STANDARDIZED ENVIRONMENTAL ASSESSMENT

Attachment 1, Sinkhole Location Maps 2005-2019

Prepared by

North Dakota Public Service Commission

In Cooperation with

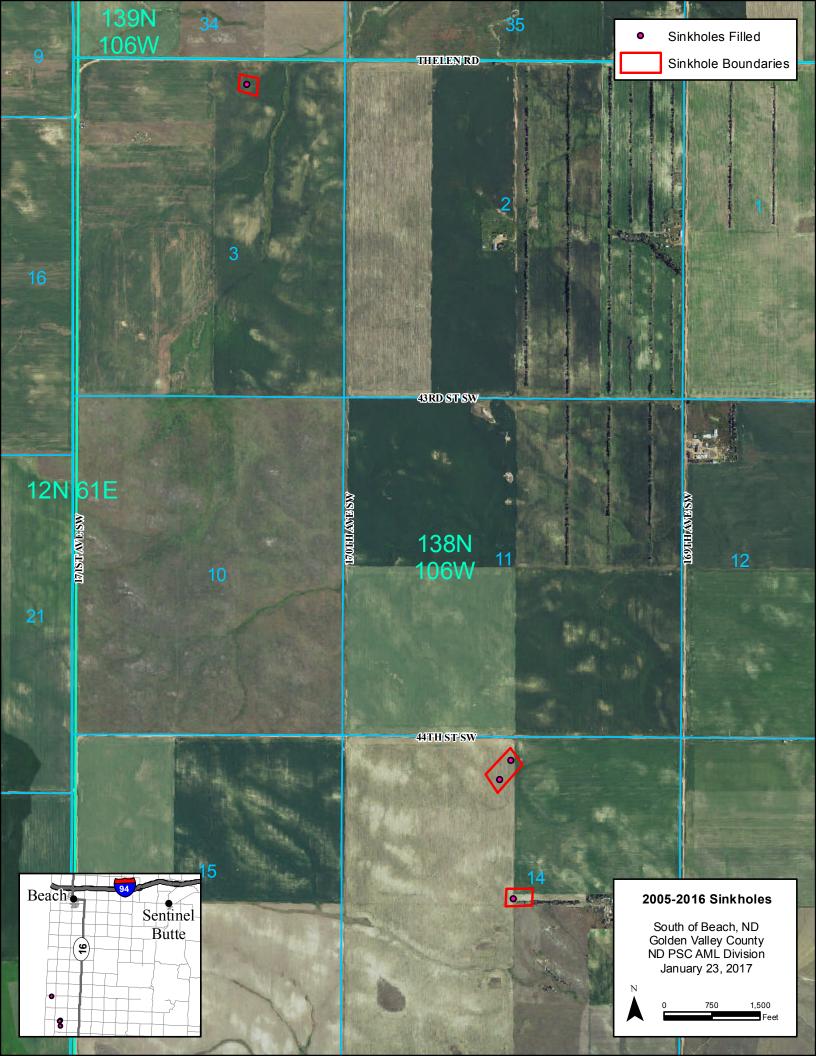
United States Department of the Interior
Office of Surface Mining Reclamation and Enforcement
Casper Field Office

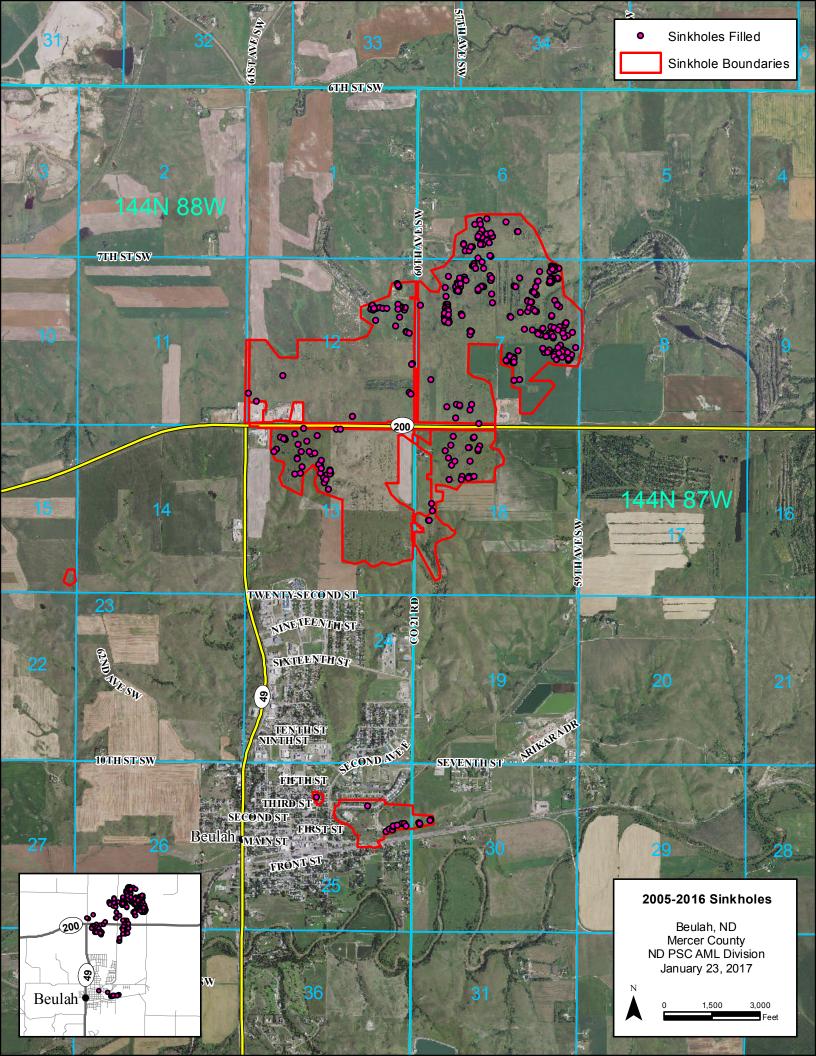
September 2016 (Revised December 2019)

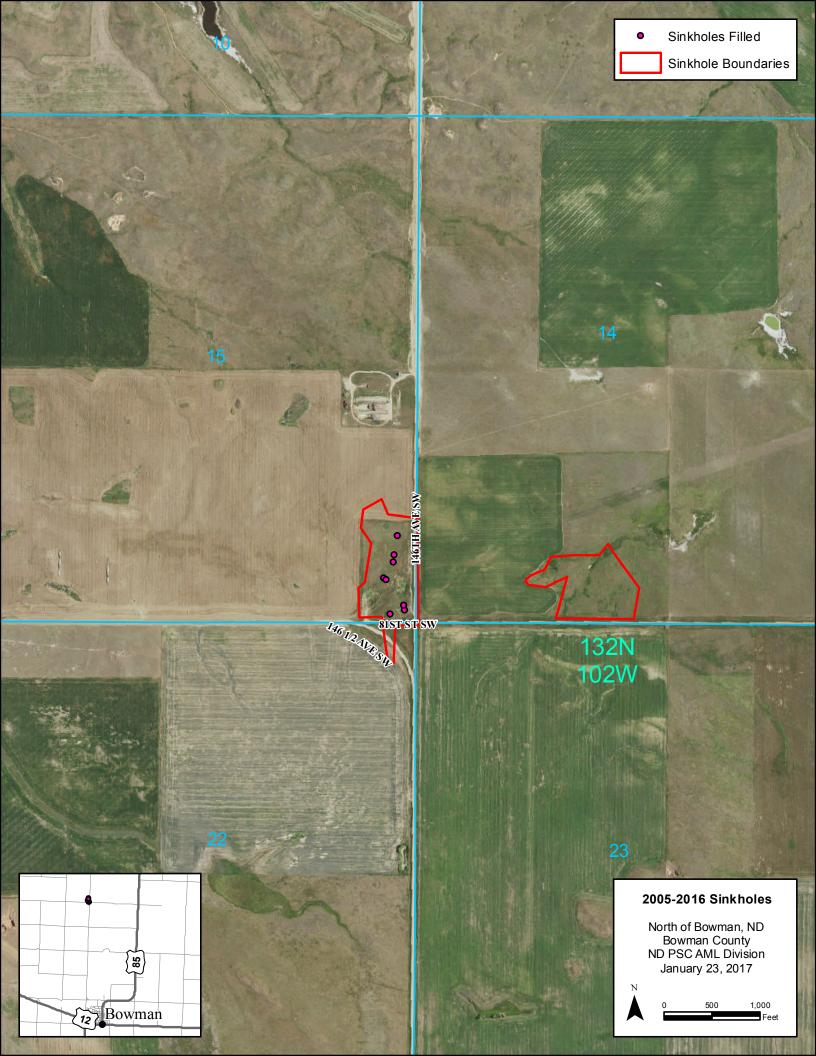
Note to users:

