

# Raytown Water Co.

## Computerized Leak Detection Survey

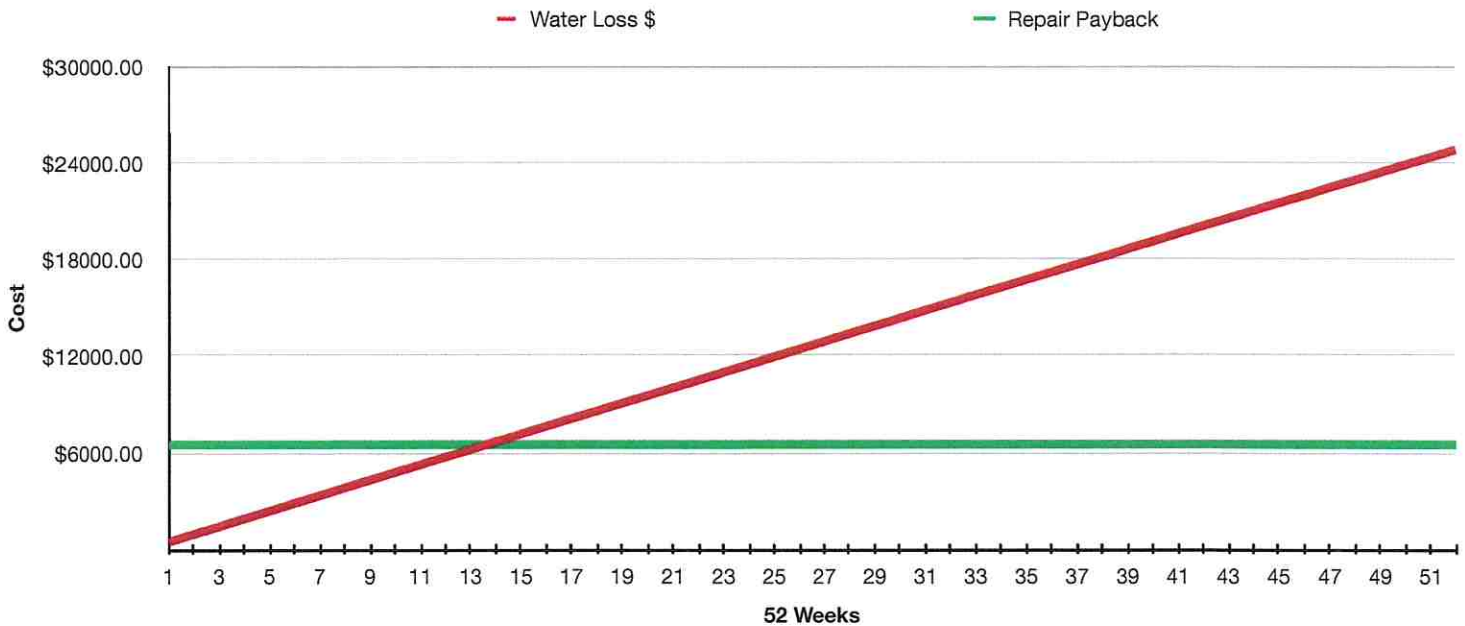
10/20/23

### Cost Analysis

This survey was conducted by Westrum Leak Detection utilizing the latest leak detection correlation technology to pinpoint suspected leakage in the system. The following leaks were located.

Leak Chart is \$1 per 1,000 gallons lost

	No. of Leaks	GPD (per leak)	Millions per year	Dollars per year
Main leaks	6	6,000	13.14	\$13,140
Abandoned leaks	0	0	0	\$0
Service line leaks	5	3,500	6.3875	\$6,388
Valve leaks	3	4,000	4.38	\$4,380
Hydrant leaks	5	500	0.9125	\$913
<b>Total</b>	<b>19</b>	<b>14,000</b>	<b>24.82</b>	<b>\$24,820</b>



Survey Cost	\$6,500.00
Leak cost per week:	\$477
<b>Estimated payback period in weeks:</b>	<b>14</b>

As you know, because of increased production and test and maintenance costs, operation and maintaining an efficient water distribution system has become a necessity. The most effective method to reach and maintain that goal is with an annual leak detection program. We appreciate the opportunity to serve you.

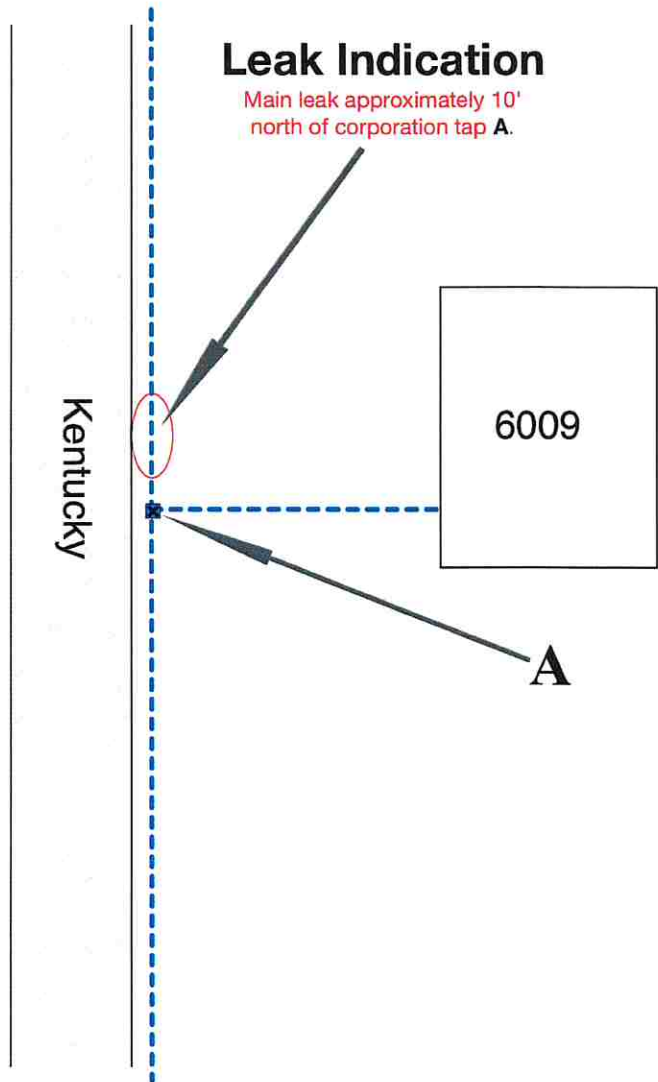
WESTRUM LEAK DETECTION	3226 360th St Stratford, IA 50249	515-838-2222 (24-7) 888-500-4433 (24-7)	Cell 515-231-0122
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- Manhole
- Stop Box
- Hydrant
- Valve

