A. The Hach test.

Q. And was the same procedure that you described earlier used in producing the testing results?

A. To the best of my knowledge, it was, yes.

Q. Was a record made of the results?

A. Yes, it was.

Q. And where was that record kept?

A. I kept it in my office.

Q. How is the record prepared?

A.. Well, at first it was just on

regular paper.

And then we got the computer and I transferred it from the paper into the computer and later printed it out.

Q. Were you the one who did the computer input?

A. Yes.

Q. And were you also the one that did the printing?

A. Yes.

Q. And did the computer operate in a normal manner?

A. Yes.

(Whereupon Respondent's Exhibit F was marked for identification.)

By Mr. Smith:

Q. I show you what's been marked as Respondent's Exhibit F and ask if you can identify it?

A. Yes. This is the report for the results of what Sandy Sands requested be done.

Q. And is that what was printed out from your computer?

A. Correct.

MR. GALLAGHER: Excuse me. Can I see that?

MR. SMITH: Sure.

By Mr. Smith:

Q. And were these records printed from the computer prepared and maintained in the normal course of your regular business activities as the Water Superintendent for the City?

A. Yes. They were duties that were requested done by the EPA.

Q. Now, was the testing that was done with the flushing where there was testing for iron and for chlorine and for phosphorous in which Mr. Lookis was present, were results kept on that?

A. Yes, there were.

Q. And who supervised that testing?

A. I did. And Mr. Lookie.

Q. What tests were used for chlorine?

A. A spectrographometer?

Q. Not the Hach test?

A. Not the Hach test.

Q. Would you explain briefly how the spectrographometer works?

A. It's more accurate than the Hach test kit. There is a timer in there that won't let you test it, won't give you a result until the proper time is up.

Q. And how do you get a reading, is it a visual thing?

A. It's printed out.

Q. So the machine reads --

A. Yes.

Q. And then prints a result for you?

A. It comes up on a digital display. It doesn't print it out, you just read it.

Q. What record, if any, were kept of those results?

A. They were put on the computer and later printed on a sheet.

Q. Were you the one who inputted the information, the data, into the computer?

A. Yes.

Q. Were you the one who printed the results?

A. Yes.

Q. Now, there were tests done also for iron and phosphores, are you familiar with those tests?

A. No, I'm not. That was Mr. Lookis supervised those.

Q. And how would you receive the record of those results?

A. They were taken at the same time

as the chlorine test.

Q. But how would you get the results of those tests. Would he have them there for you immediately?

A. We were all there. All three of us were present at the time and he supervised those tests, and my assistant wrote the numbers down on a piece of paper. I took the figures from there and I put them on my computer.

Q. Do you know what tests Mr. Lookis used for iron and phosphores?

A. No, I don't.

(Whereupon Respondent's Exhibit G was marked for identification.)

By Mr. Smith:

Q. Now, I show you what has been marked as Respondent's Exhibits G and ask you if you can identify that?

A. These are the results from the

flushing of 4/91 till October
April 1990.

Q. And was that printed by you?

A. Yes, it was.

Q. From the computer as a normal
standard function for the computer?

A. Yes.

Q. Were these kept in the course of
your normal business activities as Water
Superintendent for the City of Sycamore?

A. Yes.

Q. And you also maintained them in
the same fashion?

A. Yes.

MR. SMITH: I have no further
questions, Mr. Hearing Officer.

HEARING OFFICER MEDINTZ: Okay.

Mr. Gallagher

CROSS EXAMINATION

By Mr. Gallagher:

Q. Mr. Albrecht, calling your
attention to Respondent's Exhibit G which

you just testified to and that's this one.

A. Okay.

Q. There's a column for iron phosphate and chlorine?

A. Yes.

Q. Is that chlorine, free chlorine or total?

A. It's total.

Q. And were these taken, these samples taken from hydrants at these particular locations?

A. Yes, they were.

HEARING OFFICER MEDINTZ: You're referring to what has been marked as Exhibit G?

MR. GALLAGHER: Exhibit G.

By Mr. Gallagher:

Q. Where is the date indicated on here?

A. 4/91, 10/91, 4/92.

Q. 4/91, the first page is blank.

that's because samples weren't taken there?

A. That's correct. Samples were taken, but they weren't kept.

Q. Okay. By the way, with respect to Respondent's Exhibit G, there is a location of State and Sabin, S-a-b-i-n; is that correct?

A. Yes.

Q. There's a hydrant located there?

A. Yes.

Q. And a test was taken there?

A. Correct.

Q. With regard to Respondent's Exhibit F, now that just covers a period of approximately a half a month?

A. Yes. That's all I was asked to do.

Q. Okay. I just wanted to make sure.

And, again, that was the hydrants throughout the City of

Sycamore?

A. Some of them were inside, some of them were inside buildings, some of the fire hydrants.

Q. If they were inside a building that would be like West School, the hospital and Suiter Company?

A. Yes. Those were all inside.

Q. If it's got an address of two streets, that's usually a hydrant in there?

A. Correct.

Not necessarily because there's one here, K-Mart, that wouldn't be inside. The bank wouldn't be inside. Hardee's wouldn't be inside.

HEARING OFFICER MEDINTZ: And what exhibit were you just referring to?

MR. GALLAGHER: That would be on Exhibit F.

HEARING OFFICER MEDINTZ: It would be helpful if the exhibit is referred to on

the record to help educate the record

By Mr. Gallagher

Q. Now, with regard to Exhibit D, D-1 through D-5, those samples were all taken at the well?

A. Yes.

Q. Am I right?

A. Up at the top.

Q. It tells you where it was taken from?

A. There's one says "residual plant free," "residual plant total," "residual distribution system free," and "residual distribution system total."

So there were two taken at the well and two at the distribution system.

Q. At the end of the system?

A. In the distribution system.

Q. Oh, in the system?

A. In the system.

Q. Where would those samples be

taken from? Randomly?

A. At random.

Q. And with regard to Respondent's Exhibit E, the National Environmental Testing results, there's a column for residual coring?

A. Yes.

Q. Is that total or free?

A. It's total. That's what the EPA wants.

Q. Now, in 1988 when you first went out to the Prescott residence, there was a problem with the water in that area; isn't that correct?

A. I think it's safe to say that, yes.

Q. There had been complaints about odor and red water and black water?

A. Not before he complained about it. But after he complained --

Q. Than there were complaints?

A. -- it did surface.

Q. In January of 1989 you had some samples taken of the water to test for sulfur reducing bacteria; is that right?

A. Yes.

Q. Why did you do that?

A. That was recommended by -- I can't -- I don't remember who, but somebody recommended that that's what we do.

Q. So I guess, to put it in laymen's terms, why did you do the test, what were you looking for?

A. The way I remember it was they explained to me that the sulfur reducing bacteria would cause the smell, if they were present.

Q. And on January 3, 1989, your testing showed that they were present; is that right?

A. Yes.

Q. And the best way to eliminate the sulfur reducing bacteria was to raise

the chlorine level in the main?

A. Yes. Yes. I believe that was one way.

Q. Okay. Then in May of '89 you caused water samples to be taken at 539 East Sycamore and 433 East Exchange is that correct?

A. Yes. I remember they called up and requested that their water be sampled.

Q. Who lives at 533 -- Strike that. Who lives at 539 East Sycamore, if you remember?

A. (No audible response)

Q. Who lives in 433 East Exchange?

A. 433 East Exchange? Kevin Sergeant.

Q. Because you conducted a number of tests there?

A. Right.

(Whereupon Complainant's Exhibit No. 10 was

marked for
identification.)

By Mr. Gallagher:

Q. Mr. Albrecht, I'm going to show you what I've marked as Complainant's Group Exhibit Number 10 which purports to be three test results from the City of DeKalb.

Is that correct, sir?

A. Yes.

Q. And those test results are directed to you?

A. Yes.

Q. Did you take those samples, do you know?

A. No, I did not.

Q. Why were the test results directed to you?

A. Because I receive all the mail as Water Superintendent.

Q. Who requested that those tests be done?

A. The people at whose addresses

Q. They took them over to the City?

A. No. We took them. My assistant took the samples.

Q. Okay. They requested you to do it, so you came out, took the samples?

A. Correct.

Q. Took them over to the City of DeKalb and said send us the results back?

A. I didn't.

Q. But someone did?

A. The City of Sycamore Water Department did.

Q. You asked them to test for chlorine?

A. No. We test for chlorine when we take the sample.

We fill in all this information except for here, that's what they fill out, this information out.

Q. So your department is the one that filled in the residual chlorine

count?

A. Correct.

Q. And that was total chlorine, right, not free?

A. Yes.

Q. Okay. And is the Complainant's Group Exhibit 10, those are copies, is that right?

A. Yes.

Q. Do you have the originals of those in your department, not that I'm going to ask you to produce them, but do you think that's where they're at?

A. That's where they would be.

Q. Does that copy correctly and accurately depict the documents that are in your control?

A. To the best of my knowledge, they do, yes.

Q. In June of '89 through September of 1990, you conducted chlorine residual tests on a monthly basis at 483

East Exchange, is that correct?

A. Along with bacterial samples

MR. GALLAGHER: Did you produce that document?

MR. SMITH: I don't know.

MR. GALLAGHER: Is it in there?

THE WITNESS: 433 Exchange Street is on these right here.

MR. GALLAGHER: Okay.

THE WITNESS: We take a bacteria sample every month along with the chlorine sample and they're both reported on this document right here.

(Whereupon, Complainant's Exhibit No. 11 was marked for identification.)

By Mr. Gallagher:

Q. Okay. Let me show you what I have marked as Complainant's Exhibit Number 11.

A. Okay.

Q. Was that compiled by your department also?

A. Yes.

Q. On your computer?

A. Looks like it. Yes.

Q. And that has the chlorine residual tests that had been conducted at 433 East Exchange on those dates?

A. Yes.

Q. And that's the summary of those dates that I gave you?

A. Just to that point, yes.

Q. So, from June of 1989 through September of 1990 you were conducting tests on a monthly basis there?

A. Yes. And we still are.

Q. Okay. And I think you said a Mr. Sergeant lives there?

A. Yes.

Q. Is he any relation to the Water Department?

A. No, not that I know of.

Q. Does he feel that he had a problem with his water, is that what he started?

A. She was at the meeting. She was at the meeting when all this surfaced.

Q. So you have been out there on a monthly basis?

A. That's right.

Q. In November of 1989, particularly November 13, 1989, Sandy Sands from the Rockford EPA came to Sycamore and met with you and the Mayor; is that correct?

A. Yes.

Q. And while she was here she sampled homes on East Exchange for chlorine?

A. I believe she did, yes.

Q. And her tests showed a .3 in chlorine; is that correct?

A. Right.

Q. And in December of 1989 is when

you met with Mr. Lindstrom and the Mayor
and Alderman Drake and maybe some others?

A. Yes.

Q. And then in February 1990,
February 21st, Sandy Sands came back to
Sycamore and conducted a test at
Mr. Prescott's residence, is that right?

A. I don't know if I was present
for that one.

(Whereupon Complainant's
Exhibit No. 12 was
marked for
identification.)

By Mr. Gallagher:

Q. Mr. Albrecht, I'm going to show
you what I have marked as Complainant's
Exhibit Number 12 for identification,
which purports to be a memo from you to
the Mayor and Alderman.

Did you prepare that memo?

A. Yes.

Q. I call your attention to the

second page.

A. That doesn't say I was there.

Q. Does that refresh your recollection about Sandy Sands coming to town?

A. No.

(Whereupon Complainant's Exhibit No. 13 was marked for identification.)

By Mr. Gallagher:

Q. Mr. Albrecht, I'm going to show you what I've marked as Complainant's Exhibit Number 13 for identification which purports to be a report by Sandy Sands.

A. Okay.

Q. And at the bottom it shows carbon copies were sent to various people.

A. Okay.

Q. Have you sign that report?

A. I probably have, yes.

Q. And does that report state that she conducted at the Prescott residents on May 21st?

A. February.

Q. February 21st, I'm sorry.

A. Yes.

Q. And in that she indicates that a total residue of .2 --

MR. SMITH: I have to object.

Counsel is doing a beautiful job of trying to bootstrap his way into this so he can get these results in, but my witness has no recall. He has a document here which is a copy of the report. He doesn't have Mr. Sands present. And we really shouldn't have this testimony in the record.

MR. GALLAGHER: I'll withdraw it, if I might.

HEARING OFFICER MEDINTZ: Please do.
By Mr. Gallagher:

Q. Mrs. Albrecht, I'm again handing you Complainant's Exhibit Number 12 for identification which you testified was a memo that you prepared. Is that correct?

A. Yes.

Q. And on page 2 of that memo you say that on February 21st Sandy Sands conducted certain tests at the Prescott residence and received a certain result. Is that correct?

A. Yes.

Q. Do you have any idea how you viewed that to put that in your memo?

A. Normal procedure is to get a letter from her.

Q. If you dealt -- Was that memo prepared close to the time that these events that we are talking about happened?

A. The memo is usually done the day that she is there.

Q. And they are prepared by you or

you make a note?

A. No.

Q. She prepares it and gives it to you?

A. Or sends it to me.

Q. And what I'm talking about, the memorandum you're holding in your hand, you prepared that?

A. Yes, I did.

Q. And at the time you prepared that, was the information you put in there accurate to the best of your belief?

A. Yes.

Q. Then in May of 1990 Mr. Lindstrom came out and you went to various fire hydrants; is that correct?

A. Yes, it is.

Q. And I think it was your testimony that he didn't have a test kit so he used your test kit?

A. That's right.

Q. And were you able to observe the results he obtained?

A. Yes.

Q. And in the letter that he sent to you or to the Mayor on July 20, 1990, did you have any dispute with the results of these tests?

A. No.

Q. And then I think on May 23rd, May 31st, June 6th, and June 14, Mr. Purcell came out and conducted some tests?

A. I believe there were some tests between May 8th and May 10th, too, wasn't there?

Q. Could have been.

But on May 23rd, May 31st, June 6th, June 24th, and June 26th, Mr. Purcell came out; isn't that correct?

A. Yes.

Q. And were you present when he

conducted the tests?

A. Yes.

Q. And this is the time that there was some problem one or two times with the I think what we are calling the pillows?

A. Yes.

Q. How could you tell that the pillows were bad?

A. Because his pillows would not get a chlorine residual and mine would, so that led me to believe that his were bad.

Q. So if he did one and got a showing of no residual, at the same time, right after that, would you try your pillows at that point?

A. Yes.

Q. And then you'd get the reading based on that?

A. He would not take my reading.

Q. He took his reading?

A. He did his own test and recorded his reading.

Q. His results were also contained in the July 20th --

HEARING OFFICER MEDINTZ: Excuse me. Could I clarify something before I forget it and before I get confused.