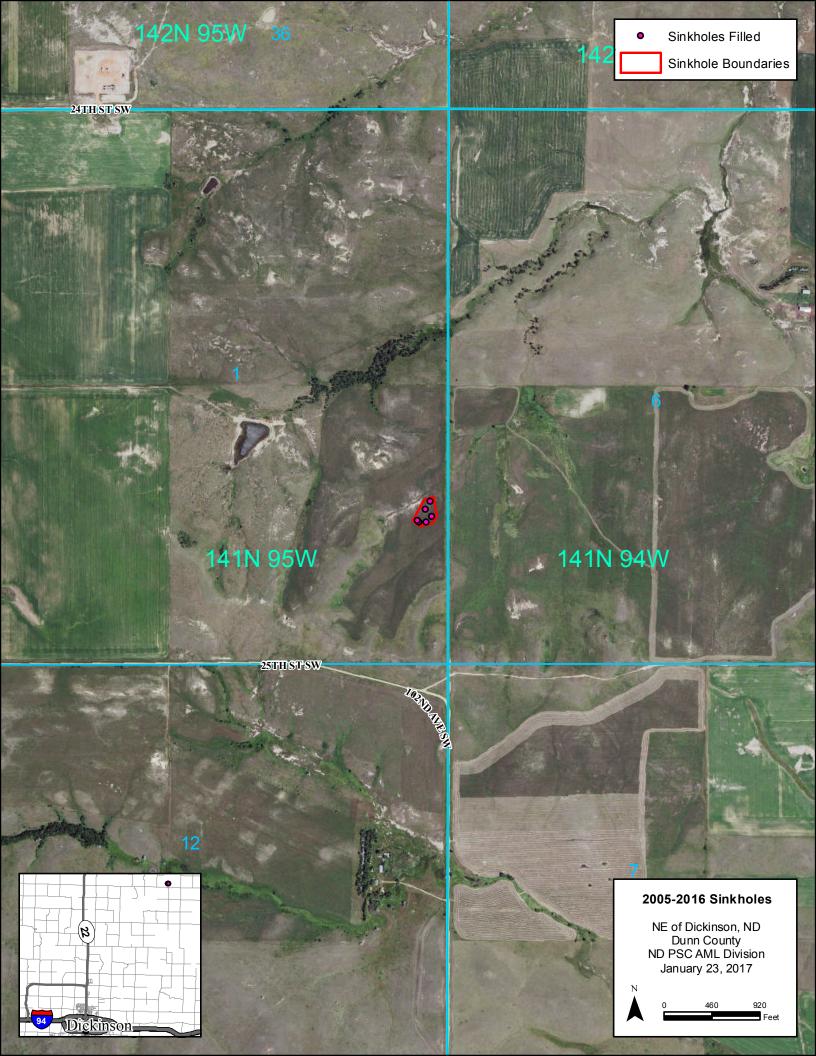
It is impossible to predict where mining-related sinkholes will occur during the period from 2017 to 2021. This appendix contains maps of locations where sinkhole filling projects have been conducted in the past fourteen years. We expect most sinkholes that occur between 2017 and 2021 will be at or near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

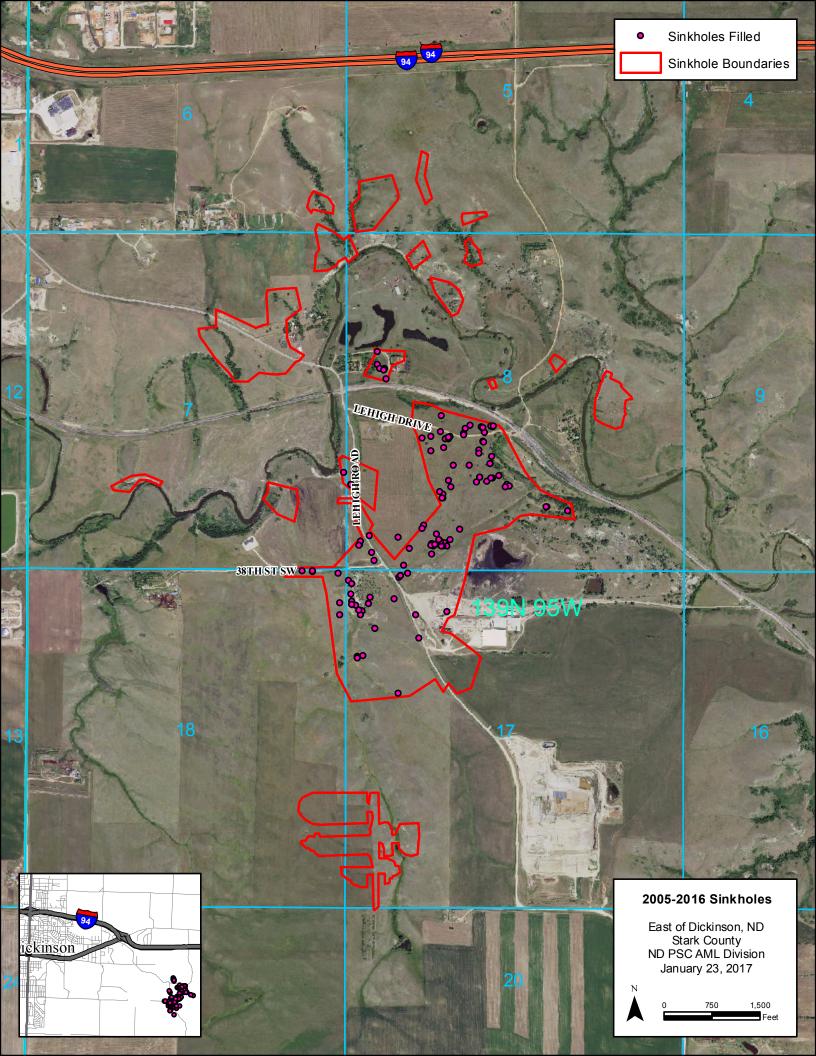
	North Dakota Sinkhole Filling Project Locations 2005-2019							
Location	PA Name	PA	County	Township	Range	Section(s)		
Beach	Sokolski	ND009	Golden	138	106	3, 14		
Beulah	Beulah	ND014	Mercer	144	87	6, 7, 18, 30		
				144	88	12, 13, 15, 25		
Bowman	Andrews	ND033	Bowman	132	102	14, 15, 22		
Dickinson	Jablonsky	ND146	Dunn	141	95	1		
Dickinson	Binek	ND024	Stark	139	95	5, 6, 7, 8, 17, 18		
Garrison	Garrison	ND019	McLean	148	84	7, 8, 17, 18		
Hanks	Hanks	ND147	William	159	101	17, 19		
				159	102	12, 13, 24		
Haynes	Haynes	ND124	Adams	129	94	6, 7, 8, 9, 15, 16, 17, 21,		
- iayiioo	,			129	95	1		
New	Ruck	ND026	Hettinger	134	91	24		
New	New Leipzig	ND030	Grant	133	90	10		
	- 1 5			134	90	26, 34		
New Salem	Mad Dog	ND053	Morton	139	85	7		
	New Salem	ND054	Morton	139	85	15, 21		
Niobe	Niobe	ND938106		160	89	20		
Noonan	Noonan	ND029	Divide	162	95	3, 9, 10		
			Burke	162	94	7		
Parshall	Parshall	ND090	Mountrail	152	89	19		
				152	90	13		
Regent	Havelock	ND023	Hettinger	134	95	10		
	Abbey	ND025	Stark	139	92	4, 5		
				140	92	32, 33		
Scranton	Scranton	ND528	Bowman	131	100	24		
	South	ND003	Bowman	131	100	25, 26		
Velva	Buechler	ND004	Ward	152	81	28, 29		
Washburn	Black	ND006	McLean	144	83	10, 11		
Williston	Williams Co.	ND111	Williams	154	100	7, 8, 9, 17, 19, 20, 21, 22,		
Williston	West	ND046	Williams	154	101	5, 6, 7, 8		
				155	102	28		
Wilton	Wilton	ND001	Burleigh	141	79	2		
				142	79	4, 5, 6, 8, 9, 10, 11, 15, 28,		
				142	80	1, 22, 27		
			McLean	143	80	36		
Zap	Beulah/Zap	ND014	Mercer	144	89	17, 20, 22, 23, 24, 25, 26		
•		-	-	144	88	4		

