

# **STANDARDIZED ENVIRONMENTAL ASSESSMENT**

## **Attachment 1, Sinkhole Location Maps 2005-2015**

Prepared by

North Dakota Public Service Commission

In Cooperation with

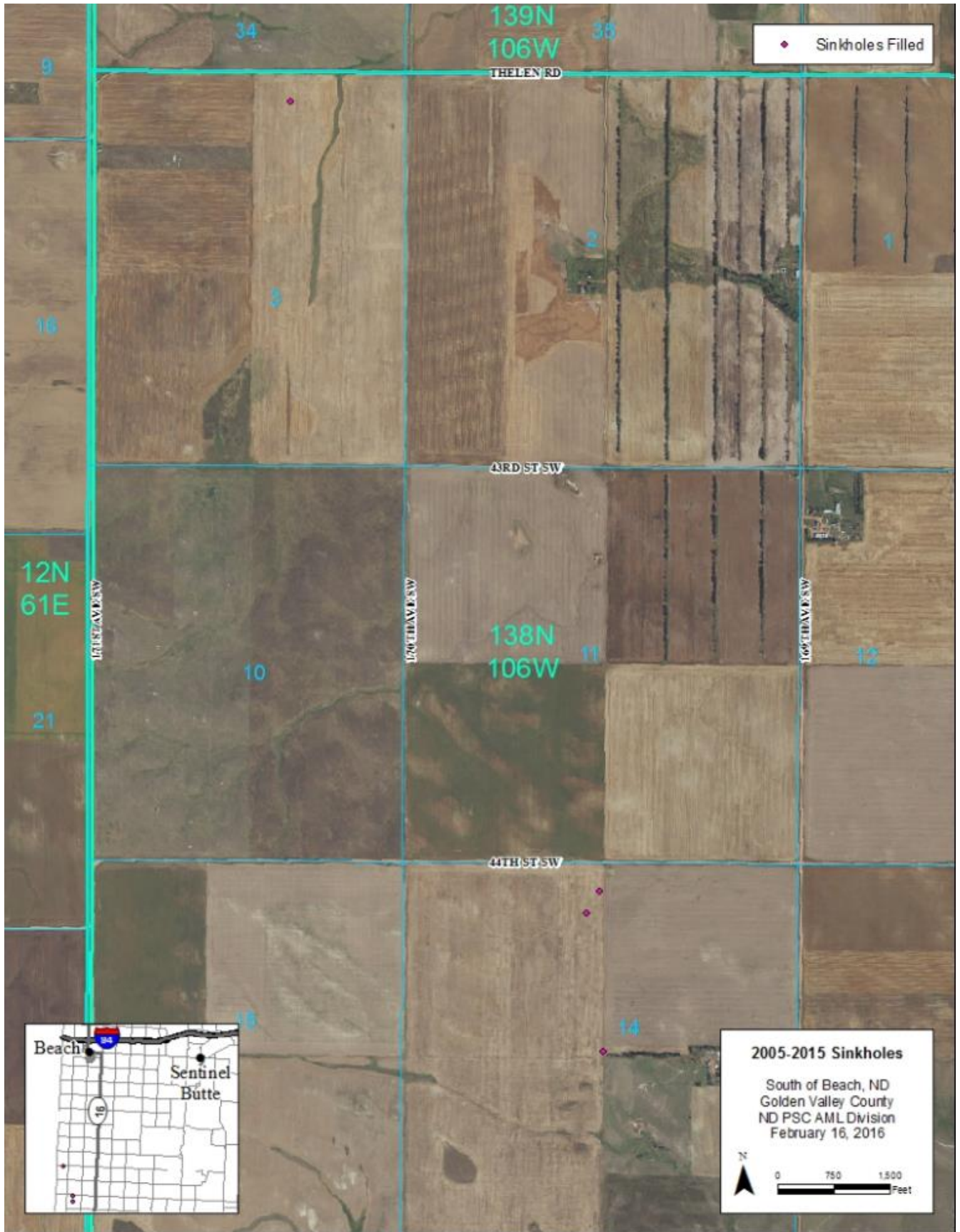
United States Department of the Interior  
Office of Surface Mining Reclamation and Enforcement  
Casper Field Office