When you say he took his tests and made his reading, was that with the powder pillow that he had borrowed from you or is that with the powder pillow that he had that wouldn't give a residual?

THE WITNESS: When it was found out that his pillows would not give a residual and mine would, then he used my powder pillows to do his test.

HEARING OFFICER MEDINTZ: Okay. Thank you.

By Mr. Gallagher:

Q. And in that July 20th letter, the results of his test were also

included; is that correct?

A. Yes.

Q. And did you have any disagreement with those results?

A. No.

Q. These tests that are taken that are recorded in Respondent's Exhibit G, they are done at the hydrants; is that correct?

A. Their taken from fire hydrants.

Q. And is that done after the hydrants are flushed?

A. Yes.

Q. Okay. That's part of your flushing program, you flush them twice a year?

A. Yes.

Q. And then after you flush them, that's when you take the sample?

A. Immediately after they're flushed.

Q. Okay. Just for my own

information and hopefully for the Board's information, how is the chlorine injected into the system?

A. The three wells where it's injected with gas, gas injected, and two wells, it's pumped in, sodium hyperchloride, bleach, is pumped into the main.

Q. Is it fair to say that Well Number 1 and Well Number 2 generally service the area we are talking about?

A. Yes.

Q. How is the chlorine injected in those two wells?

A. With bleach.

Q. Both of them are injected with bleach?

A. With a pump, yes.

Q. By the way, when Mr. Purcell was out here on June 6th, he detected an odor; is that correct?

A. He could have, yes.

Q. And that led you to believe that that was because Well Number 1 was not running.

A. Yes.

Q. Now, is there a hydrant on the property where the condominiums are located?

A. Yes.

Q. In your flushing program do you flush that hydrant?

A. No.

Q. Has that hydrant been flowed, when you talk about flowing hydrants?

A. It was at one time.

Q. When was that?

A. I would say in '89. Maybe '90.

Q. Was it flowed for a couple hours a day for three weeks in a row or anything like that?

A. No. It wasn't flowed that much, I'm sure. I can't recall.

Q. And just, again, so we have it

clear, when you're flowing the hydrants, that causes the storm sewer to fill up and flood that one area, the truck garden area; is that what happens?

A. No.

Q. When they're flowing or you're flushing them, something happens that this truck garden gets flooded out, right?

A. Yes.

Q. What happens?

A. The water runs from the curb, and when it goes around the corner, it runs from the west side of Sabin Street to the east side of Sabin Street and there is no curb where he's got his truck garden, so it runs right into his truck garden.

Q. So it doesn't curb or make it to the storm sewer?

A. Correct. The excess water goes across the street into the truck garden.

Q. And that creates a problem when you are flushing or when you're flowing?

A. Right. The chlorine kills his vegetables.

Q. In any of the records with test results being Respondent's Exhibits D through -- D, E, F and G, is the hydrant located by the condominiums on any of those documents?

A. Just in that document there?

Q. Pardon me?

A. The ones behind it, too?

On this one there is.

Q. It is listed?

A. Right here.

Q. And it's designated as the hydrant Kohler property?

A. Correct.

HEARING OFFICER MEDINTZ: What exhibit are you referring to?

MR. GALLAGHER: Referring to Respondent's Exhibit F which is also

entitled Document F.

THE WITNESS: It's not on here.

By Mr. Gallagher:

Q. It's not on Respondent's
Exhibit G?

A. G.

Q. Okay. How about Respondent's
Exhibit E?

A. No.

Q. And Respondent's Exhibit D --

A. That's correct.

Q. -- are just the wells --

A. That's correct.

Q. -- so it wouldn't be there?

A. That's correct.

MR. GALLAGHER: I will be just a
minute.

By Mr. Gallagher:

Q. With regard to the National
Environmental Testing company, they test
for bacteria?

A. Correct.

Q Did you ever have a test come back from a residence in that area with if you will, a dangerous bacteria count? In particular, the residence of Russ Miller at 539 East Syracuse Street?

A Can I look?

Q Sure.

I think if you look at the May 10th --

A I'm looking at it.

Q Okay.

A These are both marked satisfactory. The results

Q Okay.

A If they had excess coliforms, they wouldn't be satisfactory.

Q Prior to May 10th, do you recall a problem with the Miller residence?

A No.

MR. GALLAGHER: That's all I have.

HEARING OFFICER MEDINTZ: Any redirect?

MR. SMITH: Couple of short questions, Mr. Hearing Officer

REDIRECT EXAMINATION

By Mr. Smith:

Q. Mr. Albrecht, you had an opportunity to observe Mr. Lindstrom take his test results and Mr. Purcell take his test results and perhaps Miss Sands as well, how long did they wait before reading for total chlorine?

A. I didn't have a stopwatch on, but Mr. Purcell did his for the three minutes.

Mr. Lindstrom I wouldn't say yes or no on his. It seemed like it was --

Q. Would it be less or more?

A. It seemed like it was less time than Mr. Purcell.

Q. And Miss Sands?

A. I can't remember hers.

MR. SMITH: No further questions at

this time, your Honor

HEARING OFFICER MEDINTZ I have a few questions, if I may, sir.

EXAMINATION

By Hearing Officer Medintz

Q. You testified earlier that there is presently an ordinance in place regarding what the water lines have to be constructed of?

A. Yes.

Q. What do they have to be constructed of or what things are excluded or prohibited?

A. I can't answer that. I'm not aware of it.

Q. Okay. But there is something in place?

A. Yes. I just read that part of the ordinance yesterday and I believe it says something in there about conforming to EPA Regulations and cement lined and, last, a certain thickness pipe.

Q. Do you know whether that ordinance was in effect at the time --

A. I can't answer that.

Q. -- the line that runs from the sewer to Mr. -- Excuse me, from the hydrant to Mr. Prescott's condominium was installed?

A. I believe the cement-lined pipe has been an ordinance since 1922.

Q. Do you know what kind of pipe was installed between the hydrant to the condominiums?

A. I was told that it was cement lined.

Q. Do you have any independent knowledge of whether it actually is or is not?

A. No, I don't.

Q. There was testimony that when hydrants were flowed or flushed that it caused a problem with an individual's truck garden?

A. Right.

Q. Is this the -- Does this problem occur when the hydrant in front of the Prescott residence was flowed?

A. No, I don't -- No. It was not.

Q. And was there the same problem of this individual getting flooded, if you know, when there's heavy precipitation?

A. Yes. I think so, yes.

Q. Who is Mr. Lookie?

A. He's an individual that we purchase our chemical from, our phosphate.

Q. And who made the decision of which hydrants to flow and which hydrants not to flow?

A. In our Hydrant Flushing Program?

Q. Yes.

A. Basically, the three of us get together and pick out the fire hydrants.

that are going to flow

Q. Was there a particular reason why your staff or yourself decided not to flow the one in front of Mr. Prescott's residence?

A. There's a sign right past the sidewalk that says "private property."

Q. The hydrant is past the sign that says --

A. Correct.

HEARING OFFICER MEDINTZ: That's all the questions I have.

If you gentleman have any questions to follow-up on what I have asked, feel free to do so.

MR. SMITH: No questions.

HEARING OFFICER MEDINTZ: I have a request to make, if it is possible and not objected to buy either counsel for either of the parties.

I think it would be helpful to have a city map with the wells

marked on there and the residences involved marked on there, and if such a thing is readily available, I would appreciate it if there is no objection to providing this.

MR. SMITH: We will do our best to find it for you and bring it into evidence.

MR. GALLAGHER: I will stipulate it in.

MR. SMITH: We have to find it first.

MR. GALLAGHER: There's one on the wall.

MR. SMITH: It doesn't locate the hydrants for you.

HEARING OFFICER MEDINTZ: There are no further witnesses to call today.

It's just about five o'clock, I'd like to compliment the witness on concluding his testimony at five, and we stand in recess until ten

o'clock tomorrow morning

Thank you

(Whereupon the hearing

was continued until

June 3, 1992

at 10:00 o'clock a.m.

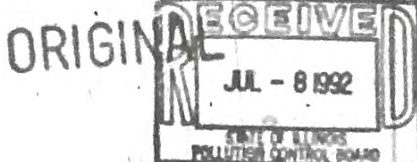
STATE OF ILLINOIS

COUNTY OF COOK

Sally A. Guardado hereby
certifies that she is the Certified
Shorthand Reporter who reported in
shorthand the proceedings had in the
above-entitled matter, and that the
foregoing is a true and correct
transcript of said proceedings.

Sally A. Guardado
Certified Shorthand Reporter

OFFICIAL
SALLY A. GUAR-
DADO
NOTARY PUBLIC STATE OF ILLINOIS
MY COMMISSION EXPIRES



STATE OF ILLINOIS

COUNTY OF COOK

BEFORE THE POLLUTION CONTROL BOARD

OF THE STATE OF ILLINOIS

HERMAN W. PRESCOTT,

Complainant,

vs.

PCR 90-187

THE CITY OF SYCAMORE,
ILLINOIS,

Respondent.

The following is a transcript of a hearing held in the above-entitled matter, at Sycamore City Hall, Council Chambers, 535 DeKalb Avenue Sycamore, Illinois, on the 3rd of June, 1992, A.D., commencing at the hour of 10:00 o'clock a.m.

BEFORE:

MR. MARVIN MEDINTZ
Hearing Officer

APPEARANCES:

Mr. T. Jordan Gallagher
Gallagher, Klein & Brady
Suite 300, Hillcrest Centre
444 East Hillcrest
DeKalb, IL 60115

appeared on behalf of Complainant.

Mr. Peter Thomas Smith
Smith & Strauss
207 West State Street
Sycamore, IL 60178

and
Mr. Timothy W. Johnson
315 West Elm Street
P. O. Box 327
Sycamore, IL 60178

appeared on behalf of Respondent.

Also Present:

Mr. Herman Prescott

Mr. Syd Albright,
Water Department Superintendent
City of Sycamore

Mr. Kevin G. Loukis,
Vice President,
Hydronics, Inc.

Mr. Leonard A. Lindstrom, P. E.
Regional Manager,
Field Operations Section,
Division of Public Water Supplies,
Illinois Environmental Protection Agency

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| C | | 323 |
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| E | | 323 |
| F | | 323 |
| G | | 323 |
| H | 317 | 323 |
| I | 317 | 323 |
| J | 317 | 324 |
| K | 328 | 405 |
| L | 359 | 405 |
| M | 423 | 469 |
| N | 455 | 469 |

(Whereupon Respondent's
Exhibit E, I and J,
were asked for
identification.)

HEARING OFFICER MEDINTZ: This is the
resumption of the hearing in the case of
Herman W. Prescott, Complainant, versus
the City of Sycamore, Respondent, docket
before the Pollution Control Board is PCB
90-187.

I note for the record that
the parties are represented today by same
counsel as represented them yesterday and
I have a preliminary remark and then we
can commence with the proceedings.

I received a request for
information regarding the return of a
particular exhibit to one of the
parties. As a preliminary matter I would
prefer that further contacts be made
through counsel as opposed to a party
directly.

Secondly, the procedure for obtaining an exhibit from the Pollution Control Board would be the party through their counsel simply sending a letter to the clerk of the Pollution Control Board requesting that that particular exhibit be withdrawn from the record and returned to counsel, who would then presumably forward it to the individual who desired the return of the exhibit.

I don't think the Board will require the formality of a motion for leave to have an exhibit returned or however you use to caption it.

If the parties prefer to do it that way, that's also acceptable, of course.

At the close of business yesterday I asked whether or not it was possible to obtain a map that might be of some value to the Pollution Control Board

in placing the various wells and various addresses in so kind of a context where one could see whether there might be a relationship in some of the matters that we've talked about the last day.

Has there been any success in obtaining such a map.

MR. SMITH: Yes. I have two documents, Mr. Hearing Officer, that have been marketed as Respondent's Exhibits H and I.

And H is a map showing streets and lots of the northeast section of the City of Sycamore.

I is a larger overview and a map of the entire city showing the location of the wells.

I've reviewed these with the attorney for the petitioner.

MR. GALLAGHER: We would stipulate that these are accurate and should be placed into evidence.

The only question I have
and, Peter, I think you can clear this
up. There are like black dots on
Respondent's Exhibit H and I assume those
indicate where hydrants are.

MR. ALBRECHT: That's correct.

MR. SMITH: That's correct.

HEARING OFFICER MEDINTZ: With that
explanation they will be received as
well.

MR. SMITH: I would move Respondent's
Exhibits H and I into evidence, your
Honor.

MR. GALLAGHER: No objection.

HEARING OFFICER MEDINTZ: They will
be received.

Thank you.

(Said document, heretofore
marked Respondent's
Exhibits H and I for
identification, were
admitted into evidence
to wit, as follows:)

MR. SMITH: Mr. Hearing Officer, at this time I would also move into evidence what has been marked as Respondent's Exhibits C, D, E, F and G.

MR. GALLAGHER: The only objection I have I think is to D and the objection is one of relevancy.

These are samples that were taken at the respective wells and I'm not sure what relevancy that has to the matter before the Board, but otherwise I have no objection to them.

HEARING OFFICER MEDINTZ: For the same reason that I allowed certain of the Complainant's exhibits in yesterday, while the test records at the site of the well may not be conclusive as to what the chlorine content of the water is at the affected residences, it does go to indicate whether or not there was chlorine at some point and I think as providing some of the framework in the

context for the defense as well as what you were allowed to do in placing the prosecution in context. they will be allowed in.

(Said Documents,
heretofore marked
Respondent's Exhibits
C, D, E, F and G
for identification,
were admitted into
evidence, to wit,
as follows:)

MR. SMITH: There is one more document, Mr. Hearing Officer, and this is what has been marked as Respondent's Exhibit J.

It is a trustee's deed for the property commonly known as 462 East Exchange, the residence of Mr. Prescott, and this is a true copy of the document that has been produced to me by the Respondent -- by the Petitioner.

MR. GALLAGHER: We have no objection to the admission of the deed into evidence.

HEARING OFFICER MEDINTZ: May I examine it for a moment please?

It will be admitted.
(Said document, heretofore marked Respondent's Exhibit J for identification, was admitted into evidence, to wit, as follows:)

HEARING OFFICER MEDINTZ: Do you have any witnesses to call today, sir?

MR. SMITH: Yes, I do.

On behalf of the City I would call John Brady.

HEARING OFFICER MEDINTZ: Would you swear the witness, please?

(The witness was sworn.)