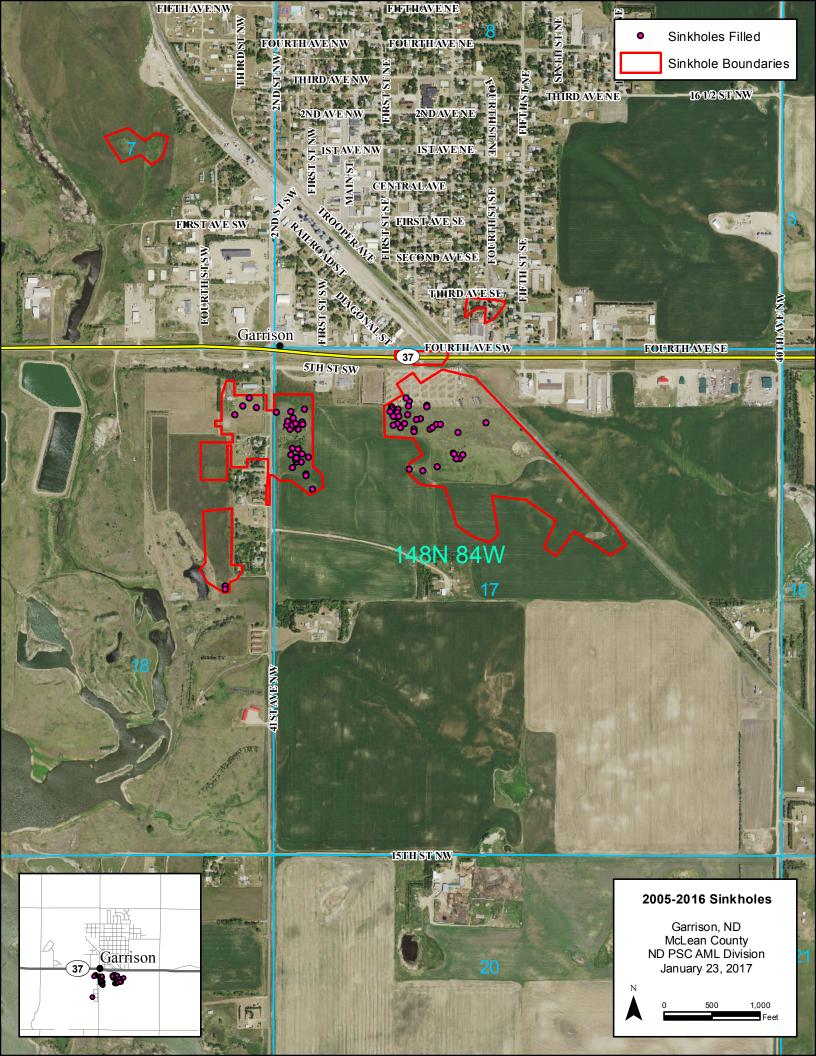


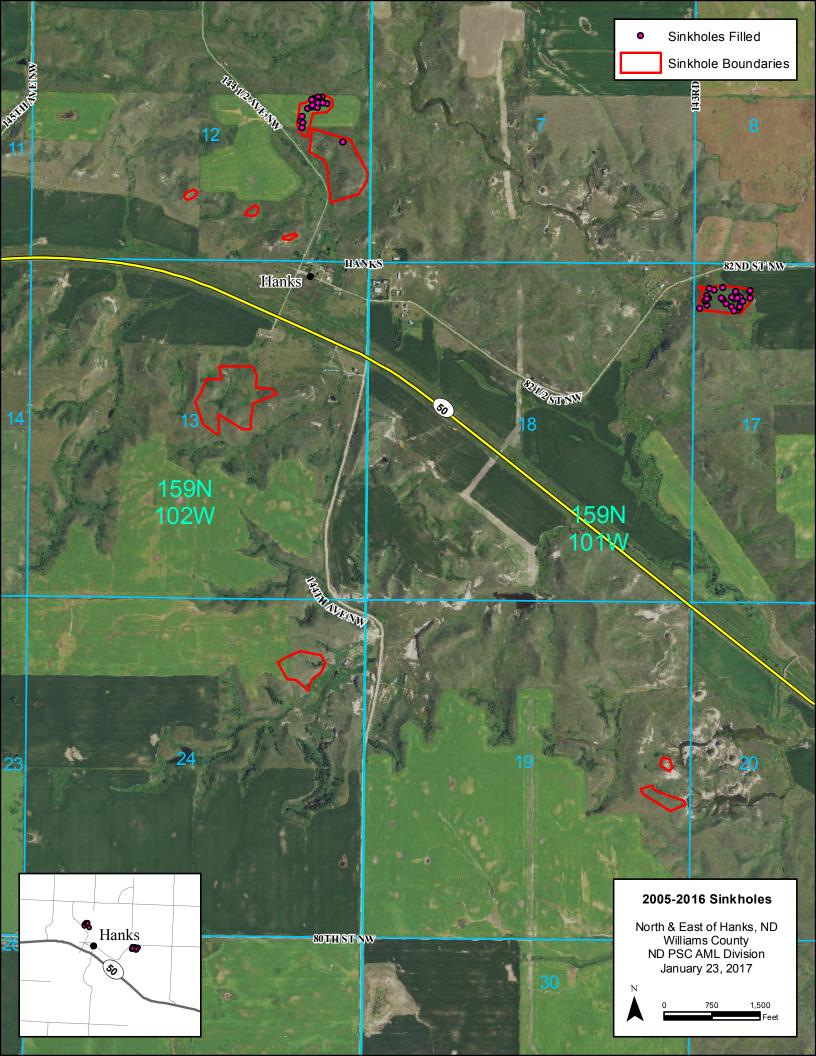


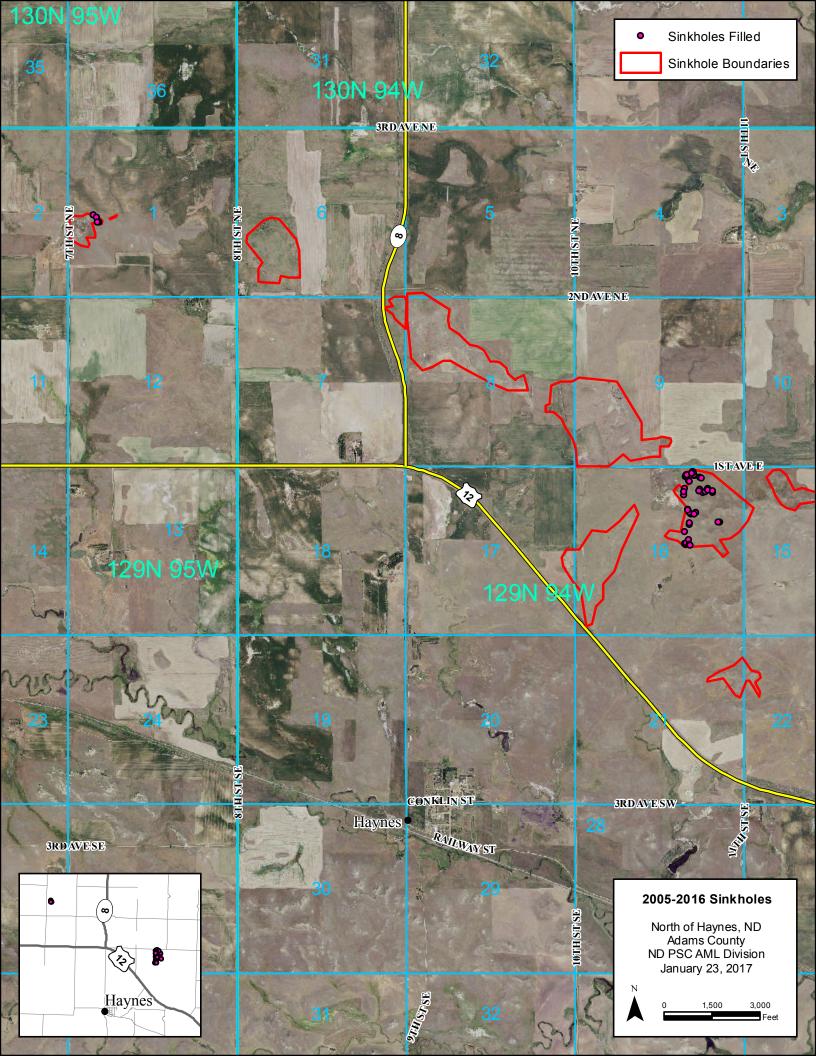


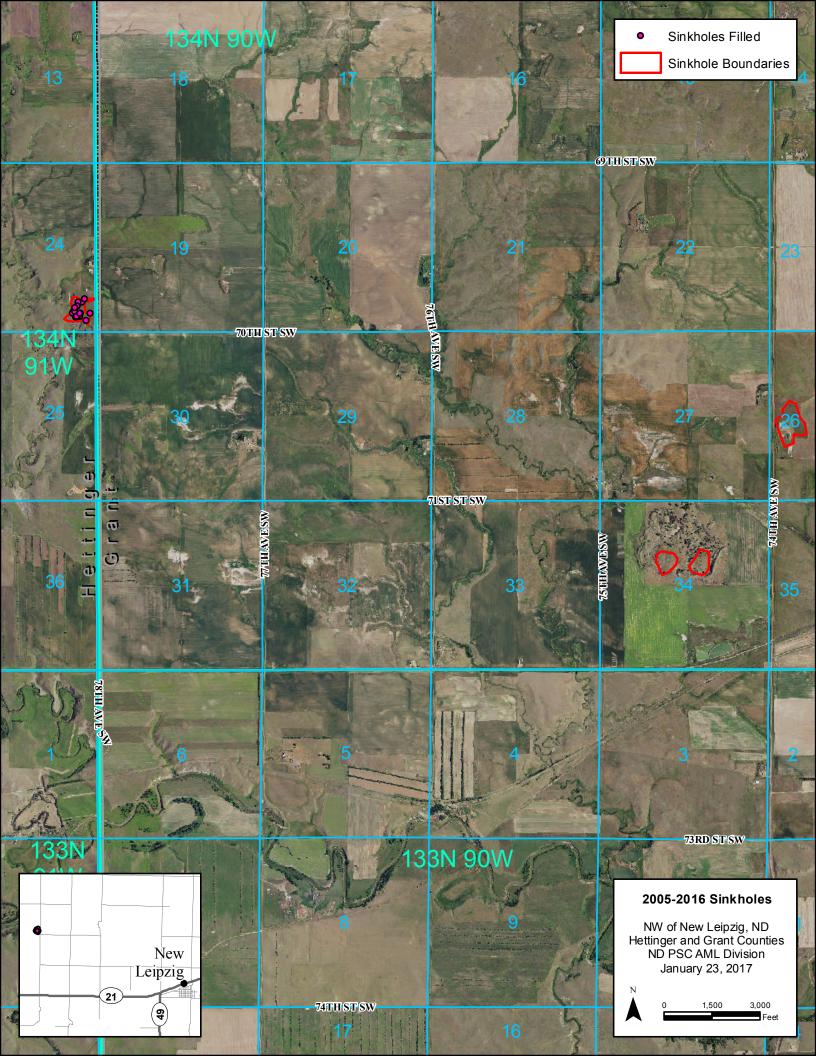




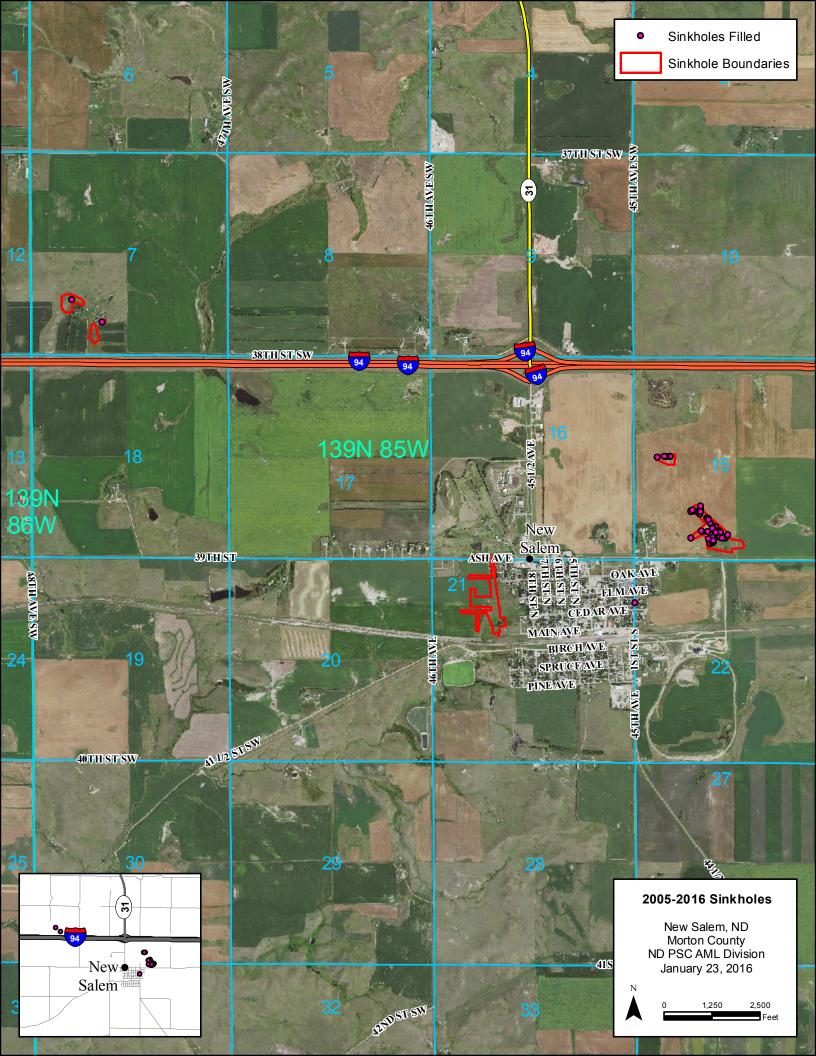


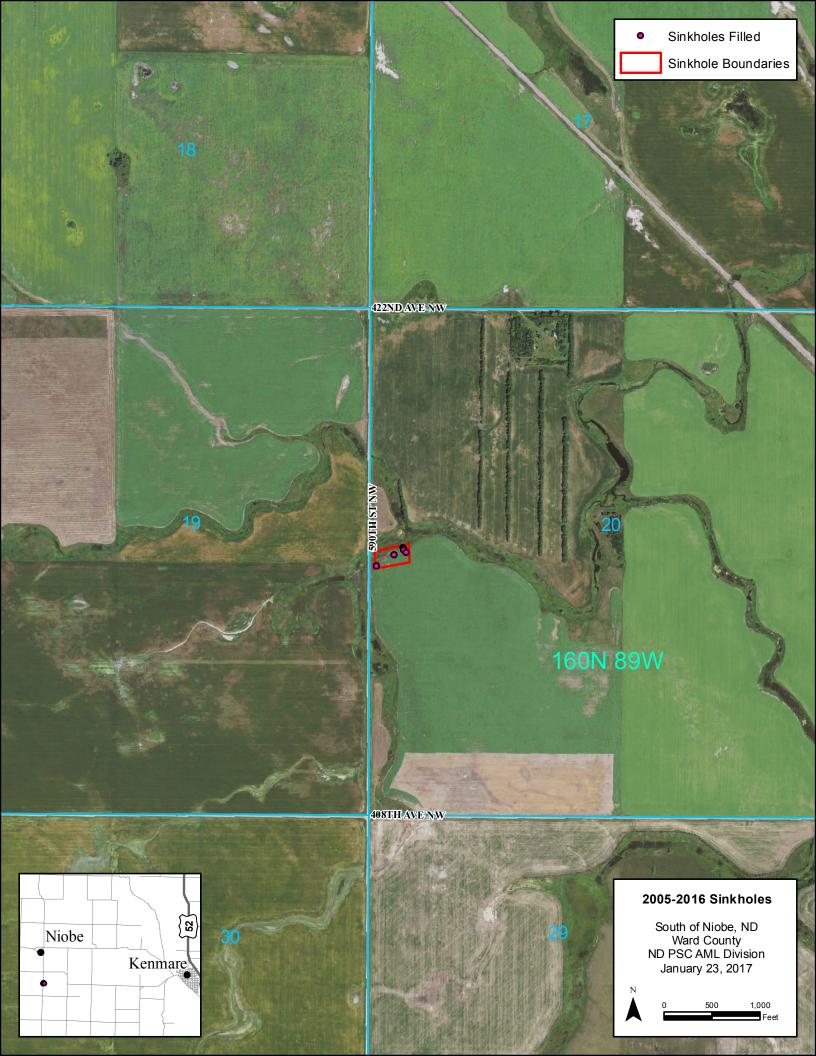


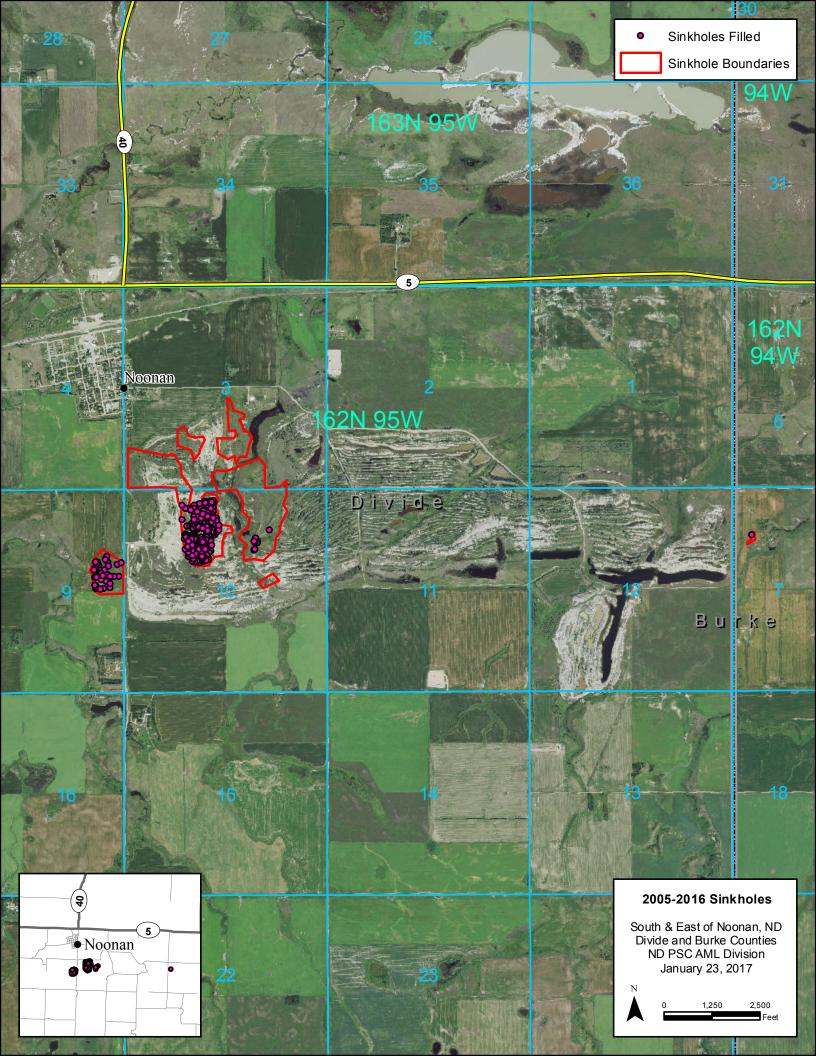


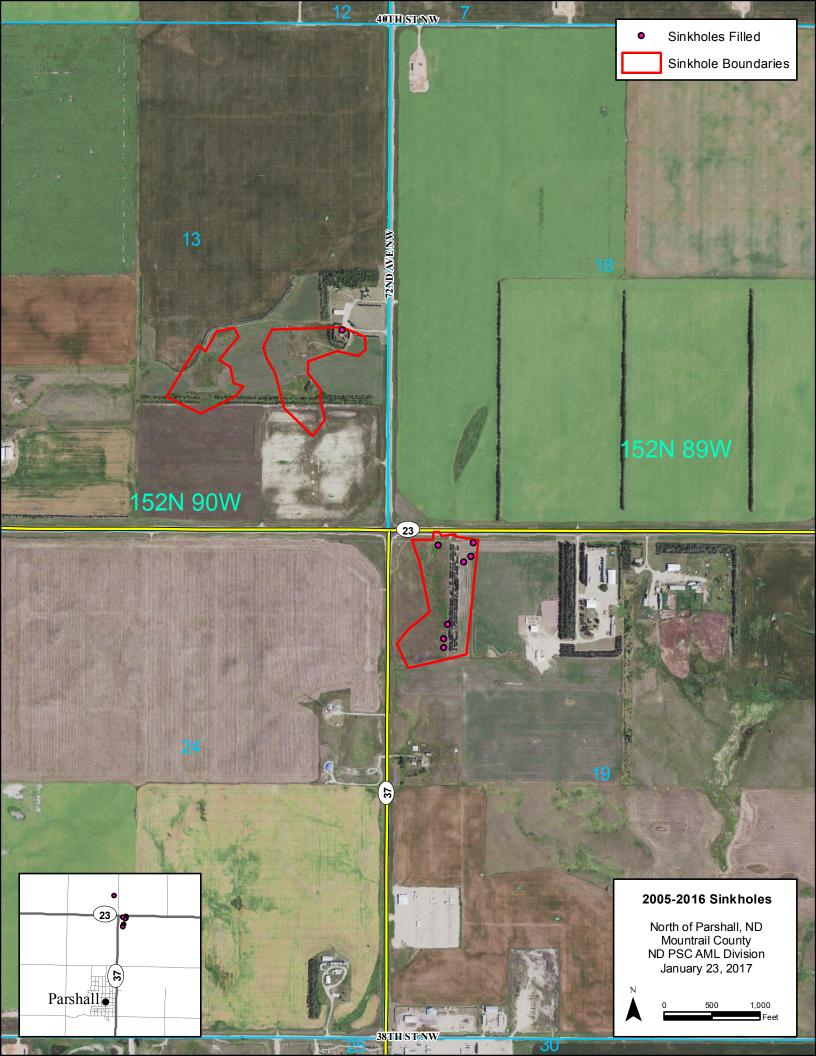


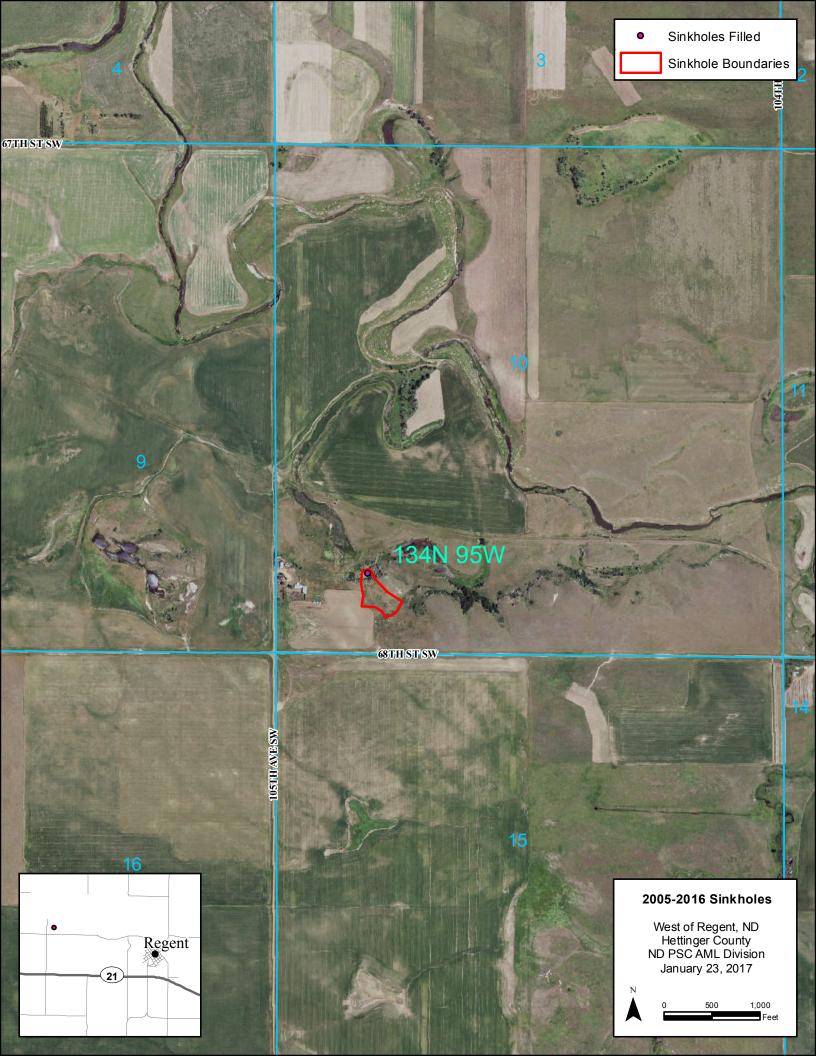


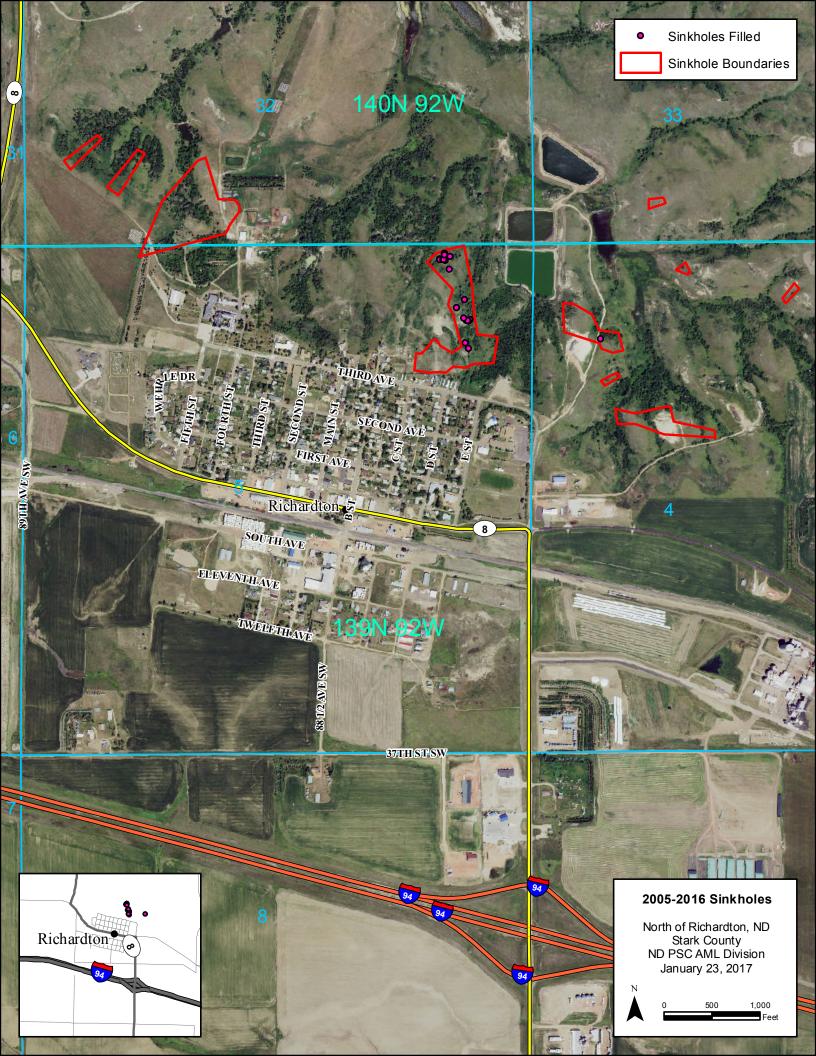


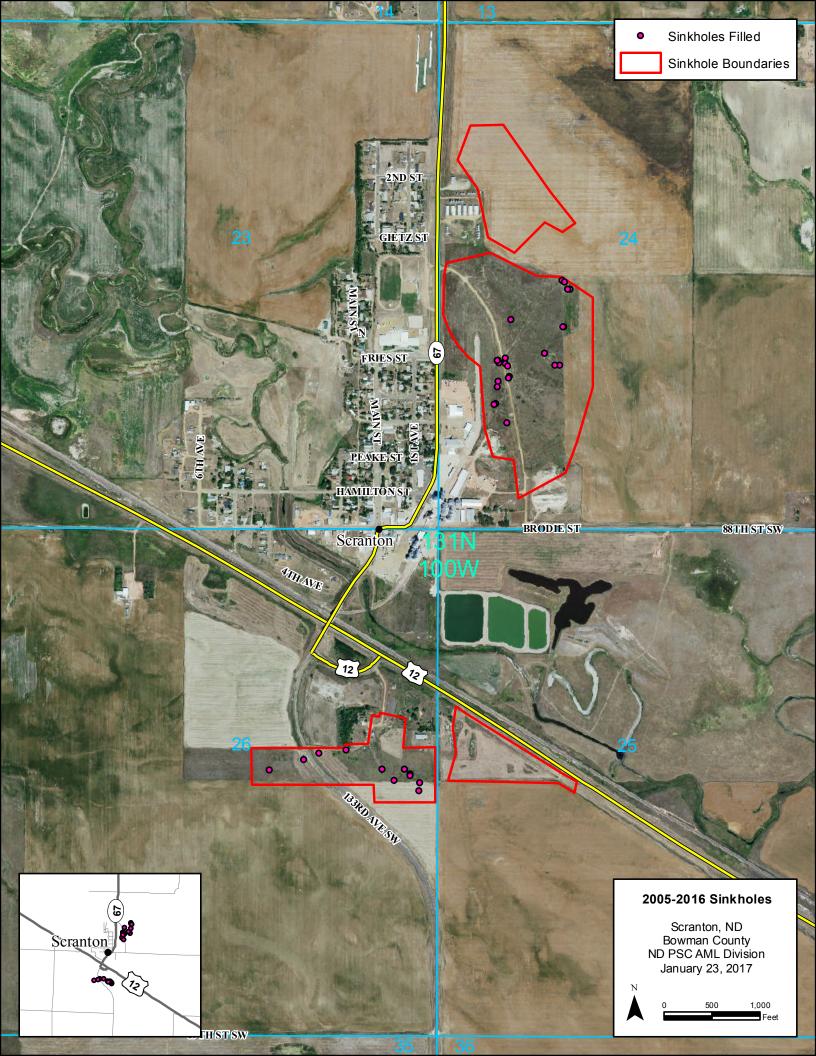