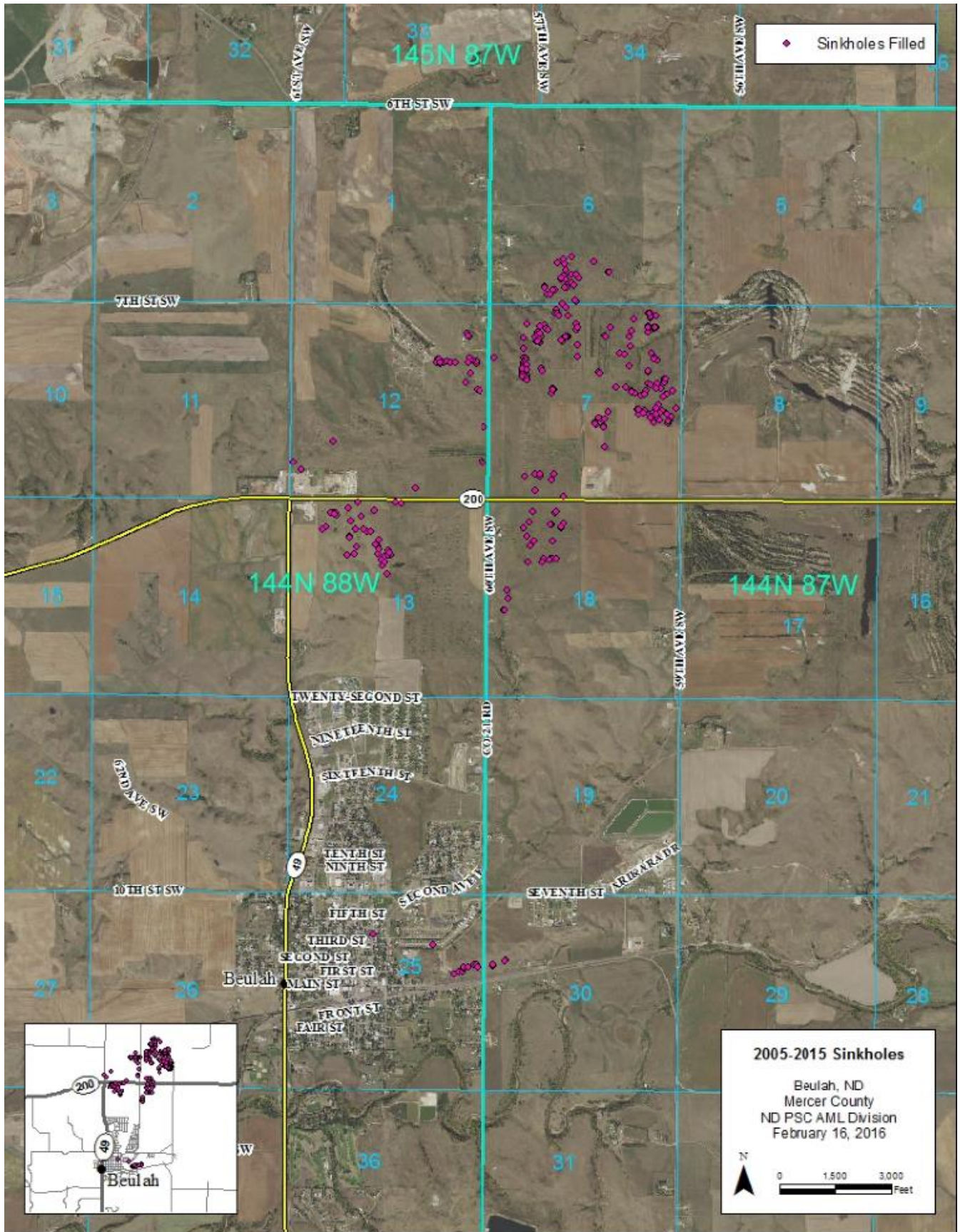
September 2016

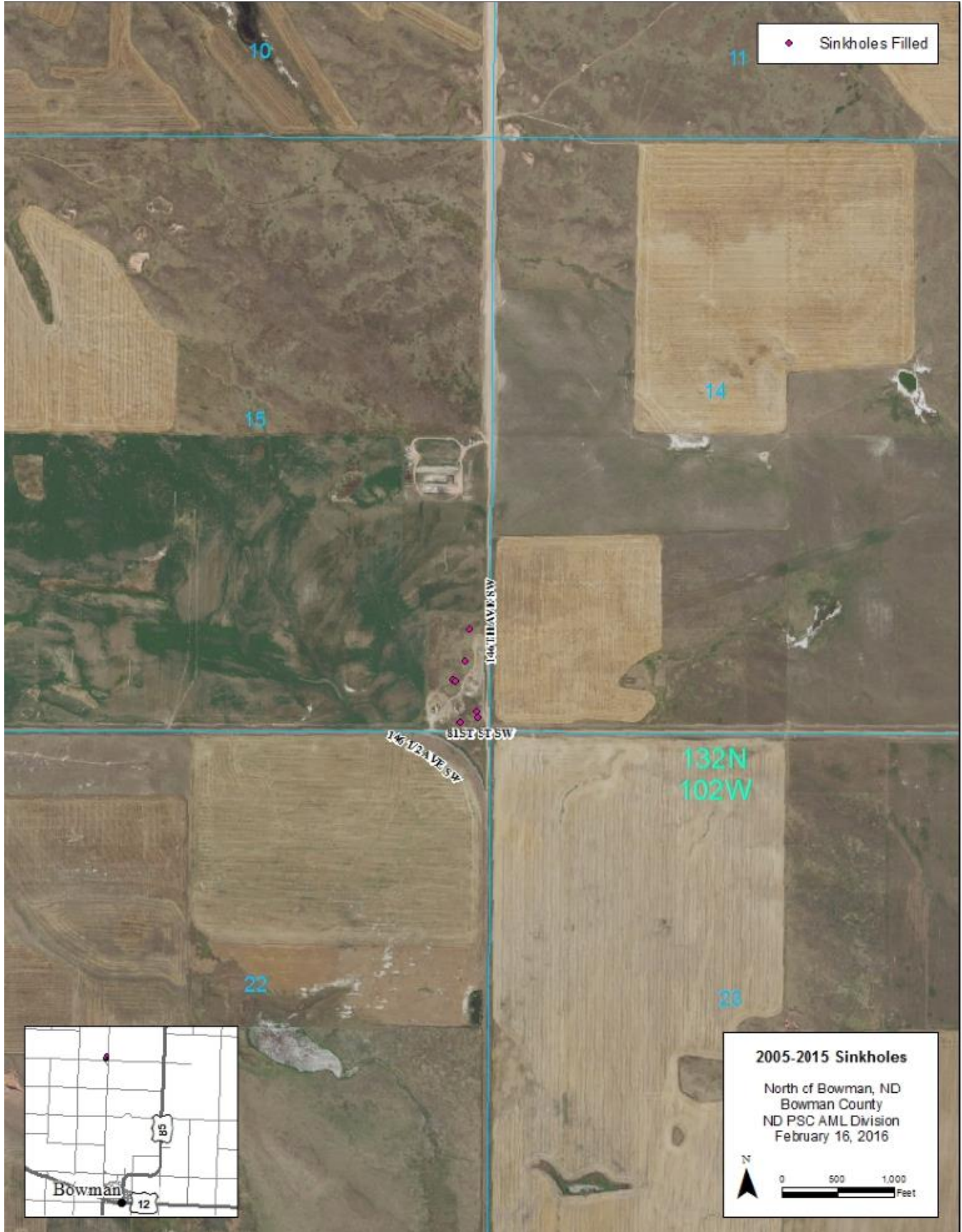
Note to users:

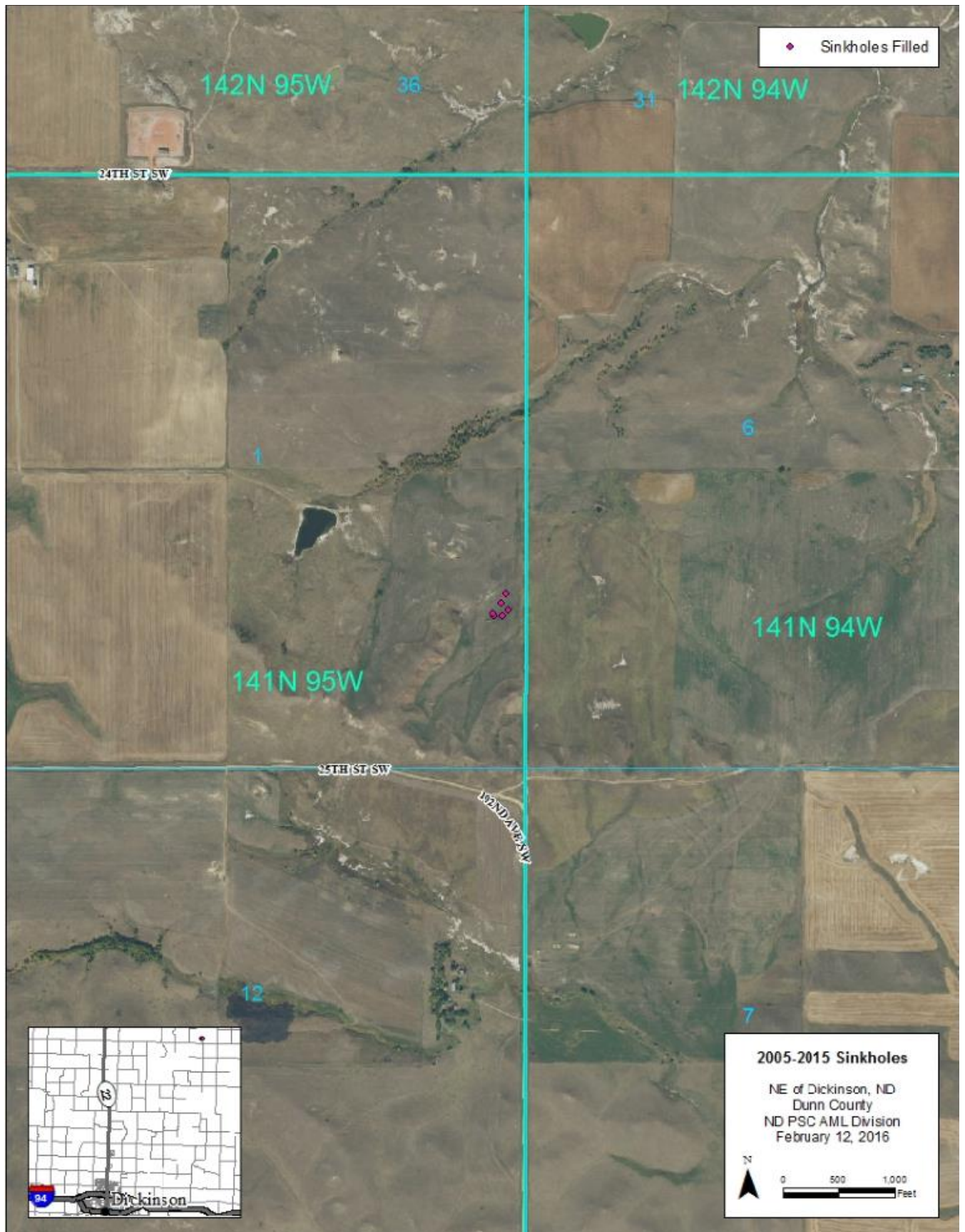
It is impossible to predict where mining-related sinkholes will occur during the period from 2017 to 2021. This appendix contains maps of some locations where sinkhole filling projects have been conducted in the past ten years. We expect most sinkholes that occur between 2017 and 2021 will be at or near these locations.