JOHN BRADY,
called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

By Mr. Smith:

Q. Would you please state your name for the record?

A. John Brady.

Q. Where do you live Mr. Brady?

A. 1611 Kaylee Court, Sycamore.

Q. Are you married?

A. Yes.

Q. How long have you been married?

A. Twenty-two years.

Q. Do you have any children?

A. Yes.

Q. How many children?

A. Three.

Q. Would you briefly describe your educational background?

A. I have a degree from Marquette University in civil engineering, graduate of that University in 1968.

Q. Is that a Bachelor of Science?

A. Yes, it is.

Q. What is your present occupation?

A. City engineer for Sycamore.

Q. How long have you held that position?

A. About twenty years.

Q. What are your responsibilities in that position?

A. Includes certain planning and design review, design construction.

inspection and supervision of various public works projects in the corporate limits of Sycamore.

Q. Prior to working for the City as a city engineer, where did you work?

A. I worked for the Division of Highways, State of Illinois.

Q. What were your responsibilities there?

A. I was involved with bridge and highway engineering, design, and resident inspection and supervision.

Q. What was your position?

A. Civil Engineer 1 and 2.

Q. And how long had you worked there?

A. It was about four years.

Q. As the engineer for the City of Sycamore, did you review the Exchange Street Townhouse Project proposed by a Don Kohler?

A. Yes, I did.

Q. When do you recall reviewing that?

A. Checking back in the records, it had to be about four years ago.

Q. Do you recall where you reviewed it?

A. In my office here at this building.

Q. Who brought it to you?

A. Probably Don Kohler.

Q. Do you recall what happened?

A. Not really.

The normal sequence would be to submit plans and then review and make any comments, if any, and then eventually approve the plan.

Q. Did you approve the plan?

A. I think so.

(Whereupon Complainant's Exhibit K was marked for identification.)

By Mr. Smith:

Q. I show you what's been marked as Respondent's Exhibit K and ask if you can identify it?

A. Okay. This is the Site Utility Plan for the townhouses on Exchange Street. It includes the water main, sanitary sewer and some storm sewer and storm sewer detention areas.

Q. Did you approve that site plan and utility plan on behalf of the city?

A. Yes.

Q. What date?

A. It looks like it was February 4th of 1988.

Q. Were the specifications in the plan complied with in construction?

A. Yes.

Q. What kind of water line was installed?

A. There was a ductile iron water line installed.

Q. Was that a lined or an unlined?

A. It would be lined.

Q. What was it lined with?

A. It would be a cement lining.

Q. What size?

A. There was a six-inch pressure tap and a six-inch main extension into the property terminating with a six-inch lead to a fire hydrant.

Q. Do you have something so that you could mark the exhibit as to where the Sycamore Distribution System is on that site plan?

A. Yes, I could.

Q. Okay. Would you?

A. I have a black marker, it may show up better on the blue background.

Q. Would you mark where the Sycamore Water Distribution System is on the site plan?

A. (Complying.)

Q. And just beneath that would you write Sycamore Water Distribution System?

A. (Complying.)

Q. Is the water extension service for the Kuhler Project also shown on that site plan?

A. Yes, it is.

Q. Would you also mark that with a black marker and label it?

A. Do you want to use a different designation?

Q. Well, why don't we use broken lines rather than solid lines?

A. I used broken lines on the Sycamore Distribution. I'll use a solid line on the service.

Q. Okay.

A. (Complying.)

Q. And would you label it?

A. Would you want to label this?

Q. I would suggest that you label

it Kohler Water Extension Service.

Q. Mr. Brady, who owns the water extension service?

MR. GALLAGHER: Objection.

HEARING OFFICER MEDINTZ: Basis for your objection?

MR. GALLAGHER: I don't think he would have any knowledge about that.

I think -- Well, maybe the objection is premature.

Maybe some foundation of how he would know who owns the water service.

HEARING OFFICER MEDINTZ: I'd be interested in that.

MR. SMITH: I'll withdraw the question and ask another.

By Mr. Smith:

Q. Does the City of Sycamore own the water extension service?

A. No.

Q. Who owns the -- Does the City of

Sycamore own the property on which the water extension service is laid out?

A. No.

Q. Does the City of Sycamore have any easements or rights of way on the property?

A. No.

Q. Did the City of Sycamore pay any portion of the water main service?

A. No.

Q. Are you familiar with the Illinois Environmental Protection Agency construction requirements for water extension services?

A. Yes.

Q. Was an Illinois Environmental Protection Agency permit required for the Kohler project?

A. No.

Q. Was an Illinois Environmental Protection Agency permit applied for on the Kohler project?

A. Yes.

Q. Who made the application?

A. The owner.

Q. Don Kohler?

A. Don Kohler.

Q. Was the permit granted by the Illinois Environmental Protection Agency?

A. No.

Q. To your knowledge do the Illinois Environmental Protection Agency Regulations require looped water extensions for projects similar to that proposed by Mr. Kohler in 1988?

A. No.

Q. Are you aware of any other projects similar to Mr. Kohler's in Sycamore?

A. Yes.

Q. Were Illinois Environmental Protection Agency permits required for those projects?

A. No.

MR. SMITH: No further questions.

HEARING OFFICER MEDINTZ: Okay.

Mr. Gallagher?

MR. GALLAGHER: Thank you.

Can I see Plaintiff's

Exhibit Number 1?

(Document tendered.)

CROSS EXAMINATION

By Mr. Gallagher:

Q. Mr. Brady, the City of Sycamore also joined in that application for a permit from the IEPA; isn't that correct?

A. Not the original application.

Q. But after the original application was denied, the City of Sycamore joined in that application; isn't that correct?

A. As requested by EPA, yes.

Q. And the reason why that was requested was they wanted to make sure that the City was going to be responsible for the supervision and operation of that

service; isn't that correct?

A. Partly.

Q. Okay. Were there other reasons, too?

A. I think they were concerned about the line being properly maintained and I think there was a clause added where the owner of that water main, which was Don Kohler, would remain as Don Kohler, or the owners of the property would maintain it. It would be maintained at their expense rather than at the City's expense.

Q. Maintained by the City at the owner's expense?

A. No. I think we supervised the maintenance, but not to actually maintain it.

Q. I'm going to show you what has been marked as Plaintiff's Exhibit No. 1 which is in evidence which is a series of documents regarding the permit

application and I call your particular attention to one letter. It's a letter dated April 15, 1988. Isn't that correct?

A. April 15, 1988.

Q. Okay. And that's a letter you sent to the EPA; isn't that correct?

A. Yes, it is.

Q. On behalf of the City of Sycamore?

A. Yes.

Q. And the purpose of that was to send the required information the EPA wanted as far as the City's involvement; isn't that correct?

A. Yes.

Q. This is two months after you had already approved the plans?

A. It's over two months.

Q. If I would turn to -- Okay. Now, calling your attention to page 3 of the application for the construction

permit, the Mayor of Syracuse signature appears, or the person that was the Mayor at that time; isn't that correct?

A. Yes.

Q. And what is he attesting to or what was he telling EPA?

A. Agrees to furnish water

Q. Anything else?

A. Well, I could -- Yes, I -- You want me to read the entire document, is that right?

Q. Just that section right above the signature?

A. "The undersigned acknowledges the Public Water Supplies responsibility for examining the plans and specifications to determine that the proposed extensions meet local laws, regulations and ordinances.

"The City of

Sycamore shall have the sole responsibility for the supervision and operation of all water main extensions upon completion of installation in perpetuity."

Q. And that was submitted to the EPA?

A. Yes, it was.

Q. And after that was submitted, the EPA still denied the permit?

A. At a later date, they did.

Q. And, in fact, I think there's a letter to the City of Sycamore dated May 4, 1988, where that permit was denied; is that correct?

A. That's correct.

Q. Now, the plans that you approved for Mr. Kohler provided a service that, for lack of a better word, dead ends; is that correct?

A. It was a fire line that would

dead end, yes.

Q. The how long is that six-inch service line approximately?

A. It looks to be, if these dimensions are correct, from the pressure tap in the street at Exchange Street back to the hydrant lead, it would appear to be 230 feet.

Q. And I know this might catch you off guard, but do you know how many gallons that pipe would hold then?

A. A six-inch holds approximately 1.5 gallons per lineal foot, so what 1.5 times 230 would be, somewhere around 400 gallons, 350, 400 gallons.

Q. And how many units does that service service?

A. Currently or proposed?

Q. Let's do currently, first, if you know.

A. It appears to be ten by this plan. It may be eleven because I think

one building might have been extended

Q. Do you have any, based on your training and your experience, any idea of an average daily usage of a unit, a living unit?

A. EPA requires in design of sewer systems to use 100 gallons per capita per day.

Q. Now, the hydrant that was installed, that's a fire hydrant that we are talking about, correct?

A. Yes.

Q. And it's your testimony that the City of Sycamore doesn't own that?

A. That's correct.

Q. Is it also your position that anybody, since you don't own it, anybody can go and open that hydrant?

A. No.

Q. Who has the authority to open that hydrant?

A. Well, the City, from our file

documents with EPA. We would supervise the operation of it. If people were out there using that for watering their lawns or that, we wouldn't want that.

Of course, the Fire Department would be the main user of that fire hydrant and if the owners of that property felt they wished to operate the hydrant, they could do so with the City's permission.

Q. And if they just wanted to flow the hydrant, the City would give them permission to do that?

A. I'm sure they would.

Q. Is there a special tool to open hydrants?

A. Yes.

Q. Can you go to a hardware store and buy those?

A. Probably not.

Q. Pretty much they're limited to people who are in the waterworks

business?

A. No. The proper tool Water Departments would have, but it can be opened with other types of pipe wrenches or adjustable wrenches.

Q. Did you oversee from the City's point of view the construction of this project?

A. Parts of it.

Q. I mean you checked as the project was being built, you'd go out there from time to time?

A. Different phases of it, yes.

Q. Make sure it was complying with the plans?

A. Yes.

Q. And after the May 4th letter from EPA, the construction still continued; is that correct?

A. I'm not sure if construction was underway at that time or completed. I think the City, with their conversations

with EPA, felt that things were in order and I never had any further calls from EPA until this letter and nothing was ever followed up by the owner who was the applicant for the permit.

Q. The letter was address to the City; is that correct?

A. It was addressed to Mayor and counsel, yes.

Q. And after you received the letter denying the permit, you never heard anything more?

A. That's correct. They denied the permit for time reasons. They couldn't respond apparently within the 90 day period and rejected the application.

MR. GALLAGHER: That's all I have.

HEARING OFFICER MEDINTZ: Redirect?

REDIRECT EXAMINATION

By Mr. Smith:

Q. Mr. Brady, there is an April 8, 1988 letter from the Illinois

Environmental Protection Agency to Warner Engineering and I would ask you to read the fourth paragraph?

A. "Another acceptable alternate would be for Donald J. Kohler, one of the beneficiaries of the above Trust, to retain ownership of the proposed water main and enter into an agreement with the City of Sycamore where the official representative of the City would supervise operation, maintenance and repair of the proposed water main. Any cost incurred would be born by the terms of an agreement accepted and signed by the respective officials."

Q. Is that what you had understood was proposed to the city?

A. Yes.

Q. And is that what you understood the language on page 3 of the application that was subsequently submitted meant?

A. Yes.

Q. Now, the City is presently providing water to this extension service; is that correct?

A. That is correct.

Q. Was any other sort of formal agreement entered into with Mr. Kohler with regard to supervision of operation and maintenance?

A. No.

Q. So except for the language in this EPA application which was denied and which Mr. Kohler never followed through on, there is no other statement or agreement that you're aware of?

A. That's true.

MR. SMITH: No other questions.

HEARING OFFICER MEDINTZ: Okay.

Mr. Gallagher?

MR. GALLAGHER: Just a couple

RECROSS EXAMINATION

By Mr. Gallagher:

Q. That fourth paragraph that you read calls for an agreement between the City and Mr. Kohler; is that correct?

A. Yes.

Q. And there is no such agreement?

A. There is no agreement, effective agreement.

Q. Okay. I mean there was never a document drafted or signed by the City, signed by Mr. Kohler?

A. Both the -- Page 3 of the application was signed both by the Mayor and by the owner, it's not a form of an agreement, but it has the same language that's in this paragraph.

Q. We know people are living there, so the City issued occupancy permits?

A. Yes.

Q. The City had knowledge that the permit had been denied by EPA?

A. Yes.

MR. GALLAGHER: That's all I have.

MR. SMITH: No other questions.

HEARING OFFICER MEDINTZ: I have a few questions, if I may, sir.

THE WITNESS: Yes.

EXAMINATION

By Hearing Officer Medintz

Q. Who made the determination that an EPA permit was not necessary?

A. In this case the owner applied for an EPA permit for water as well as sewer.

Like I testified, other times when we've checked with EPA on other projects we were told that this type of project didn't require an EPA permit, but since they had more than 2,000 gallons per day coming out of the development, they applied for the sewer

permit, the consulting engineer just prepared both a water and sewer application and they were just forwarded to the EPA.

Q. Who at the City made the determination not to follow-up on the denial letter that was sent to the City?

A. Could you state that again?

Q. Okay. You received -- The City received a letter directed to the Mayor and to Council Members denying the permit application, do you know who might have made the determination on behalf of the City to let the matter die with the denial letter?

A. I don't.

The City in this case was not the applicant. Other times, we are the applicant so the City was sent the letter, but the applicant was denied the actual permit for a service.

Q. During the inspections that were

made during the construction of the project, was anybody from your department there who actually inspected the six-inch ductile iron line concrete -- lined with concrete pipe to determine whether or not it had conformed with the specifications?

A. Both the Water Department was there because there was pressure taps, and I was down there on occasion.

Q. You know of your own personal observation that it is a cement lined pipe?

A. Yes.

Q. What is the flow rate that this pipe is capable of, if the hydrant were opened to the maximum?

A. I don't know. It's being fed by a 4-inch line. I'm not sure what static and residuals would bring down that area, but it would be capable of certainly more than -- certainly more than 1,000 gallons per minute and certainly less than 2,000

gallons per minute, but somewhere in between there I would say:

Q. Was anybody who followed that development ever approached to your knowledge, either your department or the Water Department, if you know, regarding obtaining a tool to flow the hydrant?

A. I'm not aware of that.

Q. Does your department have such a tool?

A. No.

Q. Does the Water Department?

A. Yes.

HEARING OFFICER MEDINTZ: I have no further questions and if either of you have any questions following what I've asked, please feel free to proceed.

MR. SMITH: No further questions.

MR. GALLAGHER: I have nothing further.

Thanks, your Honor.

HEARING OFFICER MEDINTZ: Thank you.

Mr. Brady.

THE WITNESS Who gets this?

HEARING OFFICER MEDINTE Just leave it.

[The witness was excused.]

MR. SMITH: I would next call Kevin Lookis.

Would you swear the witness, please?

[The witness was sworn.]