# Raytown Water Co.

Leak #  
1

Survey       Service       Date - 10/20/23



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

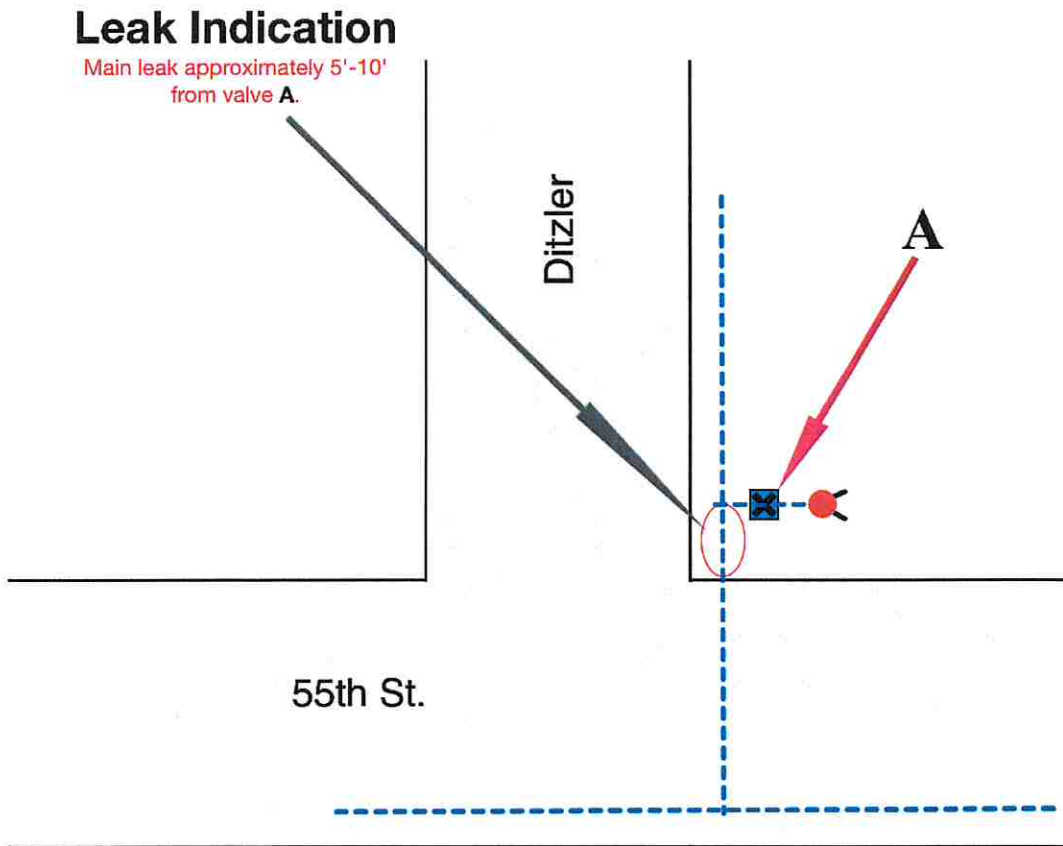
Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Co.

Survey 
Service 
Date - 10/20/23

Leak #  
2



**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES
 NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

**Raytown Water Co.**

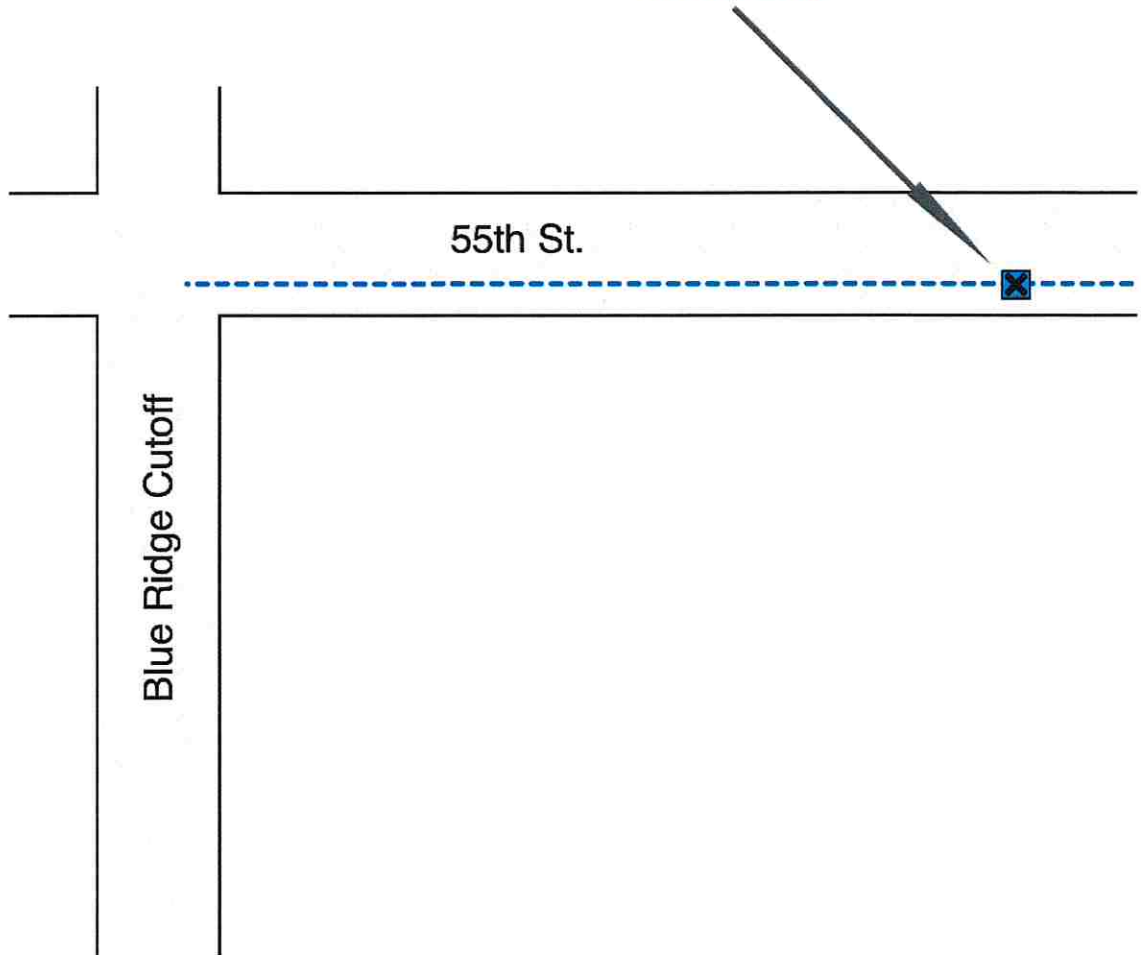
Leak #  
3

Survey       Service       Date - 10/20/23



**Leak Indication**

This valve leaking.