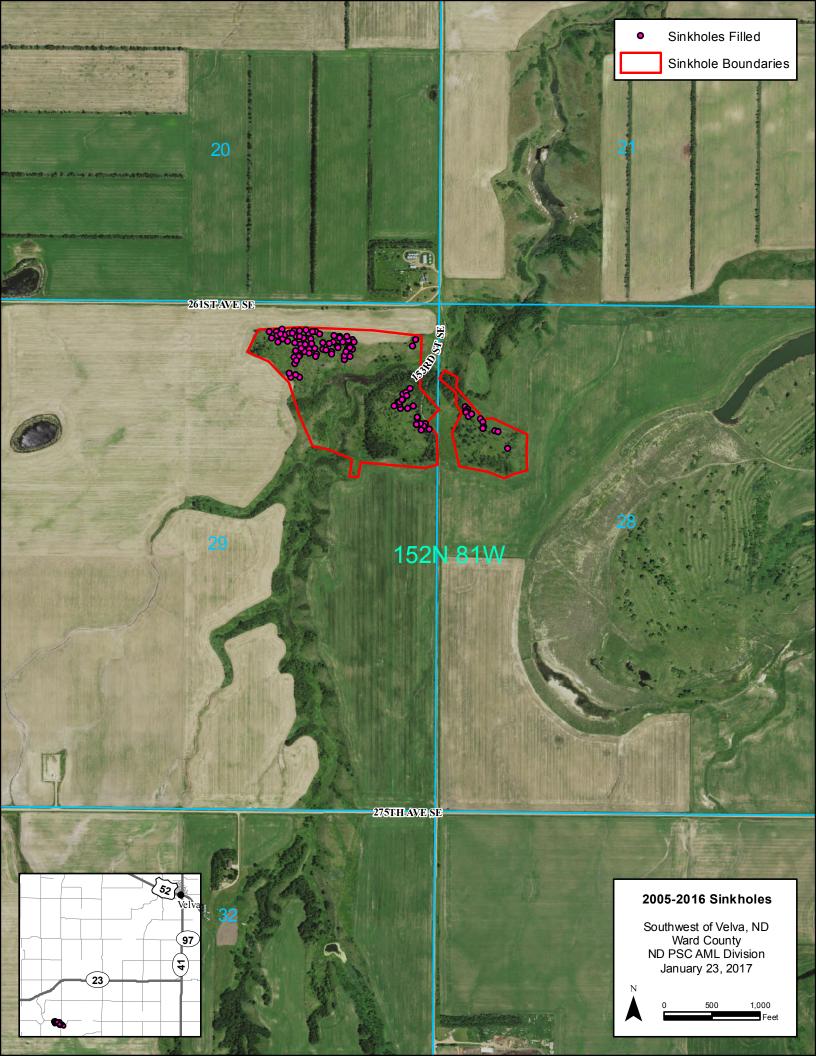


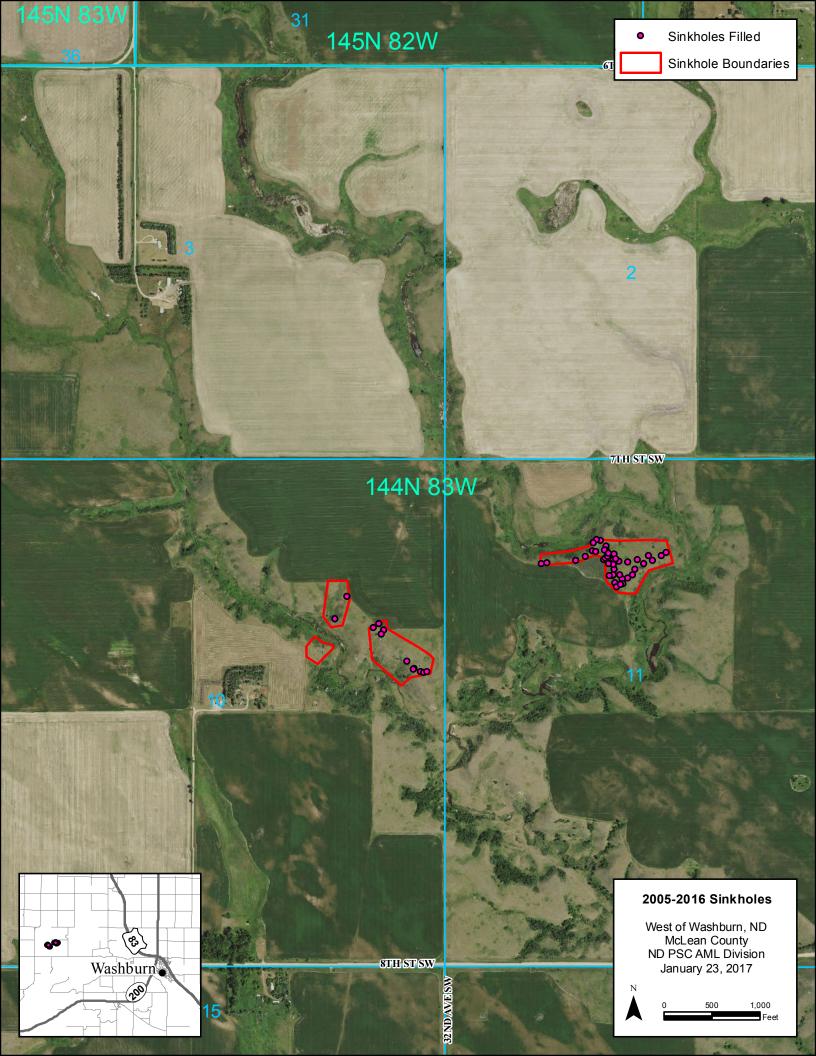


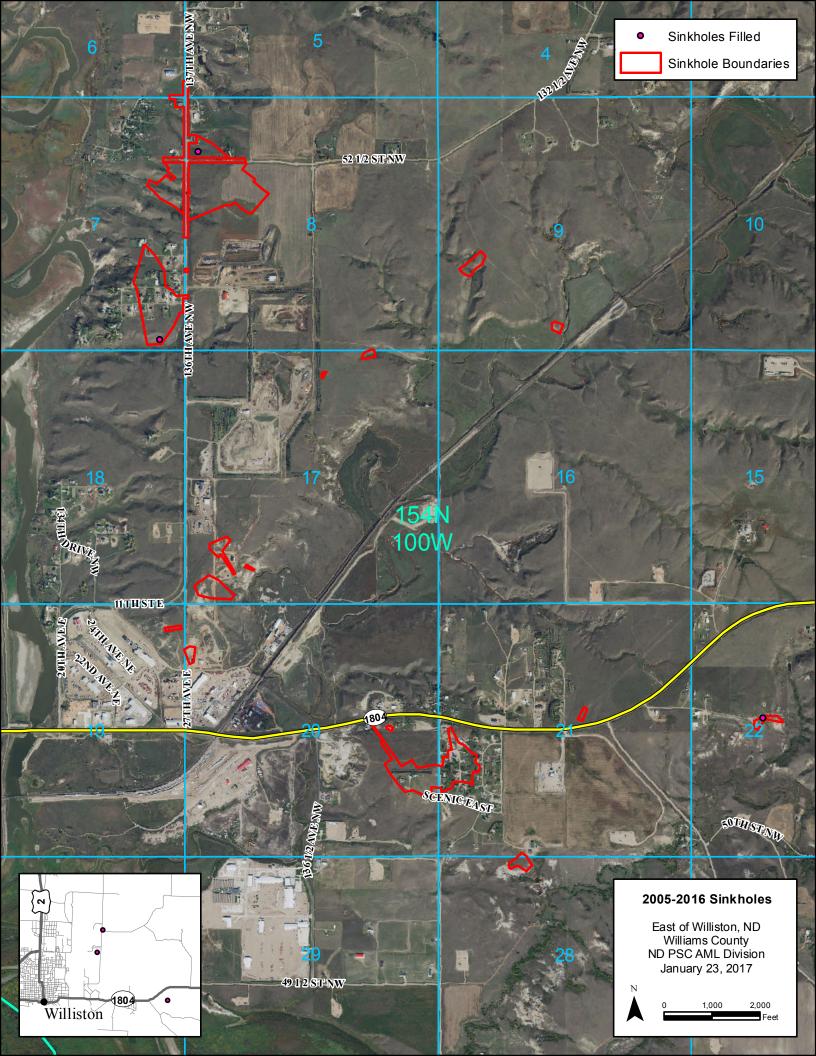


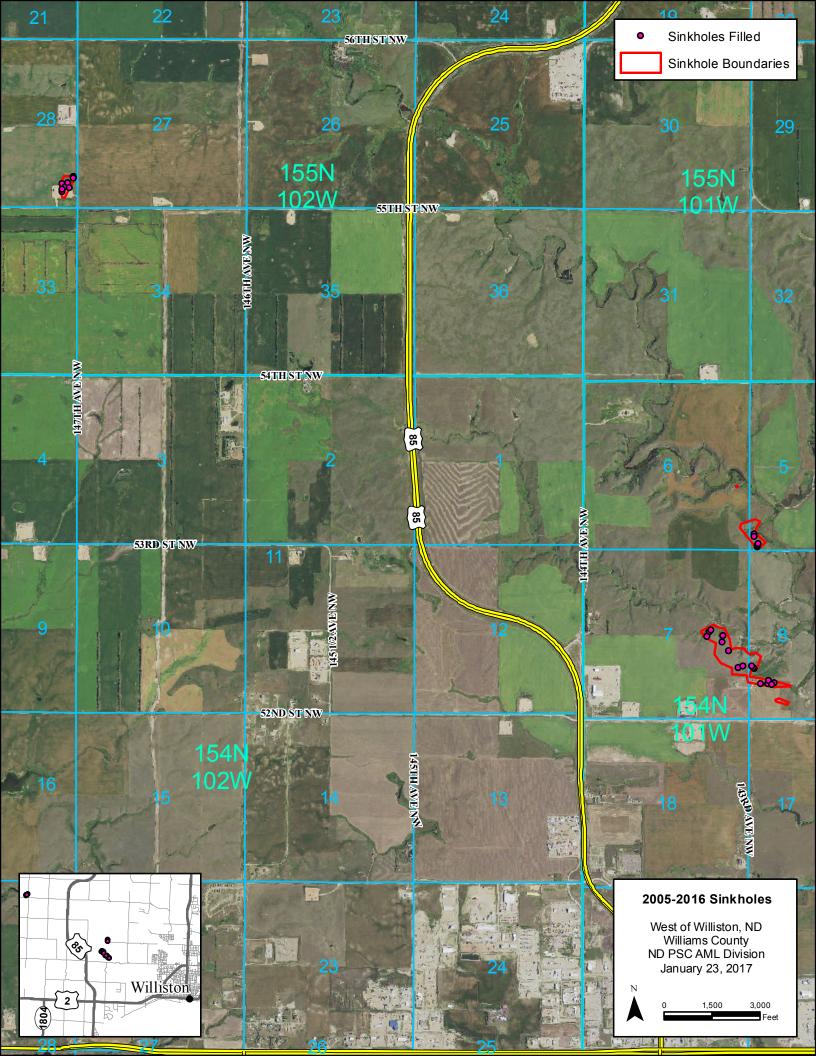


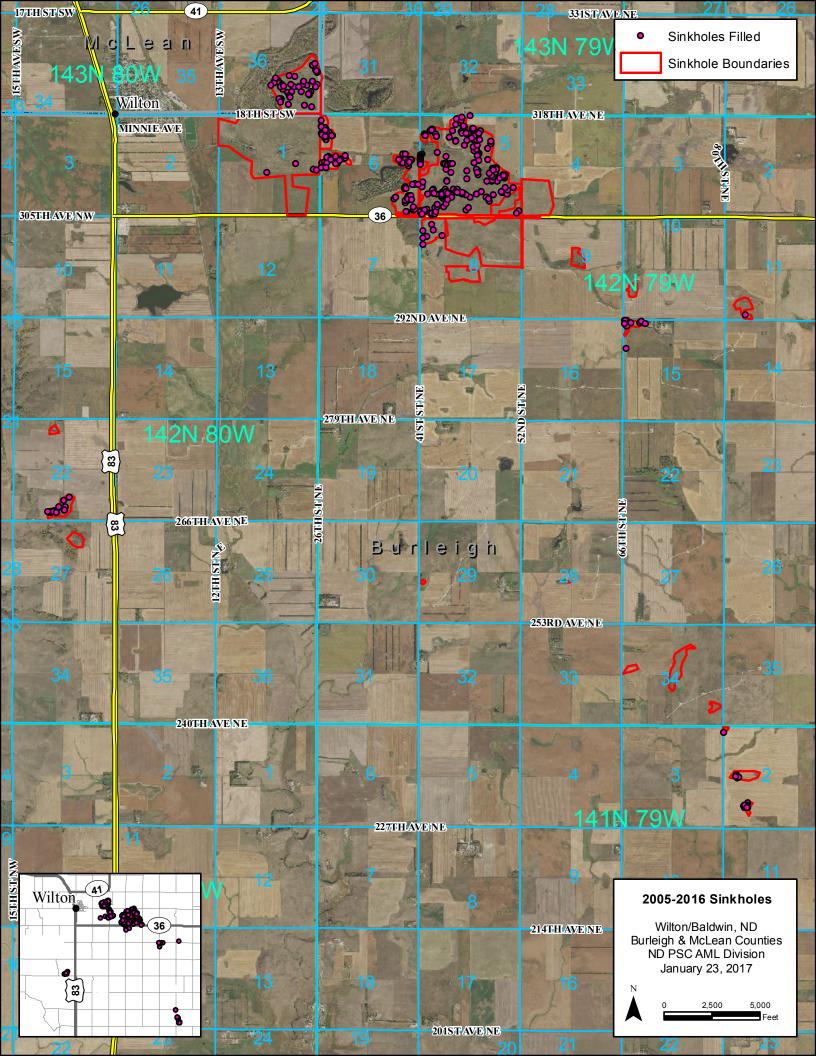


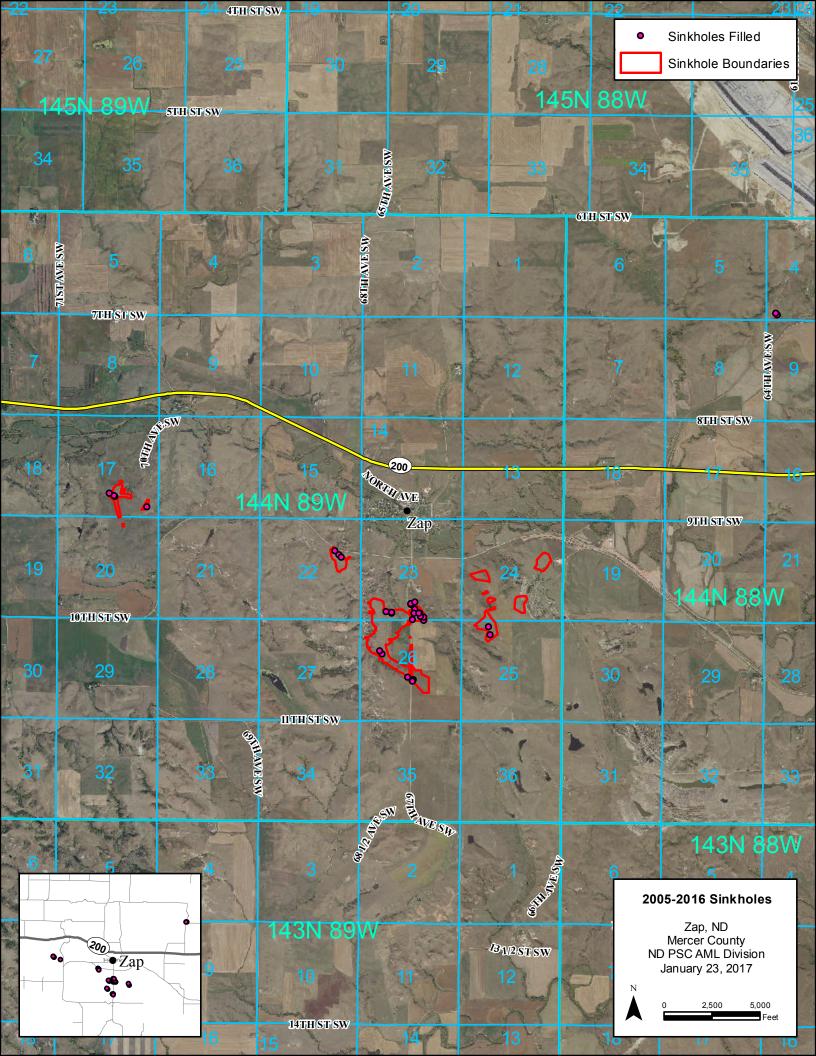












STANDARDIZED ENVIRONMENTAL ASSESSMENT

Attachment 2, Potential Sinkhole Location Maps 2020

Prepared by

North Dakota Public Service Commission

In Cooperation with

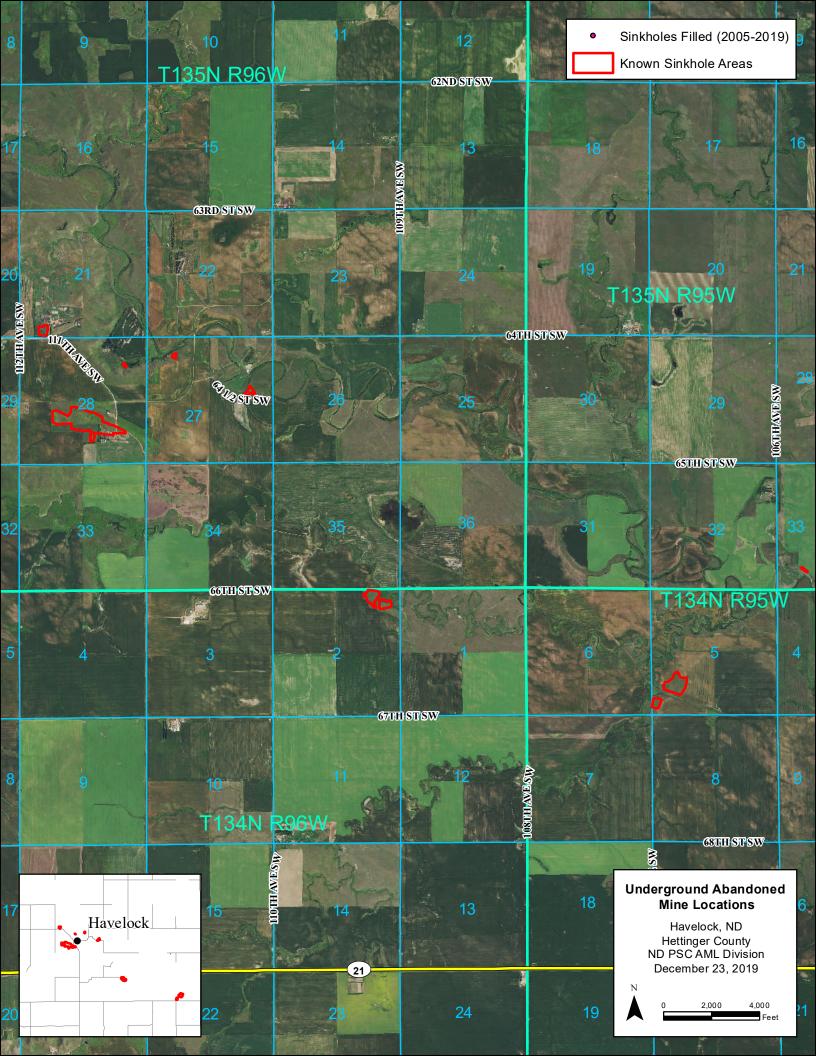