KEVIN G. LOOKIS,
called as a witness, having been first
duly sworn, was examined and testified as
follows:

DIRECT EXAMINATION

By Mr. Smith:

Q. Would you please state your name
for the record?

A. Yes. Kevin Lookis, L-o-o-k-i-s.

Q. Where do you live, Mr. Lookis?

A. 48 Camelot Drive in Rodchester,
Illinois.

Q. Are you married?

A. Yes.

Q. Do you have children?

A. Yes.

Q. How many?

A. One.

Q. How long have you been married?

A. Ten years.

Q. Would you briefly describe your educational background?

A. Yes. I have a Bachelor's Degree in Botany and Zoology from Eastern Illinois University which was granted in 1980 and a Master's Degree in Science and Botany specializing in water quality granted in 1983 from Eastern Illinois University.

Q. Did you do a thesis for that Master's Degree?

A. Yes.

Q. What was the subject of the thesis?

A. "Raw water quality in the new Charleston side channel reservoir," Charleston, Illinois.

Q. Was that published?

A. Yes.

Q. What work have you been doing since you completed your education?

A. When I left graduate school I became the laboratory supervisor for the City of DeKalb, Illinois.

My responsibilities there were the bacteriological testing of the water, the operation and maintenance of the well systems there. They had ten deep wells. The chemical treatment and monitoring analyses of the water. And then, when necessary, other duties as assigned by the superintendent.

Q. And that was with the City of DeKalb's Water Department?

A. Yes, sir.

Q. When did you begin work there?

A. In early August of 1983.

Q. And when did you leave?

A. August of 1984.

Q. Where did you work after 1984?

A. I went to work for the Company that I presently work for, Hydronics, Incorporated. At that time it was known as Hydronics Engineering Company. They were incorporated in December of 1984.

Q. What was your initial position with them?

A. I was classified as a consultant, water quality consultant was the actual job title.

Q. What were your responsibilities in that position?

A. The analysis of water samples and then the recommendations from that analysis on dealing with problems such as red water or discolored water, corrosion or scale build-up, and then, in addition, the design and implementation of a well

rehabilitation technique also using phosphate based chemistry

Q. What is your present position with Hydronics, Inc.?

A. Vice president.

Q. What are your responsibilities in that position?

A. I still do some of the same responsibilities that I had before, but in addition to that now, I'm responsible for the overall planning for the Company. I'm also the direct liaison with both the Illinois and the Federal EPA, and the Illinois and federal or United States American Waterworks Association.

Q. Do you do any research in that capacity?

A. Yes, sir.

Q. What research have you done?

A. We've done -- All right. I guess I say "we" because it's always been

in joint with several other people

Has been with regards to primarily corrosion treatment and to a greater degree lead corrosion treatment and lead corrosion inhibition using a phosphate based inhibitors.

Q. Have you authored or presented any research papers on water treatment?

A. Yes.

Q. What title?

A. "Phosphate based corrosion inhibitors, their effects on the growth and/or survival of selected bacteria "

Q. When was that done?

A. It was presented at the Water Quality Technology Conference of the American Waterworks Association in November of 1990.

Q. Have you had any contact with the City of Sycamore, Illinois, concerning the quality of its water?

A. Yes.

Q. When do you recall first having contact?

A. June of 1989.

Q. Where did you have that contact?

A. At the Water Department building directly behind us here.

Q. Who was present?

A. At the first meeting, Mr. Albrecht, the Water Superintendent, was present for all of the meeting, and his assistant, Donald Smith, was present during part of the meeting.

Q. What happened?

A. We discussed the water quality problems that were occurring primarily in the northeast portion of Sycamore. Mr. Albrecht shared with me all of the laboratory analyses that he had in his possession up till that time, including the analyses for sulfate reducing bacteria for iron, the hardness, and the

general water quality of each of the individual wells or the wells that were supplying that part of the City, and, in addition, I collected some samples that day to analyze in our own laboratory

Q. What was the result of that first contact?

A. I was asked to submit kind of a report summarizing what we had discussed, what my results were and what my recommendations would be in terms of trying to help alleviate the problem and I was to submit that to Mr. Albrecht and to the Mayor at that time, May Johnson.

Q. Did you do that?

A. Yes, sir.

Q. What happened?

A. Mr. Albrecht arranged a meeting between the Mayor and the Water Committee, I guess would be a good name for it, the Aldermen that were involved

in water and wastewater, and myself which I believe was in July. I'm not sure, but I believe sometime in July, to discuss in more detail exactly what Hydronics was proposing to do and also to discuss what the estimated costs might be for the recommendations.

Q. Did Sycamore eventually subscribe to the treatment program you recommended?

A. Yes.

Q. What is the purpose of I believe you said aquadine or aquidene?

A. Aquadene is kind of a -- I guess you'd call it a trade name which regards probably eight or nine different phosphates that we have researched and utilized.

These are what are known as blended phosphates. There are many different types of phosphates available, but the two most prevalent in water

treatment are orthophosphate and polyphosphate. This is a blend of the two.

The idea behind this type of treatment is to sequester minerals, that's it's primary function in a ground water system.

And what I mean by sequester is a phosphate surrounds a molecule or covers a molecule of say, for example, iron and helps to keep it in a clear state so that it doesn't oxidize.

I think as Mr. Lindstrom said yesterday, when chlorine comes in contact with iron it will oxidize into the red state and this is designed to try and slow or stop that process completely by keeping the oxidizing agents from reaching the iron or manganese molecule itself. That's the primary function.

Secondarily, it's to act, because of the orthophosphate within the

product, as a corrosion inhibitor to reduce the corrosion within the distribution system

And then I guess the tertiary function which is a very long-term function, typically, is that phosphates, as we all know, have been used in detergents for years and they get clothes very clean. They do that by dispersing molecules, solids, into smaller particles so that they can be removed and washed out.

These types of products act in the same way within heavy tuberculation and scale, within the distribution system, but it's very long term, it's a very slow process, that aspect of it.

Q. What effect does this treatment program have on a chlorine rate?

A. It's an indirect effect.

What happens is the

tuberculation in scale that builds up within a distribution system creates what's known as a chlorine demand depending upon what the make-up of that scale is, if there are any nonpathogenic bacteria, whether they be sulfate reducing or ion reducing bacteria or just the minerals themselves can create chlorine demand.

So the effect this particular type of treatment has on a long-term is to reduce that chlorine demand and eventually stabilize it so that the amount of chlorine that's going into a particular part of that distribution system can be maintained more efficiently.

Q. What is the success rate of this type of treatment in the northern Illinois area?

A. To my knowledge, as far as I can say for myself as well as some of the

other companies. It's over 90 percent.

Q. Are there any communities in the northern Illinois area that you know have been using this treatment?

A. Yes.

Q. Which ones?

A. Starting from the west, Sterling, Dixon, Rochelle, DeKalb, and then as we go further east there's Morengo, north, Cherry Valley, those are the ones that pop into my mind at the top of my head.

Q. What is an alternative to this treatment method?

A. In terms of iron itself or iron and manganese, I'd say that the primary alternative is iron removal where you oxidize the iron at a treatment plant and remove it completely.

Q. Is that expensive?

A. Yes.

Q. Is there any alternative

treatment for iron piping?

A. Yes.

It's known I guess tradewise as pigging.

You pass through the water main through an opening in the top what looks like a large bullet, pass it through the main and it scours the inside of the main and removes the tuberculation and precipitates that are in the pipe.

Q. Is that an effective long-term treatment?

A. Not to my knowledge. Not in my opinion because it usually has to be done every year, precipitates builds back up very quickly.

Q. Is that because the raw iron is then exposed?

A. Exactly.

What you have is more surface area within the pipe. There are a lot of inequities within the pipe and

the iron will tend to collect and expose itself there and you also may expose the pipe to more corrosion is another possibility.

Q. Is this treatment program, this Phosphate Treatment Program approved by the Illinois Environmental Protection Agency?

A. Yes.

Q. Is this treatment program approved by the Illinois Environmental Protection Agency?

A. Yes.

Q. Since you've begun the treatment program for the City of Sycamore, have you monitored the results of this treatment?

A. Yes.

Q. What procedures have you used in monitoring?

A. Primarily we run iron, phosphate, two types of phosphate,

orthophosphate and polyphosphate, and chlorine residuals.

Q. When have you monitored?

A. Initially, in the first three or four months as is typical in this type of a situation, we did it on a monthly basis. Sometimes it was even more often than that, then it was done when possible when the system was flushed. During the scheduled Spring and Fall flushing times is an idea time to monitor the effectiveness of the program.

Q. What tests were conducted?

A. Iron -- total iron in this case -- orthophosphate, polyphosphate, and chlorine -- free and total.

Q. What type of a test was used for the iron?

A. I use the Hach DR2000, it's a digital spectrophotometer.

Q. And did you personally conduct these tests?

A. Yes.

Q. What type of tests is used for the phosphate?

A. The same instrument, the DR2000 spectrophotometer. We just use different free agents to test for phosphate.

Q. And for the chlorine?

A. The same.

The DR2000 spectrophotometer and we just use several different agents.

Q. How does the spectrophotometer work?

A. You set it at a certain wavelength. There is a dial. And this allows for certain size and color of light band to pass through a closed cell. Into this cell you place the sample of whatever you're analyzing, whether it be chlorine or iron. The light then picks up a transmittance, depending upon the color change in the

sample and then transfers it up in through a small computer chip and digitally registers the parts per million or milligrams per liter of whatever parameter you're testing for.

Q. Now, we previously have marked and received into evidence Exhibit G. Is this Exhibit G a compilation of the results of the testing that you described for monitoring?

A. Yes.

Q. Have you prepared any graphs?

A. Yes, I have. Primarily from the specific area of town where we were having the most difficulty.

(Whereupon Respondent's Exhibit L was marked for identification.)

By Mr. Smith:

Q. I show you what's been marked as Respondent's Exhibit L and ask you if you

can identify that?

A. Yes. These are graphs that I prepared from the information within primarily that documents as well as others that I believe have been submitted.

These date back to November of 1989, in some cases, in two cases, and then in the other four cases they date back to September of 1989 through April of 1992.

Q. Would you briefly describe these graphs, what's on the horizontal and what's on the vertical?

A. Sure. Going up is the milligrams per liter of whatever parameter. Going across is the actual date that the sample was collected and analyzed.

Below that is labeled where the location is. In this case this was the hospital, Sycamore, Illinois, and

then the iron is a line with a circle, a darkened in dot in the chlorine.

And in my case I typically only test for free chlorine which is a diamond a line with a diamond at each date.

Q. In terms of the chlorine residuals shown on these graphs from the tests that you took, are any below point 2 milligrams per liter?

A. I don't believe. Let me check and make sure. I don't believe so though. No.

Q. Now, do you have an opinion to a reasonable scientific certainty concerning the impact of the Aquadene Treatment Program on the iron and chlorine content of the City of Sycamore's water supply?

A. Yes. And I think it's a very long-term effect, but I think we are finally starting to see some results.

I think we can greatly reduce the problems that have occurred in Sycamore. We can stabilize the chlorine demand and hence the chlorine residuals will be stable.

Q. What is the basis for that opinion?

A. The testing that I've been able to perform and monitor over the course of the two and a half years that we've been involved here.

Q. These graphs, do they show a general reduction of iron and increase of chlorine over time?

A. Yes. Or they show a stabilization which is the other thing.

It's not unusual during a phosphate treatment program for the levels of iron to go up and down, as iron is softened up or whatever particulates are softened up on the main and then they're flushed out. It's not unusual to

see those kinds of peaks and valleys but, overall, when you take a look at especially the last two flushing periods, I see very much a situation of stabilization occurring

Q. You mentioned a sloughing?

A. Yes.

Q. Would you explain that?

A. The phosphate, especially the orthophosphate portions and some of the polyphosphate portions, will become slightly impregnated, like there's a film around the tuberculation that is occurring within the distribution system or in plain scale sometimes it can be a very thick iron.

Then as you get the radical pressure and velocity changes that you do when you flush, you soften this up enough to where it can be removed, and through my observations in flushing, each and every time they flush,

with the exception of one since we started the program, we definitely see an increase in the amount of tuberculation that we've removed, so there has definitely been a sloughing

Now, typically, that will not come off in the normal flow. It takes a major change in velocity or in pressure.

Q. And when it sloughs, that's a removal of oxidized iron?

A. Or manganese or iron sulfide or whatever may be precipitated on that particular main.

Q. And that then basically cleans a portion of the system and removes that?

A. Right.

Q. Mr. Lookis, you are educated in and have worked in water quality testing for a number of years, are you familiar with the Hach Free And Total Chlorine Test Kit?

A. Yes.

Q. I believe it's Exhibit Number 2 up there.

Have you seen that type of a kit before?

A. Yes.

Q. Is that type of testing a qualitative test?

A. No. I don't classify it as such.

Q. Is it a quantitative test?

A. No, especially at very low levels.

Q. In your opinion, is the Mach test suitable for determining the presence of levels of chlorine at .2 parts per million?

A. No, sir.

Q. Would I explain that?

A. There are too many factors involved in a test such as this, in my opinion.

One is that the level of color change that you're dealing with here at points 2 parts per million is so slight as to almost be nonexistent and I think that you can be too biased in determining what the level is.

The margins of error in low level chlorine are tremendous in my opinion, if you don't have all the reagent put in there, if you don't have the exact sample size that is necessary it's a very small sample size and at low levels it's very difficult to see that differentiation in color.

Q. What is the margin of area for this Hach test kit?

A. I have not seen it in print, only in my discussion was the Hach company, they consider it to be at low levels plus or minus 20 to 25 percent.

Q. Is this Hach test formally approved by any scientific organization

for low chlorine readings?

A. I can't say whether it's approved by the Illinois EPA. I know they do use it.

But it is not approved by the United States Illinois Environmental Protection Agency, accepted or approved, which is the usual designation which Hoch will seek for their testing equipment. It's either an acceptance or approval by the U.S. EPA.

Q. What kind of test should be used in your opinion?

A. When you're dealing with a standard within a state of .2 parts per million or milligrams per liter of free chlorine at that level, that means you are in compliance at that level.

I think the only way to accurately determine that level is to use a spectrophotometer.

Q. What factors can affect the

accuracy of the Hach test that we have here as Petitioner's Exhibit Number 2?

HEARING OFFICER MEDINTZ For which of the tests that it's used for?

MR. SMITH: I'll withdraw and rephrase the question.

By Mr. Smith:

Q. What factors can affect the accuracy of the Hach test that we have here as Petitioner's Exhibit Number 2 for total chlorine?

A. For total chlorine?

Q. For a total chlorine reading.

A. Not the proper time sequence. You're not allowing enough time for the reagent to react.

In my opinion, and I say this because anywhere there are bacteria present will utilize some of the chlorine available. If you shake these with your finger, there's a chance that you could reduce a small portion of the chlorine in

there because bacteria are prevalent throughout your entire body, including on your hands or your skin. That's why they put these blue caps in here, to shake with the blue cap.