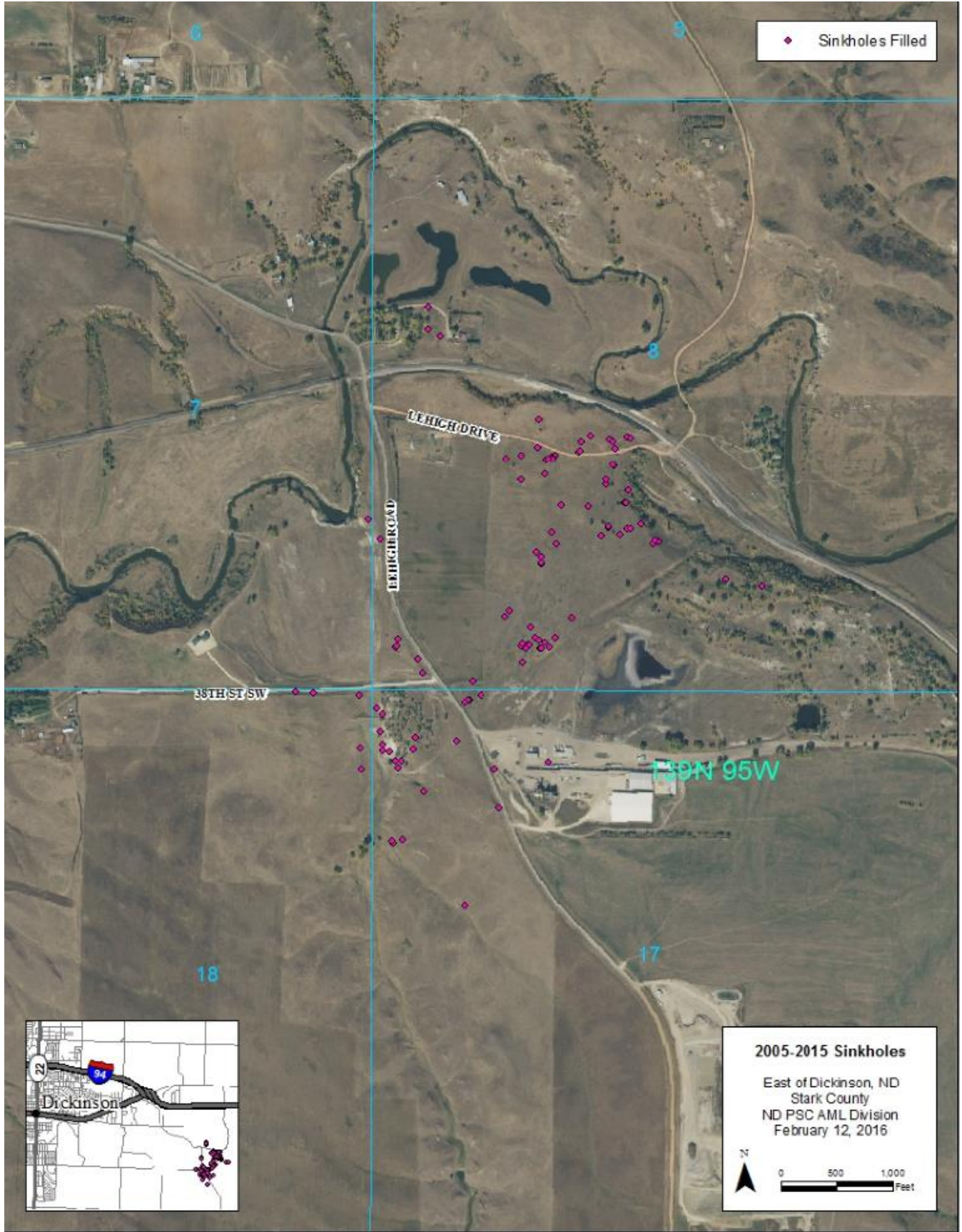
<b>North Dakota Sinkhole Filling Project Locations 2005-2015</b>						
<b>Location</b>	<b>PA Name</b>	<b>PA Number</b>	<b>County</b>	<b>Township</b>	<b>Range</b>	<b>Section(s)</b>
Beach	Sokolski	ND009	Golden Valley	138	106	3, 14
Beulah	Beulah	ND014	Mercer	144	87	6, 7, 18, 30
				144	88	12, 13, 25
Bowman	Andrews Lake	ND033	Bowman	132	102	15
Dickinson	Jablonsky	ND146	Dunn	141	95	1
Dickinson	Binek	ND024	Stark	139	95	8, 17, 18
Garrison	Garrison	ND019	McLean	148	84	17, 18
Hanks	Hanks	ND147	William	159	101	17
				159	102	12
Haynes	Haynes	ND124	Adams	129	94	16
New Leipzig	Ruck	ND026	Hettinger	134	91	24
New Leipzig	New Leipzig	ND030	Grant	133	90	10
New Salem	Mad Dog	ND053	Morton	139	85	7
New Salem	New Salem	ND054	Morton	139	85	15
Niobe	Niobe	ND938106	Ward	160	89	20
Noonan	Noonan	ND029	Divide	162	95	9, 10
Parshall	Parshall	ND090	Mountrail	152	89	19
				152	90	13
Regent	Havelock	ND023	Hettinger	134	95	10
Richardton	Abbey	ND025	Stark	139	92	3, 4
Scranton	Scranton	ND528	Bowman	131	100	24
	South Scranton	ND003	Bowman	131	100	26
Velva	Buechler	ND004	Ward	152	81	28, 29
Washburn	Black Diamond	ND006	McLean	144	83	10, 11
Williston	Williams Co. 9	ND111	Williams	154	100	7, 22
Williston	West Williston	ND046	Williams	154	102	5, 7, 8
				155	102	26
Wilton	Wilton	ND001	Burleigh	141	79	2
				142	79	5, 6, 8, 11, 16
				143	79	36
				142	80	1, 22
Zap	Beulah/Zap	ND014	Mercer	144	80	17, 22, 23, 25, 26