United States Department of the Interior
Office of Surface Mining Reclamation and Enforcement
Casper Field Office

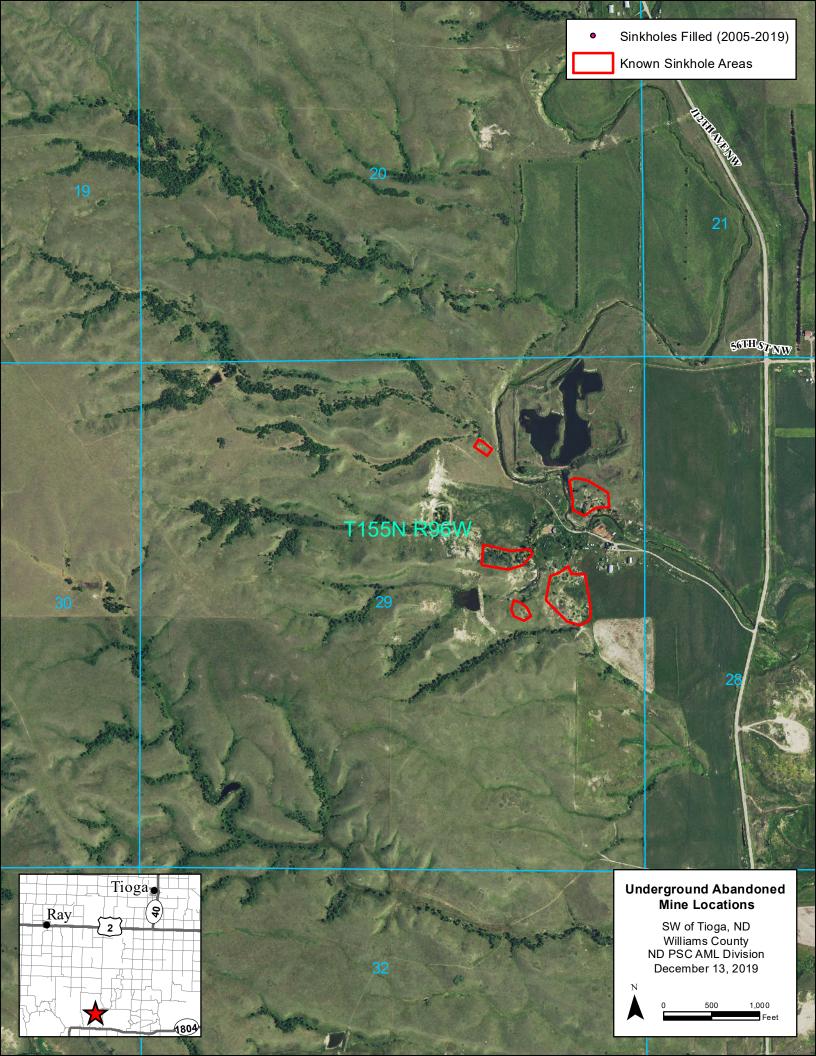
(December 2019)

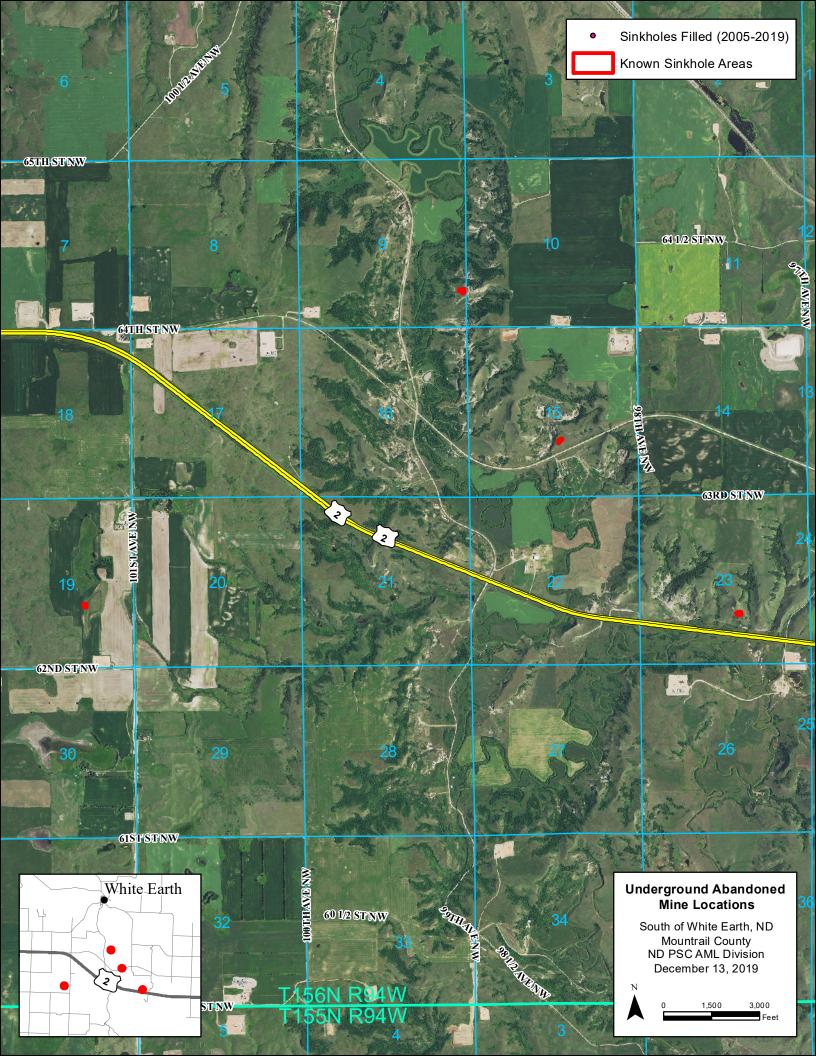
Note to users:

It is impossible to predict where mining-related sinkholes will occur during the period 2020. This appendix contains maps of locations where potential sinkhole filling projects may be conducted.

Proposed North Dakota Sinkhole Filling Project Locations 2020							