And, as I say, when you are dealing with low levels, every little bit counts.

Q. Could the condition of the eyes affect the reading?

A. Certainly.

Q. The condition of the packets that are used?

A. Yes.

Q. Could the sample size affect the reading?

A. Yes.

And that also becomes an eye factor, too. You're required to fill this to a line which is exactly, I believe, 5 milliliters. You go over that and you're going to dilute the amount of

chlorine that can be made available within that tube and, consequently, if you go below that, it may show slightly more than what you want to have

Q. Mr. Lookis, I show you what's been marked as Respondent's Exhibit A. Have you had an opportunity to inspect this?

A. Yes, briefly, yesterday.

Q. Could running water through this hose, Respondent's Exhibit A, effect the accuracy of that chlorine reading for total?

A. If I'm not mistaken, there is a build-up of iron inside that hose and although it may not be a large demand, there is definitely a chlorine demand with that type of build-up. We don't have any idea whether or not there may be any nonpathogenic bacteria living within that film as well, so, yes, something like that could definitely reduce or at

least use up some of the chlorine and form a demand.

Q. And that's because of the iron residue and because of the possible bacteria that may be present?

A. Yes. There may be iron and there may be iron sulfide, but anytime you have a precipitate like that, you have a potential for chlorine demand.

Q. So as the water passes through, the chlorine does what just what it's supposed to do and that is to attack the iron and attack the bacteria?

A. And especially free chlorine. Free chlorine is designed to react and I guess you would call it kill bacteria instantaneously. It's a very fast acting portion, the free chlorine is.

Other types of chlorination are much slower acting, but free chlorination is designed to do the job instantaneously.

What would be the affect on chlorine testing for a total amount of rinsing with tap water.

Eventually, what you have is that you are going to have -- Even though you may not be able to see it, on a molecular level you're going to have iron build-up inside the tube. Once again you may have some slight bacterial growth within the condensation in there.

There are reasons why this type of equipment is supposed to be maintained and that's one of them.

Q. What would be the effect on a total chlorine reading of water that had passed through an iron filter?

A. Eventually what you have is you're going to have, even though you may not be able to see it on a molecular level, you may have iron inside the tube, you may have some slight bacterial growth within the condensation in there. There

are reasons why this type of equipment is supposed to be maintained and that's one of them.

Q. What would be a effect on a total chlorine reading of water that had passed through an iron filter?

A. If the filter were fouled or if there were a tremendous amount of iron within that filter, once again you have not only the iron which can constitute a slight chlorine demand, but you also may have prevalent in there the -- They're called heterotrophic typically.

Sometimes they can be nonheterotrophic bacteria, or at least nonpathogenic types of bacteria which in any type of a filter system, which is a well-known fact, bacteria tends to breed within those types of filters unless they're maintained exactly according to the manufacture's recommendations and typically they're not, unfortunately.

Q. Do you know what the recommendations of the Illinois Environmental Protection Agency have been to the City to increase chlorine in the water supply?

A. Yes.

Q. Do you know that the Illinois Environmental Protection Agency has recommended -- had recommended closing Well Number 1 and discontinuing pumping of additional chlorine at Well Number 5?

A. Yes.

Q. Do you have an opinion to a reasonable scientific certainty concerning the effect of those recommendations on the chlorine level in the northeast section of the City of Sycamore?

A. In my opinion it would help to reduce the chlorine level there.

Q. What the basis for that opinion?

A. Now, I realize that there are other factors. There is no question, for example, Well Number 1 is higher in iron but that water is tremendously closer to the northeast section of Sycamore and if the phosphate program is working properly, which in my opinion and the opinion of others, it is, if you can sequester the iron, then you are at least making available much fresher water with a higher chlorine content directly into that portion of the city.

Q. And that in turn would increase the chlorine in that area?

A. Yes.

MR. SMITH: No further questions at this time.

HEARING OFFICER MEDINTZ Cross?

MR. GALLAGHER: Thank you.

CROSS EXAMINATION

By Mr. Gallagher:

Q. Mr. Lookis, Respondent's

Exhibit G is a computer print-out?

A. Right.

Q. Did you prepare that or did the City Water Department?

A. Mr. Albrecht prepared this information.

Q. And did that come from tests that you conducted?

A. The only tests that I conducted from these are the ones that are on the graphs.

Q. Okay. There's a column there for chlorine?

A. Uh-hum.

Q. Is that correct?

A. Yes.

Q. That's total chlorine, isn't it?

A. In this case it is.

In the case for myself, I ran free chlorine.

Q. There are no free chlorine results on that document which --

HEARING OFFICER MEDINTZ: You have to answer or no.

THE WITNESS: There are no.

By Mr. Gallagher:

Q. There are no free chlorine test results on G; is that correct?

A. Not to my knowledge, no.

Q. What information did you prepare this from?

A. I had my own documentation from the tests that I ran myself.

Q. Okay. Because if you would have prepared a graph for total chlorine, you would have had graphs below the .5 milligrams?

A. For total chlorine?

Q. Using those tests, in particular if you look at State and Sabin.

A. State and Sabin.

Yes, I see. It indicates here as a trace.

Q. The first test is a trace. What

about the second test?

A. Trace.

Q. Third test?

A. .31.

Q. Which is below the .5?

A. I don't think there's a standard for total chlorine.

Q. What is total chlorine?

A. Total chlorine is free plus combined.

Q. Free plus combined. So if you have less than .5 total or you've got .3 of total, you are going to have less than .5 combined; isn't that correct?

A. Yes, but you could still have .2 free.

Q. But you are still going to have below .5 combined?

A. That's correct. Yes.

Q. So you didn't select anything from Exchange Street to do these tests, on; is that correct?

A. Evidently not. If it's not marked there.

It's possible that some of those could have been at Exchange and I don't have them labeled, so I'm not sure.

Q. When was the program, the phosphate program started?

A. September 16th of 1989.

Q. And you're in private industry, you are not a governmental Agency?

A. That's right.

Q. So the City is paying your company for this service?

A. That's correct.

Q. What's the cost of this service?

A. Annually?

Q. That's fine?

A. About \$11,000.00 a year.

Q. And are they paying you to be here to testify, too?

A. Not that I'm aware of.

MR. GALLAGHER: They should.

THE WITNESS: Maybe we'll discuss that.

MR. SMITH: Sorry to have spoiled the questions of cross.

By Mr. Gallagher:

Q. When you came to Sycamore in September of '89 or when you first had that meeting, you said you discussed the water quality problem in the northeast section?

A. Yes. The initial meeting?

Q. Right.

A. Yes.

Q. The problem was that there was red water?

A. Yes.

Q. Black water?

A. Yes.

Q. Odor?

A. Yes.

Q. And your testing at that time, you said you conducted some tests, did you determine that there was red water in that area?

A. Let me -- No. If I can?

Q. Sure.

A. I collected samples from the wells.

We have to treat with this product at each well site, so that's what I have to base especially the start up treatment on, is what the water quality is at the individual wells.

Q. So you didn't do any testing in the distribution system?

A. We had four distribution samples that were brought in by Mr. Smith from the City of Sycamore that were analyzed in addition to the well samples.

Q. So did you ever, on your own at any time, attempt to verify whether or not there was a red water, black water

and odor problem?

A. No. I just took the words of Mr. Albrecht and the Mayor that it was a situation they wanted to clear up.

Q. And is it your position that the phosphate program clears up the red water, black water and odor problem?

A. Given time and used properly, yes.

Q. How much time are we talking about?

A. It varies. It can go anywhere from approximately twelve months on up to say thirty-six months.

Q. And this program has been in existence just short of two years; isn't that correct?

A. Two and a half years.

Q. Two and a half years?

A. A little more, actually.

Q. And has anybody ever told you recently that there's still a red water,

black water and odor problem?

A. In that part of the City?

Q. Yes.

A. No.

Q. The City told you that it was all taken care of up there?

A. No, they didn't say that.

They stated that it appears that the problems are getting better and my own observations from flushing have indicated that there has been an improvement.

Q. The test results that are in G were taken after the flushing; is that right?

A. That's correct.

Q. And that's after you moved most of the water through the system and brought the new water in?

A. That is correct.

Q. If the water is just standing there, the results probably won't be as

good, is that right? If they're sitting there for a long period of time.

A. It kind of hard for me to answer that. It's possible.

Q. Would chlorine dissipate if it just sat there?

A. Yes, it would. Some.

Q. This product, this aquafene.

A. That's kind of a generalized term for it.

Q. I think you said at the time initially it will create a chlorine demand?

A. No. If I said that, it was a mistake.

Q. Okay. Because then you said over the long-term it will reduce the chlorine demand.

When initially it settles and washes out some of the particles would that create a demand for the chlorine?

A. Oh, sure.

Q. So when that's taking place
And, by the way, when we say, we want
these particles, they go through the
system and out the faucets, right?

A. Like I stated in my earlier
testimony, it's difficult for the removal
of that tuberculation to occur without a
major change in pressure or velocity
that's why the particulates in the
precipitation may be becoming softer, but
it takes the change in pressure or
velocity when flushing the hydrant to
remove probably more than, you know,
about 95 percent of it.

There may be some that
will come out as the process is
occurring, but most of it usually has to
be removed by flushing.

Q. When these particles come out,
do they come out in the form of red and
black?

A. They can. The key here, one of the terms used to describe phosphate is dispersant and what they typically do is disperse these particles to a certain degree so that they're very difficult to see unless there is a lot of them.

If there is a small amount of them, if you were to filter that water, maybe a gallon of water through a filter, you might see some of those precipitates.

If there is a lot of it, certainly you could, they could add up and build up.

Q. You worked with a lot of water systems other than the City of Sycamore?

A. Yes, sir.

Q. Do they -- those water systems have testing equipment to test for chlorine?

A. Yes.

Q. Do most of them use the Hach

test that's in evidence?

A. I'd say probably about half.

Q. Have you told Mr. Albrecht he shouldn't use that type of a test kit?

A. I've told him only to use it as a field test and for anything that needs to be documented to use the spectrophotometer.

Q. You understand there's all kinds of documents in evidence with test results, you understand he used that test kit to come up with these results?

A. I'm not sure if he used them to come up with these results or not.

Q. If he did use that test to come up with these results, you don't think these results have any accuracy?

A. I think their accuracy is subject, but to my knowledge the spectrophotometer was used for an awful lot of readings.

Q. Does Mr. Albrecht have one?

A. Yes. The City of Syracuse owns one.

It was my understanding from yesterday's testimony that that's what was used for a lot of it.

Q. In talking about these Mach tests, I think you said the fact that you have to eyeball it -- That's my term.

A. Okay.

Q. If you have two people looking at it, your results are probably going to be more accurate, isn't that right?

A. No. I'd say less accurate.

Q. And you're talking about the bias, if the City wants to have the chlorine rate high, if a City employee is looking at it and it comes back 0, it probably is 0, isn't it?

A. Yes, I guess that's possible.

But that consequence holds true the other way, too. If somebody wants to see it or doesn't want to see

it, they may see what they want to

Q. Now, you have been sitting here through the testimony, you're aware of the problem that we're here on?

A. Yes.

Q. We have a dead end main on this property.

With a dead end main, is the chlorine levels going to be down?

A. Yes, I think so.

Q. Because the water is not flowing through enough, it's just kind of sitting there?

A. Correct.

Q. Would we get an iron build-up then, too?

A. It's possible, yes.

Q. You're here as an expert, do you have any recommendation as to what could be done to solve that problem?

A. My first response would be that it needs to be looped so that the flow

continues through that system

That is probably the easiest way to go. That is one.

The other would be to remove the six-inch main and to put in two service lines, actually, to use two service lines off the main water main and then split those into the units that are there.

Then each unit becomes a dead end but every home is basically a dead end, but at least the amount of water sitting there would be greatly reduced.

Q. Every home doesn't have a six-inch lead coming into it, is that correct?

A. No.

Q. What about flowing the hydrant, would that help?

A. Which hydrant?

Q. The hydrant at the end of the --

A. On the property itself?

Q. On the property itself?

A. Yes.

Q. Again, just getting the water moving through there?

A. Yes, I agree.

Q. And by the water just sitting there dead is what probably is causing this problem?

A. Certainly contributing to it.

MR. GALLAGHER: I think that's all I have.

Thank you, Mr. Lookis.

HEARING OFFICER MEDINTZ: Redirect?

MR. SMITH: No questions on redirect.

HEARING OFFICER MEDINTZ: I have a very brief one.

EXAMINATION

By Hearing Officer Medintz:

Q. You were here yesterday when Mr. Lindstrom testified, weren't you?

A. Yes, I was.

Q. Am I correct in understanding that in your response to Mr. Gallagher's question about flowing or flushing the hydrant in front of Mr. Prescott's development, that you agree with the testimony of Mr. Lindstrom regarding the efficacy of flushing as something to help the situation?

A. That particular hydrant you're talk specifically of?

Q. That's the only hydrant I'm talking about?

A. Yes, I do. I agree.

Q. Because of the dead end nature of the waterline into the development in which Mr. Prescott resides, do you have an opinion based on your expertise as an engineer -- not as an engineer, as a scientist, as to whether or not the program you have designed and the City is in the process of implementing will have an impact on the water quality going into

those residences?

A. To that residence?

Yes, I think it will have some impact. I think the impact will be reduced by the lack of flow, but I think it will have a positive impact in some ways.

HEARING OFFICER MEDINTZ: That's all that I have.

If the parties again want to ask any questions based on what I have asked, please proceed.

MR. SMITH: I have no further questions.

HEARING OFFICER MEDINTZ: Could you also spell aquadine?

THE WITNESS: A-q-u-a-d-e-n-e.

HEARING OFFICER MEDINTZ: Another question, this should be on the record.

On Exhibit G there is some writing on there that said "Kevin's copy," does that "Kevin" refer to you as

far as you know?

THE WITNESS: Yes. But yesterday was the first I seen of it, too. I don't know if it was suppose to go to me and it didn't or what, but today was the first day I seen this particular document.

HEARING OFFICER MEDINTZ: Okay.

MR. SMITH: Mr. Hearing Officer, at this time I would move into evidence Respondent's Exhibit L and also the plat, the site plan.

HEARING OFFICER MEDINTZ: That was K as I recall?

MR. SMITH: That was K.

MR. GALLAGHER: No objection to K.

As to L, again, what I have are an objection as to relevancy.

Basically, the graphs are at certain locations and not the locations that are in issue here, and, secondly, that the graphs show free chlorine and I think it's pretty clear in

the record that nobody's attacking the free chlorine levels because this is the first test results we've had of that, all the other tests have been of total and there are no results of the total chlorine levels depicted on these graphs and, as such, I would object as to relevancy.