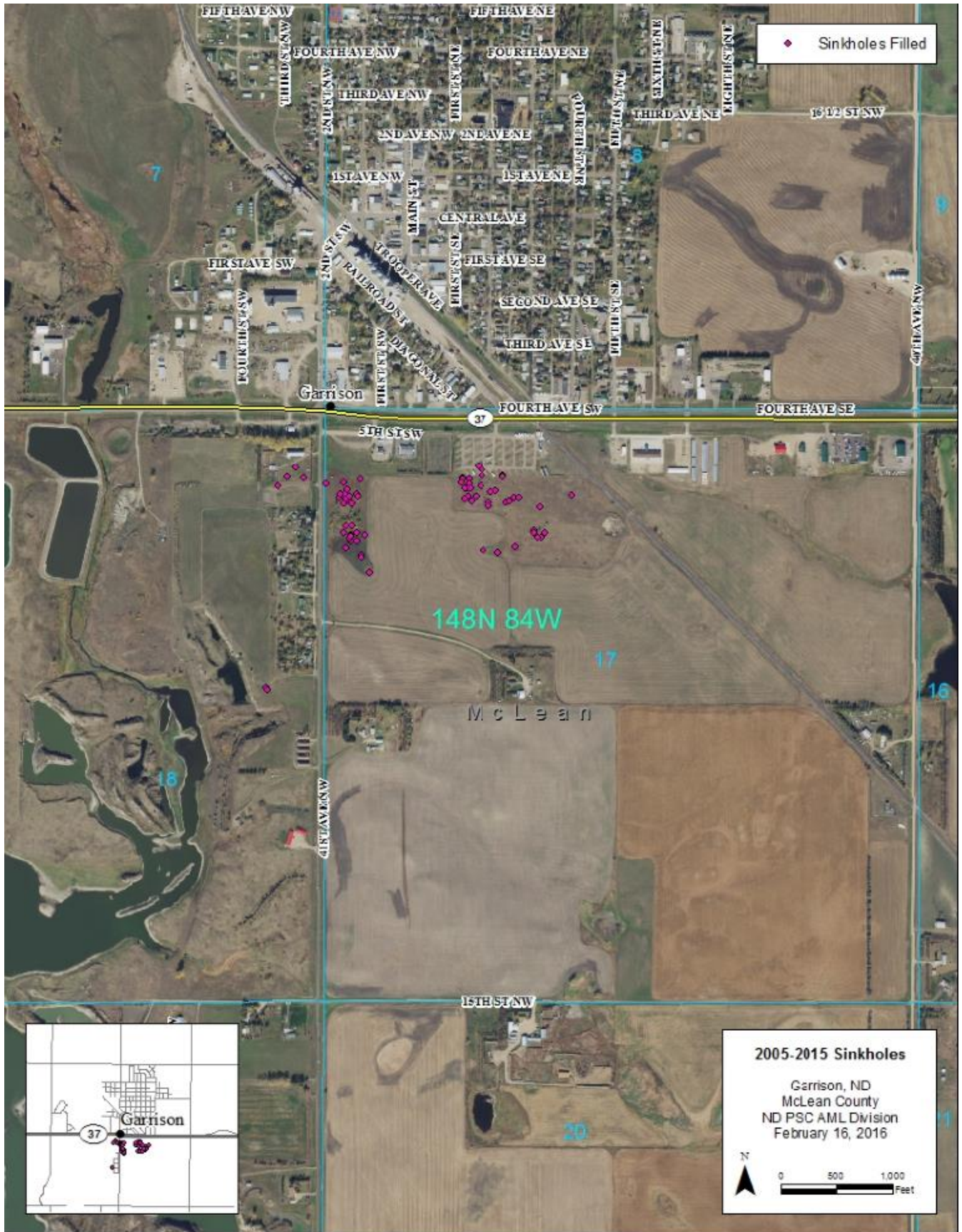


◆ Sinkholes Filled

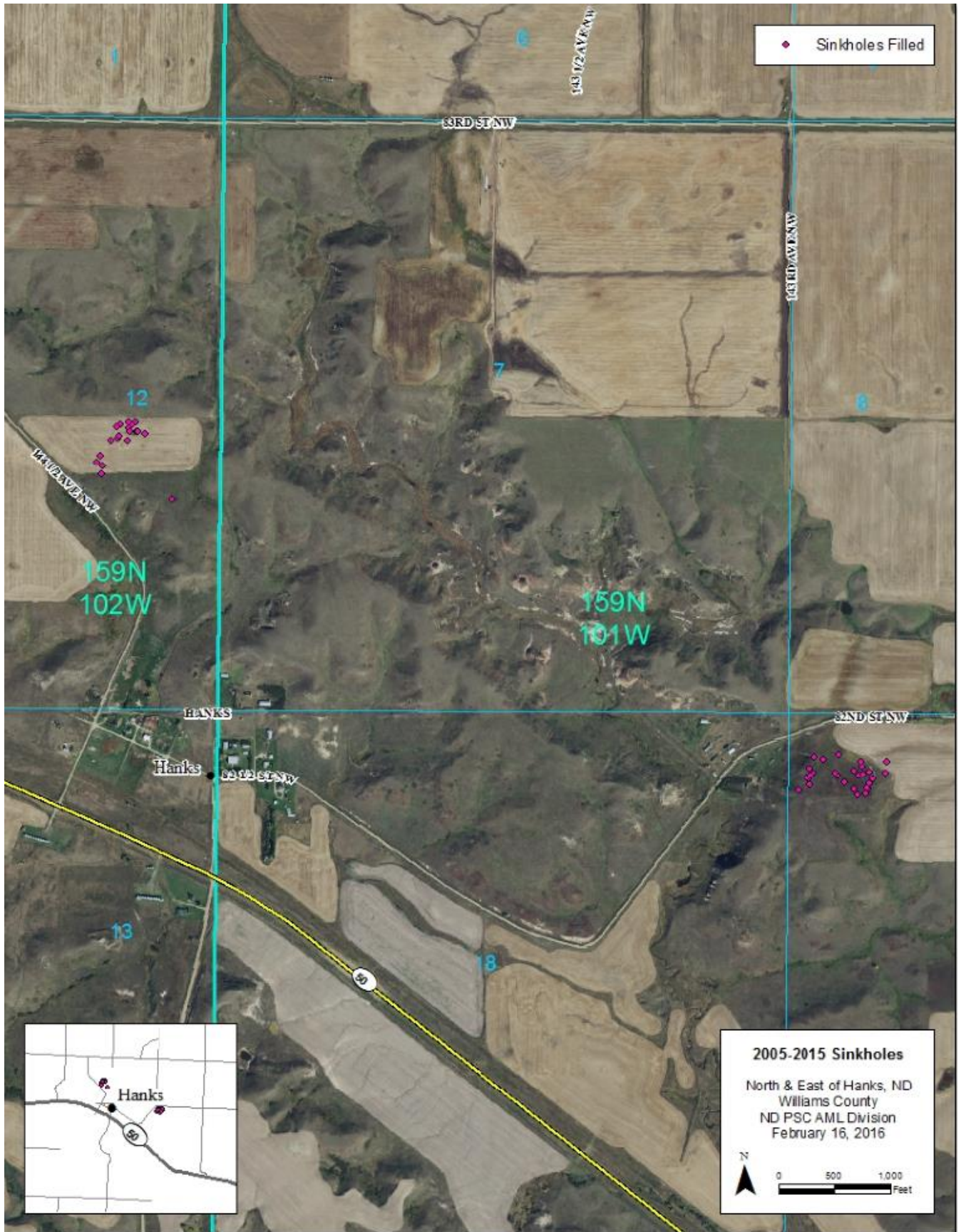
**2005-2015 Sinkholes**

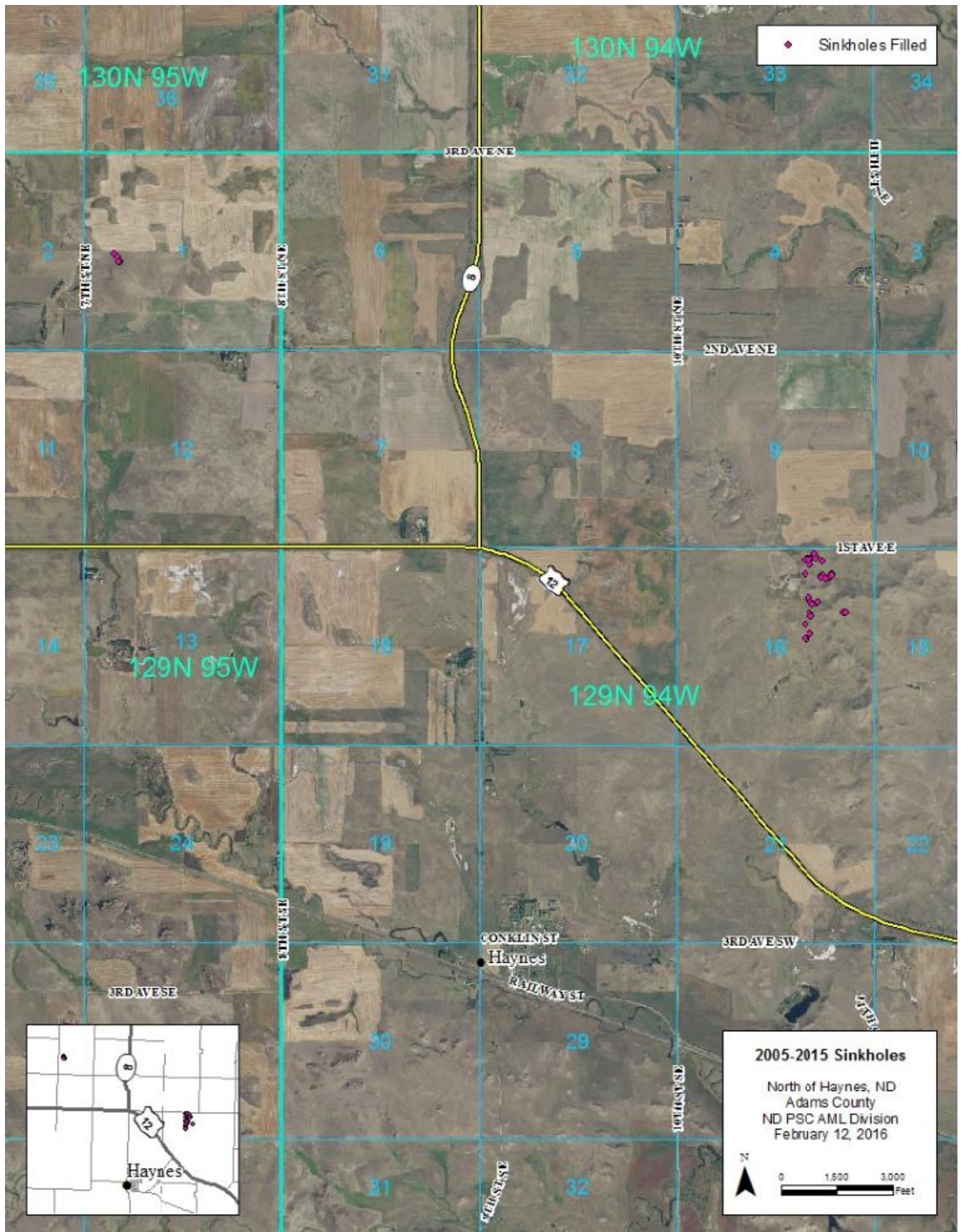
East of Dickinson, ND  
Stark County  
ND PSC AML Division  
February 12, 2016

