Fifth District

Shotspotter

Presented by

Lt. Boris TURCINOVIC

Fifth District Late Shift

What is Shotspotter?

The Shotspotter GLS detects and locates gunfire and explosive incidents. When an event is detected, data is transmitted to Shotspotter's patented location software, which properly identifies the event as gunfire, fireworks, explosion, or a non-threatening sound. All everyday sounds such as car backfires, dump trucks, and nail guns are automatically filtered, allowing users to focus on important events.
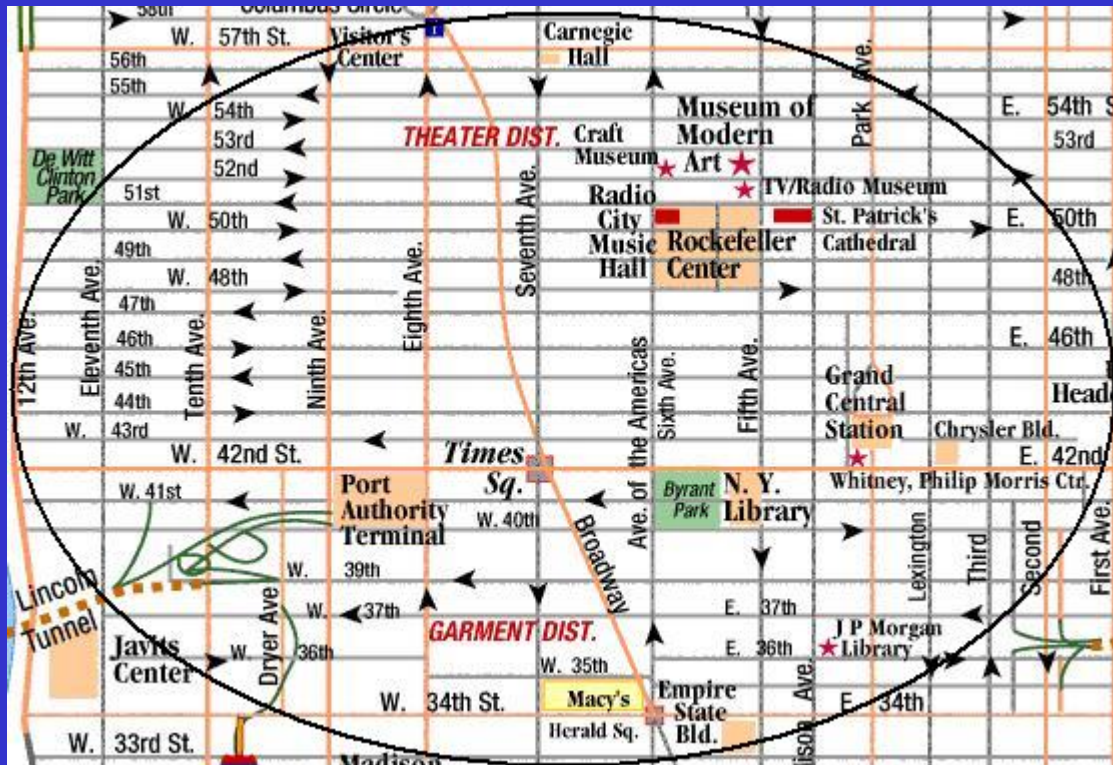
How does Shotspotter Work?