**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

**Raytown Water Co.**

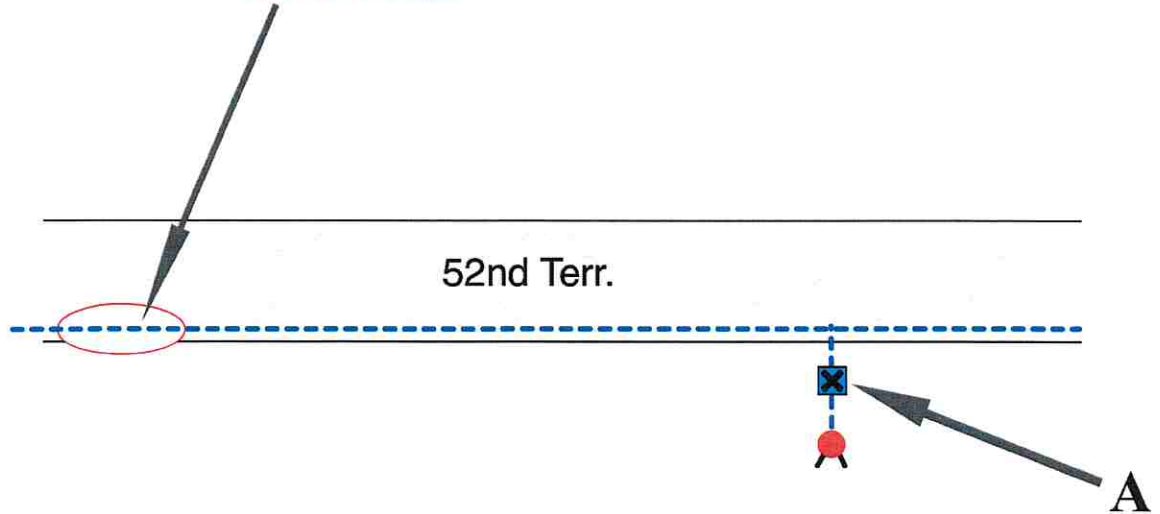
Leak #  
4

Survey       Service       Date - 10/20/23



**Leak Indication**

Main leak approximately 85'-90' from hydrant valve **A**. Leak area is marked in the street.



8871

**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES
 NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Co.

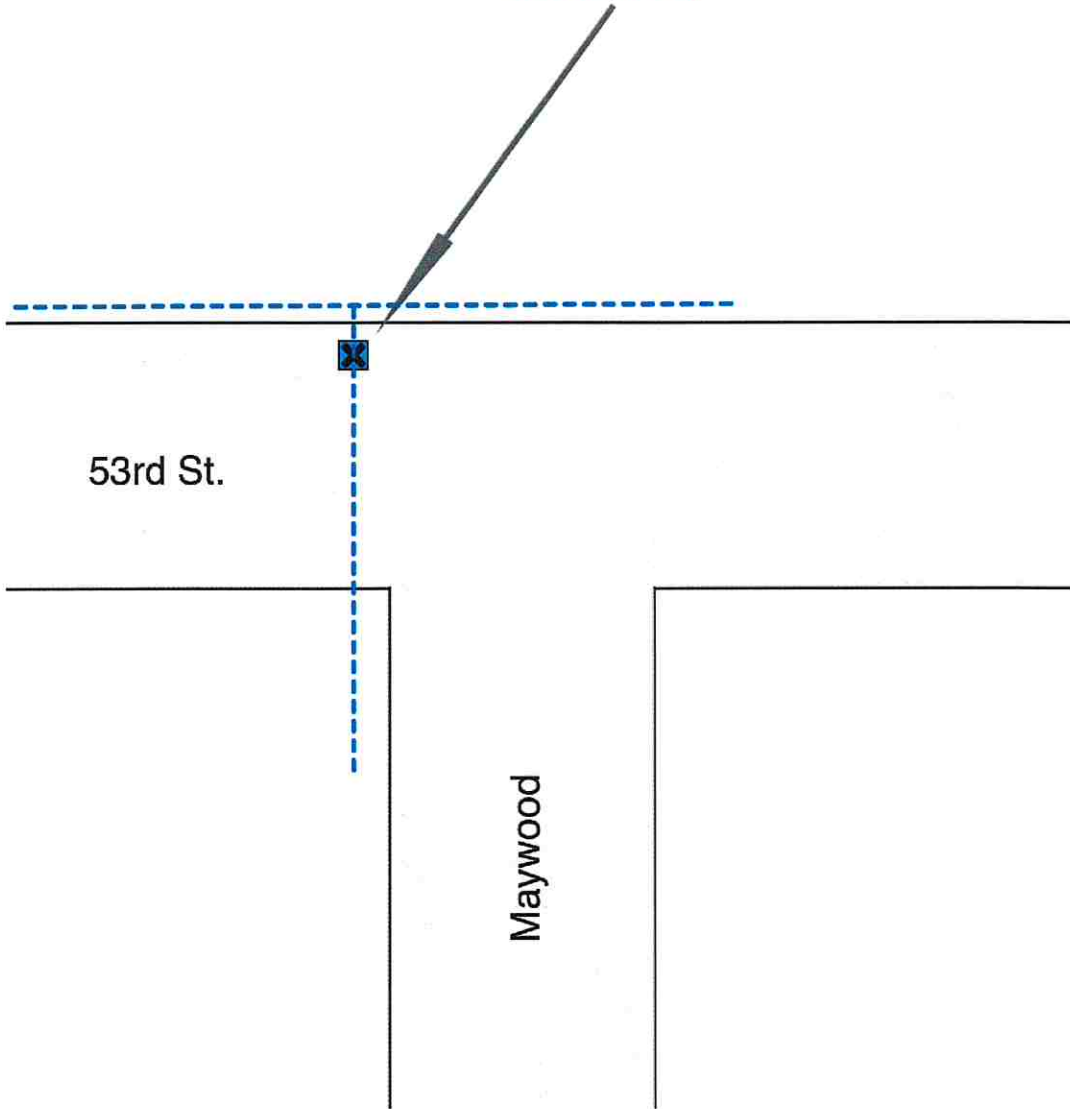
Leak #  
5

Survey       Service       Date - 10/20/23



## Leak Indication

This valve is leaking.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ⦿
- Valve ⊠