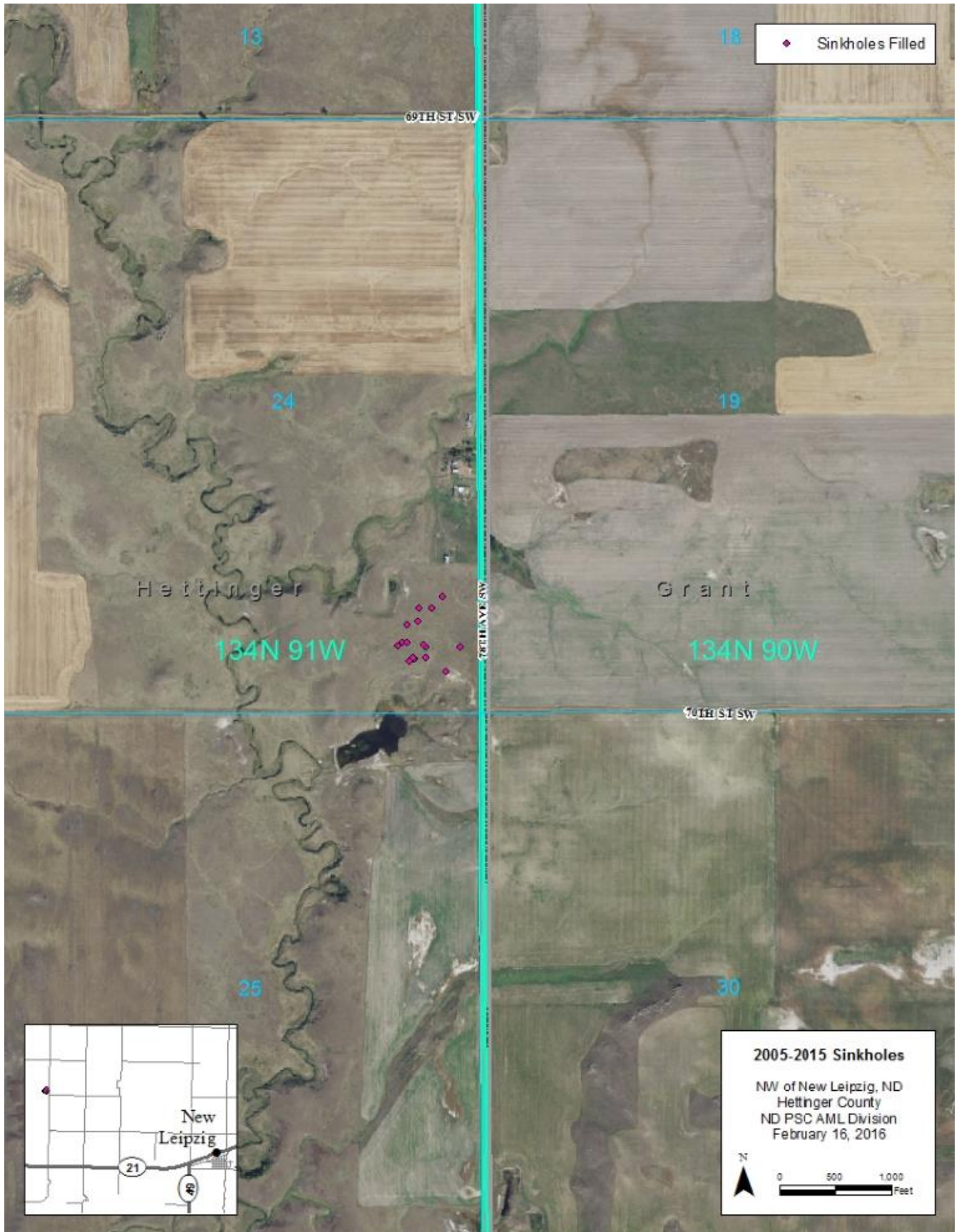




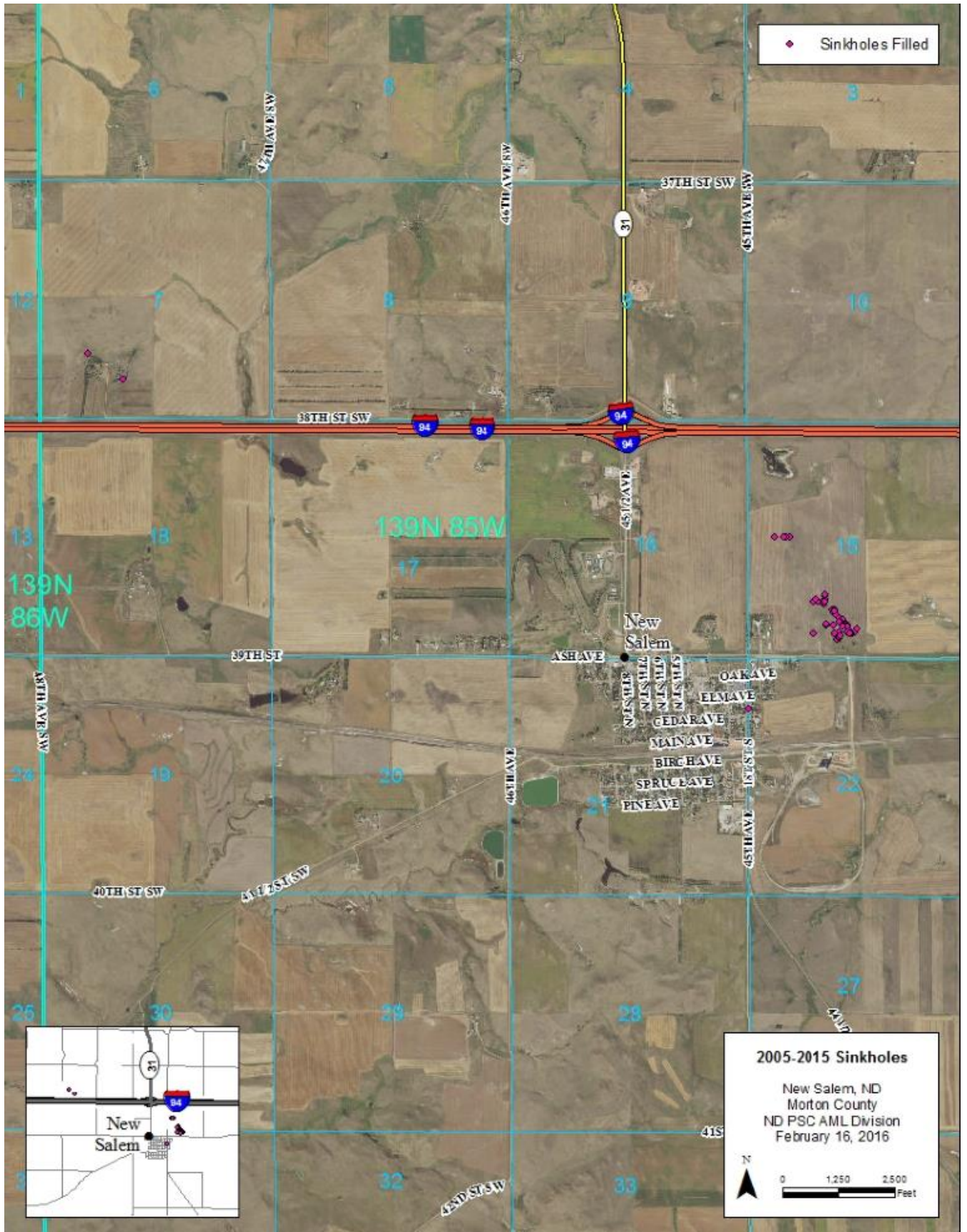




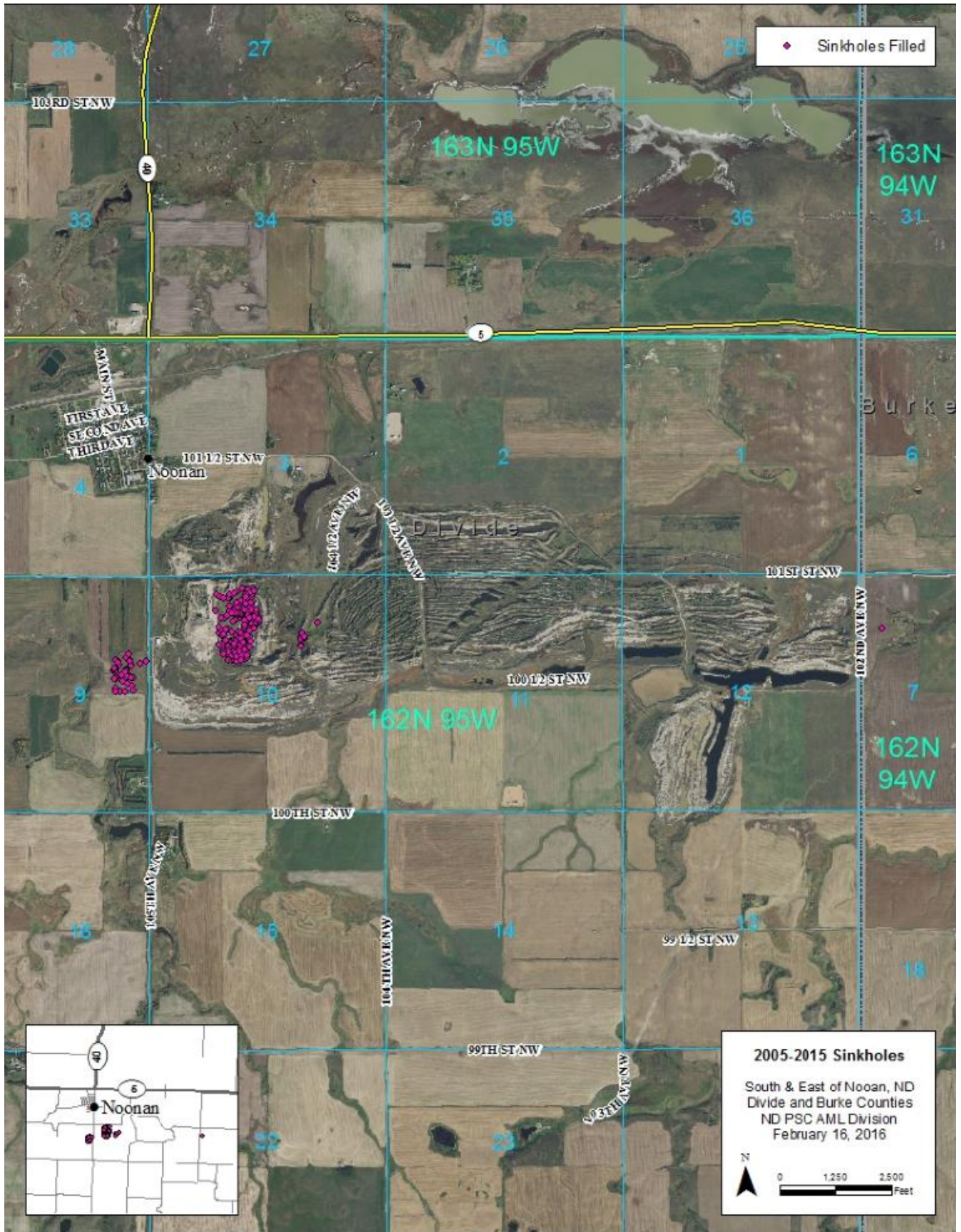








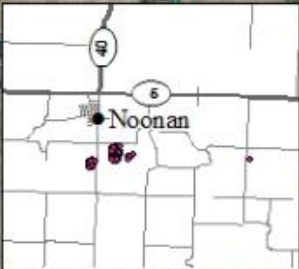


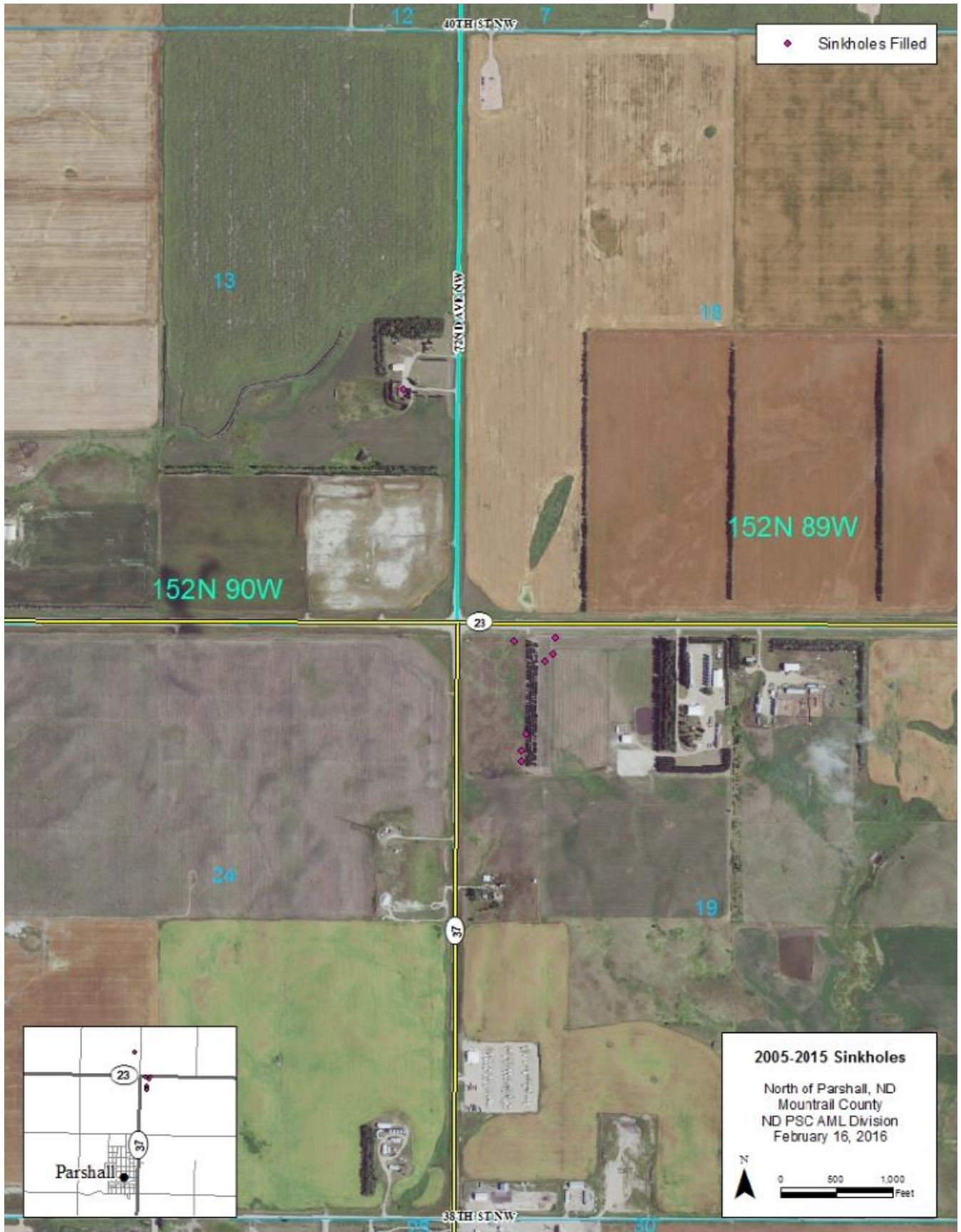