- HEARING OFFICER MEDINTZ: For the same reason that I've allowed some of the other exhibits in, I will allow Exhibit L to be admitted over objection and the project drawing K will be admitted without objection.

(Said document, heretofore marked Resondent's Exhibits L and K for identification, were admitted into evidence, to wit, as follows:)

MR. SMITH: To take us all the way back to the beginning. I would also move into evidence Respondent's Exhibit A

MR. GALLAGHER: I would object, number one, on relevancy and, number two, I think there's been testimony about it. I don't think it's necessary to have the hose itself go into the record and, again, I'm talking more of a practical matter.

It's been testified to as a 6 to 8 foot -- not a rubber hose, and I think the record is clear to describe it and I think Mr. Smith got the testimony out that he wanted about it.

Mr. Hearing Officer, you and the Board have to worry the exhibits but I don't know how seeing a green hose is going to help the Board decide one way or the other in this particular case.

MR. SMITH: Mr. Hearing Officer, if Mr. Gallagher would stipulate that there

is a read rusty appearing residue on the inside of the male end of the hose. I would withdraw the objection -- withdraw the exhibit.

MR. GALLAGHER: I will not only stipulate to that. I will stipulate that every hose in Sycamore has that.

HEARING OFFICER MEDINTZ: Is that part of the stipulation?

MR. GALLAGHER: I withdraw my part. I'll stipulate to that.

HEARING OFFICER MEDINTZ: Is it fair that if the stipulation is that the hose, the interior portion of the hose has a redish residue, are the parties agreeing that it appears to be an iron residue?

MR. SMITH: No. Simply that it is redish and a rusty color.

THE COURT: I'll carry the hose back to Chicago and I'll let the Pollution Control Board Members look at the hose and decide what they think of it.

MR. SMITH: Okay.

MR. GALLAGHER: I have no objection
to the admission of the hose

HEARING OFFICER MEDINTZ: It will be
received.

(Said document, heretofore
marked Respondent's
Exhibit A for
identification, was
admitted into evidence,
to wit, as follows.)

HEARING OFFICER MEDINTZ: And again, if any of the parties want the hose back we've discussed the procedure for it.

Do you have any further witnesses?

MR. SMITH: I do have further witnesses, Mr. Hearing Officer, but unfortunately I've run out of the ones I had come for this morning.

We do have additional witnesses coming at one o'clock.

HEARING OFFICER MEDINTZ: We can go off the record.

(Whereupon a discussion was held off the record.)

HEARING OFFICER MEDINTZ: We are in recess until 12:30 with the understanding that the remaining witnesses have previously been instructed to be here at one o'clock and without prejudice to their subsequently testifying, counsel

for the Respondent has graciously volunteered to attempt to contact the witnesses and have them arrived arrive at the earlier time.

So we will be back here at 12:30. If we have live witnesses at 12:30, we will proceed, otherwise, we will proceed as soon as they do arrive

Thank you.

(Whereupon, a lunch recess was taken until

June 3, 1992

at 12:30 o'clock p.m.)

STATE OF ILLINOIS)
) SS
COUNTY OF C O O K)

BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS

HERMAN W. PRESCOTT,

Complainant,

vs.

PCB 90-187

THE CITY OF SYCAMORE,
ILLINOIS,

Respondent

June 3, 1992
12:30 o'clock p.m.

City Hall Council Chambers
535 De Kalb Avenue
Sycamore, Illinois

The proceedings
were resumed pursuant to recess.

BEFORE:

MR. MARVIN MEDINTZ
Hearing Officer.

APPEARANCES:

Mr. T. Jordan Gallagher
Gallagher, Klein & Brady
Suite 300, Hillcrest Centre
444 East Hillcrest
DeKalb, IL 60115

appeared on behalf of Complainant.

Mr. Peter Thomas Smith
Smith & Strauss
207 West State Street
Sycamore, IL 60178

and

Mr. Timothy W. Johnson
315 West Elm Street
P. O. Box 327
Sycamore, IL 60178

appeared on behalf of Respondent.

Also Present:

Mr. Herman Prescott;

Mr. Syd Albrecht,
Water Department Superintendent
City of Sycamore;

Mr. Kevin G. Lookis,
Vice President,
Hydronics, Inc.;

Mr. Leonard A. Lindstrom, P.E.,
Regional Manager,
Field Operations Section,
Division of Public Water Supplies,
Illinois Environmental Protection Agency.

HEARING OFFICER MEDINTZ Back on the record.

This is the afternoon session in the case of Herman Prescott, Complainant, versus the City of Sycamore, Respondent, PCB 90-187.

I want to thank the parties and the witnesses for moving up their schedule to accommodate the time that we have available due to the early lunch recess.

Mr. Smith, do you have any additional witnesses to call at this time.

MR. SMITH: Yes, we do. We would call Thomas Mangan.

HEARING OFFICER MEDINTZ Would you swear the witness, please?

(The witness was sworn.)

THOMAS MANGAN,
called as a witness, having been first
duly sworn, was examined and testified as

follows:

DIRECT EXAMINATION

By Mr. Johnson:

Q. Would you please state your name?

A. Thomas Mangan.

Q. And your current address?

A. 438 Washington Place, Sycamore, Illinois.

Q. Can you just give us a brief description of your educational background?

A. Yes. I have a degree in earth sciences of environmental studies from the University of Wisconsin, Green Bay from 1980, a Bachelor of Science Degree.

Q. And can you tell us your current business or occupation?

A. Yes. I am president of Prairie Environmental Specialists in West Chicago, Illinois and we specialize in environmental consulting, in particular

hydrogeological assessments, environmental assessments, and basically contracting services for private industry predominantly.

Q. And can you tell us what your duties are?

A. I perform as a technical supervisor for our project managers to make sure that the technical work we do and the overall scope of work is in compliance with the Illinois EPA, U.S. EPA, and other state agencies where applicable for soil and ground water problems.

Q. And were you previously employed at another place of business?

A. Yes. Prior to commencing my company, I was working for Hunter Environmental in the west Chicago area as well.

Q. Can you tell us what your duties and responsibilities were there?

A. I was an office manager and manager of their hydrogeological services.

Q. Okay. I'm going to show you what has previously been marked as Plaintiff's Exhibit No. 2. Do you recognize that?

A. Yes.

Q. Can you tell us what that is?

A. It's a sampling kit.

Q. And can you tell us what that type of kit is used for?

A. I recognize the name. The Hach name is well-known in test kits manufacturing for various water and soil testing.

Q. You can open up the kit.

Do you recognize specifically what type of kit that would be for?

A. Yes. Water testing for chlorine.

Q. Would that be free chlorine or for which test would that be for?

A. It would be for both depending on the directions and the time you took to read the results.

Q. When you say "both," you're referring to what?

A. Both free and total chlorine.

Q. Now, would you call that type of test a qualitative test?

A. Yes, I would.

Q. Can you explain that?

A. The qualitative test is a test done usually in a field situation to give a benchmark reading subjective to field conditions to give a handle on what you're dealing with.

Q. Okay.

A. A quantitative test would be a laboratory test under controlled conditions where it's done according to U.S. or Illinois EPA protocols.

Q. Just so I understand. By qualitative you mean it's basically a field test?

A. Yes, sir.

Q. Do you have any idea what the margin of error would be on a test similar to that sitting in front of you?

A. I would imagine it would be 10 to 20 percent error.

Q. Okay. Now, would that margin of error have anything to do with the qualifications of the person using it?

A. It may. Most likely it's dependent on the time of day, the site and climatic conditions, the person handling the sample equipment, what kind of equipment they're using in terms of protecting against cross-contamination or any kind of introduced contaminations of the sampling equipment.

Q. So I guess, in other words, there are a number of factors that can

affect the accuracy of the test?

A. Within reason, yes.

The variables. The more variables introduced in the field, the more the chance that the test may be inaccurate.

Q. Previously in this case we've heard testimony with regards to the use of this kit.

Now, as I understand it, this kit can be used separately for free chlorine and total chlorine?

A. That's correct.

Q. Now, just specifically with regard to total chlorine, what effect would it have if you did not wait between three to six minutes on the accuracy of the test?

A. If you were --

Q. Let me rephrase it before you answer.

If you waited less than

three minutes to get the results?

A. The test result might be skewed for total chlorine.

The three minute is the guideline that the manufacturer provides. If you don't follow that, then you're really not utilizing the full capacity of the test kit for that test.

Q. Okay. Would it also have an effect if someone put their finger over the top of the test tube as opposed to replacing it with the rubber stoppers that are provided?

A. It could very well.

The human skin in any kind of condition absorbs many different kinds of chemical compounds so in our samples we always have sample gloves on to take away that potential for cross-contamination.

Q. Do the test tubes indicate where to fill the -- how high to fill the water

in there?

A. I'd have to look.

Q. Inside the test tube?

A. Yes, they do have a mark.

Q. And is it important to make sure that the water that is filled is right at that line?

A. Yes, it is.

Q. I'm going to show you what has previously been marked as Respondent's Exhibit A.

If I were to inform you that the test that was conducted, the water went through that hose which has been testified to as a 6 to 8-foot vinyl hose, would that have an effect as to the reading?

A. It may very well.

The vinyl hose is a rubber product which is probably of some kind of polyvinyl chloride composition and you're doing a test for chlorine. The hose

potentially has chlorine in its structure of the composite rubber, so again another variable in your sampling.

Q. Okay. If those test tubes are rinsed with tap water both before and after the test, immediately after and immediately before the test, but never rinsed with distilled water, would that also affect the sample?

A. Yes, it could very well.

Q. Now, if I were to tell you that a laymen had conducted the test for total chlorine making the mistakes that we've just discussed and obtained results that were 0, would you be satisfied that there was no free chlorine present?

A. No, I would not.

Q. Could you make any determination as to the presence of free chlorine?

A. Knowing that the test kit has limitations and is a qualitative test, I would probably look at having samples

taken to an approved laboratory and taken for quantitative analysis.

Q. I'm going to show you a document that has been marked as Respondent's Exhibit K, have you ever seen a copy of that document before?

A. Yes, I have.

Q. I'm also going to show you a copy that I have labeled Respondent's -- I believe we are on M?

MR. SMITH: Yes.

(Whereupon Respondent's Exhibit M was marked for identification.)

MR. JOHNSON: Respondent's Exhibit M after showing it to opposing counsel.

MR. GALLAGHER: Okay.

By Mr. Johnson:

Q. Do you recognize that document?

A. Yes, I do.

Q. And can you explain to me what

that document is?

A. This document is a water flow calculation based on the drawing before me showing the amount of footage of the 6-inch pipeline bringing water into that subdivision from the main water line on Exchange Street. It's junction to the 2-inch waterline which brings water into the residence at 462 Exchange Street and then based on typical plumbing, a 1-inch pipe that would then go from the 2-inch junction into the residence into the faucet.

And we calculated taking roughly a half-inch diameter of each of the pipes, and that's generous in terms of conservative, the diameter of the pipe, and then the amount of water, gallons, in the footage involved and calculated out that there's roughly about 254 gallons in the water line to the 462 residents and for a representative sample

of water from out at the main line to move through the water piping and out the faucet would take roughly 85 minutes conservatively, based on a maximum or optimum flow of 3 gallons a minute.

Q. Now, the calculations that are contained on your letter, were those figures taken from what I've shown you as Exhibit K, Respondent's Exhibit K?

A. The footage of the piping, yes.

Q. And let me ask you the question this way so you can be clear on the record.

Could you tell us with a reasonable degree of scientific certainty how long an individual would have to run a faucet to obtain a representative water sample from the main line on Exchange Street to the residence known as 462 Exchange Street?

A. A minimum of 85 minutes.

Q. If the water is run for any

period less than 85 minutes, what would that mean?

A. Most likely that you're obtaining a water sample from at some point in the pipe that may or may not have been sitting for an unknown determined time.

We know this line is basically a T-line, it's an end, it's not an open loop back to the main water supply, so the amount of water, to get a representative sample that would have validity for accuracy of what's really in the water supply would take a minimum of 85 minutes.

MR. JOHNSON: Thank you.

That's all the questions I have.

HEARING OFFICER MEDINTZ: Cross?

MR. GALLAGHER: If I could.

THE WITNESS: Sure.

CROSS EXAMINATION

By Mr. Gallagher:

Q. Tell me, at the end of that service that comes in there, there's a fire hydrant; is that right?

A. Yes, sir.

Q. If you opened that hydrant and flowed at 40 gallons a minute, how long would it take?

A. At 40 gallons a minute?

Q. Just roughly.

A. Probably about six minutes.

Q. Okay. So that if that hydrant was opened on a daily basis for ten minutes, that would get new water into that service, is that right?

A. Correct. You would bring water in from the main line.

Q. Is there generally for a 6-inch type per linear feet a certain amount of gallons?

A. Yes.

Q. What is it?

A. Per linear foot, I would think it's about .4 gallons, something like that.

Q. Not one and a half?

A. Well, again, we use the 5-1/2-inch diameter.

Q. Okay. That half inch difference --

A. Again, not knowing how much incrustation and the thickness of the actual pipe.

If it's truly a 6-inch, there would be more water.

Q. Than what you calculated for that?

A. Than what we've calculated.

HEARING OFFICER MEDINTZ: I'm sorry I missed the answer to the threshold question which was, if I understood the question, how much water there was per linear foot in a 6-inch pipe.

THE WITNESS: I believe .4 gallons.

HEARING OFFICER MEDINTZ All right.

By Mr. Gallagher.

Q. When water is sitting in the pipe -- And for the sake of this question let's talk about the pipe that's involved here.

When it's sitting there, it can lose some of the chlorine?

A. It's possible.

Q. And the iron content can increase if the pipe isn't lined?

A. It could very well.

Q. And that could cause odor? It could cause odor?

A. It could.

Q. And red water or black water?

A. Yes, you could get discoloration.

Q. With regard to the Hach kit, Complainant's Exhibit Number 2, are you familiar with the instructions --

A. Yes.

Q. -- for a Hach kit?

A. I've read them.

Q. Do they, in the instructions, do they will require the use of sample gloves?

A. No, they do not.

Q. Do they require that the test tubes be rinsed out with distilled water?

A. No. But from my practical experience in the professional work we do, that is common practice.

Q. Do you use Hach test kits from time to time?

A. I have not in several years.

Q. Back at one point in one of your positions did you use --

A. Yes.

Q. And did you follow the instructions that they gave you?

A. Yes.

Q. I think you said Respondent's

Exhibit A, which is the hose, it could affect the test because the hose itself has chlorine in it?