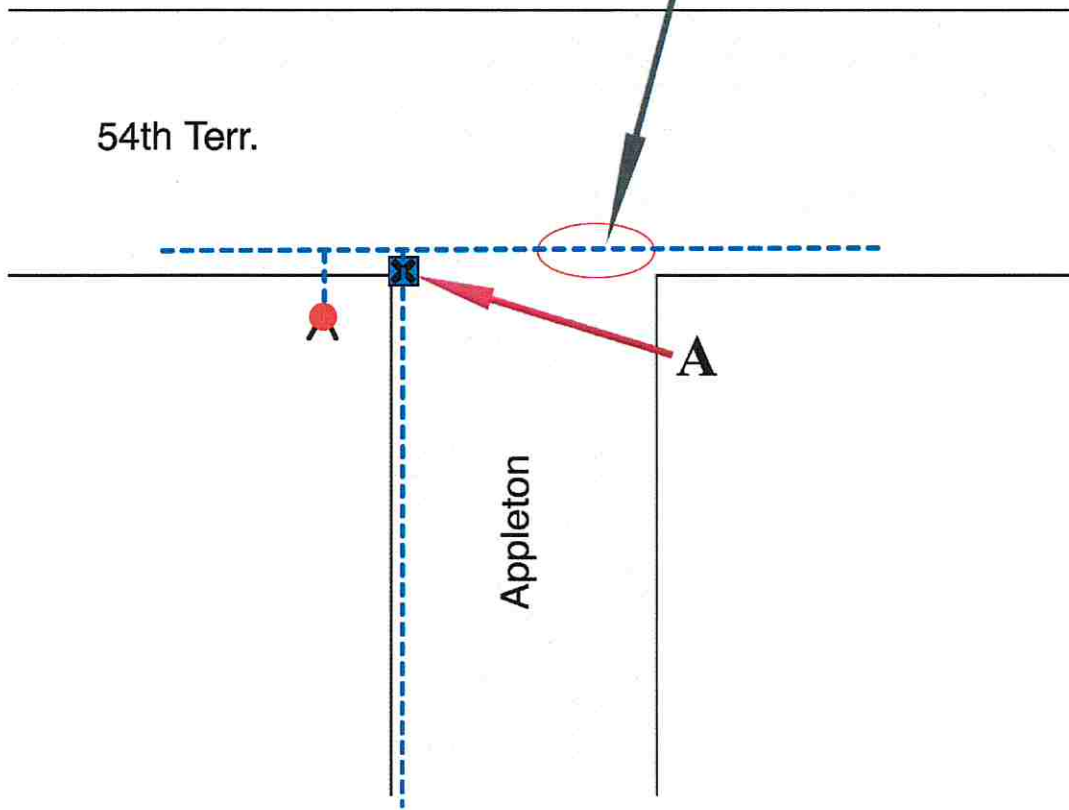
<h1>Raytown Water Co.</h1>		
Survey <input type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/20/23

Leak #  
6



### Leak Indication

Main leak approximately 20'-25' east of valve **A**.  
This leak could possibly be 5'-10' further east of this location. I was not able to get a good correlation on this leak area.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair



- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

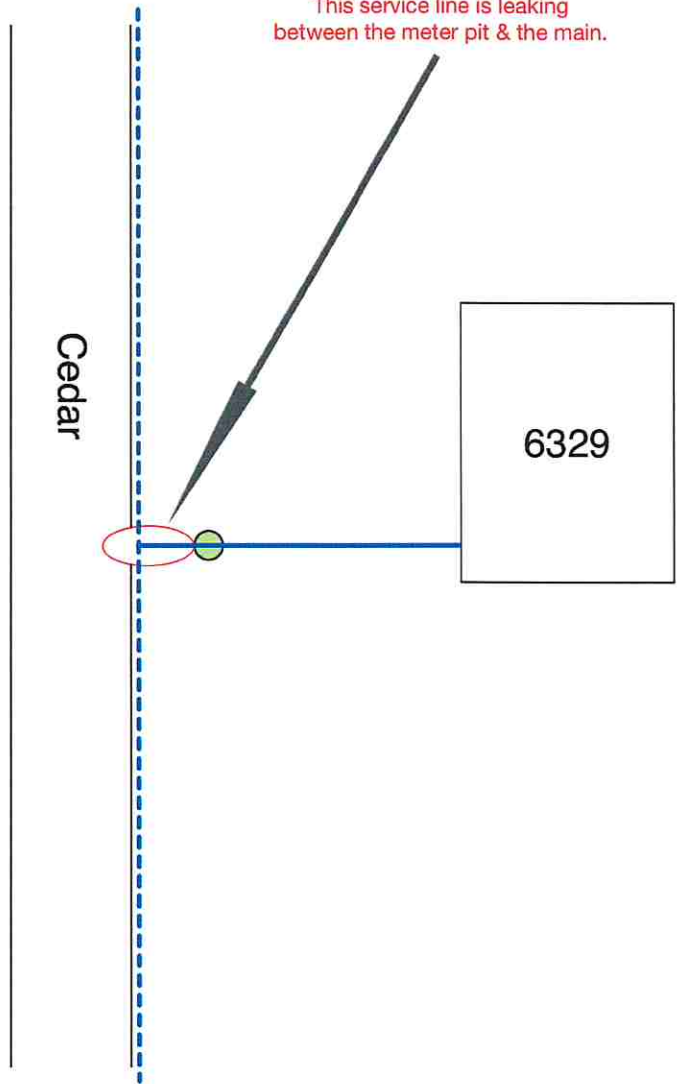
Leak #  
7

Survey  Service  Date - 10/20/23



## Leak Indication

This service line is leaking between the meter pit & the main.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