◆ Sinkholes Filled

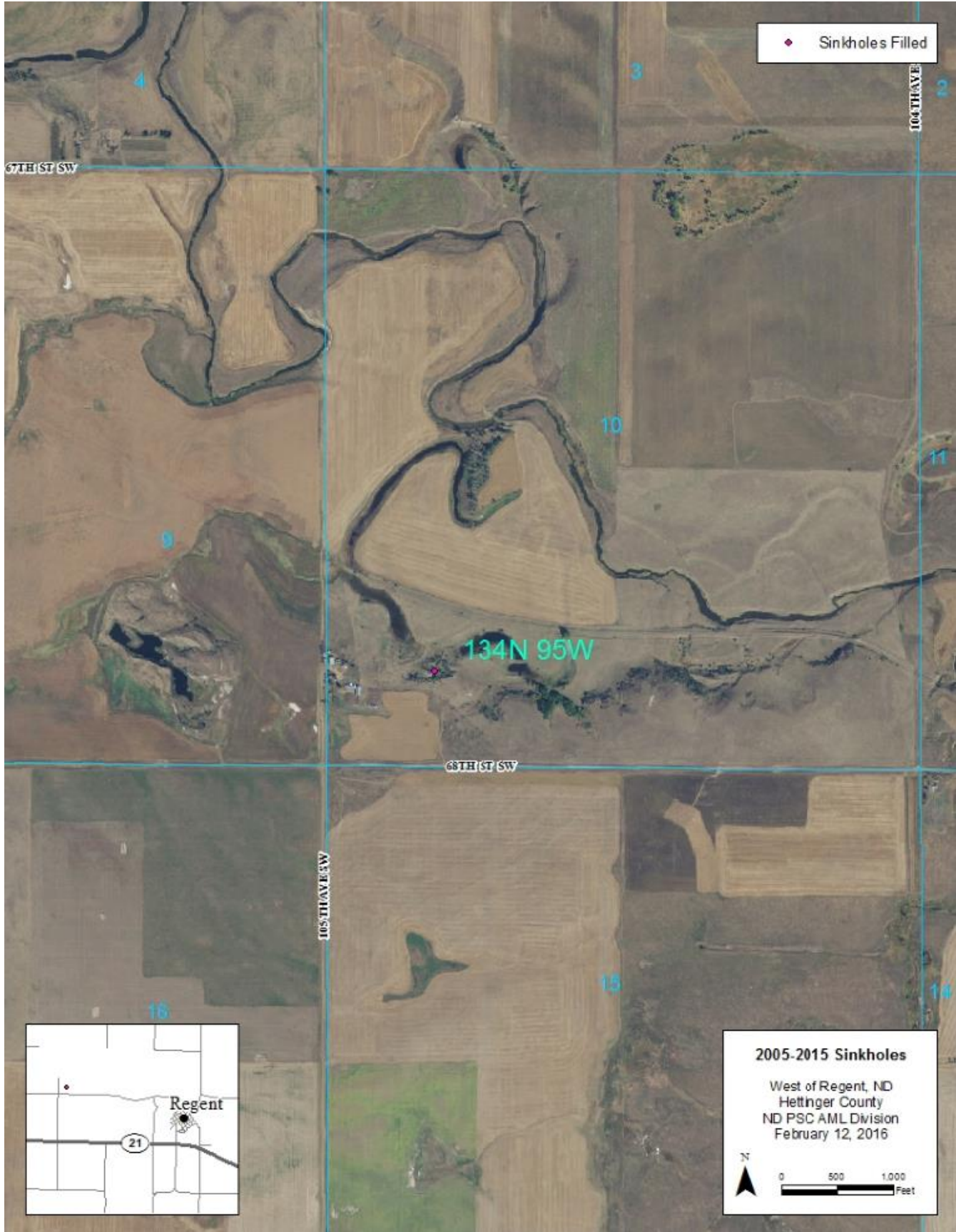
**2005-2015 Sinkholes**  
 South & East of Noonan, ND  
 Divide and Burke Counties  
 ND PSC AML Division  
 February 16, 2016

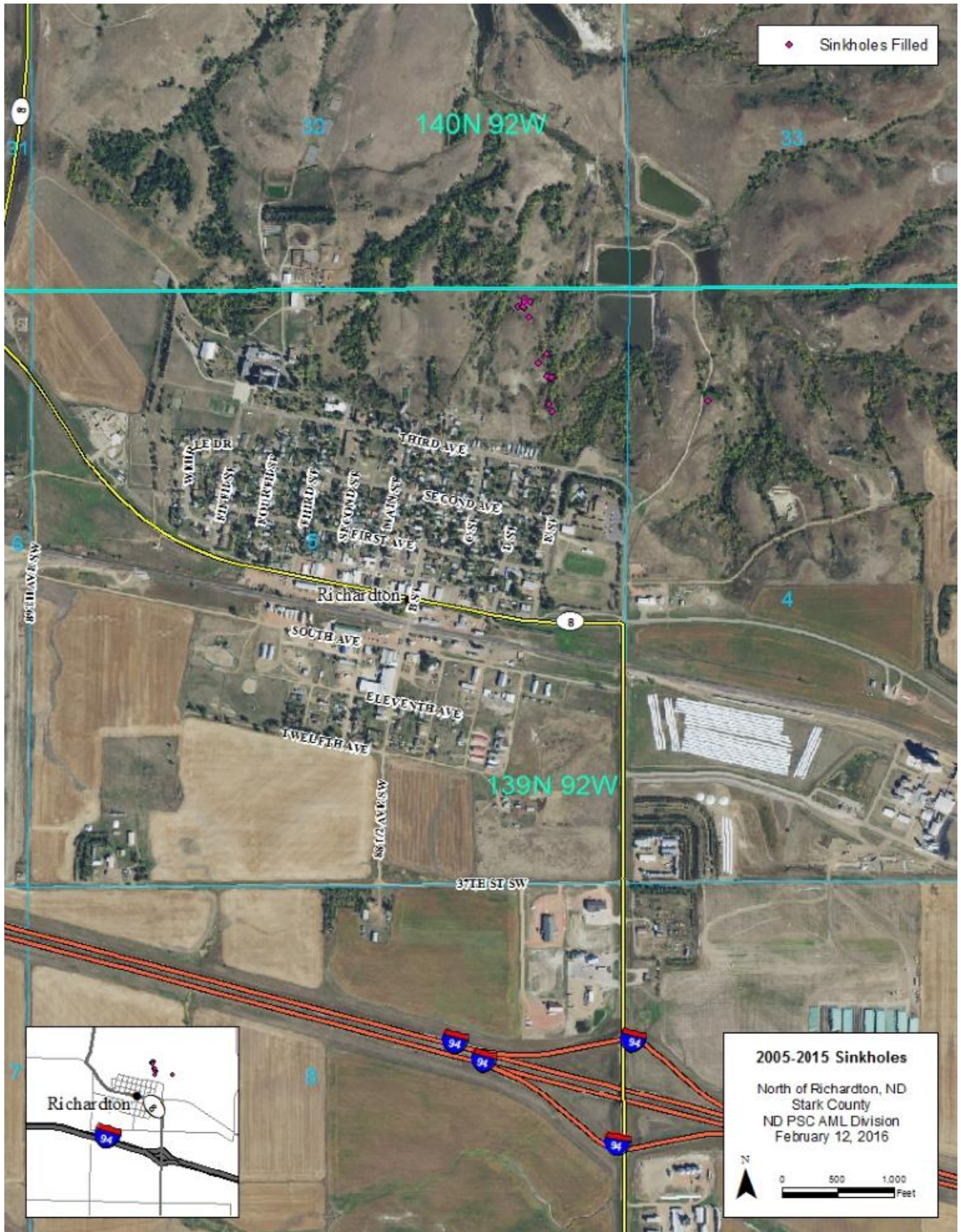
N  
 0 1,250 2,500  
 Feet



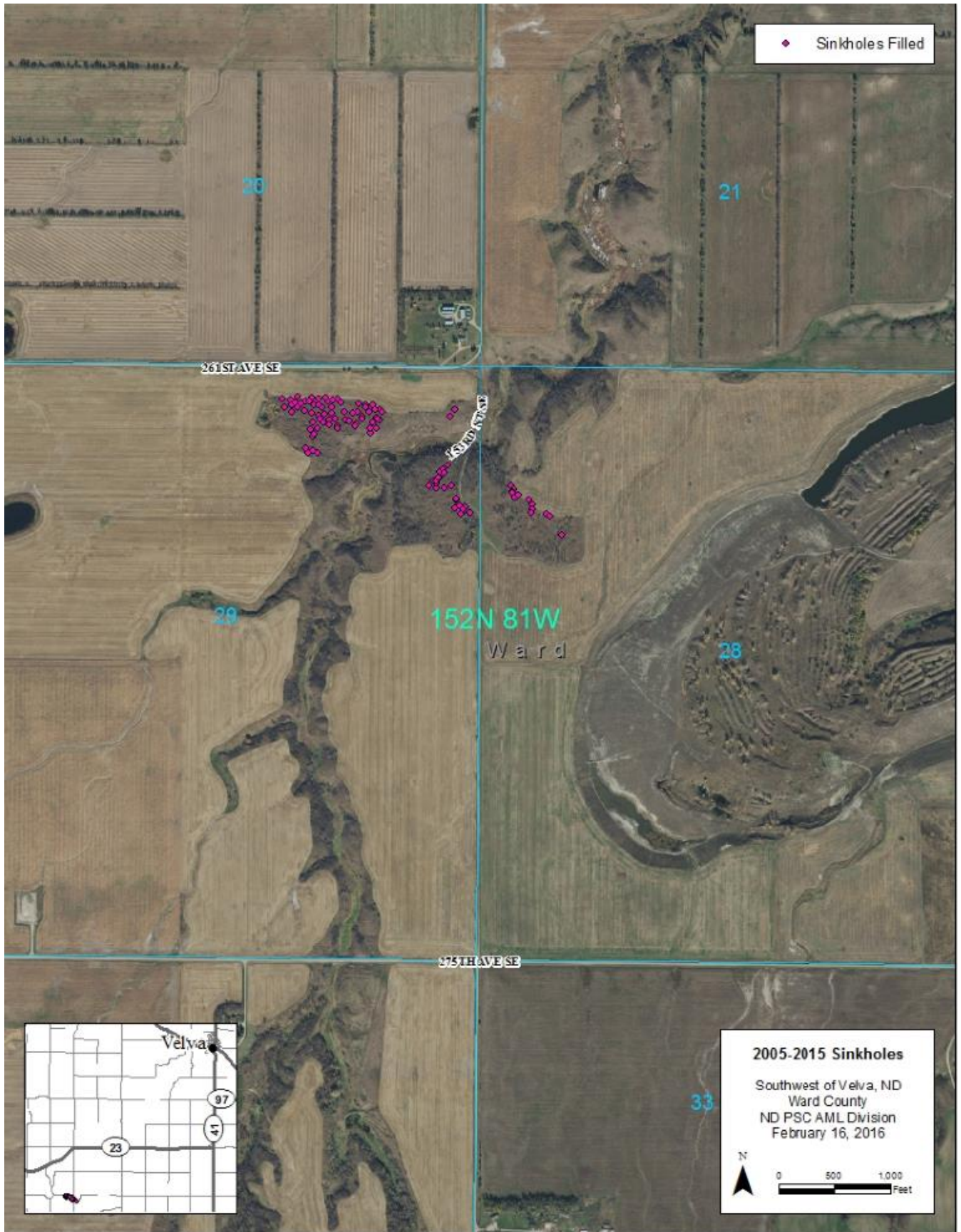


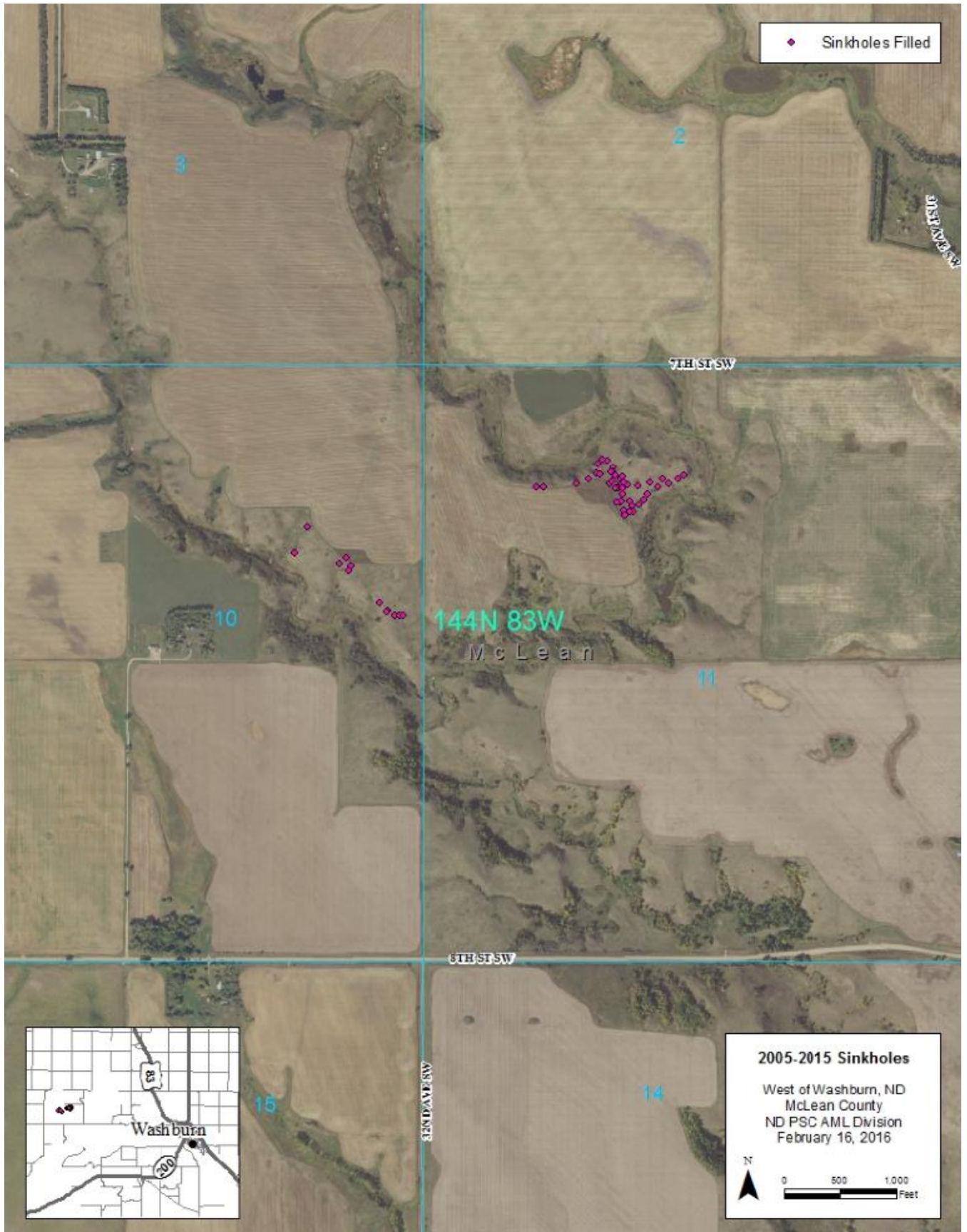


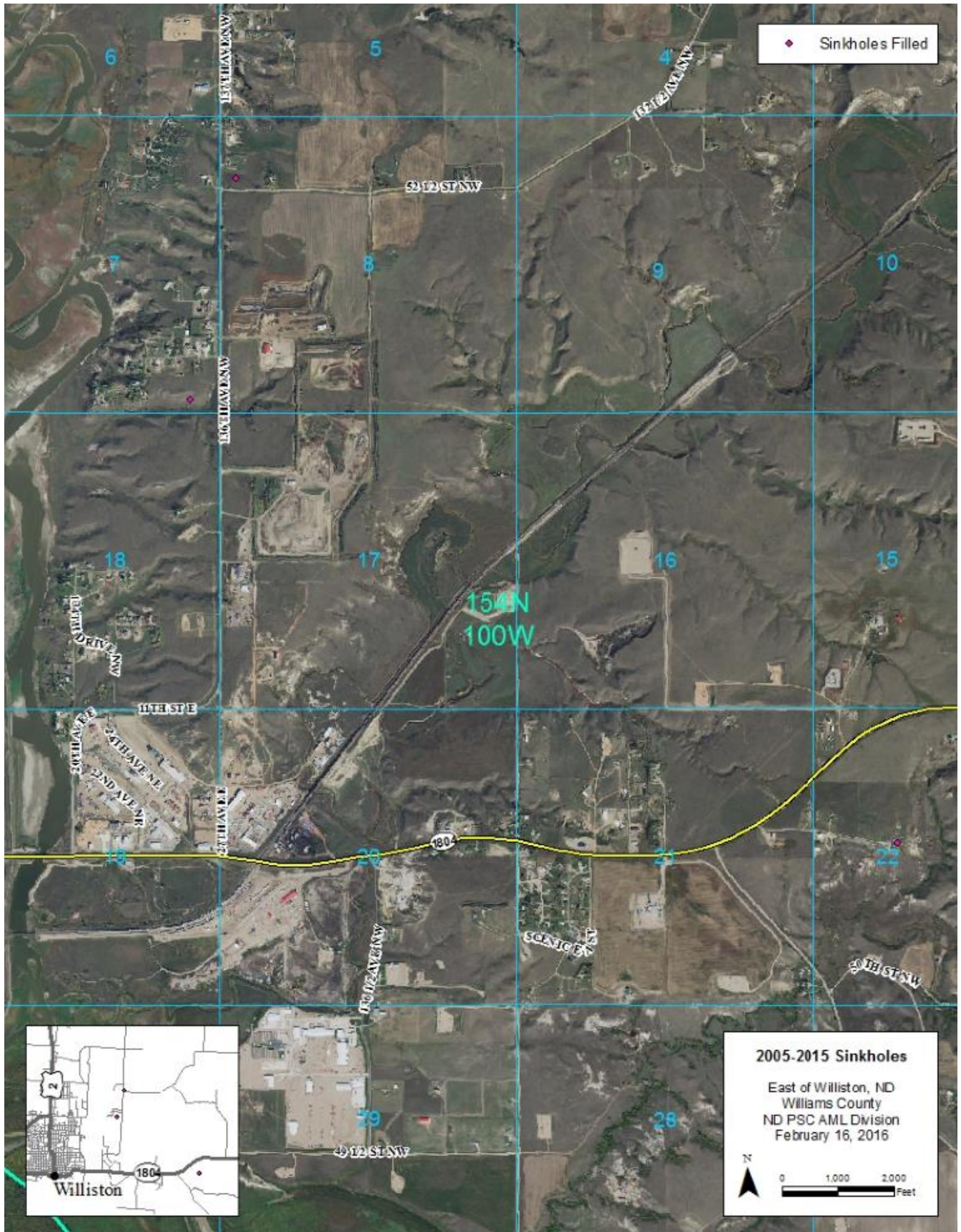