- Shotspotter location software pinpoints the location of the incident, providing an exact address, accurate up to 25 meters (82 feet). This offers responders better situational awareness, and supports strategic and tactical response.
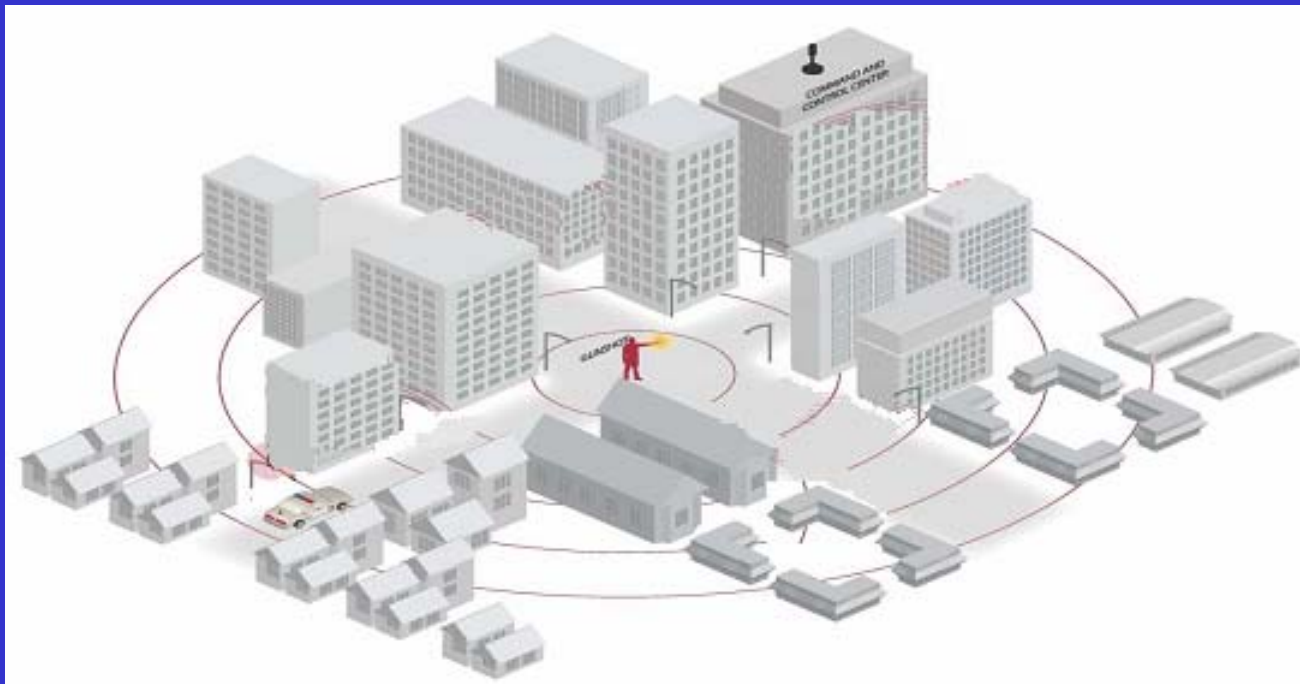
Shotspotter Boundaries

Currently, the boundaries of the Shotspotter (Oval) area is as follows: Fourteen city blocks by twenty-four city blocks. Keep in mind that the area is more like a "Cloudy" oval and the above borders are the furthest points N, S, E, & W of the circle. In other words there is coverage outside the circle, for instance as far as six city blocks, and in other areas there appears to be less coverage. This is due to the ability to pinpoint the incident, this also effects the accuracy of the system