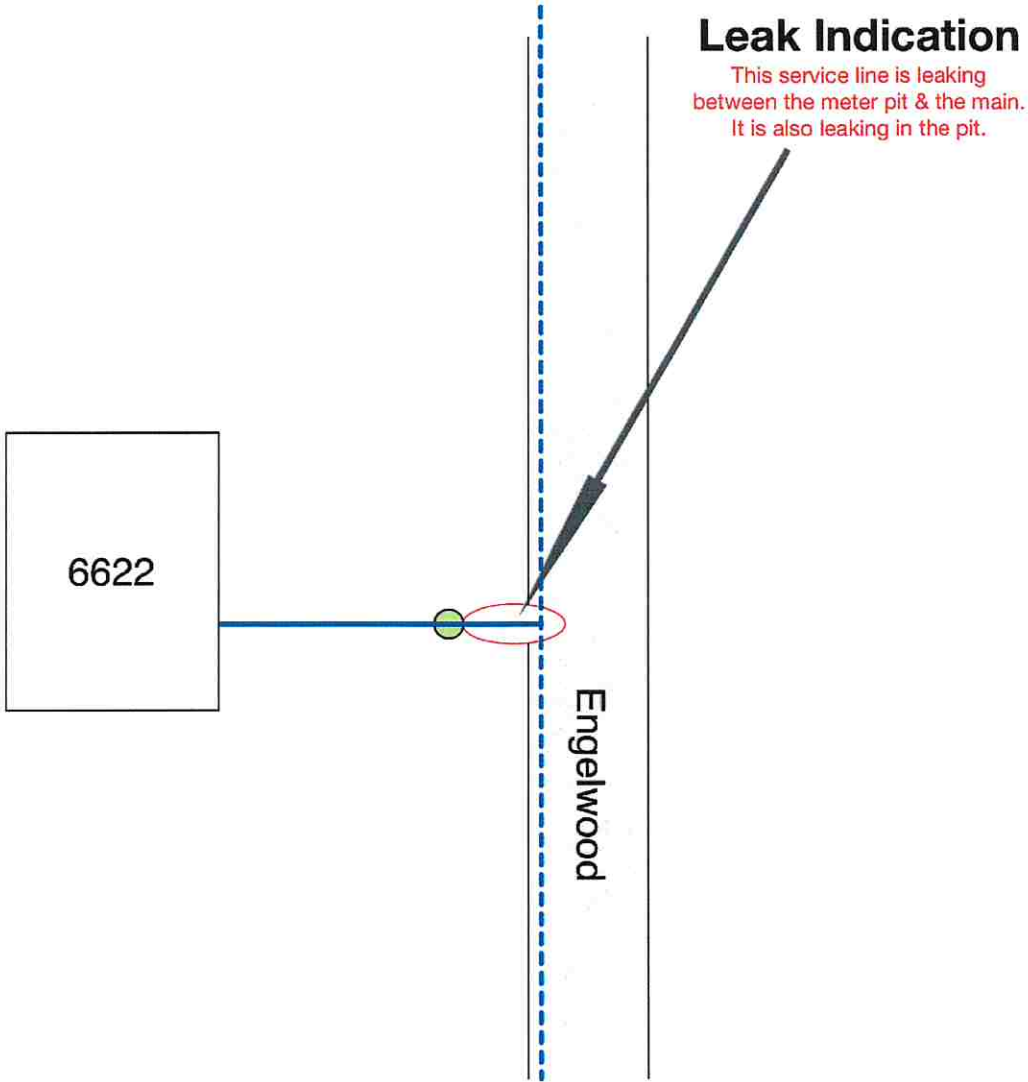
Description of Repair



- Manhole ●
- Stop Box ■
- Hydrant ⦿
- Valve ⊠

<h1>Raytown Water Company</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/20/23

Leak #  
8



**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
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Date Repaired

Operate stop box

YES     NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ⦿
- Valve ⊠

# Raytown Water Co.

Leak #  
9

Survey       Service       Date - 10/20/23



**Leak Indication**  
Main leak approximately 44'  
north of valve shown.



**Westrum Leak Detection**  
3226 360th St  
Stratford, IA 50249  
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Date Repaired

Operate stop box  
 YES       NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

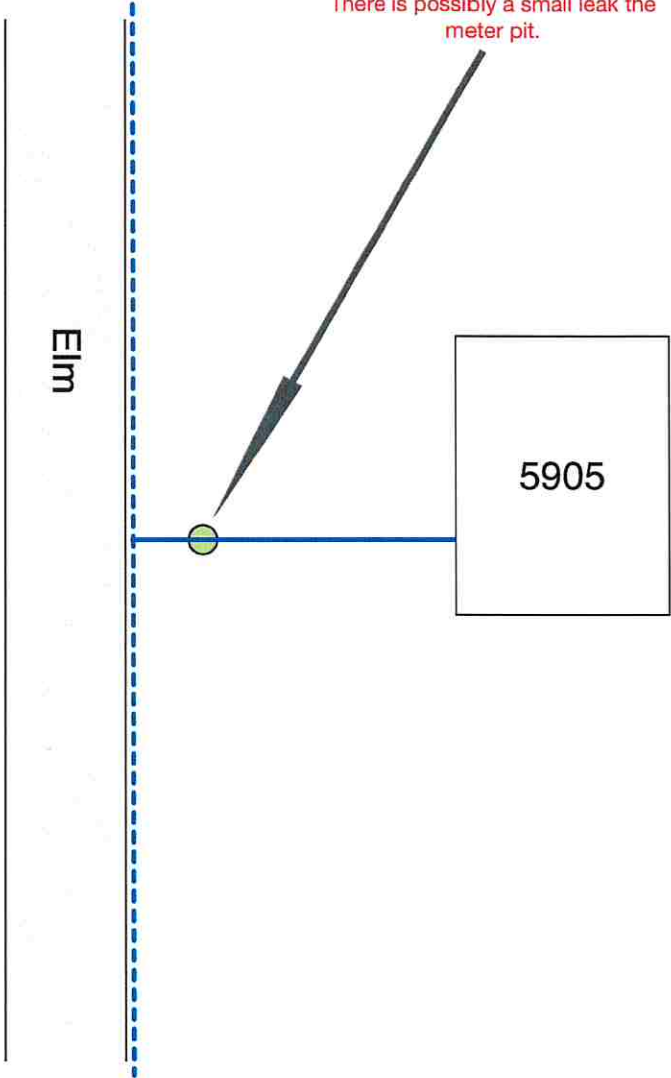
Leak #  
10

Survey  Service  Date - 10/20/23



## Leak Indication

There is possibly a small leak the meter pit.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair

- Manhole
- Stop Box
- Hydrant
- Valve

**Raytown Water Co.**

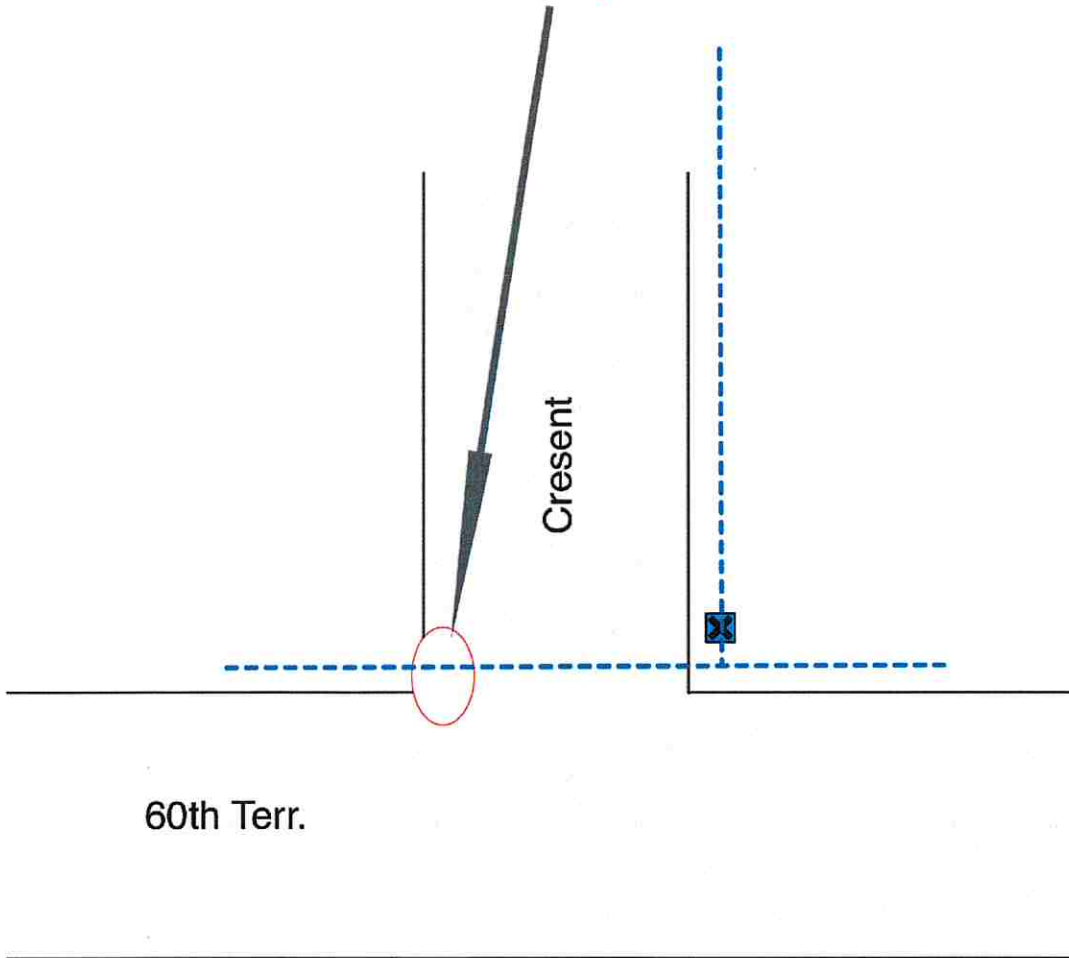
Leak #  
11

Survey       Service       Date - 10/20/23



**Leak Indication**

Possible valve leaking in this area. There is some indication that there is possibly a valve buried under the asphalt in this area.



**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES
 NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ●
- Valve ⊗

# Raytown Water Company

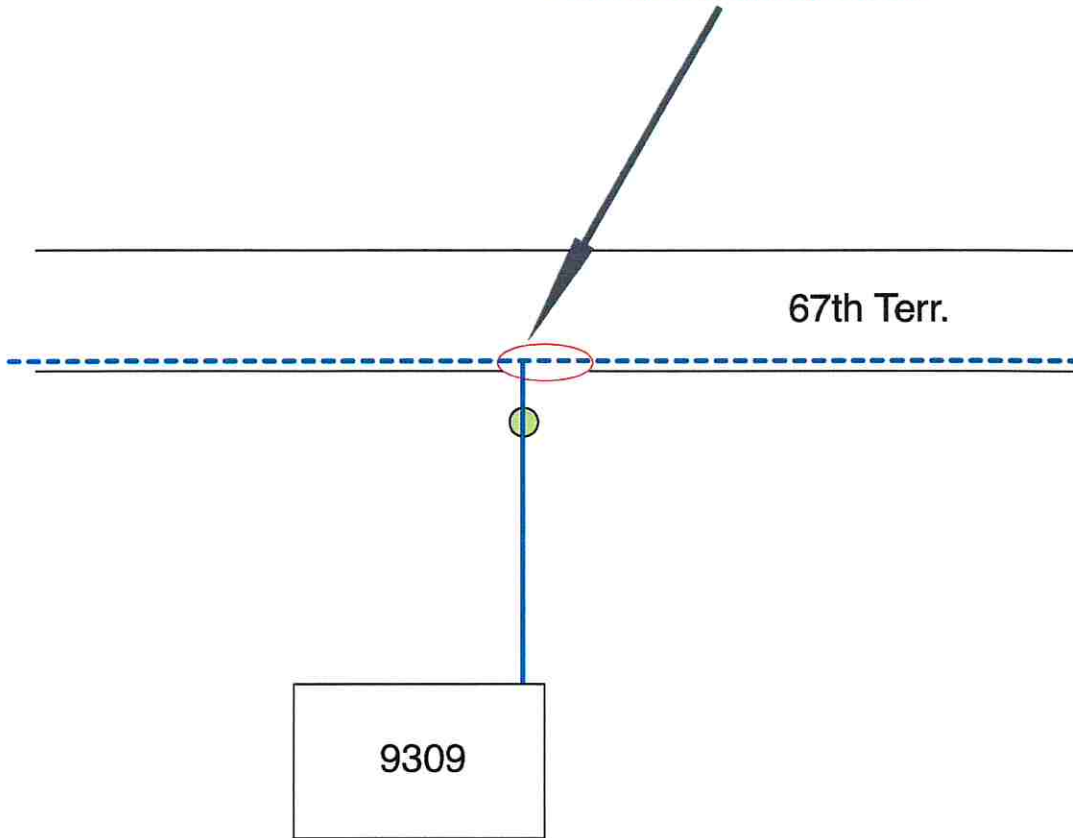
Survey 
Service 
Date - 10/20/23

Leak #  
12



### Leak Indication

Service line leak at or near the corporation tap. This could possibly be a main leak just east of the corporation tap to #9309.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES      NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

