Village of Kirkland

815 522-9839

p.1

Client: Naugle Village of Kirkland

ISO# 2014130 Location: 2 for E3H

Environmental Isotope Lab 4/3/2014 1 of 1

# Sample		Lab#	Lab# E3H		Result ± 1σ		Repeat ± 1σ		
<u> </u>	Well 2	Kirkland	11425	323695	X	2.3	0.4		T
2	Well 3	Kirkland	01613	323696	X	<0.8	0.4		

Conductivity

Tritium is reported in Tritium Units. 1TU = 3.221 Picocurries/L per IAEA, 2000 Report. 1TU = 0.11919 Becquerels/L per IAEA, 2000 Report.

ATTAN BENNETT

To Contact uwEILAB: 519 888 4732

Rick Heemskerk uwEILAB Manager rkhmskrk@uwaterloo.ca 519 888 4567 ext 35838 Electronic Filing - Received, Clerk's Office: 186/15/2016 a Queck Stop

Report



Illinois Environmental Protection Agency P.O. Box 19276, Springfield, IL 62794-9276

INCIDENT OVERSIGHT TRANSFER

LEAKING UNDERGROUND STORAGE TANK

FROM: OCS-ERU TO: LPC-LUST

INCIDENT #:	891717		
CITY:	Kirkland		
COUNTY:	DoKolh	·-·-	
BY (ERU):	CuB	_ DATE:	2-16.90
RECEIVED BY (LUST)	Amp	DATE:	2-16-90

- ERU to retain last carbon when sent and follow up if no reply in 5 working days.
- 2. LUST to return top copy to ERU, when signed as received.
- 3. LUST to retain remaining carbon in file.

RELEASABLE

AUG 2 0 2007

REVIEWER JW

Electronic_Filing - Received, Clerk's Office: 06/15/2016 KIRKLAND QUEK IESDA INCIDENT ID IEPA NOTIFICATIONS Div [] Off Site [] Transportation [] Sanitary Sewier [] Inside Building [] Impervious Surface **OUTSIDE NOTIFICATIONS** I] HWF [] CSA Open Burning Permit [] Oil Production 1 Complaint Generated [] Agricultural [] IDPH Contractor For HWF 1 Verified Incomplete HMAB [] Not Necessary FOS [] D.O. [] IDOT PERMITS (#s) [] IDNS [] USCG [] IDOL IDES SIC IMD SIC [] IDOA Chem sub-ISCA LETTERS NOS to RP ___/__/_ Response Release Report: Due __/_/_ Rec'd _ Received **EVIDENCE SAMPLES** IEPA to ESDA Due ___/__ Sample Type Taken By Collected Review by Mngr Env. Proms ___ (pte or post) (Name) (Date) IEPA to ESDA Sent ___/____ ESDA to RP Due ___/___ Sent ___/ Recovery/Loss Recovered Spillage __% ENFORCEMENT Unrecovered Loss To Enf Referral Notice Sent _ /_ / [] Soil/GW [] Photos [] Sanitary Sewer Enf Referral Date .__/_ / [] Surface Water [] Videotape # __ [] Storm Sewer EDG Action ___'/__/_ [] Air [] Drop Case [] Environmentally sensitive area [] Proceed with enf CLOSE Closing Date__/__/__ [] No action [] Clean closure [] Unrecoverable [] Referal to .

L 532-0235 PC 191 8789

- •	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4.94	
6	Environmental Electronic Filing - Received		
	Protection Agency		[8 7 1- 1 1 1 1
. ~··	Caller JOHN BLAKE		IESDA INCIDENT ID
2	Call back phone; (8/5) 522 - 352/		PA DA PA
2 3.	represents: KIRKLAND BUICK STOP		ERU received: <u>69</u> : <u>7</u> / 7 / 89
	, ·	- 1	Duty Officer: FAX /2.21
1.	Type of Incident: [] Fire DLeak or Spill	<u> </u>	
	[] Explosion [] Water Involvement		1 town towns
	[] Gas or Vapor cloud [] Other	14.	On Scene Contact: LLOYD JOHNSON
5.	Incident Location		One scene phone: (8/5) 522-35/0
	street 4/1 W. MAIN ST.	15.	No. injured: [] Haz-mat related
	city KIRKLAND WIN [] Near		Where taken:
	county DE KALB	16.	Public health risks and/or precautions taken,
	milepost[] RR [] River [] Hwy		including # evacuated:
	Sec Twp Range		
6.	Area Involved: [] Highway [] Rail M Fixed Facility		
	[] Waterway [] Air [] Other		
7.		17	What state assistance needed?
<i>,</i>	Material(s) Involved:	17.	What state assistance needed.
	GH SOLING		
	[] Gas Liq. [] Semisolid [] Solid		
	[] Pesticide [] Radioactive		
	CAS #:		
	Placard (UN/NA)	18.	Containment/cleanup action & plans:
	Is this a 302(a) Extremely Hazardous Substance?		
	[]Yes []No []Unknown		unknown the time
	Is this a RCRA Hazardous Waste?		
	[]Yes []No []Unknown		
	If Yes, is this a RCRA regulated facility		
	[] Yes [] No		
8.	Container: [] Truck [] RR car [] Drum	19	Weather: [] sunny [] overcast [] night
v.	[] Above grnd tank [] Pipeline		[] ptly. cldy. [] rain [] snow
	• • • • • • • • • • • • • • • • • • • •		Temp F Wind dir speed mph
	Munder grad tank [] Other	20.	
^	container size: 5 TANKS		· • · •
9.	Amount released: UNK		Contact: LLOYD, JOHNSON
	Rate of release:/ min.		phone: (815) 522-35/0
10.	Cause of release: LEAKAGE		Mailing address:
			411 W. MAIN ST.
11.	Estimated spill extent:		Kirkiano, IL
	[] square feet [] square yards		60146
12.	[] Occurred://		
	[] Occurred: : : : : : : : : : : : : : : : : : :		
13.	Local response units contacted		On scene responders:
	[] Fire		[] Fire
	[] Sheriff		[] Sheriff

[] Police [] Local ESDA [] Police _

[] Other ___ (please PRINT and use 24 HOUR TIME)

EMERGENCY NOTIFICATION - SHORT FORM EMERGENCY ACTION CENTER TO REGIONAL FIELD OFFICE										
	IESI	OA INC	IDENT	ID [8	9	1	7	1	7
cou	NTY P	E	K	1	L	8				
CITY	LANS	<u> </u>								
MATERIAL	GA5	.0 r	m 6	· · · · · · · · · · · · · · · · · · ·	·				`	
QUANTITY	NKNO	wN				-				
POTENTIALLY RESPONSIBLE PARTY	Kieri	AND	Q.	NC.	K	5+	.00			
ERU RESPONDE	D IN PERS	SON [
INCIDENT TYP	E									
FIRE LEAK OR SPILL EXPLOSION WATER INVOLVEMENT GAS OR VAPOR OTHER										
□ ABANDONED □ EVACUATION □ LUST										
☐ FOS ACTION REQUESTED										
Region Receiv	ed by	Juli	(e)			Date 2	9171	89 Tim	10 4	.10
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	nitted by Z	indy								

SEP 07 '89 12:27 IL ESDA 2177782-7860 SPKINGFIELD

г. т

Electronic Filing - Received Clerk's Office: 06/15/2016 JAINED KRIOKI

Incident Number 8 9 1 7 1 7

Date 9 07 /89
Time: 0928
Recv'd by: JLN

Notify: ILLINOIS EMERGENCY SERVICES & DISASTER AGENCY 1-800-782-7860 or 217/782-7860

1) Caller:JOHN_BLAKE	2) Call back number: (815) 522-3521
3) Caller represents: KIRKLAND QUICK STOP	
4) Type of incident: Fire Explosion X Leak or spill Gas or vapor cloud Water involvement	
5) Incident location: Street 411 W. MAIN ST.	City KIRKLAND X In Near
County DEKALB Milepost	: R.R. River Highway
Section Township Range	
6) Area involved: Highway Waterway Rail X Fix	ed facility Air Other
7) Material(s) involved: GASOLINE	
Form: Gas X Liquid Semi-Solid Solid	Pesticide Radioactive
UN/NA # CA	NS#
Is this a 302(A) Extremely Hazardous Substance? Yes N	o Unknown CERCLA? Yes No Unknown
Is this a RCRA Hazardous Waste? Yes No Unknown	If Yes, is this a RCRA regulated facility? Yes No
8) Container: Truck RR Car Above ground tank X Unc	lerground tank Drum Pipeline
Other:	Container Size: 5 TANKS INVOLVED
9) Amount released: <u>UNK</u> Rate of release:	/minute
10) Cause of release: LEAKAGE	
11) Extent of spill:	Sq. Ft. Sq. Yd.
12) Incident: Occurred Date: / / Time:	
	-scene: Fire
unit(s) contacted Sheriff	Sheriff
Police	Police
Local ESDA	Local ESDA
Other STATE FIRE MARSHALL	Other
14) On-scene contact: LLOYD JOHNSON	Phone # (815) 522-3510

Electronic Filing - Received, Clerk's Office : 06/15/2016 15) Number injured: NO Hazmat related? Yes No Where taken: 16) Public health risks and/or precautions taken; including # evacuated: 17) Assistance needed from State Agencies: ____NO 18) Containment/cleanup actions and plans: _____ FIRST_DETERMINE_BY_TESTING_TANKS. ALSO_VAC_OUT GROUND WATER. 19) Weather: Sunny Rain Snow Overcast Partly Cloudy Night Temperature: Fo Wind direction: Wind speed: 20) Responsible party: KIRKLAND QUICK STOP Contact person: JOHNSON, LLOYD __ Phone# (<u>815</u>)__522-3510 Mailing address: 411 W. MAIN ST. KIRKLAND, IL. 60146 21) Narrative/Comments: FAJED

Print Detail Page Export to Excel Last Search Page

Facility Details

Owner Details

Facility Number:	1014986	Owner Name	Blake Leasing Company, LLC - Real Estate Series	
Facility Name:	Kirkland Marathon	· · · · · · · · · · · · · · · · · · ·	'	
Address:	411 West Main Street Kirkland, IL 60146	Owner Address:	P.O. Box 98 Stillman Valley, IL 61084	
County:	De Kalb	Owner Status:	Current Owner	
Status:		Purchase Date:	6/29/2001	
Facility Type:	Self-Service/Unattended Self-Service	Type of Financial Responsibility:	Self-Insurance	
Conservation is also interest and experience of the second of the seco	Unattended Self Service	Financial Responsibility Reporting Due Date:	4/29/2017	
Owner Type:	Private	Reporting Due Date.		
Green Tag Decal:	Q000564			
Green Tag Issue Date:	3/19/2015			
Green Tag Expiration Date:	12/31/2017			
Motor Fuel Dispensing Permit Inspection Date:	3/19/2015			
Motor Fuel Dispensing Permit Expiration Date:	12/31/2017			

Owner Summary

Click for Facility/	Tank Ownership history		
Owner Number	Owner Name	Owner Status	Purchase Date
U0030228	Blake Leasing Company, LLC - Real Estate Series	Current Owner	6/29/2001
U0008032	Johnson Lloyd & Janice	Former Owner	11/2/1993

Permits (Unexpired)

Click for permit history
No Active Permits Found

Deficiencies (Current)

No Deficiencies Found

IEMA Numbers Associated with the Facility

IEMA Number 891717

LUST Fund Eligibility and Deductibility Determinations

,,,		OSFM Received Date	OSFM Response Date	Deductible
The second second	2		12/3/2014	\$15,000

Tank Information

Tank Number	Capacity	Product	Status	Red Tag Issued	Fee Due
1	2000	Gasoline	Removed		\$0.00
<u>2</u>	1000	Gasoline	Removed		\$0.00
<u>3</u>	1000	Diesel Fuel	Removed		\$0.00
<u>4</u>	5000	Gasoline	Removed	***************************************	\$0.00
<u>5</u>	5000	Gasoline	Removed	the contract of the manager of agreement of the contract of th	\$0.00
<u>6</u>	500	Gasoline	Removed		\$0.00
<u>7</u>	500	Gasoline	Removed	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$0.00
	i i i i i i i i i i i i i i i i i i i	(The last of the la	AV AND	COLUMN TO SERVICE STATE OF THE PARTY OF THE

Tank Number	Capacity	Product	Status	Red Tag Issued	Fee Due
<u>8</u>	500	Gasoline	Removed		\$0.00
<u>9</u>	500	Gasoline	Removed		\$0.00
<u>10</u>	300	Gasoline	Removed	A CO. Aller Marie	\$0.00
<u>11</u>	10000	Gasoline	Currently in use		\$0.00
<u>12</u>	4000	Gasoline	Currently in use		\$0.00
<u>13</u>	6000	Diesel Fuel	Currently in use		\$0.00
<u>14</u>	3000	Gasoline	Currently in use		\$0.00

Facility: 1014986 Tank: 1

Click for Facility/Tank Ownership history

Capacity: 2000 Product: Gasoline Status: Removed OSFM First Notify Date: 4/17/1986 Current Age: 14 Install Date: 11/1/1978 Last Used Date: 10/5/1993 Product Date: 11/1/1978 Petroleum Use: **CERCLA Substance:** CAS Code: Removed Date: 10/6/1993 Abandoned Material: Abandoned Date: Red Tag Issue Date: Fee Due: \$0.00

Equipment Information

Facility: 1014986 Tank: 2

Click for Facility/Tank Ownership history

емданны мынимет могения и переворода этогу у переворода полого моге полого по стате и полого по стате у го-	grand the control of
Capacity:	1000
Product:	Gasoline
Status:	Removed
OSFM First Notify Date:	4/17/1986
Current Age:	14
Install Date:	11/1/1978
Last Used Date:	10/5/1993
Product Date:	11/1/1978
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	10/6/1993
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Facility: 1014986 Tank: 3

Click for Facility/Tank Ownership history

Capacity: 1000 Product: Diesel Fuel Status: Removed OSFM First Notify Date: 4/17/1986 Current Age: 14 Install Date: 11/1/1978 Last Used Date: 10/5/1993 **Product Date: 11/1/1978** Petroleum Use: **CERCLA Substance:** CAS Code: Removed Date: 10/6/1993 Abandoned Material: Abandoned Date: Red Tag Issue Date: Fee Due: \$0.00

Equipment Information

Facility: 1014986 Tank: 4

Click for Facility/Tank Ownership history

Capacity:	5000
Product:	Gasoline
Status:	Removed
OSFM First Notify Date:	4/17/1986
Current Age:	14
Install Date:	11/1/1978
Last Used Date:	10/5/1993
Product Date:	11/1/1978
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	10/6/1993
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Facility: 1014986 Tank: 5

Click for Facility/Tank Ownership history

Capacity:	5000
Product:	Gasoline
Status:	Removed
OSFM First Notify Date:	4/17/1986
Current Age:	14
Install Date:	11/1/1978
Last Used Date:	10/5/1993
Product Date:	11/1/1978
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	10/6/1993
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Facility: 1014986 Tank: 6

Click for Facility/Tank Ownership history

Capacity:	500
Product:	Gasoline
Status:	Removed
OSFM First Notify Date:	10/2/1989
Current Age:	
Install Date:	
Last Used Date:	11/1/1978
Product Date:	
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	11/1/1989
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Facility: 1014986 Tank: 7

Click for Facility/Tank Ownership history

Capacity: 500 Product: Gasoline Status: Removed OSFM First Notify Date: 10/2/1989 Current Age: Install Date: Last Used Date: 11/1/1978 Product Date: Petroleum Use: **CERCLA Substance:** CAS Code: Removed Date: 11/1/1989 Abandoned Material: Abandoned Date: Red Tag Issue Date: Fee Due: \$0.00

Equipment Information

Facility: 1014986 Tank: 8

Click for Facility/Tank Ownership history

Capacity: 500 Product: Gasoline Status: Removed OSFM First Notify Date: 10/2/1989 **Current Age:** Install Date: Last Used Date: 11/1/1978 Product Date: Petroleum Use: **CERCLA Substance:** CAS Code: Removed Date: 11/1/1989 Abandoned Material: Abandoned Date: Red Tag Issue Date: Fee Due: \$0.00

Equipment Information

Facility: 1014986 Tank: 9

Click for Facility/Tank Ownership history

promissioners make excession throws it is not appropriate announce of the contract of the cont	
Capacity:	500
Product:	Gasoline
Status:	Removed
OSFM First Notify Date:	10/2/1989
Current Age:	
Install Date:	
Last Used Date:	11/1/1978
Product Date:	
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	11/1/1989
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Facility: 1014986 Tank: 10

Click for Facility/Tank Ownership history

manual designed in the commence of the commenc	en area normale anno ane no constant
Capacity:	300
Product:	Gasoline
Status:	Removed
OSFM First Notify Date:	10/2/1989
Current Age:	14
Install Date:	11/1/1978
Last Used Date:	10/5/1993
Product Date:	11/1/1978
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	10/6/1993
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Facility: 1014986 Tank: 11

Click for Facility/Tank Ownership history

success = succ	generalise en
Capacity:	10000
Product:	Gasoline
Status:	Currently in use
OSFM First Notify Date:	12/9/1993
Current Age:	22
Install Date:	11/2/1993
Last Used Date:	
Product Date:	11/2/1993
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Equipment Type	Equipment	Last Passing Date	Test Expire Date
Corrosion Prot - Piping	Flexible Non-Corrosive	N/A	N/A
Corrosion Prot - Tank	Fiberglass Non-Corrosive	N/A	N/A
Leak Detect - Piping	Electronic Pressurized Line Leak Detection Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Piping	Piping Sump Sensors Interstitial Monitoring Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Tank	Automatic Tank Gauging Veeder Root TLS 350 with CSLD	N/A	N/A
Overfill Prev Device	Overfill Drop Tube Valve OPW 61SO	N/A	N/A
Overfill Prev Device	Overfill Alarm Veeder Root TLS 350	N/A	N/A
Piping	Flexible Double Wall OPW Pisces	N/A	N/A
Spill Contain Device	Manhole Pre-manufactured OPW 101	N/A	N/A
Tank	Fiberglass Single Wall Tank	N/A	N/A

Facility: 1014986 Tank: 12

Click for Facility/Tank Ownership history

processors and a second or analysis processors and a second of the secon	grafinal works during the death of the mean control common description and processing groups as well
Capacity:	4000
Product:	Gasoline
Status:	Currently in use
OSFM First Notify Date:	12/9/1993
Current Age:	22
Install Date:	11/2/1993
Last Used Date:	
Product Date:	11/2/1993
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Equipment Type	Equipment	Last Passing Date	Test Expire Date
Corrosion Prot - Piping	Flexible Non-Corrosive	N/A	N/A
Corrosion Prot - Tank	Fiberglass Non-Corrosive	N/A	N/A
Leak Detect - Piping	Electronic Pressurized Line Leak Detection Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Piping	Piping Sump Sensors Interstitial Monitoring Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Tank	Automatic Tank Gauging Veeder Root TLS 350 with CSLD	N/A	N/A
Overfill Prev Device	Overfill Drop Tube Valve OPW 61SO	N/A	N/A
Overfill Prev Device	Overfill Alarm Veeder Root TLS 350	N/A	N/A
Piping	Flexible Double Wall OPW Pisces	N/A	N/A
Spill Contain Device	Manhole Pre-manufactured OPW 101	N/A	N/A
Tank	Fiberglass Single Wall Tank	N/A	N/A

Facility: 1014986 Tank: 13

Click for Facility/Tank Ownership history

More than the control of the control	grappy and an area of the control of
Capacity:	6000
Product:	Diesel Fuel
Status:	Currently in use
OSFM First Notify Date:	12/9/1993
Current Age:	22
Install Date:	11/2/1993
Last Used Date:	
Product Date:	11/2/1993
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Equipment Type	Equipment	Last Passing Date	Test Expire Date
Corrosion Prot - Piping	Flexible Non-Corrosive	N/A	N/A
Corrosion Prot - Tank	Fiberglass Non-Corrosive	N/A	N/A
Leak Detect - Piping	Electronic Pressurized Line Leak Detection Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Piping	Piping Sump Sensors Interstitial Monitoring Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Tank	Automatic Tank Gauging Veeder Root TLS 350 with CSLD	N/A	N/A
Overfill Prev Device	Overfill Drop Tube Valve OPW 61SO	N/A	N/A
Overfill Prev Device	Overfill Alarm Veeder Root TLS 350	N/A	N/A
Piping	Flexible Double Wall OPW Pisces	N/A	N/A
Spill Contain Device	Manhole Pre-manufactured OPW 101	N/A	N/A
Tank	Fiberglass Single Wall Tank	N/A	N/A

Facility: 1014986 Tank: 14

Click for Facility/Tank Ownership history

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Capacity:	3000
Product:	Gasoline
Status:	Currently in use
OSFM First Notify Date:	12/9/1993
Current Age:	22
Install Date:	11/2/1993
Last Used Date:	
Product Date:	11/2/1993
Petroleum Use:	
CERCLA Substance:	
CAS Code:	
Removed Date:	
Abandoned Material:	
Abandoned Date:	
Red Tag Issue Date:	
Fee Due:	\$0.00

Equipment Information

Equipment Type	Equipment	Last Passing Date	Test Expire Date
Corrosion Prot - Piping	Flexible Non-Corrosive	N/A	N/A
Corrosion Prot - Tank	Fiberglass Non-Corrosive	N/A	N/A
Leak Detect - Piping	Electronic Pressurized Line Leak Detection Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Piping	Piping Sump Sensors Interstitial Monitoring Veeder Root TLS 350	11/4/2014	11/4/2015
Leak Detect - Tank	Automatic Tank Gauging Veeder Root TLS 350 with CSLD	N/A	N/A
Overfill Prev Device	Overfill Drop Tube Valve OPW 61SO	N/A	N/A
Overfill Prev Device	Overfill Alarm Veeder Root TLS 350	N/A	N/A
Piping	Flexible Double Wall OPW Pisces	N/A	N/A
Spill Contain Device	Manhole Pre-manufactured OPW 101	N/A	N/A
Tank	Fiberglass Single Wall Tank	N/A	N/A

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director 217/785-4787

2200 Churchill Road, Springfield, IL 62794-9276

December 14, 1993

Mr. Fred Manni Village President 511 West Main Street P.O. Box 566 Kirkland, IL 60146

Re: Confirmation of Technical Adequacy of the Lateral Area of Influence
Determination(s) for the Village of Kirkland Public Water Supply Well(s)
PWS Facility No. 0370300
Agency Well Nos. 11424 & 11425
Log Date - October 7, 1993
Log Number(s) 93-0161 & 93-0162

Dear Mr. Manni:

The Agency has reviewed the technical adequacy of the lateral area of influence determination for the Village of Kirkland well(s) referenced above. The application and supporting documentation was submitted by Larry Thomas of Baxten and Woodman, Inc., on your behalf.

The Agency confirms the technical adequacy of the lateral area of influence determination for the wells referenced above. This constitutes a final determination by the Agency.

The Agency's evaluation of the application determined the following:

- * the minimum and maximum setback zones located on the Kirkland aerial photographic map should be labeled to tie in with the draft ordinance definitions (see attachment); and,
- * references to Illinois Revised Statutes in the draft ordinance should be the year 1991 and not 1989 (e.g. Ill. Rev. Stat. 1991, ch. 24 par. 11-125-4)

In addition to prohibiting potential primary sources of contamination, the implementation of a maximum setback zone ordinance will expand the regulatory control of certain new and existing activities. These regulations are contained in "Groundwater Protection Regulations for Existing and New Activities Within Setback Zones and Regulated Recharge Area (35 Ill. Adm. Code 601, 615, 616 and 677)" which became effective on January 10, 1992. A copy of these regulations has been provided for your information.

After notice and opportunity for comment pursuant to Section 14.3(c) of the Illinois Environmental Protection Act ("Act") the Village of Kirkland may adopt an ordinance setting forth the location of each affected well and specifying the boundaries of the maximum setback zone(s). After adoption of the final ordinance the city is required to provide the Agency with a copy pursuant to Section 14.3c of the Act. The Agency suggests adding setback zones to any existing zoning maps.

Page 2

Thank you for your continued cooperation and interest in this phase of the Illinois Groundwater Protection Program. If we can be of any further assistance please advise Rick Cobb of my staff or me at 217/785-4787.

Very truly yours,

Roger D. Selburg, Division Manager

Division of Public Water Supplies

RDS:CEK:drk:491P/58-59

cc: Larry Thomas

bcc: Jim Park

Roger Kanerva Roger Selburg Don Dillenburg Steve Ewart Bill Buscher Carl Kamp

File

MAXIMUM SETBACK ZONE REVIEW AND COMMENT SHEET

		770	
			174
PWS	FACILITY:	KIRKLAND	
FAC:	ILITY #:	0370300	
DAT	Ε:	11/10/93	
REV.	IEWER:	C.KAMP	
1.	Data:	Trea of Influence Estimation IODO UNIFORM FLOW EQUIS - CALCULATIONS PERFORM INC - AN ENGINEERING FIRM SANDSTONE FROM ISWED MATION AREA, CO	LATION METHOD USED FOR LMED BY BAXTER &
2.	AGENCY 1	etback Zone Draft Ordinanc PRAFT OR DINANCE (OK) - BE CHANGED 76 M91	e: SIMILAR TO THE
3.	GETBACK	nd Minimum Setback Zone De R ZONE NOT DESCRIBED IN R ZONE NOT LABELED.	AREA & MAXIMUM
4.	Applicati	on: SIGNED BY PRESIC	
5.	Other:		



VILLAGE OF KIRKLAND

511 W. Main Street P.O. Box 566 Kirkland, Illinois 60146 815-522-6179

October 8, 1993

Mr. Richard Cobb, Manager DPWS-Groundwater Section Illinois Environmental Protection Agency PO Box 19276 Springfield, IL 62794-9276 RECEIVED

OCT 7-1993

DIV. PUBLIC WATER SUPPLIES ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

Subject:

Setback Zones for Public Water Supply Wells

Dear Mr. Cobb:

Enclosed for your review is one "Application for Agency Review of Lateral Area of Influence Determination" for each of Kirkland's public water supply wells. Attached to each application is a copy of the proposed Maximum Setback Ordinance to be adopted by the Village, a map showing the location of the well and its setback zone, and the radius of influence calculations used to determine that the well is qualified for the establishment of the maximum setback zone.

If you have an questions or need any additional information, please call Larry Thomas at Baxter & Woodman, Inc. at 815/459-1260.

Very truly yours,

VILLAGE OF KIRKLAND

Fred Manni Village President

FM:ww Enc.

930436/1158R

cc:

Trustee File Larry Thomas

	Electronic Filing - Received, Clerk's Office: 06/15/2016 SUSPENSE DATE 01/04/94
LOG	NUMBER M $93-016$ APPROVAL NUMBER AND DATE M
DATE	E RECEIVED BY IEPA 10107193
	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES GROUNDWATER SECTION SPRINGFIELD, ILLINOIS 62794-9276
	APPLICATION FOR AGENCY REVIEW OF LATERAL AREA OF INFLUENCE DETERMINATION
1.	Public Water Supply Facility Name and Number <u>Kirkland</u> <u>0 3 7 0 3 0 0</u>
2.	Well Name, Number, Description, and Agency 5-Digit Well I.D. Well RRW I.D.#11424
3.	Municipality or Township Kirkland County DeKalb
4.	Name of Public Water Supply Owner <u>Village of Kirkland</u> Address <u>511 West Main Street, Kirkland, TL 60146</u>
5.	Indicate entity which determined the lateral radius of influence. (A)=0wner, (B)=Municipality, C=County (Circle one or more.) Name Village of Kirkland Title Address 511 West Main Street, Kirkland, IL 60146
6.0	REQUESTS FOR AGENCY REVIEW
	Section 671.301. Where the results of any determination made pursuant to Section 671.201 (Estimation Techniques and Pumping Tests) disclose that the distance from the well to the outermost boundary of the lateral area of influence under normal operational conditions exceeds the radius of the minimum setback established for that well pursuant to Section 14.2 of the Act, any County or Municipality served by such water supply may in writing request the Agency to review and confirm the technical adequacy of such determination.
6.1	Indicate entity filing petition for Agency review. A=County, \textcircled{B} +Municipality (Circle one.)
6.2	Certificate by Applicant
	I hereby certify that I have read and thoroughly understand the conditions and requirements of this submittal.
	Name of Applicant Filing Petition for Agency Review Village of Kirkland 511 West Main Street, Kirkland, IL 60146
	Street City State Zip Code Signature Manni Date 10/6/93 Title Village President
.	

This Agency is authorized to require this information under Illinois Revised Statutes, 1987, Chapter III 4, Section 14.3, Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in a determination that your request is not technically adequate. This form has been approved by the forms Management Center.

	other than the county or municilocated.	pality in which the public water supply is
	None	
	Entity(s)	Address(s)
7.	List documents being submitted	and indicate appendix procedure used:
		Appendix A. Volumetric Flow Equation
	calculations	Appendix B. Theis Nonequalibrium Equation
2		Appendix C. Todd Uniform Flow Equation X
	of the ordinance area	Appendix D. Pump Test Unconfined Aquifer Appendix E. Pump Test Confined Aquifer
		Appendix F. Hydrogeologic Mapping
		Appendix G. Alternate Procedure
		(description)
8.	Inidcate the shape of the later	al radius of influence 1=Irregular, 2=Circular,
0.		eral radius of influence distance in feet
9.0	INFRINGEMENT ON EXISTING PUBLIC	WATER SUPPLIES
9.1		lateral radius of influence located within the another public water supply? Yes $_{\underline{\mathrm{X}}}$ No
9.2	If yes, name that water supply	facility and indicate the facility number.
9.3		ten description to show areas of the lateral into another public water supply.
10.0	CERTIFICATION	•
	Appendix used by circling the (Contents of a Request) Appended geologist or engineer. Appendix C-G	echniques and Pumping Tests) please indicate the following: A, B, C, D, E, F, G. Section 671.302 dix A or B may be used by a person other than a dix C-G must be performed by a registered engineer may also be performed by a non-registered engineer tion 671.303 (Agency Approval of Alternate
10.1	Certificate by a person other calculated using Section 671.2	than an engineer or geologist Section 671.302 is
10.1		
1001	I hereby certify that I am f	amiliar with the information contained in this best of my knowledge and belief such information .
	I hereby certify that I am fapplication and that to the is true, complete and accurate	best of my knowledge and belief such information
2011	I hereby certify that I am fapplication and that to the	best of my knowledge and belief such information .

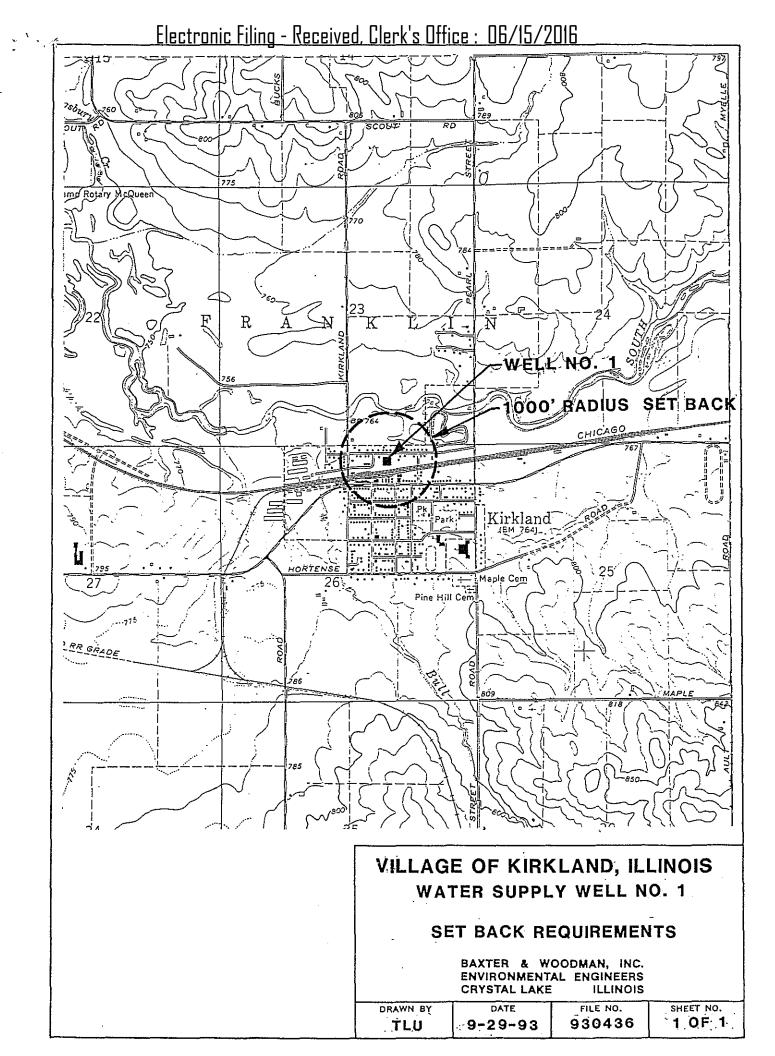
APPLICATION FOR AGENCY REVIEW OF LATERAL RADIUS OF INFLUENCE DETERMINATION PAGE 3

10.2 Certificate by engineer or geologist Section 671.302 or 671.303 if calculated using Section 671.201 Appendix C, D, E, F, or G:

I hereby certify the 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	Lawrence E. Thomas	38393					
	Name	Registration Number					
Geologist	t						
	Name	Registration Number					
Alternate	e*						
	Title	Name					
	*Please attach proof pursuant to Section	671.303					
Firm	Baxter & Woodman, Inc.	Phone Number 815/459-1260					
Address _	8678 Ridgefield Road, Crystal Lake, IL 600	12					
Signatur		Date					

LICENSED OF BROFESSIONAL ENGINEER ENGINEER STATEMENT OF THE PROPERTY OF THE PR



Electronic Filing - Received, Clerk's Office: 06/15/2016 SUSPENSE DATE 01/04/94 FOR IEPA USE: LOG NUMBER M 93 _0162 APPROVAL NUMBER AND DATE M _ _ _ _ _ /_ /_ _ DATE RECEIVED BY IEPA 4/0/01/93 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES GROUNDWATER SECTION SPRINGFIELD, ILLINOIS 62794-9276 APPLICATION FOR AGENCY REVIEW OF LATERAL AREA OF INFLUENCE DETERMINATION 1. Public Water Supply Facility Name and Number Kirkland 0 3 7 0 3 0 0 2. Well Name, Number, Description, and Agency 5-Digit Well I.D. Well No. 1 I.D. #11425______ 3. Municipality or Township Kirkland County DeKalb 4. Name of Public Water Supply Owner Village of Kirkland Address 511 West Main Street, Kirkland, IL 60146 Indicate entity which determined the lateral radius of influence. (A)=Owner, (B)=Municipality, C=County (Circle one or more.) Name Village of Kirkland Title Address 511 West Main Street, Kirkland, IL 60146 6.0 REQUESTS FOR AGENCY REVIEW Section 671.301. Where the results of any determination made pursuant to Section 671.201 (Estimation Techniques and Pumping Tests) disclose that the distance from the well to the outermost boundary of the lateral area of influence under normal operational conditions exceeds the radius of the minimum setback established for that well pursuant to Section 14.2 of the Act, any County or Municipality served by such water supply may in writing request the Agency to review and confirm the technical adequacy of such determination. 6.1 Indicate entity filing petition for Agency review. A=County, B=Municipality (Circle one.) 6.2 Certificate by Applicant I hereby certify that I have read and thoroughly understand the conditions and requirements of this submittal. Name of Applicant Filing Petition for Agency Review Village of Kirkland 511 West Main Street, Kirkland, IL 60146 Zip Code . Street City Signature Theek Date 6/10/93 Title <u>Village President</u>

This Agency is authorized to require this information under Illinois Revised Statutes, 1987. Chapter 111 5. Section 14.3. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in a determination that your request is not technically adequate. This form has been approved by the forms Management Center.

••

APPL	ICATION FOR AGENCY REVIEW OF LAT	ERAL RADIUS OF INFLUENCE	DETERMINATION Page 2
	List any other counties or munic other than the county or municip located.		
	None		
	Entity(s)	Addres	ss(s)
7.	List documents being submitted a	and indicate appendix pro	cedure used:
1)	Radius of influent	Appendix A. Volumetric	Flow Equation
0.3	calculations	Appendix B. Theis Noned	ualibrium Equation
2)	Draft ordinance including map of the ordinance area	Appendix C. Todd Unifor Appendix D. Pump Test U	
	or the Ordinance area	Appendix E. Pump Test (Confined Aquifer
		Appendix F. Hydrogeolog	gic Mapping
		Appendix G. Alternate l	
)
8.	Inidcate the shape of the latera (circle one) and the maximum late		
9.0	INFRINGEMENT ON EXISTING PUBLIC	WATER SUPPLIES	
9.1	Is any part of the maximum l boundaries of an area served by		
9.2	If yes, name that water supply Name	•	the facility number. $$
9.3	Use a map and provide a writ radius of influence which cross		
10.0	CERTIFICATION		
		following: A, B, C, D, dix A or B may be used by dix C-G must be performed by a	E, F, G. Section 671.302 a person other than a lby a registered engineer
10.1	Certificate by a person other to calculated using Section 671.20		ogist Section 671.302 if
	I hereby certify that I am f application and that to the is true, complete and accurate	best of my knowledge and	
	Name		Title
	Address		Phone Number
	Signature		Date

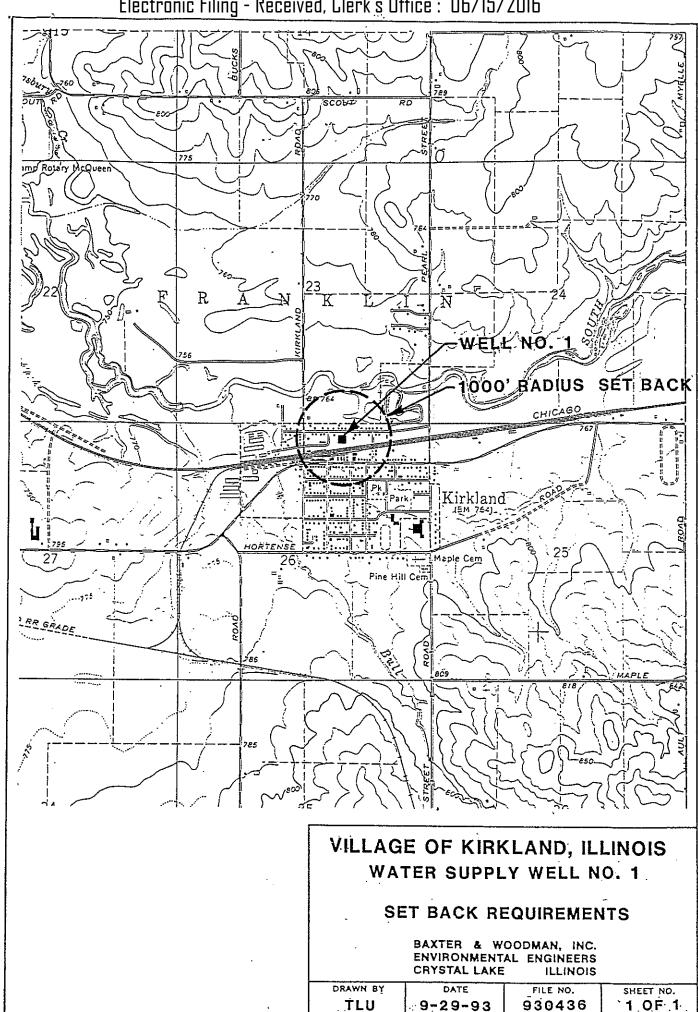
APPLICATION FOR AGENCY REVIEW OF LATERAL RADIUS OF INFLUENCE DETERMINATION PAGE 3

10.2 Certificate by engineer or geologist Section 671.302 or 671.303 if calculated using Section 671.201 Appendix C, D, E, F, or G:

I hereby certify the 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	Lawrence E. Thomas	38393					
	Name	Registration Number					
Geologist							
	Name	Registration Number					
Alternate	:*						
	Title	Name					
	*Please attach proof pursuant to Section	671.303					
Firm	Baxter & Woodman, Inc.	Phone Number 815/459-1260					
Address _	8678 Ridgefield Road, Crystal Lake, IL 600	12					
Signature	\mathcal{L}	Date <u>9/28/93</u>					

OF CANAL LIN OF



CERTIFICATION

I,	WAYNE	WAY,	do here	eby c	ertify	that	I am	the	duly a	appoin	ted,
acting	and qu	alifi	ed Cleri	cof	the Vi	llage	of Ki	irkla	nd, De	eKalb	
County,	Illin	ois, a	and that	as	such C	lerk,	I am	the	keepei	r of t	he
records	and m	inute:	s and p	cocee	dings	of the	Pres	siden	t and	Board	of
Trustee	s of s	aid V:	illage (of Ki	rkland						

The pamphlet form of Ordinance No. _______, including the Ordinance and a cover sheet thereof, was prepared, and a copy of such Ordinance was available in the Village Hall, commencing on the ________, 19_____, and continuing for at least 10 days thereafter. Copies of such Ordinance were also available for public inspection upon request in the office of the Village Clerk.

I DO FURTHER certify that the original, of which the attached is a true and correct copy, is entrusted to me as the Clerk of said Village for safekeeping, and that I am the lawful custodian and keeper of the same.

	GIVEN	under	mу	hand	and	seal	this		day	of	,
19	•										

(SEAL)

Wayne Way, Clerk Village of Kirkland DeKalb County, Illinois

MINIMUM AND MAXIMUM SETBACK ORDINANCE OF THE VILLAGE OF KIRKLAND, ILLINOIS

WHEREAS, the Village of Kirkland is authorized by Section 11-125-4 of the Illinois Municipal Code [Ill. Rev. Stat. Chapter 24, Paragraph 11-125-4 (1989)] to perform a groundwater protection needs assessment and adopt a minimum or maximum setback zone around community well heads pursuant to Sections 14.2-14.4 and 17.1 of the Environmental Protection Act ("Act") [Ill. Rev. Stat. Chapter 111-1/2, Paragraph 1014.2-1014.4 and 1017.1 (1989)]; and

WHEREAS, in the interest of securing the public health, safety and welfare; to preserve the quality and quantity of groundwater resources in order to assure a safe and adequate water supply for present and future generations, and to preserve groundwater resources currently in use and those aquifers having a potential for future use as a public water supply, the provisions of this Ordinance shall apply to all properties located within the minimum setback zone established under Section 14.1 of the Act and this Ordinance and the maximum setback zone established under Section 14.3 of the Act and this Ordinance.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Kirkland, DeKalb County, Illinois, as follows:

SECTION 1: Except as stated in this Ordinance and unless a different meaning of a work or term is clear from the context, the definition of the words or terms in this Ordinance shall be the same as those used in the Act and the Illinois Groundwater Protection Act [Ill. Rev. Stat. Chapter 111-1/2, Paragraph 7451 et seq. (1989)]:

- "Agency" means the Illinois Environmental Protection Agency.
- "Board" means the Illinois Pollution Control Board.
- "Minimum Setback Zone" means the area around a community water supply well established under Section 14.2 of the Act and this Ordinance and shown in Exhibit A.
- "Maximum Setback Zone" means the area around a community water supply well established under Section 14.3 of the Act and this Ordinance and shown in Exhibit A.

SECTION 2:

A. Except as provided in Sections 4 and 5, no person shall place a new potential primary source, new potential secondary source, or new potential route within the minimum setback zone.

B. Except as provided otherwise in Section 4, no person shall place a new potential primary source within the maximum setback zone.

SECTION 3: WAIVERS, EXCEPTIONS AND CERTIFICATIONS OF MINIMUM HAZARD.

- A. If the owner of a new potential primary source, new potential secondary source or new potential route is granted a waiver by the Agency, pursuant to Section 14.2(b) of the Act, such owner shall be deemed to have a waiver to the same extent from Section 2(a) of this Ordinance.
- B. If the owner of a new potential primary source (other than landfilling or land treating), new potential secondary source, or new potential route is granted an exception by the Board, pursuant to Section 14.2(c) of the Act, such owner shall be deemed to have an exception to the same extent from Section 2(a) of this Ordinance.
- C. If the owner of a new potential primary source (other than landfilling or land treating) is granted an exception by the Board, pursuant to Section 14.2(c) of the Act, such owner shall be deemed to have an exception to the same extent from Section 2(b) of this Ordinance.
- D. If the owner of a new potential primary source, new potential secondary source, or new potential route is issued a certificate of minimal hazard by the Agency, pursuant to Section 14.5 of the Act, such owner shall not be subject to Section 2(a) of this Ordinance to the same extent that such owner is not to subject Section 14.2(d) of the Act.

SECTION 4: Section 2(a) of this Ordinance shall not apply to new common sources of sanitary pollution as specified in Section 17 of the Act and the regulations adopted thereunder by the Agency; however, no such common sources may be located within the applicable minimum distance from a community water supply well specified by such regulations.

SECTION 5: If any section, paragraph, subdivision, clause, sentence or provision of this Ordinance shall be adjudged by any Court of competent jurisdiction to be invalid, such judgment shall not affect, impair, invalidate or nullify the remainder thereof, which remainder shall remain and continue in full force and effect.

SECTION 6: All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

SECTION 7: This Ordinance sha upon its passage, approval and publication is hereby authorized) a	
Voting Aye:	
Voting Nay:	
Absent:	
Abstain:	
	APPROVED:
(GEAT)	David Manni Willers Drogidont
(SEAL)	Fred Manni, Village President
ATTEST: Wayne Way, Village Clerk	
Passed:	
Approved:	
Published:	

VILLAGE OF KIRKLAND, ILLINOIS
MAXIMUM SETBACK ZONE DETERMINATION
RADIUS OF INFLUENCE CALCULATIONS
TODD UNIFORM FLOW EQUATION

PUBLIC WATER SUPPLY WELL NO. 1

$$X = \frac{1.19Q}{Ti}, \qquad Y = \frac{7.48Q}{Ti}$$

Where:

Q = Daily flow from well under normal conditions.

=
$$\frac{425 \text{ gals.}}{\text{min.}}$$
 x $\frac{60 \text{ mins.}}{\text{hr.}}$ x $\frac{18 \text{ hours}}{\text{day}}$ $\frac{\cancel{7}.48 \text{ gals.}}{\text{cu.ft.}}$ = $\frac{61,400 \text{ cu.ft.}}{\text{day}}$

i = Hydraulic gradient of the water table or potentiometric surface.

$$=\frac{50!}{15,840}=0.0032$$

T = Aquifer transmissivity as determined from information supplied in the Illinois State Water Survey Groundwater Report No. 10.

= 19,200 gals. per foot per day

X = Lateral area of influence.

Y = maximum width of the lateral area of influence.

$$X = \frac{(1.19)(61,400)}{(19,200)(0.0032)} = 1,200 \text{ ft.}$$

$$Y = \frac{(7.48)(61,400)}{(19,200)(0.0032)} = 7,600 \text{ ft.}$$

The width of the lateral area of influence is greater than 400 feet. The well is therefore qualified for establishment of a 1,000 foot maximum setback zone.

1158R

VILLAGE OF KIRKLAND, ILLINOIS
MAXIMUM SETBACK ZONE DETERMINATION
RADIUS OF INFLUENCE CALCULATIONS
TODD UNIFORM FLOW EQUATION

PUBLIC WATER SUPPLY WELL RRW

$$X = \frac{1.19Q}{Ti} \qquad Y = \frac{7.48Q}{Ti}$$

Where:

Q = Daily flow from well under normal conditions.

$$= \underbrace{358 \text{ gals.}}_{\text{min.}} \times \underbrace{60 \text{ mins.}}_{\text{hr.}} \times \underbrace{18 \text{ hours}}_{\text{day}} \div \underbrace{7.48 \text{ gals.}}_{\text{cu.ft.}} = \underbrace{51,700 \text{ cu.ft.}}_{\text{day}}$$

i = Hydraulic gradient of the water table or potentiometric surface.

$$=\frac{50!}{15.840}=0.0032$$

T = Aquifer transmissivity as determined from information supplied in the Illinois State Water Survey Groundwater Report No. 10.

= 19,200 gals. per foot per day

X = Lateral area of influence.

Y = maximum width of the lateral area of influence.

$$X = \frac{(1.19)(51,700)}{(19,200)(0.0032)} = 1,000 \text{ ft.}$$

$$Y = \frac{(7.48)(51,700)}{(19,200)(0.0032)} = 6,300 \text{ ft.}$$

The width of the lateral area of influence is greater than 400 feet. The well is therefore qualified for establishment of a 1,000 foot maximum setback zone.

1158R

Electronic, Filing - Received, Clerk's Office: 06/15/2016 R 000' BADIUS SET BACK Kirkland RR GRADE VILLAGE OF KIRKLAND, ILLINOIS WATER SUPPLY WELL RRW SET BACK REQUIREMENTS. BAXTER & WOODMAN, INC. ENVIRONMENTAL ENGINEERS CRYSTAL LAKE ILLINOIS DRAWN BY DATE FILE NO. SHEET NO. TLU 9-29-93 930436 1 OF 1

Electronic Filing - Received, Clerk's Office: 06/15/2016 WELL NO. 1 SET BACK 000' BADIUS Kirkland Pine Hill Cem RR GRADE VILLAGE OF KIRKLAND, ILLINOIS WATER SUPPLY WELL NO. 1 SET BACK REQUIREMENTS BAXTER & WOODMAN, INC. ENVIRONMENTAL ENGINEERS CRYSTAL LAKE **ILLINOIS** DRAWN BY DATE FILE NO. SHEET NO. ŤLU 9-29-93 930436 1.0F.1.

Illinois State Geological Survey
Urbana, Illinois
KIRKLAND VILLAGE WELL

T 42 N S 26

250'S & 1875'W NECC

Elevation:775'
Drilled 1950 by J. B. Null

Sample Set No. 20714

	Ţ	Orilled 1950 t	oy J	. B.	Null		Examined 1951 by P.	М	Busc	.n.
	P	GLACIAL DRIFT	60	60	60		Soil, Dark brown; gravel, to ½"; sand; till, silty, grayish orange			Tivil 12/4 cas
		GALENA	87	87	11.7	٥٥٥	Dolomite, partly cherty, yellowish orange to light yellowish gray			69' B" 121/2" Hole
	}	DECORAH	28	28	175		Dolomite, yellowish gray, fine to coarse			152
	0 20		125	125			Dolomite, partly argillaceous, yellowish gray to yellowish orange, gray, fine to coarse			
	0 4 3 0	<i>?</i>	50	50	350		Shale, firm; Dolomite, fine; Sandstone, fine and coarse, incoherent			8"Hole
	0 17 A 29	ST PETER	280	280			Sandstone, silty zones as shown, white to gray, fine to coarse, incoherent	to		
	こう こうこうじゅうかんかんかん				63					
	三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二		775			TD	436			

COMMENT SHEET

Omission and Accuracy Review

Facility: 0370300 KIRKLAND			
Reviewer: PATTY			
Facility: 0370300 KIRKLAND Reviewer: PATTY Date of Review: 10-12-93 Review completed on day 3(work pay) of review per	ciod.		
1. Are all of the wells belonging to the delisted on the application?	facility	[]	[Mo]
a) If you check "No", list omitted we	l 5-digit ID.		
2. Has a well log been submitted for each on the application?		[Yes]	[MS]
3. Has a draft ordinance been submitted was application?	ith the	ijes)	[No]

NOTES:



VILLAGE OF KIRKLAND

511 W. Main Street P.O. Box 566
Kirkland, Illinois 60146

RECEIVED

DEC 14 1995

ENVIRONMENTAL PROTECTION AGENCY

STATE OF ILLINOIS

December 12, 1995

William E. Buscher Supervisor, Hydrogeology Unit Division of Public Water Supplies Bureau of Water

RE: Maximum Setback Zoning Ordinance Village of Kirkland

Please find enclosed a copy of Ordinance 94-8 to address the above.

Should you need any further information please let me know.

Sincerely,

Wayne Way, Clerk

VILLAGE OF KIRKLAND

cc: Charles Fruit

President

enclosure

Electronic Filing - Received, Clerk's Office : 06/15/2016 RECEIVED

ORDHANCE 94-8

MINIMUM AND MAXIMUM SETBACK ORDINANCE OF THE VILLAGE OF KIRKLAND, ILLINOIS

WHEREAS, the Village of Kirkland is authorized by Section WHEREAS, the Illinois Municipal Code [Ill. Rev. Stat. Chapter 24, Paragraph 11-125-4 (1989)] to perform a groundwater protection needs assessment and adopt a minimum or maximum setback zone around community well heads pursuant to Sections 14.2-14.4 and 17.1 of the Environmental Protection Act ("Act") [Ill. Rev. Stat. Chapter 111-1/2, Paragraph 1014.2-1014.4 and 1017.1 (1989)]; and

WHEREAS, in the interest of securing the public health, safety and welfare; to preserve the quality and quantity of groundwater resources in order to assure a safe and adequate water supply for present and future generations, and to preserve groundwater resources currently in use and those aquifers having a potential for future use as a public water supply, the provisions of this Ordinance shall apply to all properties located within the minimum setback zone established under Section 14.1 of the Act and this Ordinance and the maximum setback zone established under Section 14.3 of the Act and this Ordinance.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Kirkland, DeKalb County, Illinois, as follows:

SECTION 1: Except as stated in this Ordinance and unless a different meaning of a work or term is clear from the context, the definition of the words or terms in this Ordinance shall be the same as those used in the Act and the Illinois Groundwater Protection Act [Ill. Rev. Stat. Chapter 111-1/2, Paragraph 7451 et seq. (1989)]:

"Agency" means the Illinois Environmental Protection Agency.