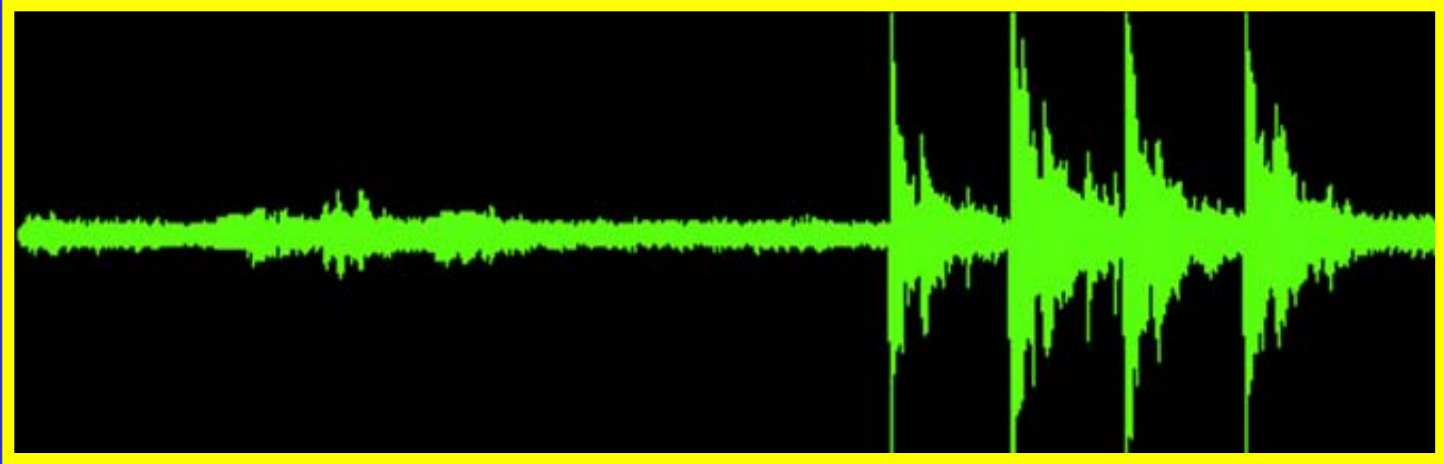# What does the Shotspotter Screen look like?

WAVE FILE CHARACTERISTICS: GUNSHOTS

SINGLE GUNSHOT

HIGH PEAKS

THICK TRIANGULAR FLOW

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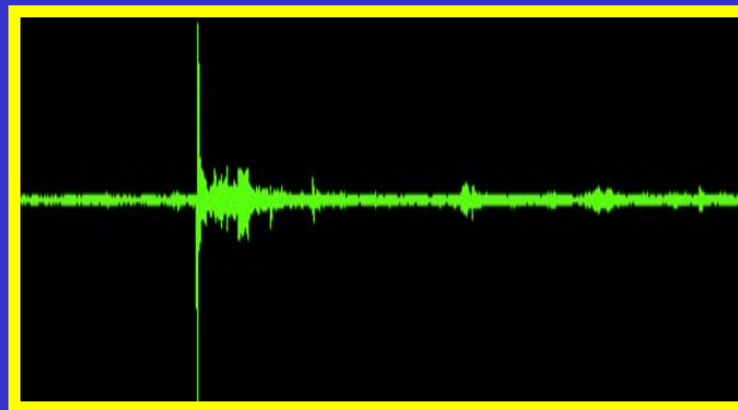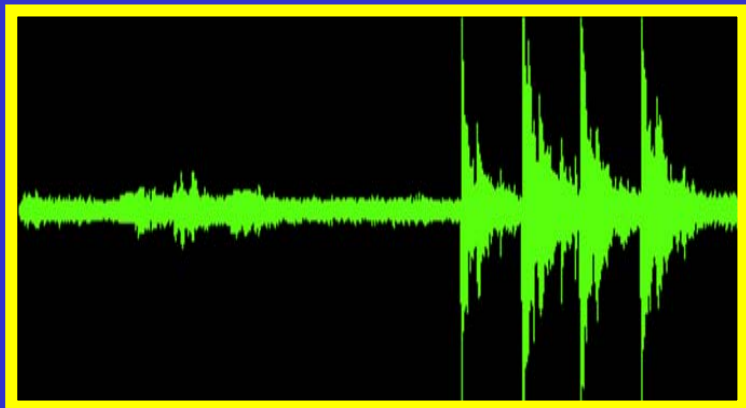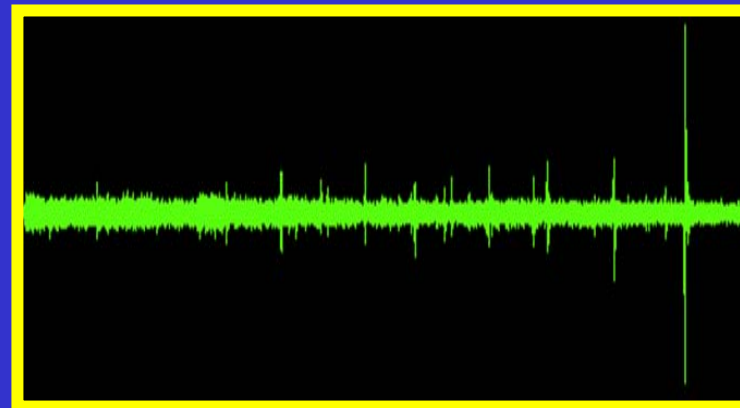
WAVE FILE COMPARISON REVIEW