A. Yes. The rubber plastic.

Q. Would the effect then be that it would increase the chlorine content?

A. It may not. It may actually lower it.

Q. And can you explain that to me?

A. I'm not a chemist, but it may have an affinity because of the presence of its -- Chlorine is a large atom, and, again, I'm not sure of the exact composition of it, but it could alter the chlorine content either negatively or positively.

Q. And, again, this is my term, it could leech the chlorine out of the hose into the water?

A. It could or it could absorb the chlorine out of the water. I'm not positive what way it would go.

Q. Just so I'm correct, is it your testimony that if you are doing the field tests what we are calling the qualitative test, and you say got a reading of 0 a number of times, is it your recommendation that a quantitative test be done?

A. Yes, sir.

Q. And is there any problem with obtaining a sample to take to a laboratory? What I'm getting it is doesn't the chlorine dissipate very quickly?

A. It can. That's why you need to have it immediately -- You'd have to have an approved sample container, have the sample vial recommended by the tests taken, filled, sealed, put in a cooler, so it will maintain its temperature of 4 degrees Celsius or 36 degrees, and ship it back to a laboratory, hopefully, close by so you don't have a long travel.

Q. And the reason is because the chlorine could dissipate and affect the test results?

A. It could.

Q. And that's one of the reasons why generally these tests are done at the site?

A. Right.

Q. Tests taken at hydrants in the City of Sycamore after flushing, that would be a representative sample of what's in the system; isn't that right?

A. It may depend on the volume of water that was flushed and what the length of pipe you were looking to dewater to get a representative sample.

Q. Are you aware as you sit here how the City of Sycamore conducts their chlorine tests?

A. No, I'm not.

MR. GALLAGHER: That's all I have.
Thanks.

HEARING OFFICER MEDINIZ Redirect?

MR. JOHNSON: Just a couple quick questions.

REDIRECT EXAMINATION

By Mr. Johnson

Q. I got a little confused with regard to the testimony with regards to how much volume of water is in the 6-inch pipe. Could you run through that again for me?

A. Sure.

 In the 6-inch pipe, if I may, could I just --

Q. I guess what I'm looking for is I think you indicated that you had assumed that there would be some build-up inside there?

A. Right.

Q. So your calculations are based on what?

A. A 5.5 inch inside diameter pipe.

Q. Okay. Now, Mr. Gallagher asked you a question with regards to opening up the hydrant, and letting that run for say ten minutes and then I would assume we would be capping it back off.

Would the same problem just reoccur after that as far as the chlorine being absorbed or what would happen after that? Would that solve any problems in the system?

A. I think temporarily you would have your problems solved, but as soon as that hydrant is closed and the normal use of that line for the residents continues you would have a lot of water sitting again in that 6-inch and 2-inch line, so I don't know if it would change long-term any of the results.

MR. JOHNSON: That's all the questions I have.

HEARING OFFICER MEDINTZ: Any cross?

MR. GALLAGHER: No.

HEARING OFFICER MEDINTZ: I have a question or two if I may, sir.

EXAMINATION

By Hearing Officer Medintz:

Q. When you described that test from the tap inside of the residence, the water should be on there for 85 minutes prior to getting a representative sample, is that in essence saying that it takes 85 minutes for that line to be flushed?

A. Yes.

Q. Okay.

A. At that flow rate which is allowed by the piping network into the home.

Q. So at the end of the 85 minutes, what is coming out of the faucet would presumably be of the same quality of that which is in the distribution system?

A. Correct. If you put a dye out in the main line and turned on that faucet, it would probably take a minimum

of 85 minutes for that dye to reach its destination

HEARING OFFICER MEDINTZ: That's all I have.

If the parties have any --

MR. GALLAGHER: I just have one, if I could.

MR. SMITH: Go ahead

RECROSS EXAMINATION

By Mr. Gallagher

Q. The 85 minutes that the water is running, that water probably is not as good quality as the water that's out in the main stream; is that right?

A. It may or may not be

Q. If it had been sitting there I think you testified that the chlorine level would be down?

A. Yes.

Q. The iron level would be up?

A. Correct.

Q. And so we'd have to run it for

85 minutes before we would get any good water?

A. To get -- I don't know necessarily about good water, but to get a representative of the water out at the main line. If you call that "good," then that's subjective.

MR. GALLAGHER: I don't have anything further.

MR. JOHNSON: No other questions.

HEARING OFFICER MEDINTZ: Thank you, sir.

MR. GALLAGHER: Thank you much.

MR. JOHNSON: Mr. Hearing officer, for the next witness we call Mr. Ron Leifheit.

[The witness was sworn.]

RONALD LEIFHEIT, JR.,

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

By Mr. Johnson

Q. Can you please state your name and spell your last name?

A. Ronald L-e-e-f-h-e-e-l-l, Jr

Q. Can you tell us your current address?

A. My current address is 536 Killian in Ashton, Illinois

Q. Now, at any time within say the last five years did you live in the northeast section of Sycamore?

A. Yes, I did

Q. And can you tell us what that address was?

A. 328 East Sycamore Street.

Q. Now, you're aware that we are here with regards to the water quality in the northeast section of Sycamore; is that correct?

A. Yes.

Q. Did you ever have a problem with the water at your address in Sycamore?

A. I signed a petition with regards to the water quality in Sycamore.

I raise tropical fish and usually leave water set for twenty-four hours to let the chemicals evaporate which is standard procedure or you can chemically treat it, of course, and I was noticing that there was a lot of sedimentation on the bottom of the buckets that I was leaving water sit in. It was mostly rust colored.

Q. And can you tell us when, just approximately when that would have been?

A. It's been been a couple years ago now.

Q. All right. Thank you.

A. It was right around the time that all the controversy, you know, was going on with regards to the water in Sycamore.

Q. When did you move from that address?

A. Last year, last August.

Q. Now, can you -- You did in fact sign a petition, is that correct?

A. Yes, I did.

Q. And after you signed that petition did you ever have an opportunity to notice whether or not the water quality improved?

A. Yes, it did.

There was -- After a period of well let's say a couple months, the water was a lot -- you know, there was a lot less sedimentation.

Before that, we were noticing there was a lot more chlorine taste to the water.

Q. So after you signed the petition you noticed more chlorine taste, is that what you said?

A. Yes. And the sedimentation was a lot less.

Q. Was the problem reresolved to

your satisfaction?

A. Yes.

Q. Now, you were subsequently --
Were you ever contacted by the Illinois
Environmental Protection Agency with
regards to a water problem?

A. We got a questionnaire from
them.

Q. Questionnaire, was it in the
mail?

A. Yes.

Q. And was that before or after you
signed the petition, do you recall?

A. That would have been after.

Q. And were you ever contacted by
anyone other than the Environmental
Protection Agency with regards to that
survey?

A. I was given -- I was called
by -- I really don't remember his name.

Q. Do you see the person sitting
here?

A. Well, I didn't know him personally, but he's the one that was involved in the petition drive.

Q. Do you see him here?

A. Like I said, I don't know the individual himself.

Q. You don't remember?

A. I knew the name from the newspapers and stuff like that and he called me and informed me that there would be a questionnaire coming around from the Environmental Protection Agency.

Q. Did he tell you anything else with regard to that survey?

A. He just basically said, you know, is all you really need to do is just tell them that you're unhappy with the quality of Sycamore's water and stuff like that.

And I told him that I had been unhappy with it but that ours had improved, and he said that I was really

lucky because he hadn't as yet. And
thanked me for my time.

That was basically it.

MR. JOHNSON: Thank you.

That's all the questions I
have.

HEARING OFFICER MEDINTZ: Any cross?

MR. GALLAGHER: Thank you.

CROSS EXAMINATION

By Mr. Gallagher:

Q. Did you fill out the
questionnaire and send it back?

A. Yes, I did.

Q. And did you say that you were
satisfied?

A. Yes.

Q. I think you indicated that after
a couple of months after the petition was
presented that there was less sediment?

A. Yes, considerably less.

Q. But there was still sediment in
it?

A. A little. There's always a little bit.

Q. Did you ever have a problem with odor?

A. Nothing that I really noticed.

Q. Do you have any problems prior to presenting the petition with red water or black water?

A. Not black water. Red water occasionally when they would flush the hydrants and things like that.

Q. Did you ever have any problems with laundry, with clothing being ruined because of the water?

A. No, not really. I don't recall.

Q. That was one of the issues that was raised in the petition that you signed; is that correct?

A. The petition was in regards to water quality. I think it was the lack of chlorine in the water, as I recall.

Q. Mr. Lelfbit, let me show you what I have marked as Complainant's Exhibit -- I think I'm on Number 13?

HEARING OFFICER MEDINTZ: 14 is next.

MR. GALLAGHER: Complainant's Exhibit 14.

[Whereupon Complainant's Exhibit No. 14 was marked for identification.]

MR. GALLAGHER: The Complainant's Exhibit Number 14 purports to be a petition directed to the Mayor and City Council of Sycamore.

By Mr. Gallagher:

Q. I'm calling your attention to the third signature page, does your signature appear on there?

A. Yes, it does.

Q. And is that the petition that your signature was -- you signed to

present to the Mayor and the City Council?

A. Okay. I recall signing the petition. I do not recall the exact contents of the petition itself.

One of the next-door neighbors down the street brought the petition around and asked if I would sign it to help clear up the water quality. I do not recall the exact wording on the petition itself.

Q. It wasn't Mr. Prescott that came around with the petition?

A. No. It was my neighbor of a couple doors down.

MR. GALLAGHER: That's all I have.

HEARING OFFICER MEDINTZ: Redirect.

MR. JOHNSON: No other questions.

HEARING OFFICER MEDINTZ: Thank you, sir. You may step down.

(The witness was excused.)

MR. SMITH: We have one more witness.

Mr. Hearing Officer, Walter Purcell. I call him at this time.

HEARING OFFICER MEDINTZ Would you swear the witness?

{The witness was sworn }

WALTER PURCELL,
called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

By Mr. Smith

Q. Would you please state your name?

A. Walter Purcell.

Q. Where do you live, Mr. Purcell?

A. I live in Machesney Park,
Illinois.

Q. Are you married?

A. Yes.

Q. How long?

A. Over thirty-three years.

Q. Congratulations. It's a long

time.

What's your educational background?

A. I have a Bachelor of Science Degree in Civil Engineering.

Q. Where did you obtain that from?

A. At the time the name of the school was Rose Polytechnic Institute, Terre Haute, Indiana.

Q. At what's the present name for it?

A. Rose Homan Institute of Technology.

Q. When did you graduate from that school?

A. 1955.

Q. Are you recently retired from the Illinois Environmental Protection Agency?

A. Yes. I retired. Last day of work was December 31, '91.

Q. When were you working the the

Environmental Protection Agency. What was your position?

A. I was Environmental Protection IV was my title.

My work was I would inspect public water supplies with respect to Rules and Regulations, assist in their problems, and I also received a majority of questions and complaints, and, if necessary, I would visit the site to investigate the Complaint.

Q. Now, did you have occasion to visit Sycamore, Illinois, and to test its water supply in March, April, May, June and July of 1990?

A. Yes, I did.

Q. As a result of those visits did you take tests?

A. Yes, I did.

Q. What kind of tests did you take?

A. I tested for chlorine, bacteria.

Q. What test method did you use?

A. For the chlorine I used a kit similar to -- well, similar to this one right here. Mach Model CN 66

Q. Is that basically a field testing kit for chlorine?

A. Yes, it is.

MR. SMITH: Mr. Hearing Officer, someplace among all the documents that we have there is a page 3 of a July 20, 1990 letter.

MR. GALLAGHER: I think it's Complainant's number 7 A.

HEARING OFFICER MEDINTZ: That's correct.

By Mr. Smith:

Q. Would you explain the procedure that you used in utilizing the Mach Chlorine Test?

A. Yes.

We would let the water -- We did these from outside faucets. We would let the water run for several

minutes, that was a variable

Sometimes we let it run through a hose and sometimes not

We would let it run. At no time was it run less than five minutes. It can run maybe up to, I don't recall exact time, but possibly thirty to thirty-five minutes in an attempt to get the chlorine.

If it was ran through a hose, we checked the chlorine periodically during this time, and the thought on that is that if we tested adequate chlorine, there's no need to continue any further.

If we did not get adequate chlorine, then we would disconnect the hose and try it directly out of the faucet.

Q. Now, what procedure did you use in actually physically going through the test?

A. Okay. These kits consist of the two -- May I open it?

Q. Yes.

A. Okay. The kits consist of two glass vials of this type with a mark indicating the water level.

Inside is a colored disk wheel.

The disk -- Just a moment.

When this kit is used, the color of the disk is in front of one tube, and the other tube which holds the sample is not affected by the color of the disk.

We would fill up this sample to test water result, to the line here, and depending on whether we were measuring free chlorine or total chlorine, we'd use the appropriate reagent, put it in here, put the stopper on here, shake it until the powder was dissolved, and place it back in here.

The other tube was filled up with water, not necessarily at the line, but at least that much because this one is not -- that level in this one is not significant as in the test sample.

You must have the proper volume of water in the test sample because the reagent quantity is say dispensed at a rate equal to that volume of water to get the proper test results.

If it was measuring free chlorine, he was to read it within one minute which we did.

If it was measuring total chlorine, it was necessary to wait three minutes before reading the results.

HEARING OFFICER MEDINTZ: So for free chlorine less than one minute, for total chlorine, three minutes or more?

THE WITNESS: Or more. Yes. But there is nothing specified in the instructions on how much more time.

By Mr. Smith:

Q. In the test kit that you have or that you used while you were with the EPA, did you rinse the vials after you were done testing?

A. Yes, we did. We rinsed them with the water that was being tested.

Q. The water that was being tested.

Did you clean them with detergent or distilled water?

A. We did not.

(Whereupon Respondent's Exhibit N was marked for identification.)

By Mr. Smith:

Q. Now, Mr. Purcell, I show you what's been marked as Respondent's Exhibit N and these are -- these purport to be copies of reports that would have been prepared -- and your signature at

the bottom indicates that they were prepared by you. I'd like you to please review those for a minute?

A. Just quietly look at these?

Q. Yes.

[The witness is complying.]

MR. GALLAGHER: Mind if I look over his shoulder?

MR. SMITH: Sure. Go right ahead.

MR. GALLAGHER: I just want to see which document.

By Mr. Smith:

Q. Mr. Purcell, after having reviewed the documents in Respondent's Exhibit N, are these, to the best of your knowledge, true and accurate copies of the reports that you prepared of the testing and monitoring that you did?

A. They are.

Q. I show you what has been previously marked and received in evidence as Petitioner's Exhibit A, and I

ask you to take a minute to look at the reports that you have and to look at the results that are reported here and then to tell me and tell the Hearing Officer if what is reported there accurately reflects what you have within your reports?

MR. GALLAGHER: Just for the record, I think that's 7 A. the document.

MR. SMITH: 7. Right.