Location	PA Name	PA	County	Township	Range	Section(s)	
SW of Tioga	SW Tioga	ND000142	Williams	155	96	29	
White Earth	White Earth	ND000223	McKenzie	156	94	9,15,19,23	
Havelock	Havelock	ND000023	Hettinger	134	96	2,5,27,28,33	







STANDARDIZED ENVIRONMENTAL ASSESSMENT

Attachment 3, Potential Sinkhole Location Maps 2021

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

(Revised June 2021)

Note to users:

It is impossible to predict where mining-related sinkholes will occur during 2021. This appendix contains maps of locations where potential sinkhole filling projects may be conducted in 2021.

Proposed North Dakota Sinkhole Filling Project Locations 2020						
Location	PA Name	PA	County	Township	Range	Section(s)
Beulah	Beulah	ND014	Mercer	144	87	6, 7, 18, 30
			Mercer	144	88	12, 13, 15, 25
Garrison	Garrison	ND019	McLean	148	84	7, 8, 17, 18
Hanks	Hanks	ND147	William	159	101	17, 19
				159	102	12, 13, 24
Haynes	Haynes	ND124	Adams	129	94	6, 7, 8, 9, 15, 16, 17, 21
				129	95	1
Noonan	Noonan	ND029	Divide	162	95	3, 9, 10
			Burke	162	94	7
Parshall	Parshall	ND090	Mountrail	152	89	19
				152	90	13
Scranton	Scranton	ND528	Bowman	131	100	24
Velva	Buechler	ND004	Ward	152	81	13,19, 20, 28, 29
Williston	Williams	ND111	Williams	154	100	7, 8, 9, 17, 19, 20, 21, 22,
Wilton	Wilton	ND001	Burleigh	141	79	2
		ND001	Burleigh	142	79	4, 5, 6, 8, 9, 10, 11, 15, 28
Zap	Beulah/Zap	ND014	Mercer	144	89	17, 20, 22, 23, 24, 25, 26
				144	88	4