GUNSHOTS
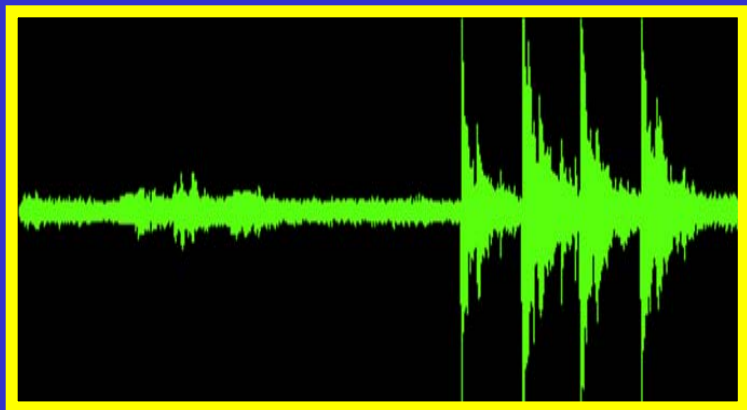
FIREWORKS

GUNSHOTS WITH SIREN

MOTORCYCLE

What does a Shotspotter CFS look like?

Detailed History for Police Call #110060072 As of 2/25/2011 03:55:30

Output for:

Priority:1 Type:1358 - SHOTSPOTTER
Location:2900 N 22ND ST,MKE
LocCross:btwn W LOCUST ST and W CHAMBERS ST

Created:	01/06/2011 00:52:20	PT04	018366
Entered:	01/06/2011 00:53:36	PT04	018366
Dispatch:	01/06/2011 00:54:30	PD10	012612
Enroute:	01/06/2011 00:54:30	PD10	012612
Onscene:	01/06/2011 00:59:55	M551	018562
Transprt:	01/06/2011 01:22:20	PD10	012612
Complete:	01/06/2011 01:25:48	M301	017807
Closed:	01/06/2011 06:14:44	PD10	012612

IC: PrimeUnit:5330 Dispo:C1 Type:1358 - SHOTSPOTTER
Agency:MWPD DAREA:D5 Squad Area:520 RptDist:2808
Case #:IR110060007 □ Detail