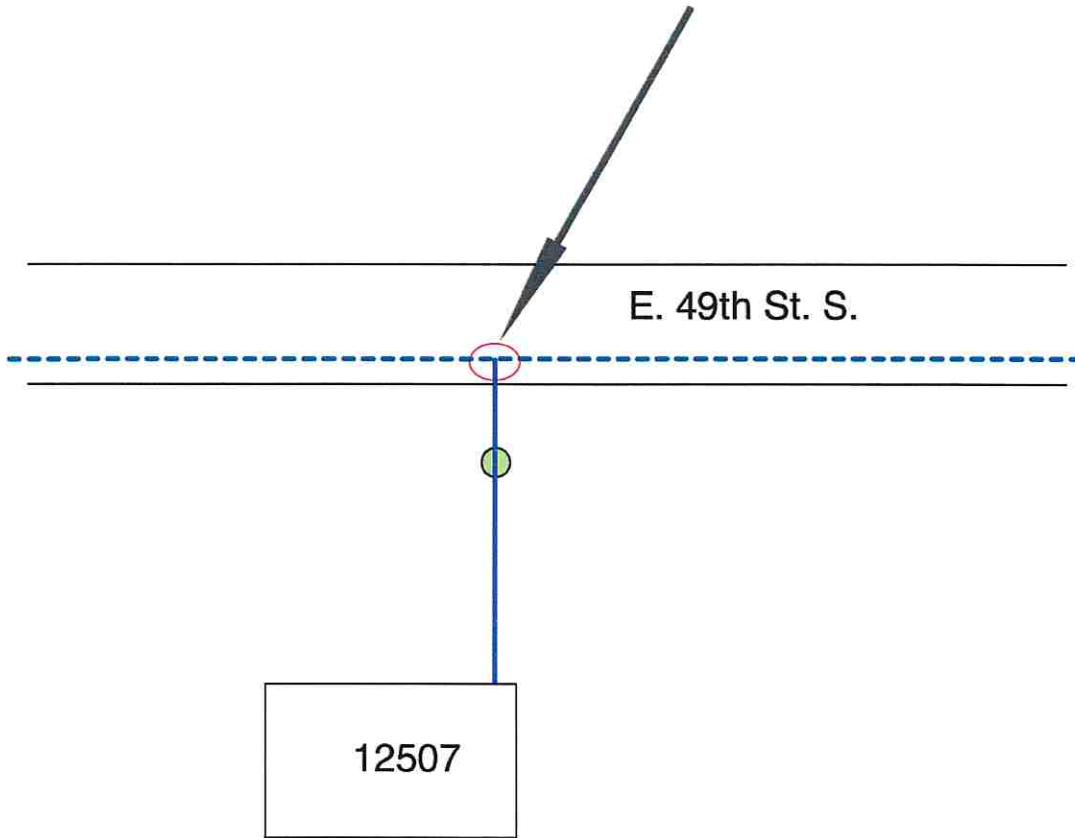
Survey 
Service 
Date - 10/20/23

Leak #  
13



### Leak Indication

Possible small leak in this area. I was not able to get a correlation on this leak.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ⚓
- Valve ⊗

# Raytown Water Co.

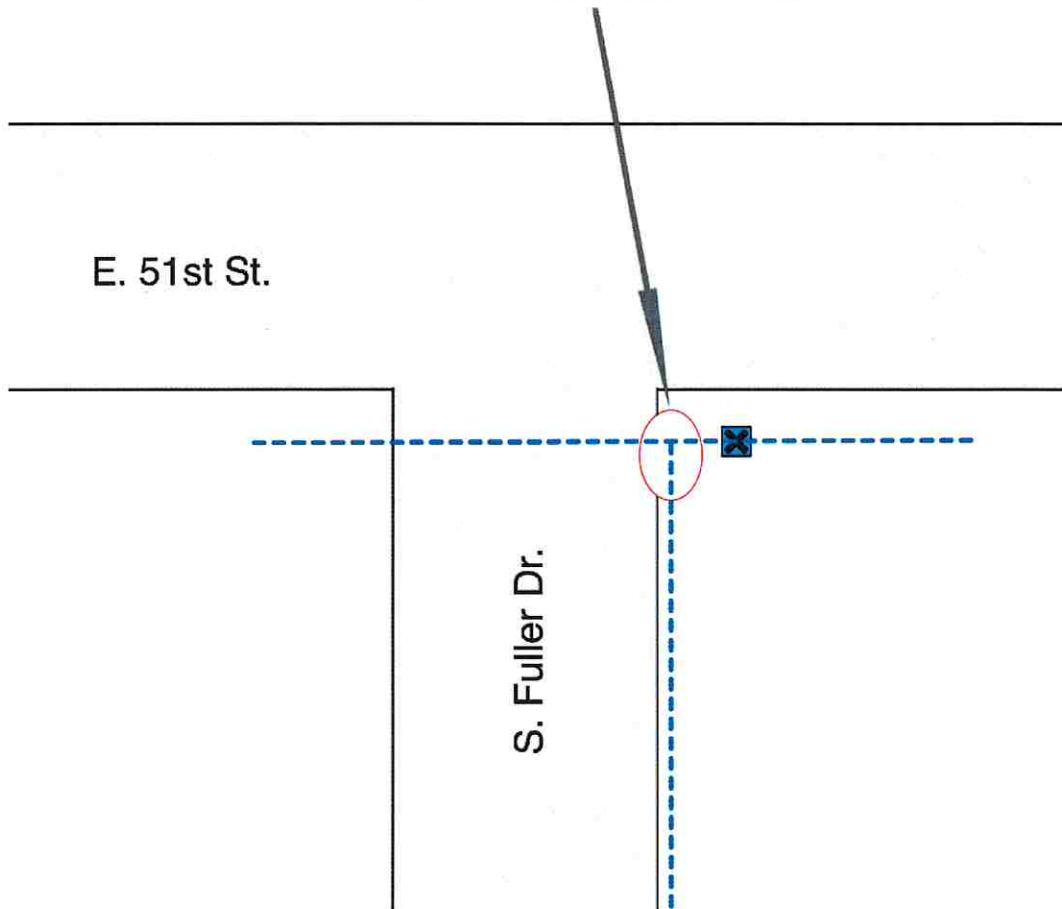
Survey 
Service 
Date - 10/20/23

Leak #  
14



### Leak Indication

Possible small main leak in this area. There was a small amount of noise on the valve shown.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
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Date Repaired

Operate stop box

YES     NO

Description of Repair



- Manhole 
- Stop Box 
- Hydrant 
- Valve 

**Raytown Water Co.**

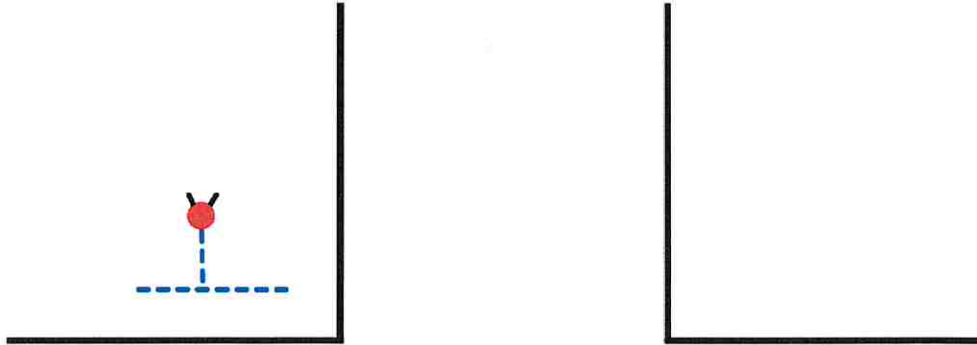
Leak #  
15

Survey       Service       Date - 10/20/23



### Leak Indication

This hydrant is leaking.



57th St.