"Board" means the Illinois Pollution Control Board.

"Minimum Setback Zone" means the area around a community water supply well established under Section 14.2 of the Act and this Ordinance and shown in Exhibit A.

"Maximum Setback Zone" means the area around a community water supply well established under Section 14.3 of the Act and this Ordinance and shown in Exhibit A.

SECTION 2:

A. Except as provided in Sections 4 and 5, no person shall place a new potential primary source, new potential secondary source, or new potential route within the minimum setback zone.

B. Except as provided otherwise in Section 4, no person shall place a new potential primary source within the maximum setback zone.

SECTION 3: WAIVERS, EXCEPTIONS AND CERTIFICATIONS OF MINIMUM HAZARD.

- A. If the owner of a new potential primary source, new potential secondary source or new potential route is granted a waiver by the Agency, pursuant to Section 14.2(b) of the Act, such owner shall be deemed to have a waiver to the same extent from Section 2(a) of this Ordinance.
- B. If the owner of a new potential primary source (other than landfilling or land treating), new potential secondary source, or new potential route is granted an exception by the Board, pursuant to Section 14.2(c) of the Act, such owner shall be deemed to have an exception to the same extent from Section 2(a) of this Ordinance.
- C. If the owner of a new potential primary source (other than landfilling or land treating) is granted an exception by the Board, pursuant to Section 14.2(c) of the Act, such owner shall be deemed to have an exception to the same extent from Section 2(b) of this Ordinance.
- D. If the owner of a new potential primary source, new potential secondary source, or new potential route is issued a certificate of minimal hazard by the Agency, pursuant to Section 14.5 of the Act, such owner shall not be subject to Section 2(a) of this Ordinance to the same extent that such owner is not to subject Section 14.2(d) of the Act.

SECTION 4: Section 2(a) of this Ordinance shall not apply to new common sources of sanitary pollution as specified in Section 17 of the Act and the regulations adopted thereunder by the Agency; however, no such common sources may be located within the applicable minimum distance from a community water supply well specified by such regulations.

SECTION 5: If any section, paragraph, subdivision, clause, sentence or provision of this Ordinance shall be adjudged by any Court of competent jurisdiction to be invalid, such judgment shall not affect, impair, invalidate or nullify the remainder thereof, which remainder shall remain and continue in full force and effect.

SECTION 6: All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

SECTION 7: This Ordinance shall be in full force and effect upon its passage, approval and publication in pamphlet form (which publication is hereby authorized) as provided by law.

Voting Aye: Beeker, Beeker, Davis, Kenser

Voting Nay:

Absent: Berndary, Lingener

Abstain:

Approved:

Published:

CERTIFICATION

I, WAYNE WAY, do hereby certify that I am the duly appointed, acting and qualified Clerk of the Village of Kirkland, DeKalb County, Illinois, and that as such Clerk, I am the keeper of the records and minutes and proceedings of the President and Board of Trustees of said Village of Kirkland.

I do hereby further certify that at a regular meeting of the President and Board of Trustees of the Village of Kirkland, held on the 20 day of 0 and 0 and 0 and 0 and 0 are 0 and 0 are 0 and 0 are 0 and 0 are 0 are 0 and 0 are 0 are 0 are 0 and 0 are 0 and 0 are 0 and 0 are 0

The pamphlet form of Ordinance No. GL-E, including the Ordinance and a cover sheet thereof, was prepared, and a copy of such Ordinance was available in the Village Hall, commencing on the ZL day of Ocrobee, 19, and continuing for at least 10 days thereafter. Copies of such Ordinance were also available for public inspection upon request in the office of the Village Clerk.

I DO FURTHER certify that the original, of which the attached is a true and correct copy, is entrusted to me as the Clerk of said Village for safekeeping, and that I am the lawful custodian and keeper of the same.

GIVEN under my hand and seal this 27 day of 000, 1960.

(SEAL)

Wayne Way, Clerk Village of Kirkland DeKalb County, Illinois

VILLAGE OF KIRKLAND, ILLINOIS
MAXIMUM SETBACK ZONE DETERMINATION
RADIUS OF INFLUENCE CALCULATIONS
TODD UNIFORM FLOW EQUATION

PUBLIC WATER SUPPLY WELL NO. 1

$$X = \underbrace{1.19Q}_{Ti} \qquad Y = \underbrace{7.48Q}_{Ti}$$

Where:

Q = Daily flow from well under normal conditions.

$$= \underbrace{425 \text{ gals.}}_{\text{min.}} \times \underbrace{60 \text{ mins.}}_{\text{hr.}} \times \underbrace{18 \text{ hours}}_{\text{day}} \div \underbrace{7.48 \text{ gals.}}_{\text{cu.ft.}} = \underbrace{61,400 \text{ cu.ft.}}_{\text{day}}$$

i = Hydraulic gradient of the water table or potentiometric surface.

$$= \frac{50!}{15,840} = 0.0032$$

T = Aquifer transmissivity as determined from information supplied in the Illinois State Water Survey Groundwater Report No. 10.

= 19,200 gals. per foot per day

X = Lateral area of influence.

Y = maximum width of the lateral area of influence.

$$X = \frac{(1.19)(61,400)}{(19,200)(0.0032)} = 1,200 \text{ ft.}$$

$$Y = \frac{(7.48)(61,400)}{(19,200)(0.0032)} = 7,600 \text{ ft.}$$

The width of the lateral area of influence is greater than 400 feet. The well is therefore qualified for establishment of a 1,000 foot maximum setback zone.

1158R

VILLAGE OF KIRKLAND, ILLINOIS
MAXIMUM SETBACK ZONE DETERMINATION
RADIUS OF INFLUENCE CALCULATIONS
TODD UNIFORM FLOW EQUATION

PUBLIC WATER SUPPLY WELL RRW

$$X = \frac{1.19Q}{Ti} \qquad Y = \frac{7.48Q}{Ti}$$

Where:

Q = Daily flow from well under normal conditions.

=
$$\frac{358 \text{ gals.}}{\text{min.}}$$
 x $\frac{60 \text{ mins.}}{\text{hr.}}$ x $\frac{18 \text{ hours}}{\text{day}}$ ÷ $\frac{7.48 \text{ gals.}}{\text{cu.ft.}}$ = $\frac{51,700 \text{ cu.ft.}}{\text{day}}$

i = Hydraulic gradient of the water table or potentiometric surface.

$$= \frac{50!}{15,840} = 0.0032$$

T = Aquifer transmissivity as determined from information supplied in the Illinois State Water Survey Groundwater Report No. 10.

= 19,200 gals. per foot per day

X = Lateral area of influence.

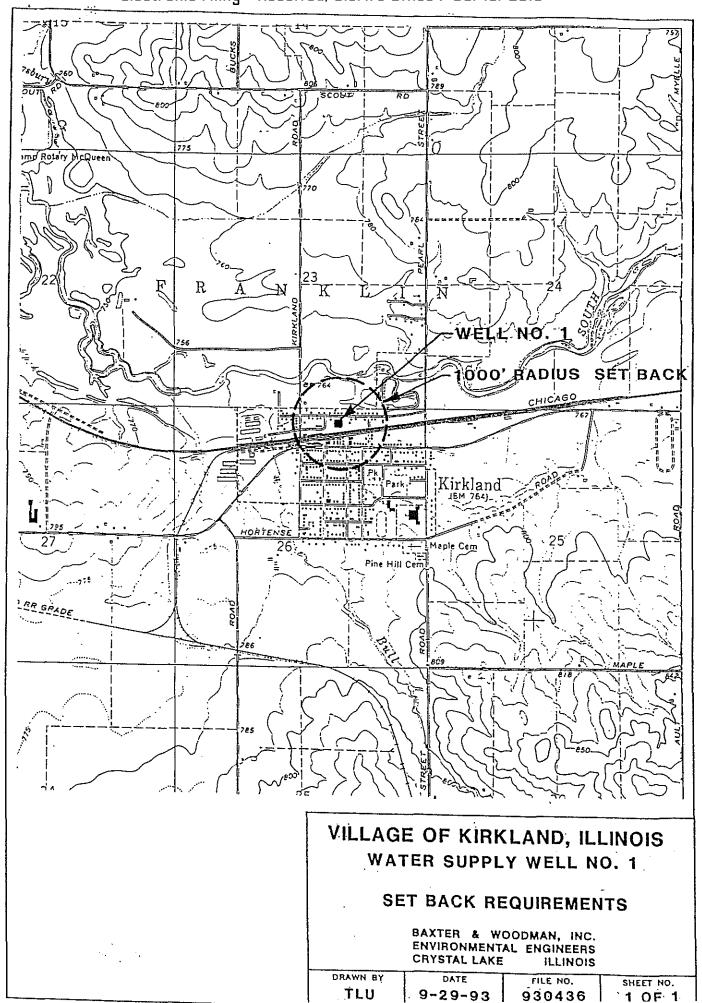
Y = maximum width of the lateral area of influence.

$$X = \frac{(1.19)(51,700)}{(19,200)(0.0032)} = 1,000 \text{ ft.}$$

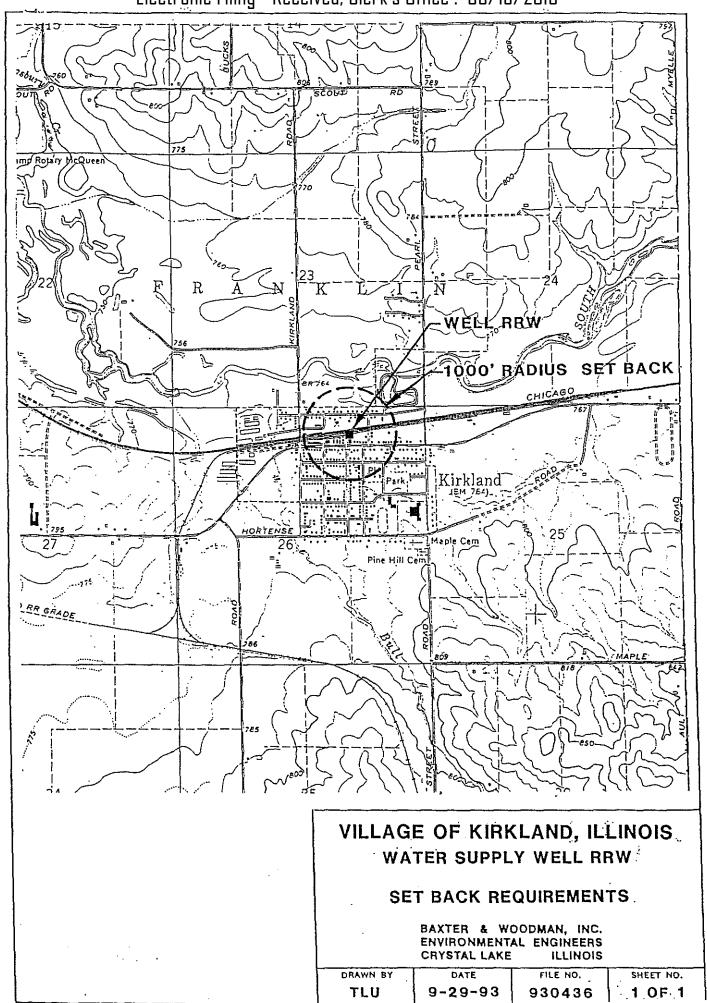
$$Y = \frac{(7.48)(51,700)}{(19,200)(0.0032)} = 6,300 \text{ ft.}$$

The width of the lateral area of influence is greater than 400 feet. The well is therefore qualified for establishment of a 1,000 foot maximum setback zone.

Electronic Filing - Received, Clerk's Office: 06/15/2016



Electronic Filing - Received, Clerk's Office : 06/15/2016



Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

7. .

217/785-4787

November 27, 1995

Fred Manni President - Village Hall 511 West Main Street Kirkland, Illinois 60146

Re: Maximum Setback Zoning Ordinance for the Kirkland Public Water Supply Wells

Dear Mr. Manni:

The Agency confirmed the technical adequacy of the lateral area of influence determination for the Kirkland Public Water Supply wells on December 14, 1993. The confirmation allows the Community of Kirkland to proceed with the adoption of a maximum setback zone ordinance, allowing additional protection to the well(s). Pursuant to Section 14.3c of the Environmental Protection Act ("Act") the Community is required to provide the Agency with a copy of the adopted ordinance. The Agency has not received a copy of Kirkland's adopted maximum setback zone ordinance. Section 14.3c of the Act also requires adoption of the maximum setback zone ordinance within two years of receipt of Agency confirmation of technical adequacy. Failure to pass a maximum setback zone ordinance within the allowed time period would require new confirmation of technical adequacy pursuant to Section 14.3(b) of the Act. The allotted two year period expires on December 14, 1995.

Please send a copy of the adopted ordinance, or notification that the maximum setback zone ordinance has not been adopted, to William E. Buscher, Division of Public Water Supplies at the address noted above.

Additional Agency review of the final adopted ordinance is necessary to help assure enforceability. The Act allows a municipality or county served by a community water supply to pass the maximum setback zone ordinance, but only if it is consistent with the powers enacted by the Act.

Thank you for your continued cooperation and interest in this phase of the Illinois Groundwater Protection Program. If we can be of any further assistance, please advise Carl Kamp or me at 217/785-4787.

Sincerely,

William E. Buscher

Supervisor, Hydrogeology Unit Division of Public Water Supplies

William P. Buscher

Bureau of Water

WEB:CEK:tml

Mary A. Gade, Director 217/785-4787

2200 Churchill Road, Springfield, IL 62794-9276

December 14, 1993

Mr. Fred Manni Village President 511 West Main Street P.O. Box 566 Kirkland, IL 60146

Re: Confirmation of Technical Adequacy of the Lateral Area of Influence
Determination(s) for the Village of Kirkland Public Water Supply Well(s)
PWS Facility No. 0370300
Agency Well Nos. 11424 & 11425
Log Date - October 7, 1993
Log Number(s) 93-0161 & 93-0162

Dear Mr. Manni:

The Agency has reviewed the technical adequacy of the lateral area of influence determination for the Village of Kirkland well(s) referenced above. The application and supporting documentation was submitted by Larry Thomas of Baxten and Woodman, Inc., on your behalf.

The Agency confirms the technical adequacy of the lateral area of influence determination for the wells referenced above. This constitutes a final determination by the Agency.

The Agency's evaluation of the application determined the following:

- * the minimum and maximum setback zones located on the Kirkland aerial photographic map should be labeled to tie in with the draft ordinance definitions (see attachment); and,
- * references to Illinois Revised Statutes in the draft ordinance should be the year 1991 and not 1989 (e.g. Ill. Rev. Stat. 1991, ch. 24 par. 11-125-4)

In addition to prohibiting potential primary sources of contamination, the implementation of a maximum setback zone ordinance will expand the regulatory control of certain new and existing activities. These regulations are contained in "Groundwater Protection Regulations for Existing and New Activities Within Setback Zones and Regulated Recharge Area (35 III. Adm. Code 601, 615, 616 and 677)" which became effective on January 10, 1992. A copy of these regulations has been provided for your information.

After notice and opportunity for comment pursuant to Section 14.3(c) of the Illinois Environmental Protection Act ("Act") the Village of Kirkland may adopt an ordinance setting forth the location of each affected well and specifying the boundaries of the maximum setback zone(s). After adoption of the final ordinance the city is required to provide the Agency with a copy pursuant to Section 14.3c of the Act. The Agency suggests adding setback zones to any existing zoning maps.

Page 2

Thank you for your continued cooperation and interest in this phase of the Illinois Groundwater Protection Program. If we can be of any further assistance please advise Rick Cobb of my staff or me at 217/785-4787.

Very truly yours,

Roger D. Selburg,

Division Manager

Division of Public Water Supplies

RDS:CEK:drk:491P/58-59

cc: Larry Thomas

bcc: Jim Park

Roger Kanerva Roger Selburg Don Dillenburg Steve Ewart Bill Buscher Carl Kamp

File

Mary A. Gade, Director

217/785-4787

October 27, 1993

Mr. Fred Manni Village President 511 West Main Street Kirkland, IL 60146

Re: Agency Acknowledgement of Application for Review of the Lateral Area of Influence Determination for the Village of Kirkland's Public Water Supply Well(s)

PWS Facility Number - 0370300

Agency Well Numbers - 11424, 11425

Log In Date - October 12, 1993 Log Numbers - 93-0161, 93-0162

Dear Mr. Manni:

The Agency has received your application regarding Agency review of the lateral area of influence determination for Kirkland's well(s). The date and log numbers referenced above have been assigned to your application. Please refer to these log numbers in all future communications concerning this application. The 90-day review period expires January 4, 1994.

Thank you for your interest and cooperation in this phase of the Illinois Groundwater Protection Program. Please advise Carl Kamp of my staff or me at 217/785-4787 if you have any questions or require assistance.

Sincerely,

William E. Buscher

Division of Public Water Supplies

Bureau of Water

William K. Buselor

WEB:plc

cc: L. Thomas

bcc: Jim Park

Roger Kanerva Roger Selburg Don Dillenburg Steve Ewart Bill Buscher