00:52:20	CREATE	Location:2900 N 22ND ST,MKE Type:1357 Name:D3 DAREA:D5 RptDist:2808 TypeDesc:SHOTS FIRED LocCross:btwn W LOCUST ST and W CHAMBERS ST Priority:1 Response:1PO Agency:MWPD LocType:S Contact?:EITHER Call/InPerson Language?:English
00:53:36	ENTRY	Comment:SHOTSPOTTER CALL, HAPPENED AT 12:50:53, ONE GUNSHOT, CLLR IS SGT AT D3, LISTENED TO RECORDING. *(Entered by Operator:018366 On Terminal:PT04)*
00:53:36	-NPREMS	Comment:(none)
00:53:54	SELECT	
00:54:30	DISPER	5330 Operator:018561 018562 OperNames:PAGE, MARCUS A PALMER, MATTHEW P
00:54:30	-PRIU	5330
00:54:30	-HOLD	
00:55:34	CHANGE	Type:1357-->1358 TypeDesc:SHOTS FIRED-->SHOTSPOTTER
00:56:23	*RFT	5330 Comment:INQUIRY QPER,ODOM,LONNIE,,M,B,01091961,,,,
00:56:32	INFO	Priority:1 Comment:NFI
00:56:33	NOMORE	
00:59:55	*ONSCN	5330
01:08:42	BACKOS	5366 UnitID:5330 Location:2901 N 23RD ST,MKE Operator:017807 018028 OperNames:TICCIONI, RICHARD M THIMM,CRAIG J Comment:HAVE A C1 FROM THE TAVERN CK RE: THE SHOTSPOTTER
01:08:42	BACKOS	5365 UnitID:5330 Location:2901 N 23RD ST,MKE Operator:017089 009125 OperNames:FAGER, NATHAN H BOYACK, CHAD E Comment:HAVE A C1 FROM THE TAVERN CK RE: THE SHOTSPOTTER
01:11:37	*RFT	5366 Comment:INQUIRY QPER,ANDERSON,DEMETRIUS,L,M,B,03201973,,,,
01:14:34	*CLEAR	5330 Dispo:C18 DispoLevel:0 Comment *(Entered by Operator:017807 On Terminal:M301)*
01:19:16	*RFT	5366 Comment:INQUIRY QVEH,,805EVG,PC,11,,,
01:19:28	*RFT	5366 Comment:INQUIRY QVEH,,905EVG,PC,11,,,
01:22:04	CASE	5366 Incident#:IR110060007 Comment:017807
01:22:20	TRANSP	5366 Location:D5 #C1,MKE
01:22:23	CHGLOC	5365 Location:D5,MKE
01:25:48	*CMPLT	5366
02:50:05	ONSCN	5365
04:59:54	CLEAR	5365 Dispo:C8 DispoLevel:0
05:30:48	CHGLOC	5366 Location:ID,MKE Comment:CVING PROPERTY TO B OF I
05:38:48	ONSCN	5366
06:14:27	CLOS	5366 Location:D5,MKE
06:14:44	CLEAR	5366 Dispo:C1 DispoLevel:0
06:14:44	-CLEAR	
06:14:44	CLOSE	

CONTACT INFO:

Name	Phone	RPaddr	Contact?	Language?	Contact3	Contact4
D3			EITHER Call/InPerson	English		