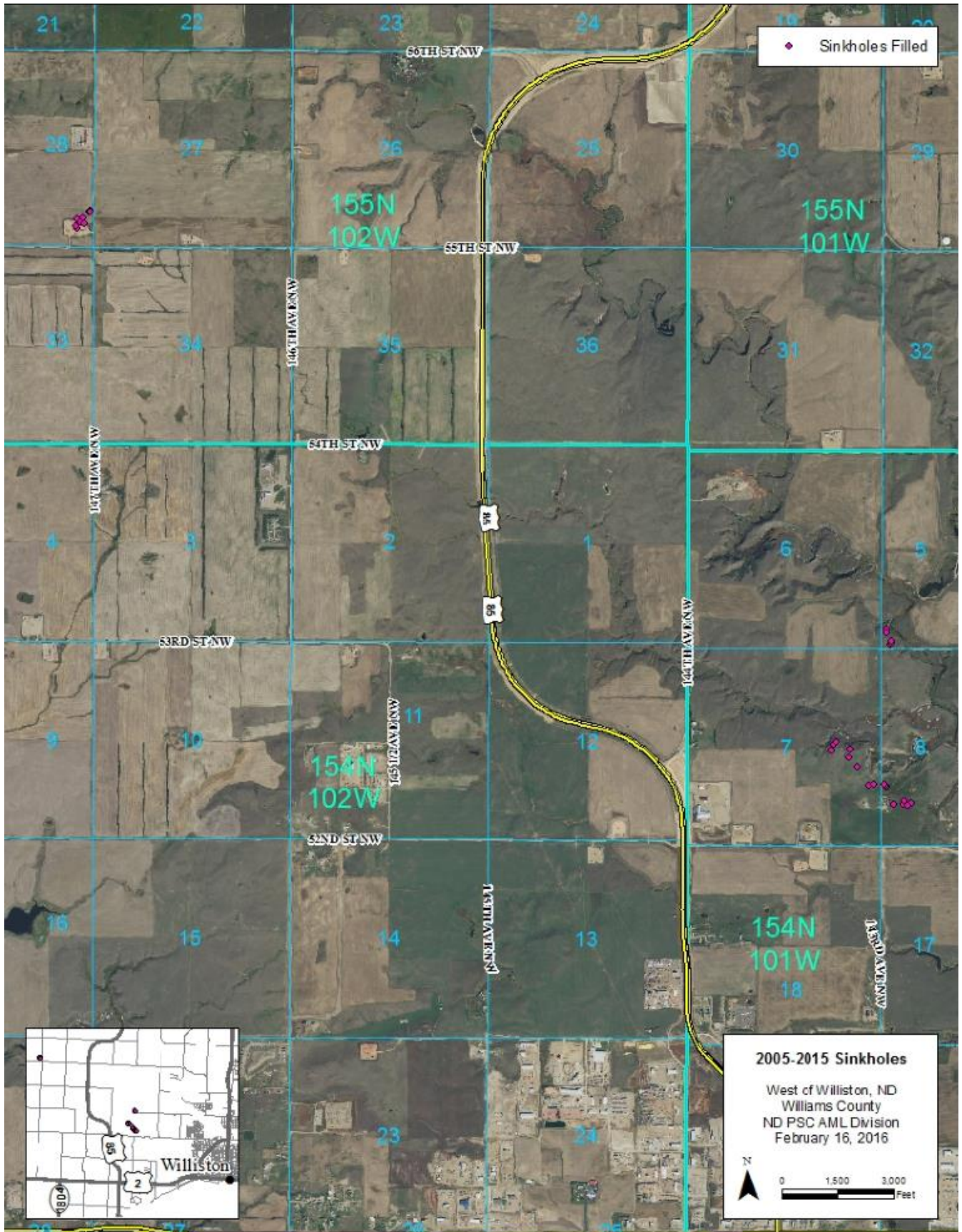












◆ Sinkholes Filled

**2005-2015 Sinkholes**  
West of Williston, ND  
Williams County  
ND PSC AML Division  
February 16, 2016

N  
0 1,500 3,000  
Feet