Better check my glasses.

I'm sorry.

THE WITNESS: You want me to comment as I go?

By Mr. Smith:

Q. If you would.

A. Okay. The ones that I -- These would be the tests that I took and there's a date on this sheet there of May the 8th, which there's no record here showing that I took the test on May the 8th.

On May 23rd 1993 I took a test

Should I refer to this as an exhibit?

Q. 7 A?

A. On Exhibit 7 A on May 23rd 1993 shows that a test was taken at 465 Exchange and no chlorine was found I did not take that test.

And May 23rd 1993 test results from 465 Exchange shows three-tenths parts per million of chlorine on Exhibit 7 A and my results on that was also three-tenths total, but I also took a test of free of two-tenths parts per million of chlorine.

Same date, May 23rd, location 462 Exchange, the one-tenth milligrams per liter or parts per million which is the same, chlorine on Exhibit 7 A. On that day I took a total of .15, and a free of .1.

May the 23, '90, 429 Exchange Street, I do not show a test result that I took at that address. Exhibit 7 A shows .6 chlorine.

May 31 of '90, 485 Exchange, Exhibit 7 A shows one-tenth and my result shows one-tenth total and one-tenth free.

May 31st, 465 Exchange shows a residual of four-tenths -- Actually, the four-tenths I should say appears as if on Exhibit 7 A these measurements are total chlorine.

In my test, I took both total chlorine and free chlorine.

Okay. At 465 Exchange, the Exhibit 7 A shows four-tenths total chlorine which agrees with results that I took. I also found at that time three-tenths of free chlorine

May 31st, 462 Exchange, Exhibit 7 A shows two-tenths of total

chlorine which pretty well agrees with mine. I estimate it .25. I also took a free chlorine and found it to be .2

429 Exchange, same date, May 31st, Exhibit 7 A shows .5 chlorine which agrees with my results on that day. I also took a free test which is .3.

Q. June 6, '90, at 45 Exchange, Exhibit 7 A shows a trace of total chlorine, that agrees with my test on that date.

I also took a free chlorine residual and found zero

Same date, 481 Exchange, Exhibit A shows .1 chlorine which is total and this agrees with results that I had that day, my free results I had that day which just showed a trace.

Same date, June 6th at 462 Exchange, Exhibit A shows 0.0 total chlorine, that agrees with my results.

I also found the residual free chlorine to be 0.0.

On the same date, June 6th, 433 Exchange, Exhibit 7 A shows 0.47 parts of total chlorine which is very close to what I showed at .45.

I also took the residual free chlorine test and found it to be 0.3.

Same date, June 6th, 429 Exchange, Exhibit 7 A shows 0.3 parts of chlorine which would be total. This agrees with what I had tested on that day.

I also took a residual -- A test for residual free chlorine and found it to be .25 free.

June 14, 485 Exchange, Exhibit A shows 0.3 parts of chlorine. In my results I show no test taken at that date at that location.

June 14th at 471 Exchange.

Exhibit 7 A shows 0.0 parts of total chlorine, that agrees with what I found on that day. I took a test for free chlorine and found it to be 0.05 which could be say a trace of free chlorine.

Same date, June 14,

462 Exchange, Exhibit 7 A, shows 0.1 parts of total chlorine, that agrees with what I found on that day.

I also took a test for residual free chlorine and found it to be 0.1.

Same date, June 14, at

429 Exchange, Exhibit 7 A shows 0.2 parts of total chlorine, my results show 0.3 parts of chlorine with a free result of 0.2.

June 26th of '90 at

485 Exchange, Exhibit 7 A shows 0.4 parts of total chlorine, my results on that day showed 0.3.

I also took a test for

residual free chlorine and found it to be 0.25.

That same date, June 26th, at 465 Exchange, Exhibit 7 A shows 0.2 parts of total chlorine, my results indicate that I did not take a test that day.

Same date, June 26th at 462 Exchange, Exhibit 7 A shows 0.0 parts of total chlorine which agrees with the results that I show on that day. They also took a test for residual free chlorine and found it to be 0.0.

At 429 Exchange, Exhibit 7 A shows 0.6 parts of total chlorine, this does agree with results I obtained that day. They also tested for residual free chlorine and found it to be 0.3 parts.

Q. Now, Mr. Purcell, the numbers that you're using here for the addresses, those were all taken from the residences

and from an outside spigot or faucet?

A. That is true.

Q. Now, there's also a

A. Excuse me. There may have been one or two times we did go inside a residence. My memory is not good enough to say that that is certain.

Q. Good.

Now, the testing done at 462 Exchange is Mr. Prescott's residence is that correct?

A. Yes, I believe it is.

Q. Now, was that a residence in which you took the test initially I guess through a hose?

A. Yes. That was one that we did not find adequate chlorine, then we removed the hose.

Q. And that's where you ran it at least five minutes and sometimes perhaps as much as thirty?

A. I don't recall running his as

such as thirty minutes

Q. Okay.

A. But it could have been possibly fifteen to twenty.

Q. Now, you have one other test result here from July 20, 1990.

Pardon me.

A. This one?

Q. I had the wrong document.

From July 10th of 1990?

A. Yes.

Q. Was Well Number 1 being run on that date?

A. Yes, it was.

Q. And what did you find the results to be in your testing of the various addresses?

A. At 435 Exchange, the residual total was 0.4, the free was 0.4.

471 Exchange, the total was 0.5, the free was 0.4.

At 429 Exchange, the total

was 0.7, the free was 0.6

At 462 Exchange, the total
as 0.0, the free was 0.0

MR. SMITH: Thank you very much.

No further questions.

HEARING OFFICER MEDINTZ: Cross?

CROSS EXAMINATION

By Mr. Gallagher:

Q. Mr. Purcell, referring to your
June 6th test results, when you were here
would you involved with the flushing of
the hydrant or something?

A. Let me read my notes here
please.

Sure.

I do not record that on
the here, and to my memory, the best as I
recollect, the hydrants were not opened
that day. Normally I would have listed
it on there if they had been, but perhaps
I didn't. I probably misspoke.

Q. When you were at 484 East

Exchange and you conducted a test there --

I'm trying to read your writing?

A. Where is that?

Q. Or is that 481?

A. That is 48 -- 481

Q. All right. When you were at 481 conducting the test, did you notice anything about the water?

A. Detected a slight odor that was believed to be hydrogen sulfide.

Q. And was that in laymen's terms a rotten egg smell?

A. Yes.

Q. And you noted that on your report?

A. Yes.

Q. And that was water coming out of an tap that you were conducting a test on?

A. Yes, it was out of the tap.

MR. GALLAGHER: That's all I have.

HEARING OFFICER MEDINTZ: Any

redirect?

MR. SMITH: No redirect.

HEARING OFFICER MEDINTZ: Thank you,
Mr. Purcell.

MR. GALLAGHER: Thank you,
Mr. Purcell.

MR. JOHNSON: Mr. Hearing Officer, at
this time we'd introduce Respondent's
Exhibit M into evidence and Respondent's
Exhibits N as well.

MR. GALLAGHER: I have no objection
to N and as to M, I think we've had
testimony to it.

I haven't had a chance to
work the math and I would object on the
grounds that I'm not sure that the math
on there is the same in light of
Mr. Brady's testimony who said that it's
1.5 gallons per linear feet and now we're
at .4. With that just noted for the
record, I guess it would be better
handled in argument, so I guess I

wouldn't have any objection to that going in.

HEARING OFFICER MEDINTZ: Okay. They will both be received.

(Said document, heretofore marked Respondent's Exhibits M and N for identification, were admitted into evidence, to wit, as follows:)

HEARING OFFICER MEDINTZ: I do I have a request for a paper clip or a staple for Exhibit N.

MR. SMITH: The Respondent has no further witnesses, Mr. Hearing Officer.

HEARING OFFICER MEDINTZ: Does the complainant have any rebuttal witnesses to call.

MR. GALLAGHER: I have no rebuttal witnesses, although I do think I have some exhibits that I have not offered.

HEARING OFFICER MEDINTZ: Yes. At this point it may be helpful to review.

Plaintiff has offered and has had admitted Exhibits 1, 2, 3 4, 5, 7, 8, and 9, has offered 6 which offer was denied, and has not offered Exhibits 10, 11, 12, 13 and 14.

MR. GALLAGHER: Could you refresh my recollection as to 10 and 11?

HEARING OFFICER MEDINTZ: 10 are certain test results from DeKalb.

11 consists of chlorine tests at a particular address. A particular address which I am not aware

MR. GALLAGHER: At this time I would move for the introduction into evidence of 10, 11, and 13 and depending on the ruling on 13, I would then offer 12.

MR. SMITH: May I see those documents?

MR. GALLAGHER: Sure.

MR. SMITH: No objection.

MR. JOHNSON: No objection.

HEARING OFFICER MEDINTZ: Okay. They will be received.

[Said document, heretofore marked Complainant's Exhibit No. 10, 11 and 14 for identification, were admitted into evidence, to wit, as follows:]

MR. GALLAGHER: And I will not offer 12 and 14.

MR. SMITH: I have one other suggestion in here with regard to exhibits. I don't believe that the July 20, 1990 letter from the EPA to the City of Sycamore was ever introduced in full. We've had a great deal of testimony about it. I would suggest that we put it in so that the Pollution Control Board can see the entire letters, that is one of the things indicated in the Complaint that they're looking for compliance with.

MR. GALLAGHER: I have absolutely no problem with.

I admitted it first
originally --

HEARING OFFICER MEDINTZ: What I will do then, is I'll note that --

MR. SMITH: I think it's 7.

MR. GALLAGHER: Mr. Hearing Officer,

originally I had that letter marked as 7 and only introduced the third page as 7 A.

THE COURT: Why don't you reintroduce the entire Exhibit 7.

MR. GALLAGHER: I would at this time offer Complainant's Exhibit 7 which is the complete letter and, to keep the record clear, have it substituted for 7 A. And I'll ask leave to withdraw 7 A.

HEARING OFFICER MZDINTZ: I note on what has been tendered as Exhibit 7 that the third page thereof and some of the test measurements there appear to be a yellow highlighter on some of them.

MR. SMITH: I don't have an objection to that.

MR. GALLAGHER: There's no significance to it. It was during Mr. Purcell's testimony.

HEARING OFFICER MEDINTZ: It will be

received. The Board will be instructed to disregard whatever highlighting there may be on the third document.

[Said document, heretofore marked Complainant's Exhibit No. 7 for identification, was admitted into evidence, to wit, as follows:]

HEARING OFFICER MEDINTZ: That means then the Complainant has made as part of the record Exhibits 1, 2, 3, 4, 5, 7, 8, 9, 10, 11 and 14.

And the Respondent has Exhibit A and then Exhibits C through and including Exhibit N, is that consistent with each of your records?

MR. SMITH: It's consistent with our records.

MR. GALLAGHER: That's correct.

HEARING OFFICER MEDINTZ: Okay. And I understand from discussion had off the record that in lieu of oral closing argument, the parties wish to file a written brief with the Board?

MR. GALLAGHER: That is correct.

HEARING OFFICER MEDINTZ: The court reporter has advised that the normal turnaround time for the transcript is two weeks and the parties have indicated that they would like to operate on a

twenty-one day, fourteen day, seven day schedule for the submittal of the arguments to the Board

To guard against any slippage in getting the records from the court reporter to the parties, I will assume a slightly longer period than the fourteen days that has been represented and ask if the following schedule is acceptable to the parties.

The Complainant's initial brief will be due not later than July 15,, the Respondent's brief will then be due on July 29, and the Complainant's reply brief will be due on August 5 of 1992.

Is that schedule acceptable to the parties?

MR. GADLAGHER: It's acceptable to the Complainant.

MR. SMITH: It's acceptable to the Respondent.

HEARING OFFICER MEDINTZ: If there should be reason for delay, I would appreciate and the parties would be well served by filing a motion for an extension of time because the Board has gotten very touchy in recent months about closing arguments being submitted late.

There is no problem assuming that the reason is other than one party or the other wanting to play golf for sixty consecutive days also allowing for an extension.

I'm in the business also, so I'm pretty reasonable about that, but the Board gets very, very touchy if the parties choose to either unilaterally or bilaterally ignore a previously agreed upon schedule.

MR. SMITH: Mr. Hearing Officer, should that motion go to you or to the Board.

HEARING OFFICER MEDINTZ: The

original should go to the Board, a copy should go to me, but the original of all documents should go to the Board but I should also be served, however, with a copy. That goes for the final arguments as well.

Are there any members of the public present -- Actually, I know the three individuals sitting in the audience have previously testified so they're not members of the public at large.

I note for the record that there are no members of the public at large who are here to make a statement as would be allowed under the Illinois Environmental Protection Act under the Board's Procedural Rules.

I will make a statement for the record as required by the Board's Procedural Rules regarding the credibility of witnesses, and I find that

the credibility of the witnesses is not at issue in this cause and that the Board can read the transcript with the comfort that in my opinion all parties testified candidly and truthfully.

I thank the parties for their diligent representation of their clients.

I thank the court reporter for her patience through some fairly long stretches and the hearing is closing.

MR. GALLAGHER: Thank you very much.

MR. JOHNSON: Thank you.

MR. SMITH: Mr. Hearing Officer, we'd also like to thank you for your time in putting up with us. I recognize it takes a great deal out of your normal practice and I know that it doesn't pay well.

HEARING OFFICER MEDINTZ: If I didn't enjoy them, I wouldn't take them on.

(Whereupon a discussion
was held off the

record.

HEARING OFFICER MEDINTZ: On the record, the parties have requested that they be allowed to withdraw the exhibits for the purposes of making photocopies for their purposes.

The parties have represented that they will jointly take responsibility for assuring that the exhibits are returned in the same condition in which they are withdrawn to my office I would say not later than one week from today, and if that is acceptable to the parties, they may withdraw whichever exhibits they choose to.

MR. SMITH: It is for the Respondent.

MR. GALLAGHER: That's fine. I would indicate that I don't think we need Complainant's Exhibit 2 which is the kit, Respondent's Exhibit A, nor the blueprints which is Respondent's

Exhibit K.

MR. SMITH: Correct.

MR. GALLAGHER: We will send those with you today.

HEARING OFFICER MEDINTZ: All others then are being withdrawn for the purpose of photocopying.

MR. SMITH: That's correct.

HEARING OFFICER MEDINTZ: Okay.

Thank you.

(HEARING CONCLUDED.)

STATE OF ILLINOIS |
 | SS
COUNTY OF C O O K |

Sally A. Guardado hereby
certifies that she is the Certified
Shorthand Reporter who reported in
shorthand the proceedings had in the
above-entitled matter, and that the
foregoing is a true and correct
transcript of said proceedings.


Certified Shorthand Reporter