Shotspotter VS Violent Crime-January 2011
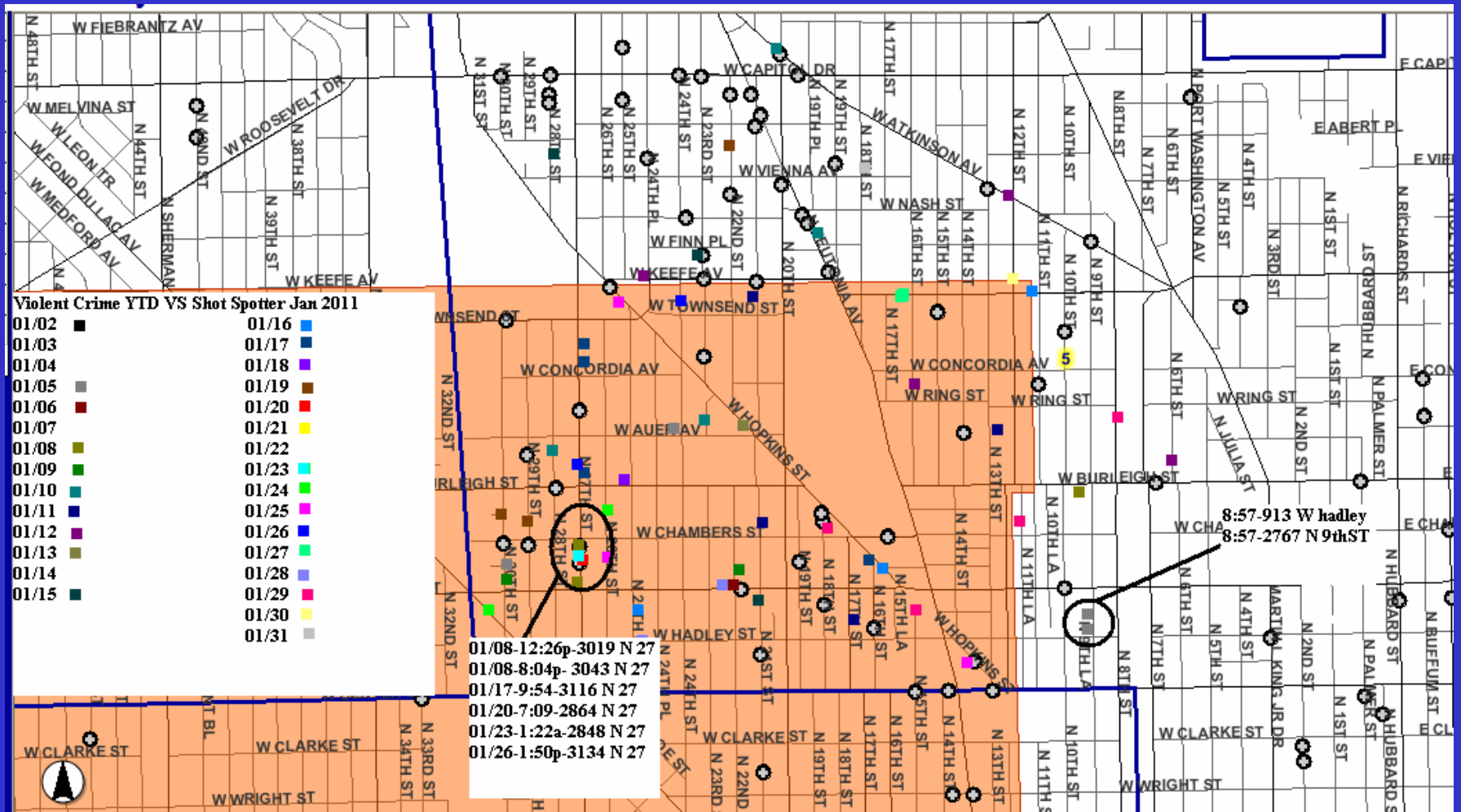
Shooting at 3043 N 27 on the 8th

1st Call was at 913 W Hadley, the second call shows suspect travelling N on N. 9th ST

How many CFS does Shotspotter generate?

- As of my query today, Thursday, June 23rd, 201 at 7:20 AM the Shotspotter as generated 864 call for service:

- 16 resulted in Adult Arrests

- 2 resulted in Juvenile Arrests

- 50 reports generated

- Assisted in the investigation of 10 shootings

Future Uses for Shotspotter

On Thursday, Jan. 27th, personnel from District Three, Five, and CIB were trained by the Shotspotter Corporation in identifying different sounds to determined gun fire for use in investigations. Eventually Shotspotter capable computers will be installed at the Districts and CIB so data can be directly extracted from the system. The Shotspotter corporation has also been in Milwaukee doing "test" firings for dispatch personnel to better determine which sounds are firearms and which are not.
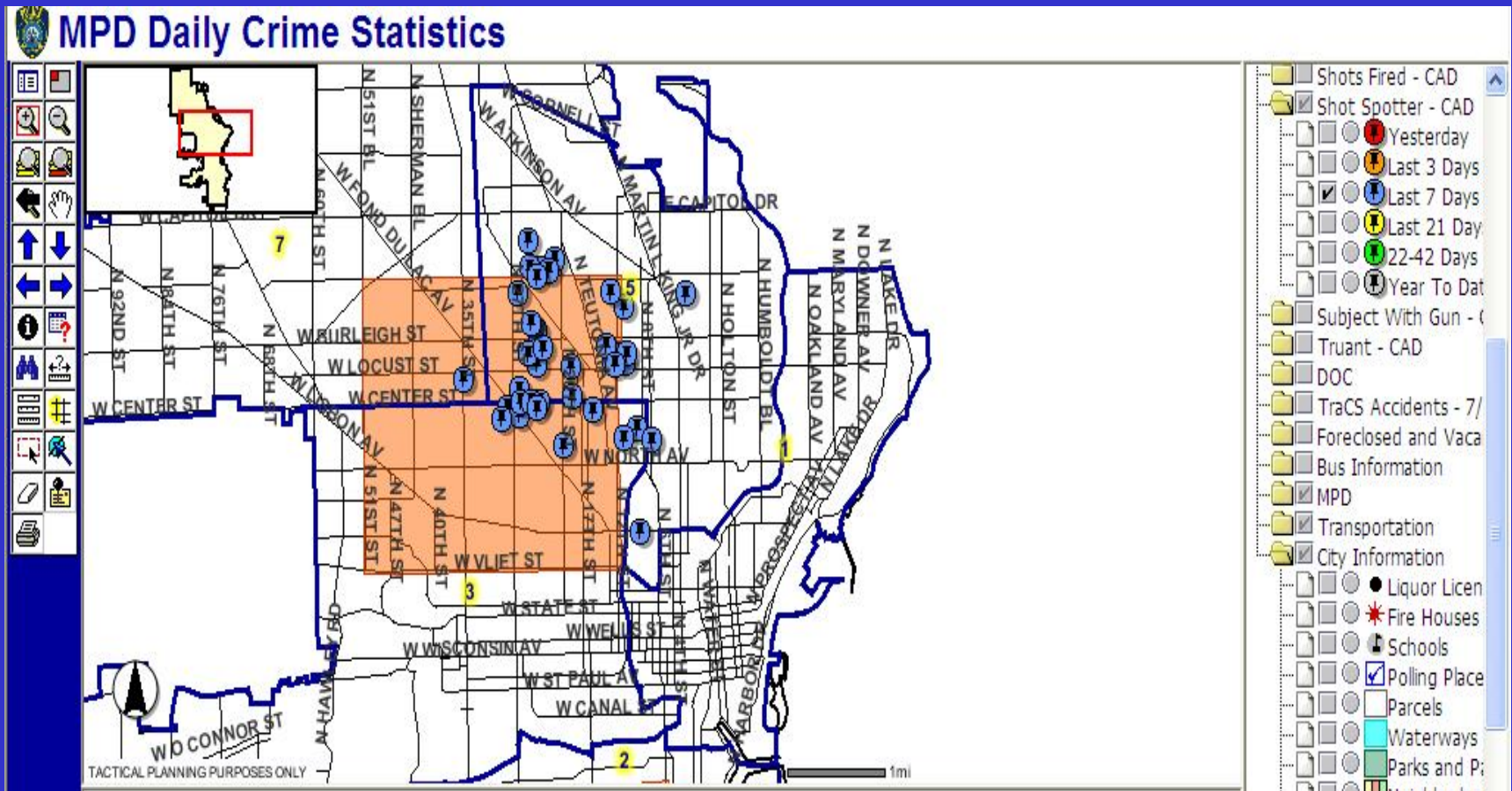
The Future is Now! Shotspotter in use at the district level

Shots fired per the CAD
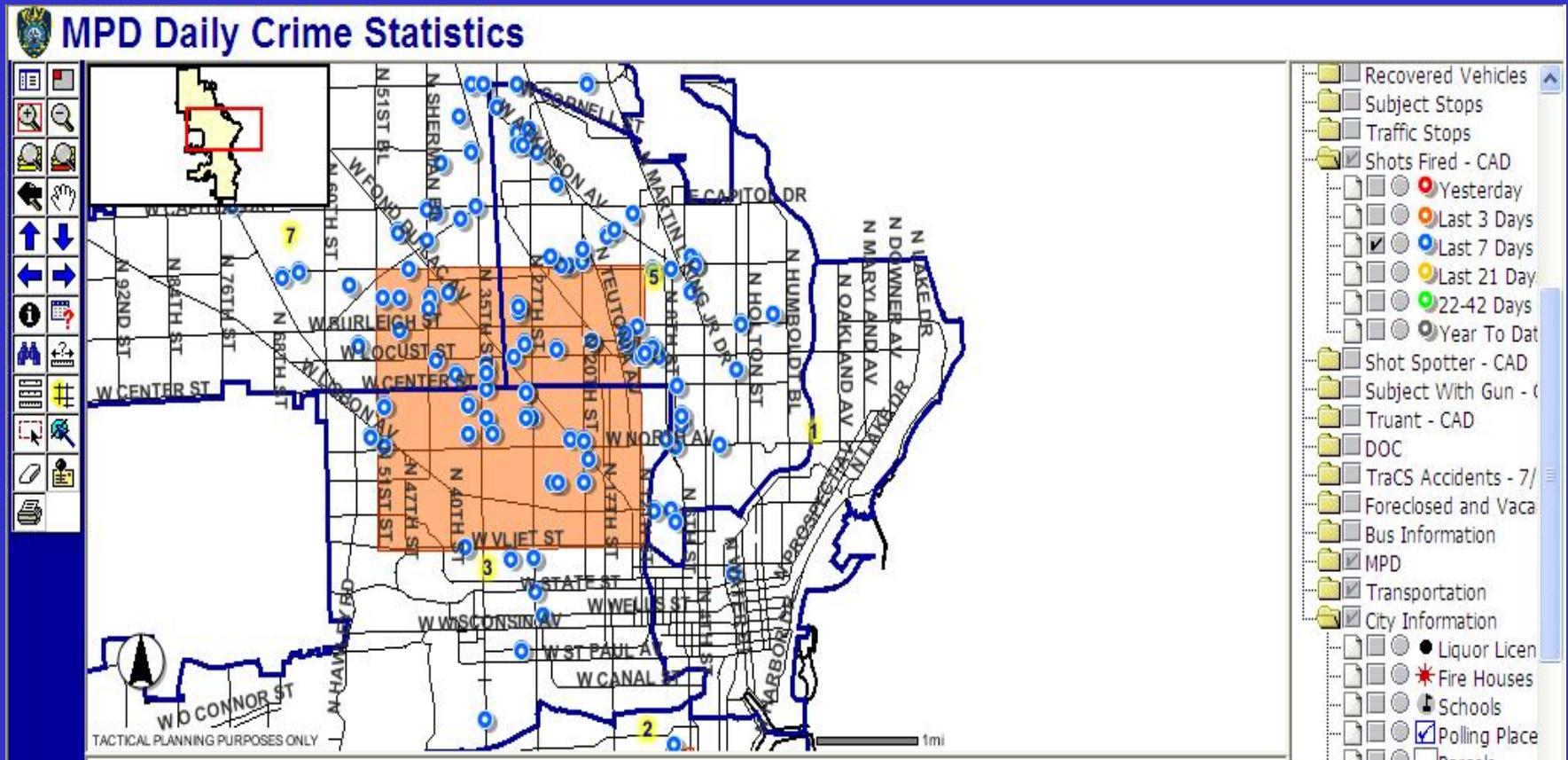
The Future is Now! Shotspotter in use at the district level

Shotspotter per the CAD

Overall Assessment of Shotspotter

Shotspotter is valuable tool in the detection and reduction of violent crime in the coverage area. It allows us to respond to shots fired calls in real time and to approach possible deadly force incidents in a safe tactical manner.

Any Questions?

Thank you to the District FIVE CLO's, and Officer KRUSCHKE and PALMER for assisting me in preparing this update.