Harris

### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

**Raytown Water Co.**

Leak #  
16

Survey       Service       Date - 10/20/23



### Leak Indication

This hydrant is leaking.

56th Terr.



10617?

#### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

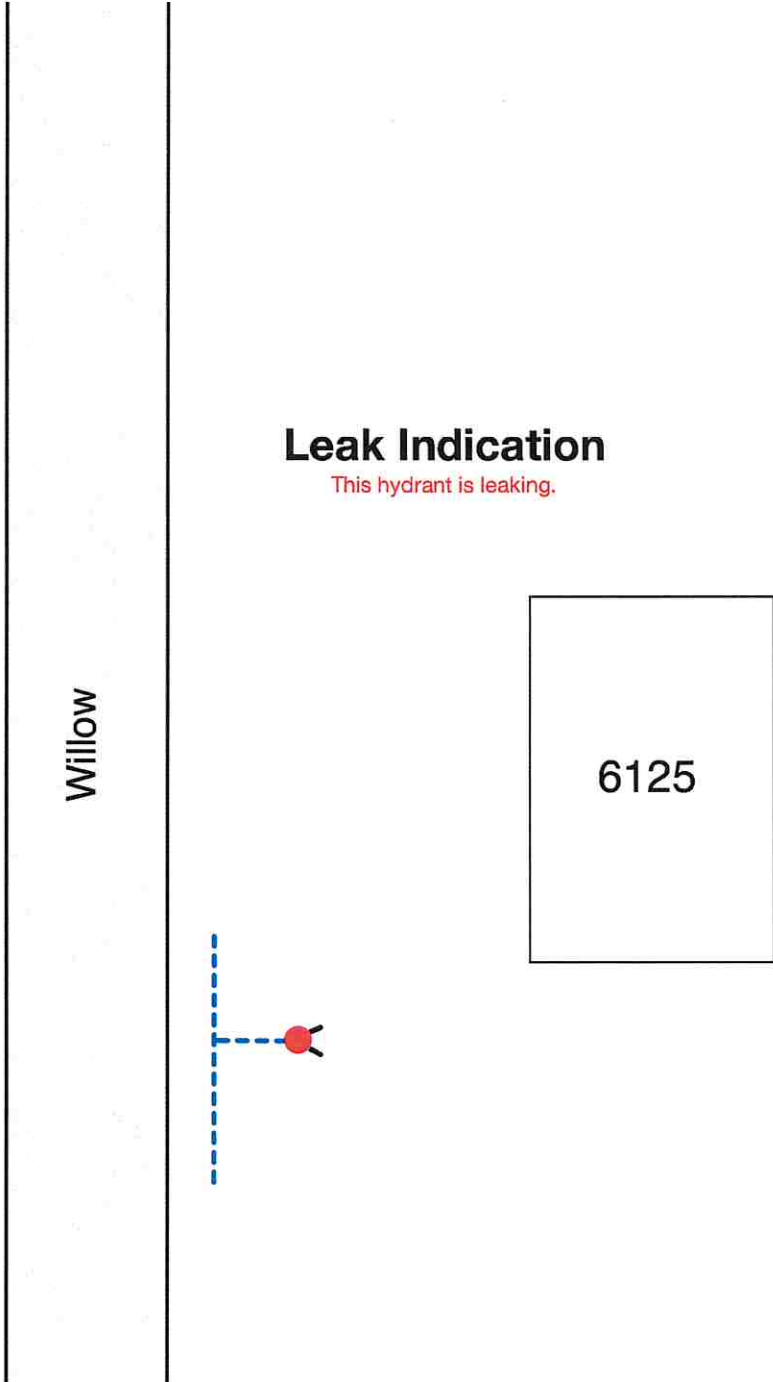
Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Co.

Leak #  
17

Survey       Service       Date - 10/20/23



## Westrum Leak Detection

3226 360th St  
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 1-888-500-4433 - 24/7

Date Repaired

Operate stop box

- YES       NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

**Raytown Water Co.**

Leak #  
18

Survey     Service     Date - 10/20/23



### Leak Indication

This hydrant is leaking.

11408

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Willow

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#### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

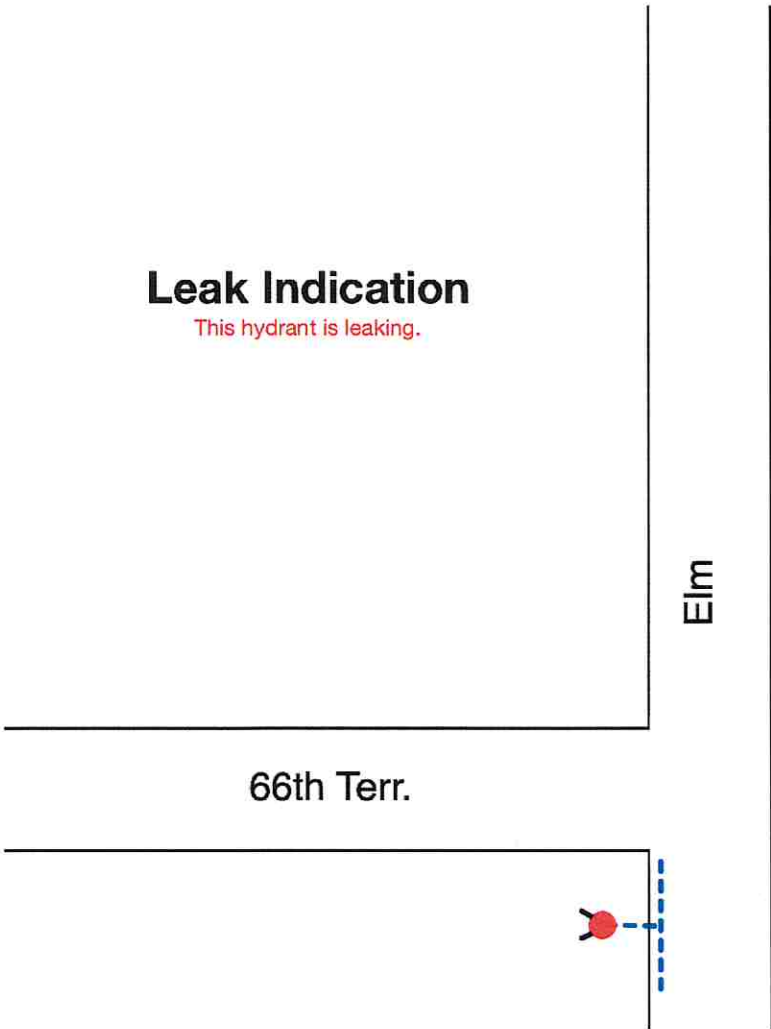
YES     NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/20/23

Leak #  
19



**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair