

Keenesburg Mine 2024 Vegetation Monitoring Report

Appendix C: Herbaceous Production Data

Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 32 Herbaceous Production Data

Sample	Herbaceous Production (g/m2)			
	Annual Species	Perennial Species	Total	Allowable
1	0	14.7	14.7	14.7
2	4.5	18.3	22.8	22.8
3	0	12.7	12.7	12.7
4	1.5	28.3	29.8	29.8
5	0	0	0	0.0
6	0	30.6	30.6	30.6
7	0	2.6	2.6	2.6
8	0	10.4	10.4	10.4
9	0	7.8	7.8	7.8
10	0	29.7	29.7	29.7
11	0	12.6	12.6	12.6
12	0	0	0	0.0
13	0.2	8.8	9	9.0
14	0	28.9	28.9	28.9
15	0	12	12	12.0
16	0	37.3	37.3	37.3
17	0	0	0	0.0
18	0	0	0	0.0
19	0	7.6	7.6	7.6
20	0.3	29.4	29.7	29.7
21	0	31.4	31.4	31.4
22	0	28.6	28.6	28.6
23	0	16.5	16.5	16.5
24	10.4	0	10.4	10.4
25	0	1.9	1.9	1.9
26	0	16.8	16.8	16.8
27	0	26.7	26.7	26.7
28	0	1.3	1.3	1.3
29	0	0	0	0.0
30	0	8.5	8.5	8.5
Average	0.6	14.1	14.7	14.7

Excess Annual Production	0.0
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If average annual production is greater than 10%, subtract the average excess

Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 33 Herbaceous Production Data

Sample	Herbaceous Production (g/m2)			
	Annual Species	Perennial Species	Total	Allowable
1	0	4.8	4.8	4.8
2	0	9.8	9.8	9.8
3	0	9.7	9.7	9.7
4	0	9.8	9.8	9.8
5	0	7.5	7.5	7.5
6	0	0	0	0.0
7	0	24	24	24.0
8	0	18.9	18.9	18.9
9	0	16.2	16.2	16.2
10	0	16.1	16.1	16.1
11	0	21.9	21.9	21.9
12	0	18.7	18.7	18.7
13	0	24	24	24.0
14	0	2.6	2.6	2.6
15	0	26.9	26.9	26.9
16	0	50.7	50.7	50.7
17	0	42.2	42.2	42.2
18	0	13.2	13.2	13.2
19	0	24.7	24.7	24.7
20	0	16.8	16.8	16.8
21	0	20	20	20.0
22	0	10.3	10.3	10.3
23	0	19.5	19.5	19.5
24	0	14.2	14.2	14.2
25	0	0	0	0.0
26	0	17	17	17.0
27	0	6.6	6.6	6.6
28	0	13.1	13.1	13.1
29	0	9.6	9.6	9.6
30	0	14.1	14.1	14.1
Average	0.0	16.1	16.1	16.1

Excess Annual Production	0.0
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If average annual production is greater than 10%, subtract the average excess

Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 34 Herbaceous Production Data

Sample	Herbaceous Production (g/m2)			
	Annual Species	Perennial Species	Total	Allowable
1	2.6	9.1	11.7	1.5
2	33.4	0	33.4	23.2
3	0	16.9	16.9	6.7
4	0	4.6	4.6	0.0
5	5.7	0	5.7	0.0
6	5.5	1	6.5	0.0
7	0	1	1	0.0
8	0	6.7	6.7	0.0
9	0	15.8	15.8	5.6
10	27.8	2.5	30.3	20.1
11	35.8	0.2	36	25.8
12	0	2.2	2.2	0.0
13	25.1	0.7	25.8	15.6
14	0	2.3	2.3	0.0
15	41.8	0	41.8	31.6
Average	11.8	4.2	16.0	8.7

Excess Annual Production	10.2
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If average annual production is greater than 10%, subtract the average excess

Appendix D: Complete Species List

Keenesburg Mine 2024 Vegetation Monitoring Report

Keenesburg Mine Reclamation Species List 2024

Scientific Name	Common Name	Area 25	Area 32	Area 33	Area 34	Area 35	Area 36	Area 37	Area 38	Area 42	Area 43	Area 44
Grass: Annual Native												
Munroa squarrosa	false buffalograss	6.7	10.0		33.3	20.0	26.7	26.7	50.0	60.0		6.7
Panicum capillare	witchgrass						6.7		6.3			
Vulpia octiflora	sixweeks fescue	26.7	53.3		6.7			6.7			33.3	
Grass: Annual Introduced												
Bromus tectorum	cheatgrass	53.3	96.7	96.3	60.0	60.0	100.0	93.3	93.8	86.7	100.0	100.0
Eragrostis cilianensis	stinkgrass									6.7		
Grass: Perennial Desirable (Cool)												
Achnatherum hymenoides	Indian ricegrass	40.0		3.7	46.7	100.0	100.0	80.0	106.3	100.0	20.0	86.7
Agropyron cristatum	crested wheatgrass		3.3	18.5	6.7	6.7			6.3		6.7	
Bromus inermis	smooth brome				6.7					6.7		
Cyperus schweinitzii	Schweinitz's flatsedge				20.0	6.7				13.3	13.3	26.7
Elymus elymoides	squirreltail				13.3							13.3
Elymus lanceolatus	thickspike wheatgrass	13.3	10.0	18.5			20.0	13.3	25.0	20.0		20.0
Elymus trachycaulus	slender wheatgrass		6.7									6.7
Hesperostipa comata	needle and thread		3.3		6.7						6.7	
Pascopyrum smithii	western wheatgrass		6.7			6.7	6.7	20.0	12.5			
Pseudoroegneria spicata	bluebunch wheatgrass							13.3				6.7
Thinopyrum intermedium	intermediate wheatgrass		3.3	11.1	6.7							
Grass: Perennial Desirable (Warm)												
Andropogon hallii	sand bluestem	53.3	53.3	25.9	53.3	6.7	6.7		75.0	20.0	6.7	6.7
Bouteloua curtipendula	sideoats grama	6.7	6.7	7.4	13.3		6.7	6.7				
Bouteloua gracilis	blue grama	46.7	100.0	159.3	53.3	13.3	20.0	6.7		13.3		20.0
Calamovilfa longifolia	prairie sandreed	80.0	110.0	118.5	93.3	60.0	33.3	33.3	81.3	26.7	6.7	53.3
Panicum virgatum	switchgrass		20.0	122.2			20.0	6.7	25.0	20.0	20.0	
Schizachyrium scoparium	little bluestem	6.7	10.0	11.1	26.7				12.5	6.7	6.7	20.0
Sorghastrum nutans	Indiangrass		50.0								13.3	13.3
Sporobolus cryptandrus	sand dropseed	100.0	30.0	103.7	93.3	93.3	100.0	80.0	56.3	66.7	113.3	106.7

Keenesburg Mine Reclamation Species List 2024 (continued)

Scientific Name	Common Name	Area 25	Area 32	Area 33	Area 34	Area 35	Area 36	Area 37	Area 38	Area 42	Area 43	Area 44
Forbs: Annual & Biennial Native												
Amaranthus retroflexus	redroot amaranth	26.7	13.3			26.7	6.7	20.0	6.3	40.0		
Ambrosia acanthicarpa	flatspine bur ragweed	26.7			33.3	26.7	6.7	13.3		40.0	66.7	53.3
Argemone polyanthemus	crested pricklypoppy	13.3			26.7				6.3	20.0	6.7	6.7
Chamaesyce glyptosperma	ribseed sandmat						6.7	20.0		6.7		
Chenopodium leptophyllum	narrowleaf goosefoot									26.7	6.7	20.0
Cleome serrulata	Rocky Mountain beeplant									6.7		6.7
Conyza canadensis	Canadian horseweed		10.0	3.7	6.7	6.7	40.0				6.7	26.7
Croton texensis	Texas croton	6.7		40.0						13.3	6.7	13.3
Descurainia pinnata	western tansymustard						13.3		6.3			
Eriogonum annuum	annual buckwheat								6.3		40.0	13.3
Helianthus annuus	common sunflower	100.0	3.3		86.7	93.3	100.0	86.7	100.0	86.7	46.7	60.0
Machaeranthera bigelovii	Bigelow's tansyaster	6.7	20.0	7.4	66.7	6.7	40.0	26.7	37.5	53.3	66.7	40.0
Plantago patagonica	wooly plantain										6.7	
Verbena bracteata	bigbract verberna									6.7		6.7
Forbs: Annual & Biennial Introduced												
Ambrosia artemisiifolia	annual ragweed	13.3			40.0	13.3				6.7		13.3
Bassia scoparia	burningbush	26.7				13.3	66.7	33.3		13.3		6.7
Chenopodium album	lambsquarters											6.7
Dysphania botrys	Jerusalem oak goosefoot	13.3			46.7	60.0	26.7	26.7	12.5	26.7		20.0
Lactuca serriola	prickly lettuce	40.0	13.3		6.7	46.7	73.3	20.0	31.3	33.3	13.3	13.3
Melilotus officinalis	sweetclover								12.5	6.7		
Onopordum acanthium	Scotch cottonthistle		3.3									
Polygonum aviculare	prostrate knotweed					6.7	40.0	6.7		6.7		6.7
Salsola collina	slender Russian thistle				6.7	66.7	13.3	20.0				26.7
Salsola tragus	prickly Russian thistle	100.0	20.0		80.0	106.7	100.0	73.3	100.0	73.3		33.3
Sisymbrium altissimum	tall tumblemustard											6.7
Tragopogon dubius	yellow salsify		3.3							6.7		

Keenesburg Mine Reclamation Species List 2024 (continued)

Scientific Name	Common Name	Area 25	Area 32	Area 33	Area 34	Area 35	Area 36	Area 37	Area 38	Area 42	Area 43	Area 44
Forbs: Perennial Desirable												
Ambrosia psilostachya	Cuman ragweed	53.3	6.7	7.4	26.7	6.7	26.7	46.7	6.3	13.3	33.3	13.3
Cirsium flodmanii	Flodman's thistle				26.7			6.7		6.7		
Cuscuta indecora	bigseed alfalfa dodder											
Erigeron bellidistrum	western daisy fleabane	6.7						6.7				6.7
Heterotheca villosa	hairy false goldenaster		3.3								6.7	
Mentzelia nuda	bractless blazingstar								12.5	13.3	46.7	
Mirabilis hirsuta	hairy four o'clock				13.3							
Mirabilis linearis	narrowleaf four o'clock									6.7		
Oenothera pallida	pale evening primrose				6.7			6.7	6.3	6.7	20.0	26.7
Physalis hispida	prairie groundcherry	13.3	3.3		20.0	6.7	6.7	6.7	12.5	6.7	26.7	13.3
Psoraleidum lanceolatum	lemon scurfpea									13.3		
Ratibida columnifera	upright prairie coneflower			3.7	6.7		40.0	6.7	6.3	20.0	33.3	13.3
Rumex venosus	veiny dock				6.7							
Subshrubs/Shrubs/Succulents: Perennial Native												
Artemisia filifolia	sand sagebrush	6.7							6.3	6.7		
Cylindropuntia whipplei	Whipple cholla		6.7		13.3				6.3	6.7		6.7
Escobaria vivipara	spiny star				6.7							
Opuntia phaeacantha	tulip pricklypear							6.7			20.0	
Opuntia polyacantha	hairspring pricklypear	26.7	33.3	22.2	33.3	6.7	6.7			6.7	33.3	26.7
Yucca glauca	soapweed yucca	6.7	3.3				6.7	6.7			13.3	

Keenesburg Mine 2024 Vegetation Monitoring Report

Appendix E: Precipitation Data 1993 – 2024

Keenesburg Mine 2024 Vegetation Monitoring Report

Keenesburg Mine Precipitation Data 1993-2024

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Sept-Jul	% from Avg Yr	% from Avg Sept-Jul
1993	1	0.05	0.05	2.37	1.2	3	0.38	0.2	1.9	1.2	0.8	0	12.15			
1994	0.4	0.21	0.17	1.24	0.59	0.45	1.01	1.49	0.99	1.7	0.6	0.33	9.18	7.97	-32%	-34%
1995	0.13	0.3	0.57	2.49	4.53	4.55	0.58	0.47	1.07	0.3	0.21	0.04	15.24	16.77	13%	39%
1996	0.32	0.29	0.77	0.2	2.44	2.4	2.25	0.52	2.22	0.67	0.35	0	12.43	10.29	-8%	-15%
1997	0.7	0.58	0.46	1.18	1.17	1.32	1.06	3.51	0.68	1.17	0.84	0.39	13.06	9.71	-3%	-20%
1998	0.14	0.2	0.67	1.34	2.33	2.53	1.09	2.03	0.08	1.95	0.44	0.51	13.31	11.38	-1%	-6%
1999	0.49	0	0.12	4.62	4.21	1.29	2.02	3.16	2.12	0.13	0.4	0.06	18.62	15.73	38%	30%
2000	0.05	0	1.35	0.55	2.64	0.78	1.62	0.9	1.42	0.21	1.1	0.31	10.93	9.7	-19%	-20%
2001	0.61	0.45	0.73	2.41	4.12	1.4	2.92	0.83	0.84	0.51	0.76	0.07	15.65	15.68	16%	30%
2002	0.55	0	0.68	0.3	1.04	1.22	0.49	1.15	0.91	1	0.38	0.05	7.77	6.46	-42%	-47%
2003	0	0.5	2.77	1.93	3.12	1.57	0.35	1.18	0	0.1	0.3	0.45	12.27	12.58	-9%	4%
2004	0.5	0.41	0.04	1.69	1.25	1.55	0.56	0.89	1.31	0.96	0.73	0	9.89	6.85	-26%	-43%
2005	0.23	0.1	0.46	2.25	1.45	2.78	0.51	1.12	0.2	3.01	0.72	0.31	13.14	10.78	-2%	-11%
2006	0.07	0	0.67	0.52	0.21	0.16	2.12	0.95	0.45	1.6	0.45	3.42	10.62	7.99	-21%	-34%
2007	0.79	0.07	0.4	1.58	4.48	0.3	1.44	3.68	0.57	0.53	0.3	1.08	15.22	14.98	13%	24%
2008	0	0.16	0.43	1.03	1.74	1.66	0.56	6.3	1.06	0.63	0.19	0.61	14.37	8.06	7%	-33%
2009	0.07	0.02	0.62	3.51	1.81	2.02	3.17	0.65	1.07	1.92	0.75	0.89	16.5	13.71	23%	14%
2010	0.1	0.34	0.89	2.62	2.28	2.13	1.52	0.75	0.04	0.75	0.12	0.24	11.78	14.51	-12%	20%
2011	0.18	0.51	0	1.43	6.31	1.34	2.45	1.11	0.78	2.86	0.5	0.66	18.13	13.37	35%	11%
2012	0	0.56	0	1.3	1.87	0.63	0.73	0.14	1.56	1.22	0.47	0.22	8.7	9.89	-35%	-18%
2013	0.11	0.62	0.95	1.39	1.67	0.6	1.04	1.55	3.69	1.08	0.19	0.09	12.98	9.85	-4%	-18%
2014	1.24	0.26	0.83	0.48	4.9	2.67	2.03	1.61	1.96	0.45	0.41	0.45	17.29	17.46	29%	45%
2015	0.31	0.34	0.36	2.45	6.79	2.03	1.11	0.42	0.16	1.56	0.83	0.82	17.18	16.66	28%	38%
2016	0.28	0.74	0.64	3.57	2.81	1.99	3.04	0.69	0.45	0.37	0	0	14.58	16.44	8%	36%
2017	0.53	0.08	0.95	1.51	4.5	1.13	0.72	2.62	1.1	1.19	0.15	0.05	14.53	10.63	8%	-12%
2018	0.21	0.29	1	0.65	3.01	4.77	2.13	0.83	0.33	0.56	0.1	0	13.88	14.55	3%	21%
2019	0.48	0.42	2.36	1.22	2.62	2.03	1.36	1.42	0.72	0.67	0.84	0.31	14.45	11.48	7%	-5%
2020	0.05	0.57	2.44	0.78	1.24	1	1.21	0.47	0.61*	0.36*	0.21*	0.42*	9.35	7.29	9.83	-31%
2021	0.19*	0.22	1.06	1.15	2.84	0.95	0.89	1.29	0.47	0.24	0.01	0.05	9.36	8.89	-30%	-26%
2022	0.62	0.31	1.28	0.36	2.08	0.4	0.76	0.29	0.88	0.38	0.29	1.15	0.88	6.58	-33%	-45%
2023	0.73	0.14	0.5	1.74	5.37	4.75	2.73	0.45	0.32	0.59	0.19	0.08	17.59	18.66	35%	60%
2024	0.11	0.83	1	1.79	0.93	0.78	0.63	1.13	1.65	0.24			9.09	7.25	-30%	-38%
Mean (1993-2022)	0.35	0.29	0.79	1.60	2.71	1.69	1.37	1.41	0.99	0.98	0.45	0.44	13.06	11.86		

* CoCoRaHS (2021) data substituted for on-site data.

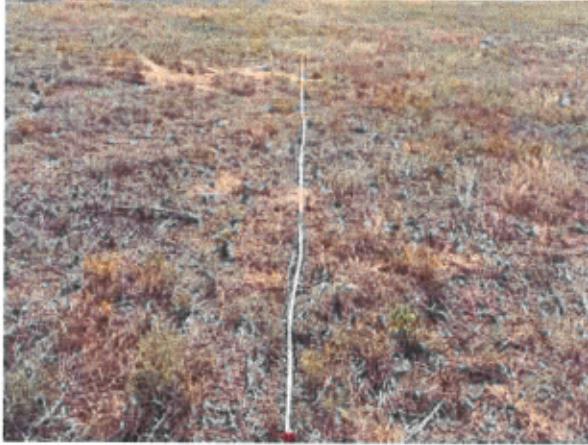
Keenesburg Mine 2024 Vegetation Monitoring Report

Appendix F: Cover Transect Photographs

Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 25

Transect 1



Transect 2



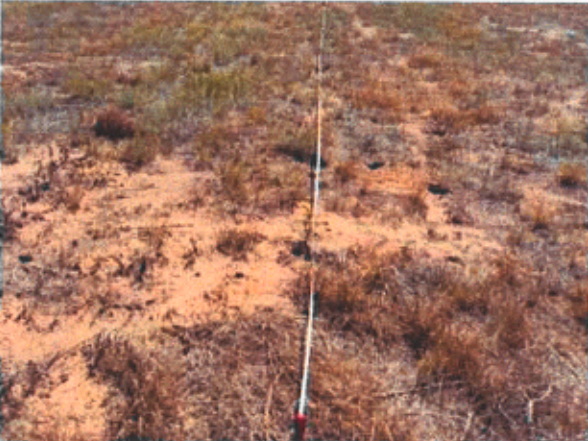
Transect 3



Transect 4



Transect 5



Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 25

Transect 7



Transect 8



Transect 9



Transect 10



Transect 11



Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 25

Transect 13



Transect 14



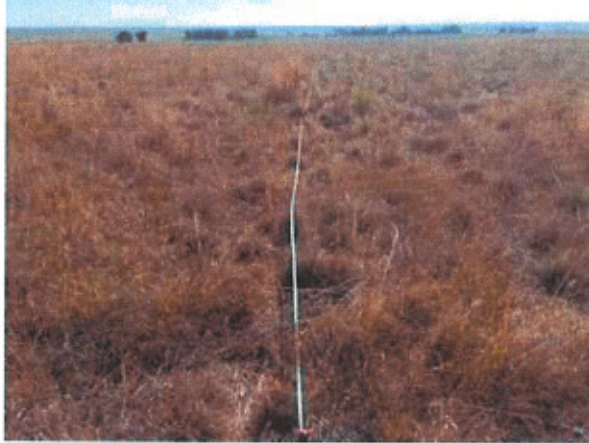
Transect 15



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 32

Transect 1



Transect 2



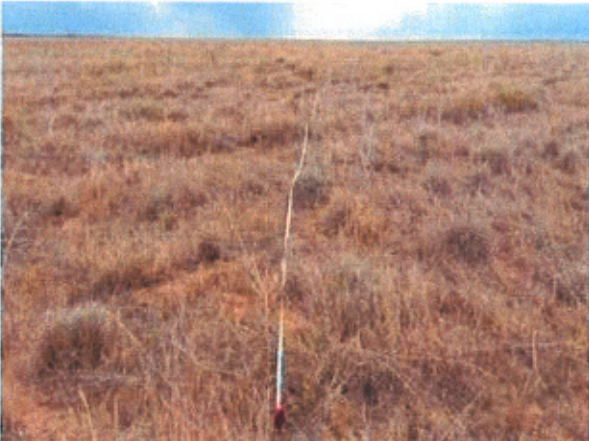
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Transect 4



Transect 5



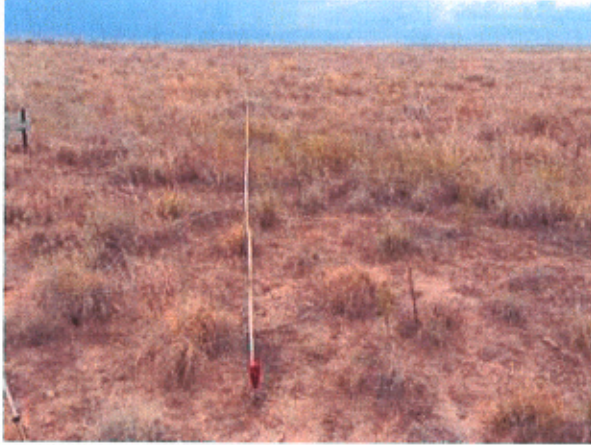
Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 32

Transect 7



Transect 8



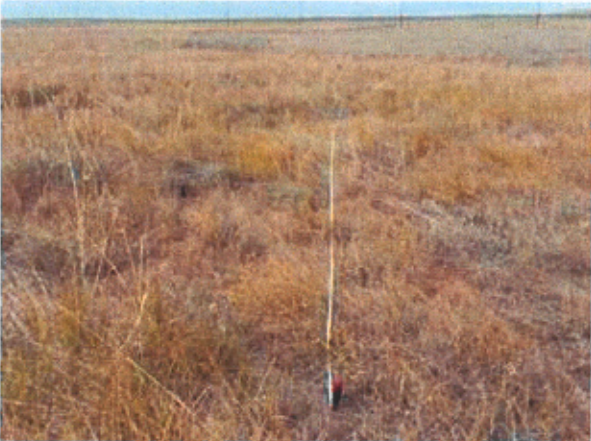
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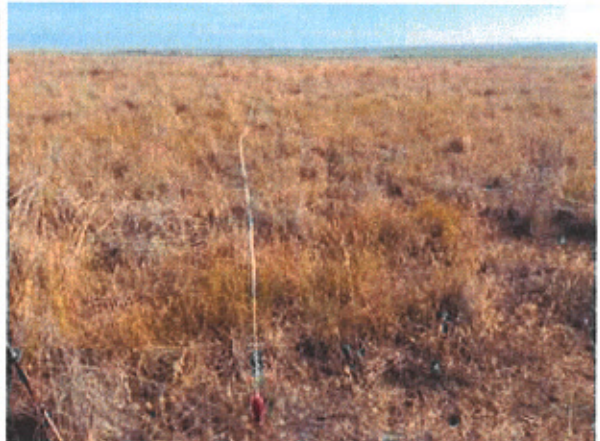
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Transect 11



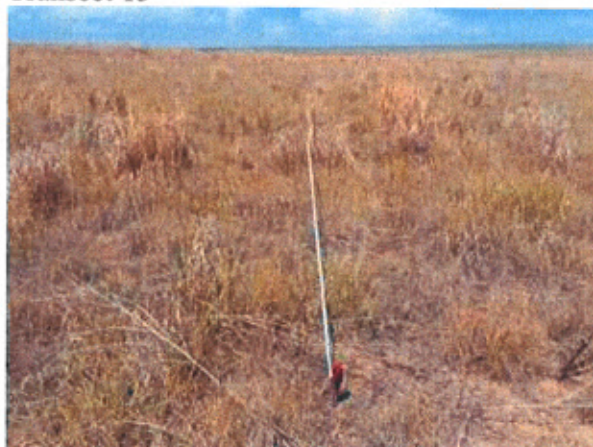
Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 32

Transect 13



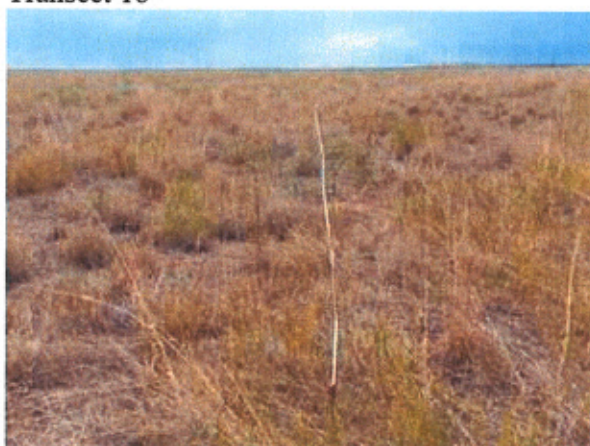
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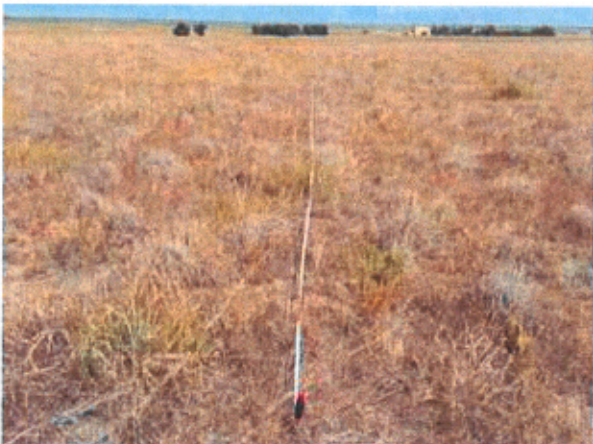
Transect 15



Transect 16



Transect 17



Transect 18



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 32

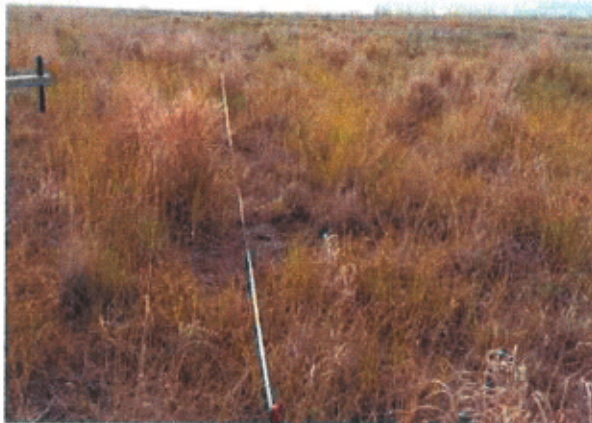
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Transect 20



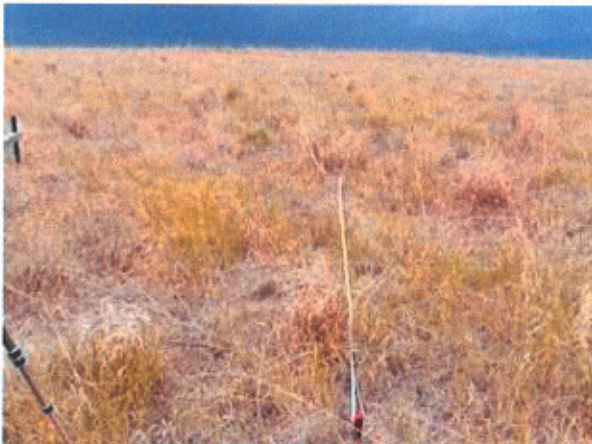
Transect 21



Transect 22



Transect 23



Transect 24



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 32

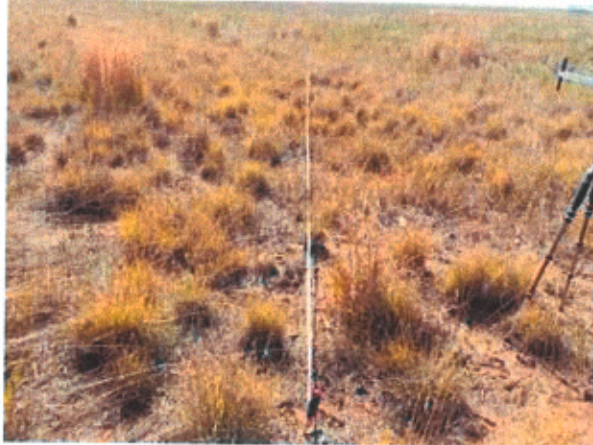
Transect 25



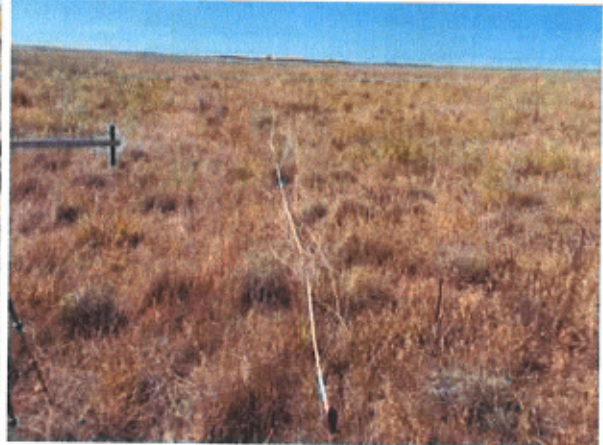
Transect 26



Transect 27



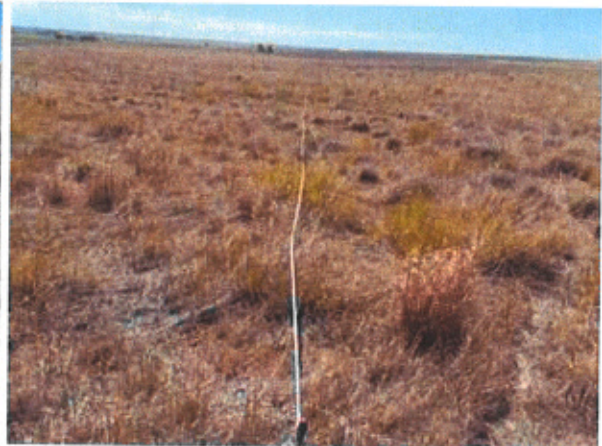
Transect 28



Transect 29



Transect 30



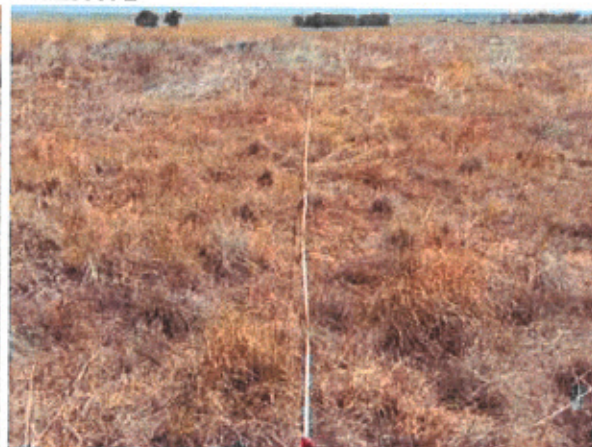
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 33

Transect 1



Transect 2



Transect 3



Transect 4



Transect 5



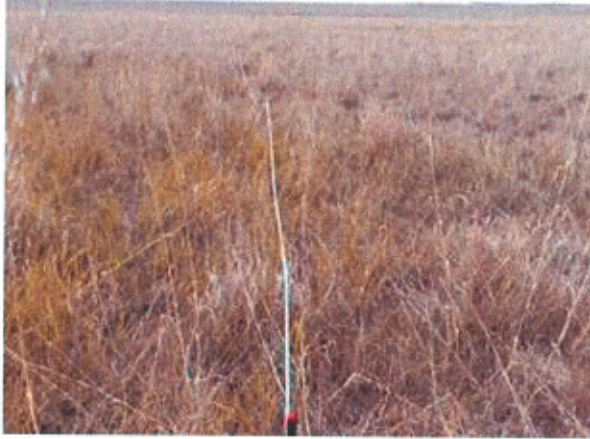
Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 33

Transect 7



Transect 8



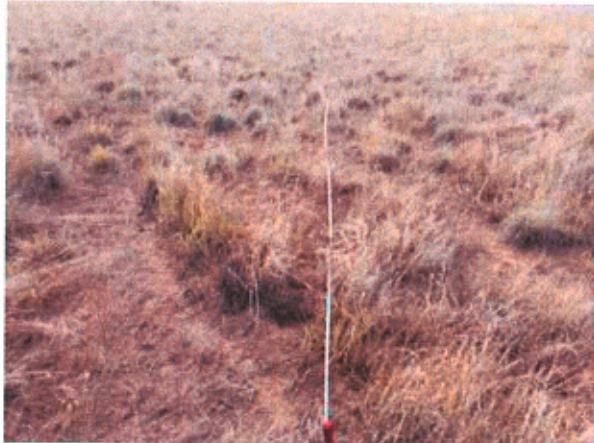
Transect 9



Transect 10



Transect 11



Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 33

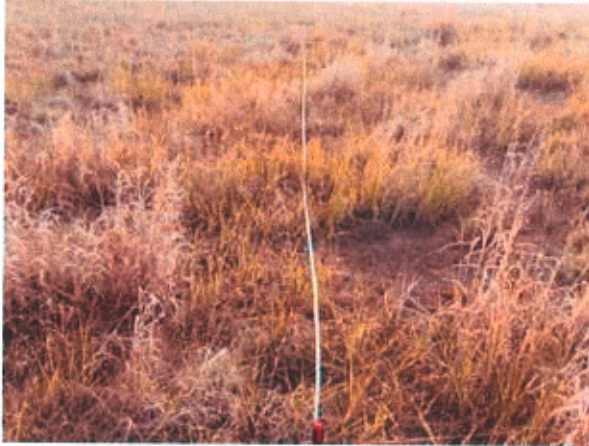
Transect 13



Transect 14



Transect 15



Transect 16



Transect 17



Transect 18



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 33

Transect 19



Transect 20



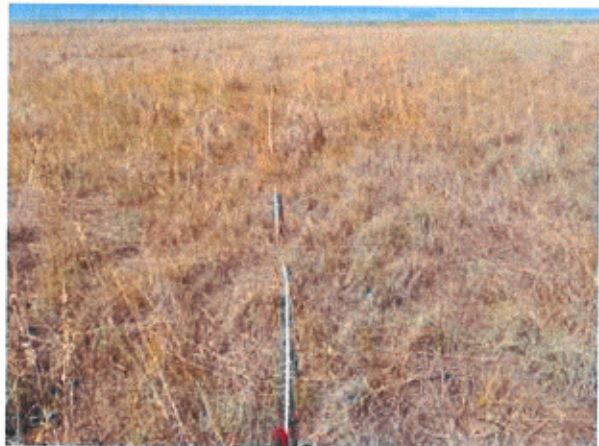
Transect 21



Transect 22



Transect 23



Transect 24



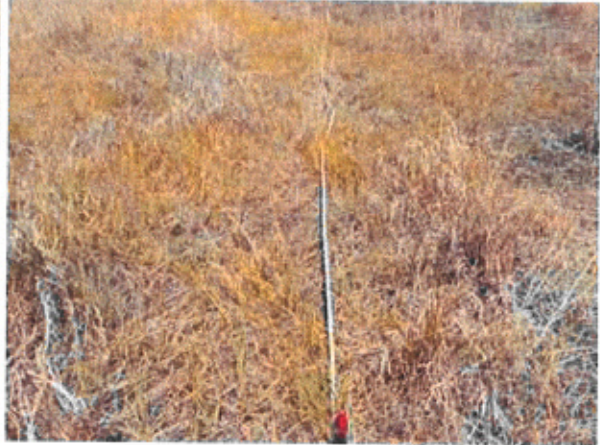
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 33

Transect 25



Transect 26



Transect 27



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 34

Transect 1



Transect 2



Transect 3



Transect 4



Transect 5



Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 34

Transect 7



Transect 8



Transect 9



Transect 10



Transect 11



Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 34

Transect 13



Transect 14



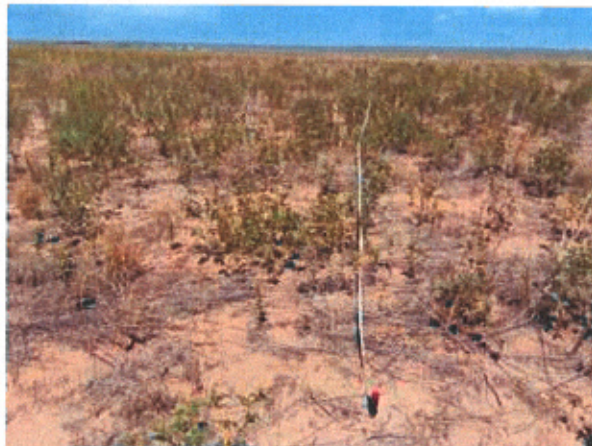
Transect 15



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 35

Transect 1



Transect 2



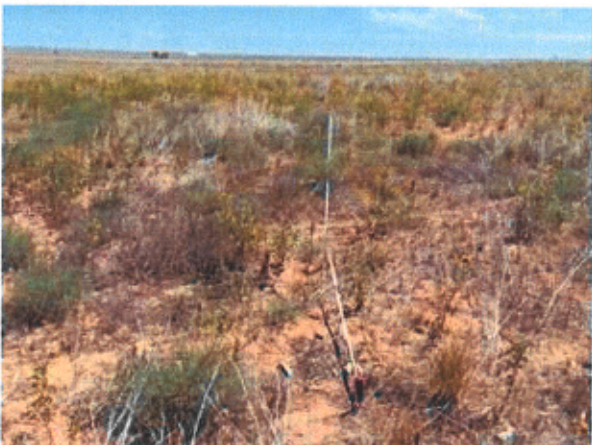
Transect 3



Transect 4



Transect 5



Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 35

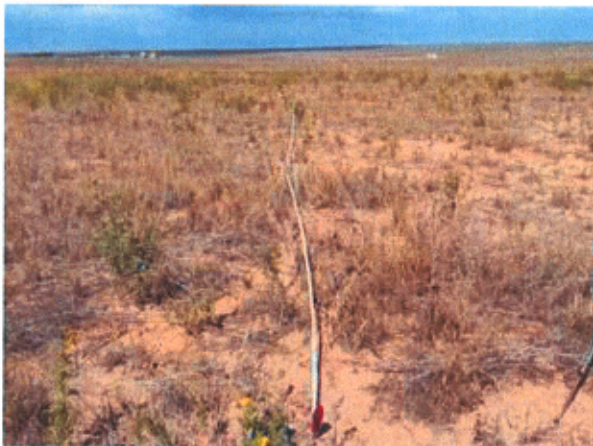
Transect 7



Transect 8



Transect 9



Transect 10



Transect 11



Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 35

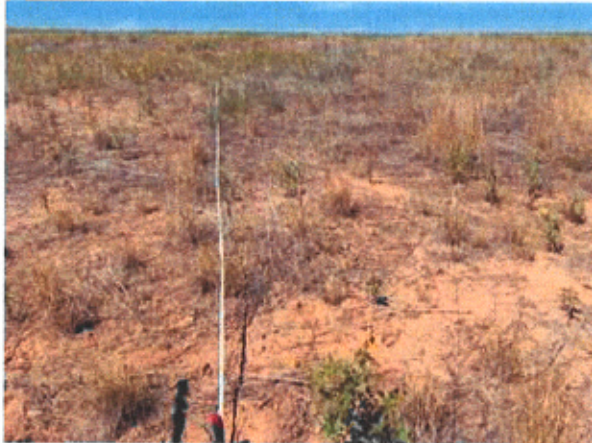
Transect 13



Transect 14



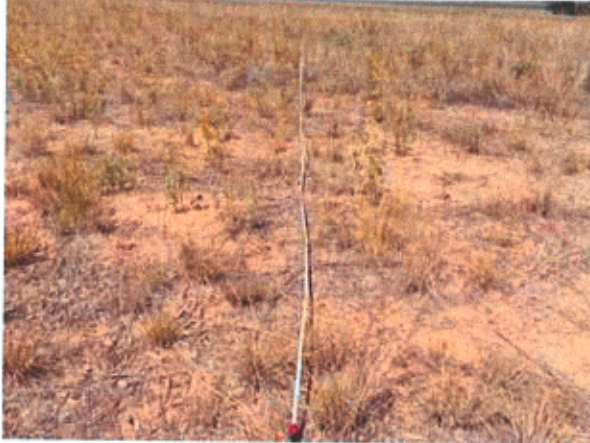
Transect 15



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 36

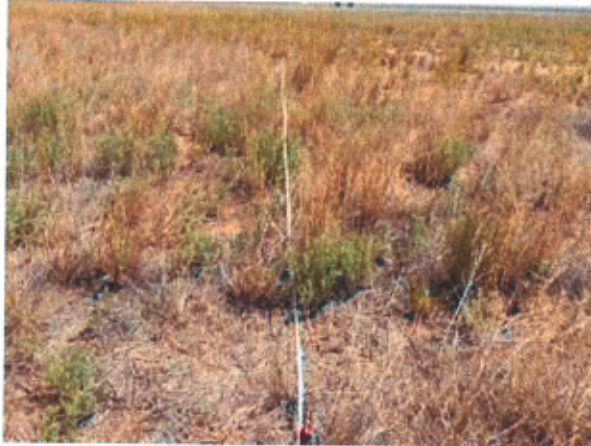
Transect 1



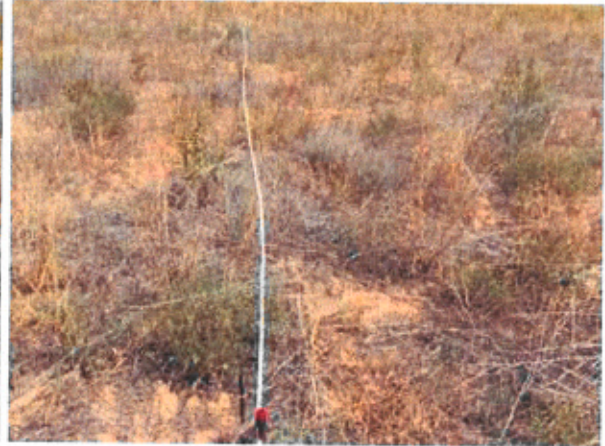
Transect 2



Transect 3



Transect 4



Transect 5



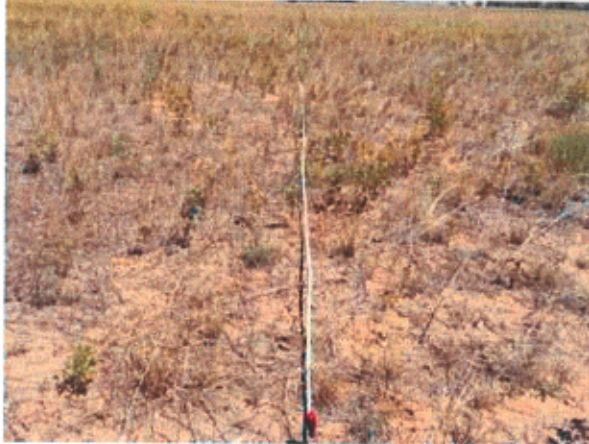
Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 36

Transect 7



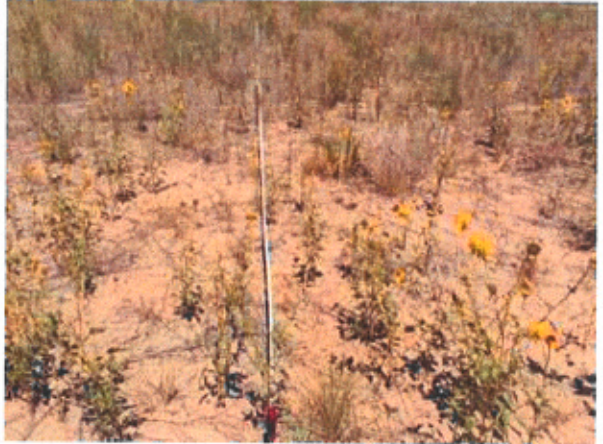
Transect 8



Transect 9



Transect 10



Transect 11



Transect 12



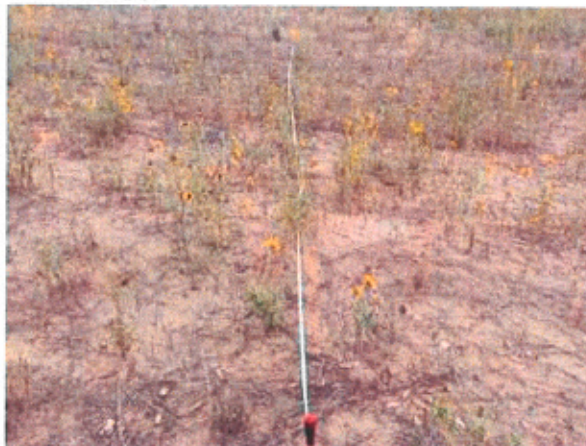
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 36

Transect 13



Transect 14



Transect 15



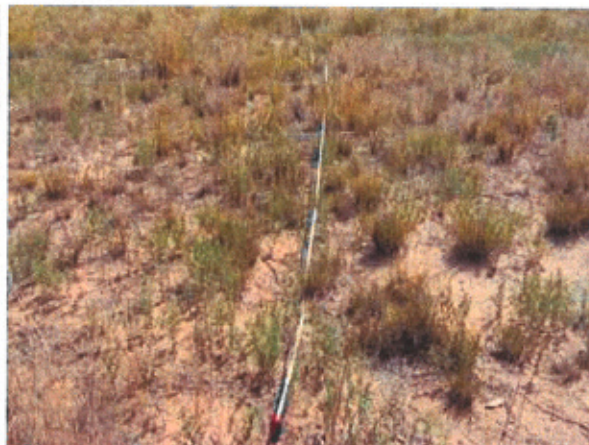
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 37

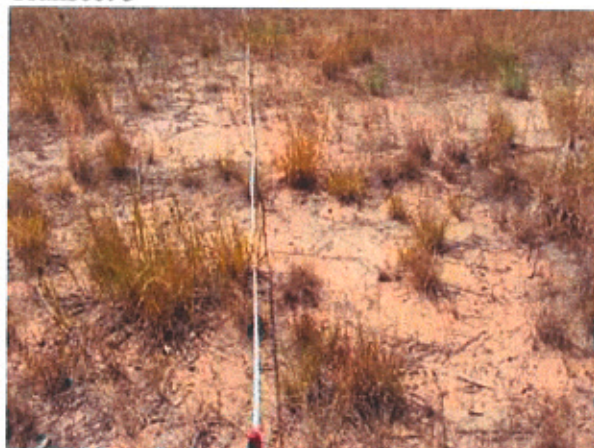
Transect 1



Transect 2



Transect 3



Transect 4



Transect 5



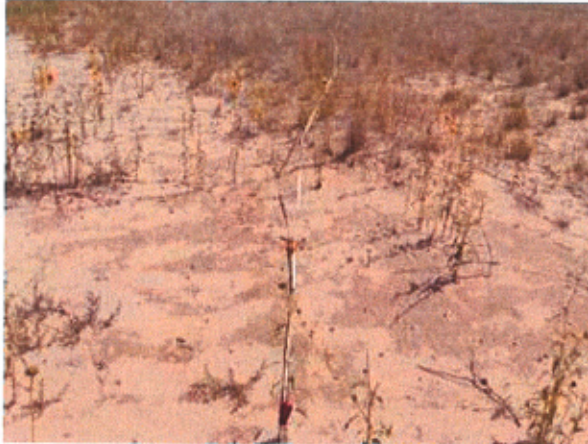
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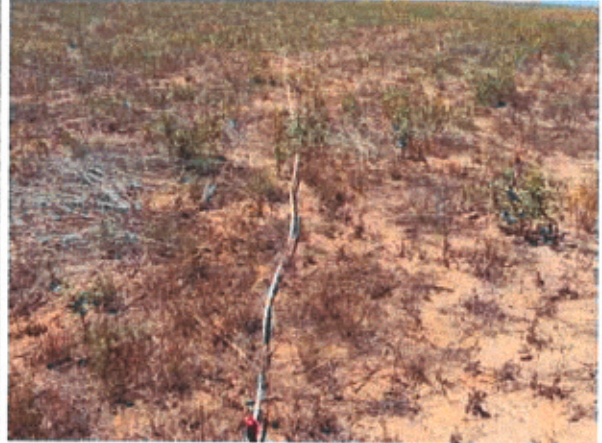
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 37

Transect 7



Transect 8



Transect 9



Transect 10



Transect 11



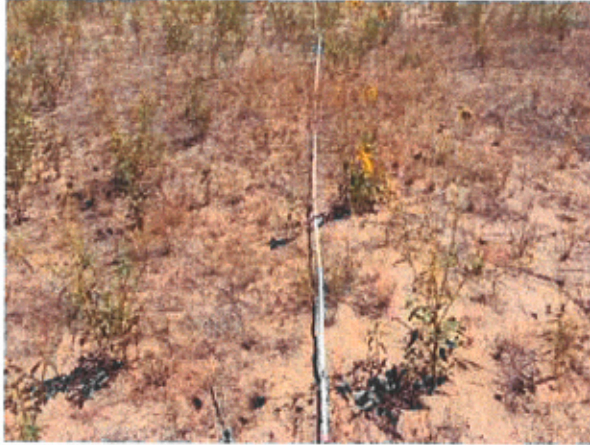
Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 37

Transect 13



Transect 14



Transect 15



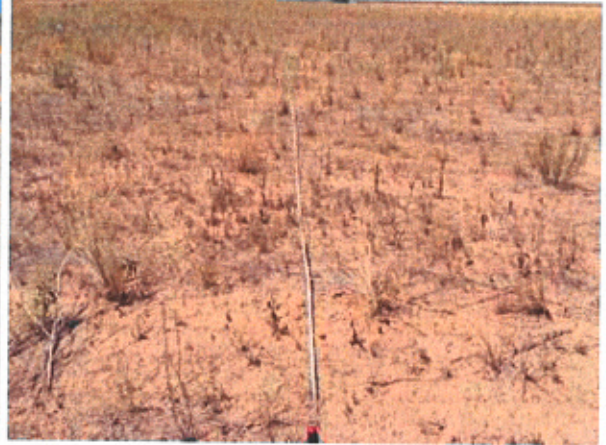
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 38

Transect 1



Transect 2



Transect 3



Transect 4



Transect 5



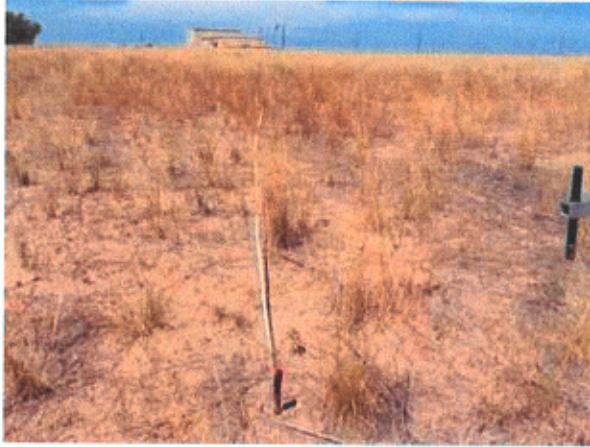
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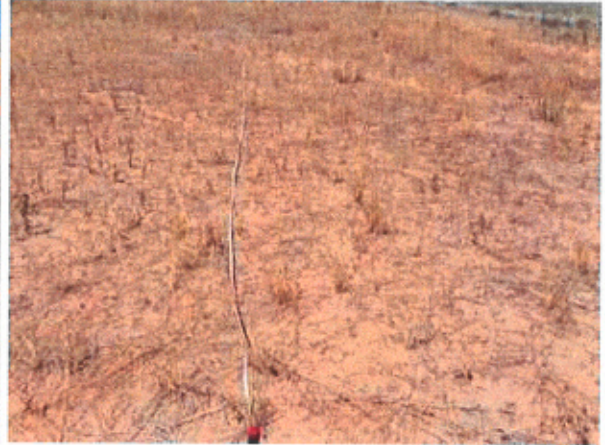
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 38

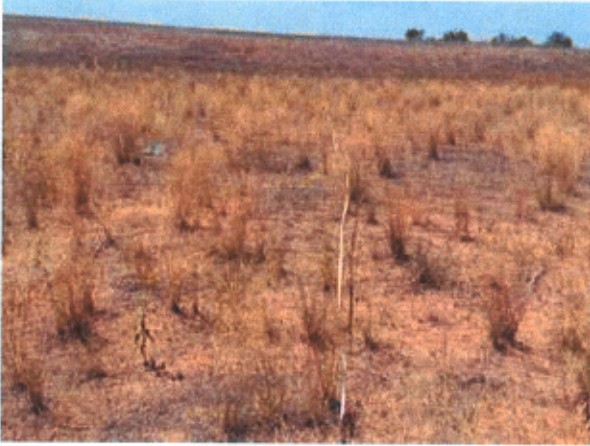
Transect 7



Transect 8



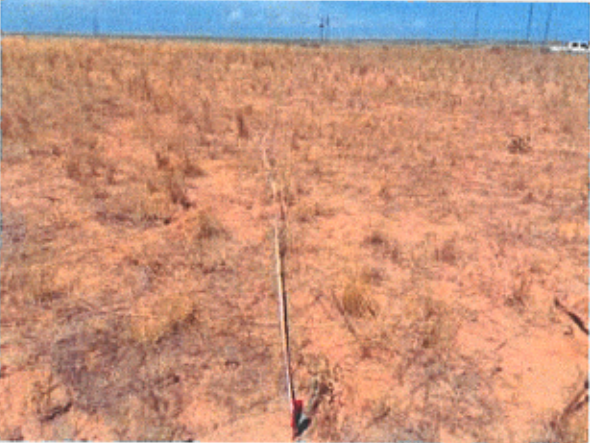
Transect 9



Transect 10



Transect 11



Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 38

Transect 13



Transect 14



Transect 15



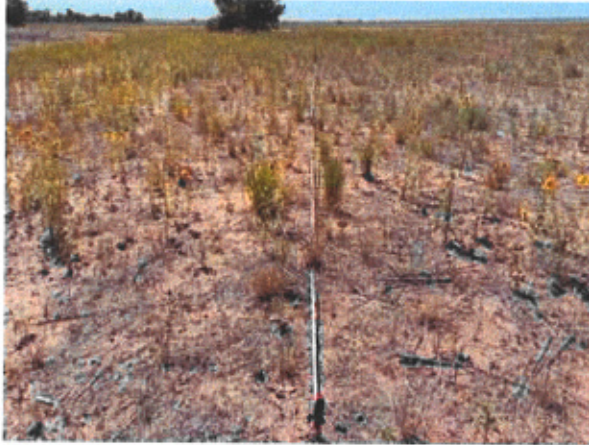
Transect 16



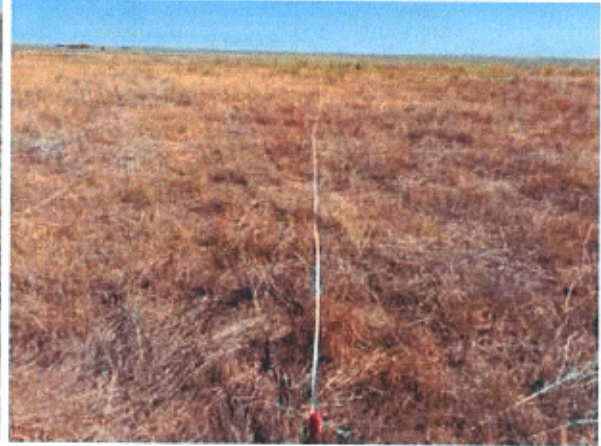
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 42

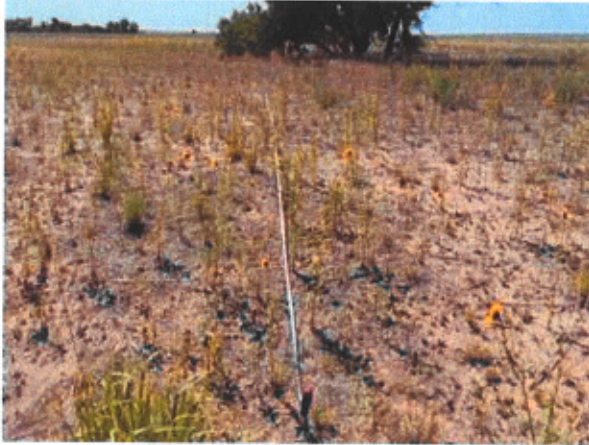
Transect 1



Transect 2



Transect 3



Transect 4



Transect 5



Transect 6



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 42

Transect 7



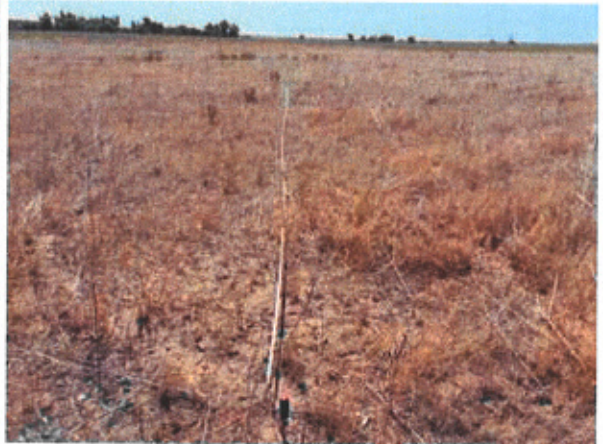
Transect 8



Transect 9



Transect 10



Transect 11



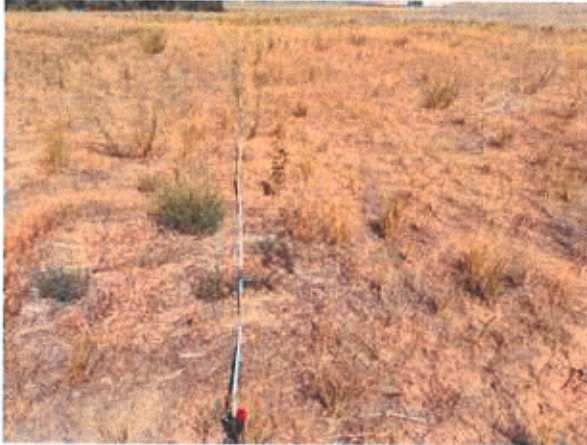
Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 42

Transect 13



Transect 14



Transect 15



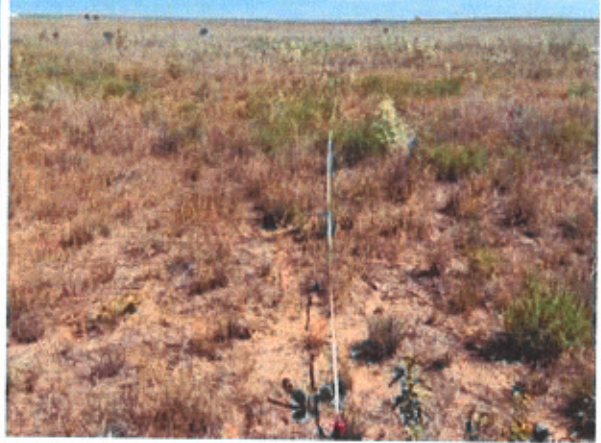
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 43

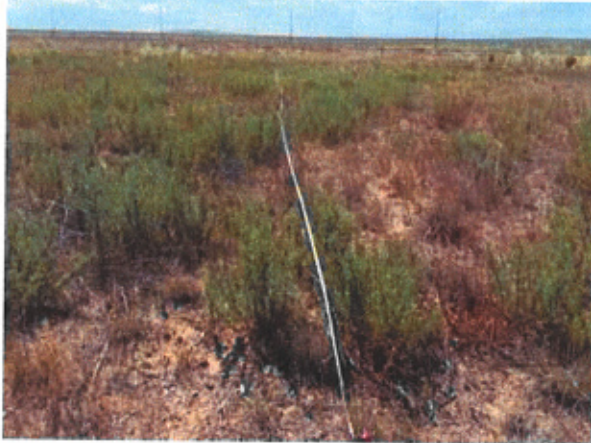
Transect 1



Transect 2



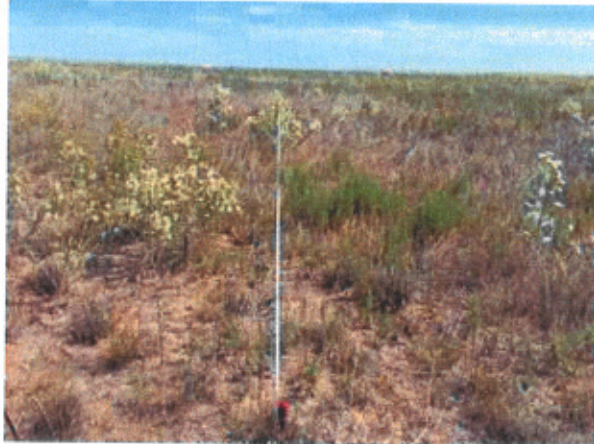
Transect 3



Transect 4



Transect 5



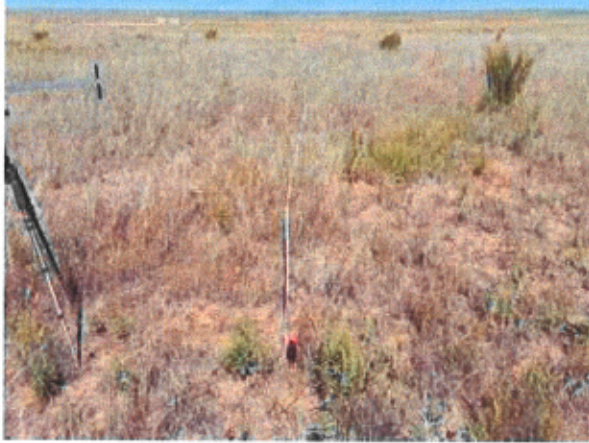
Transect 6



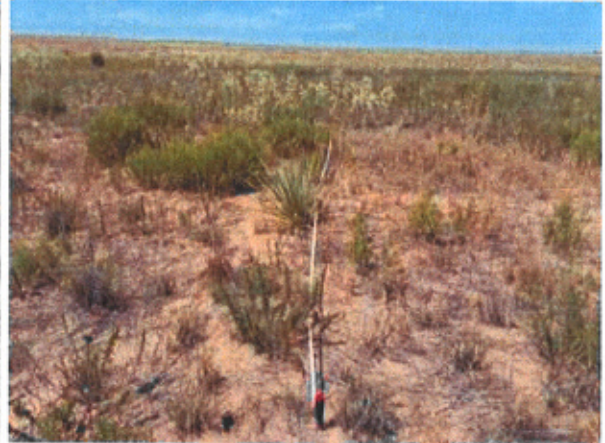
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 43

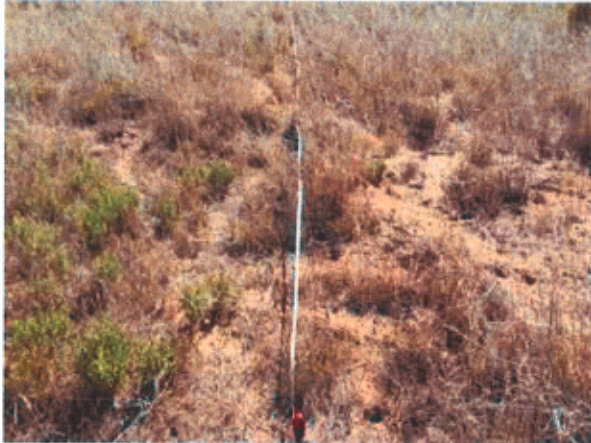
Transect 7



Transect 8



Transect 9



Transect 10



Transect 11



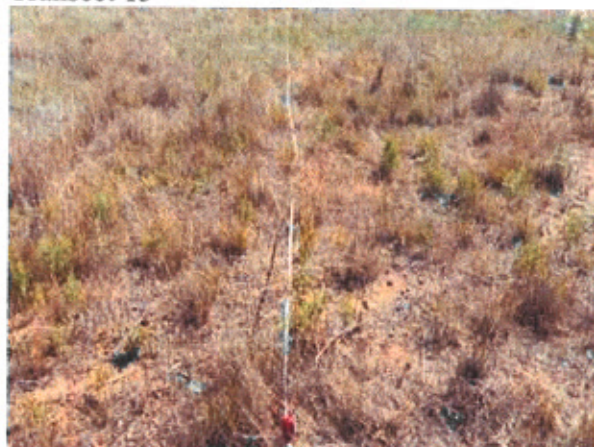
Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 43

Transect 13



Transect 14



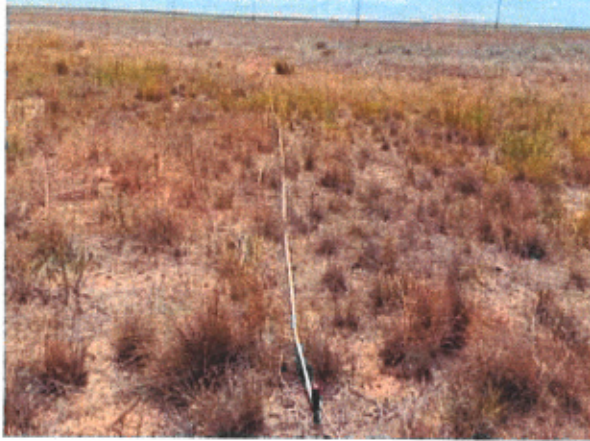
Transect 15



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 44

Transect 1



Transect 2



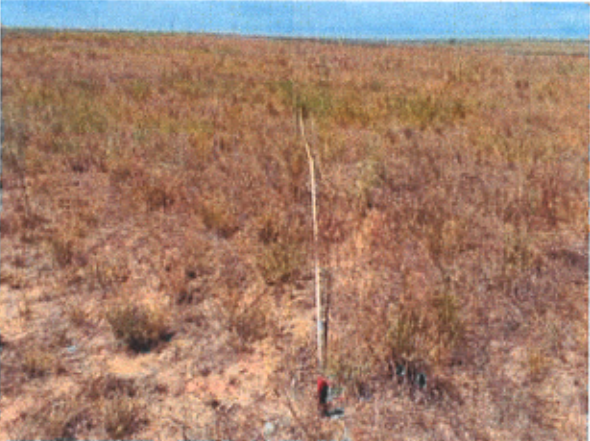
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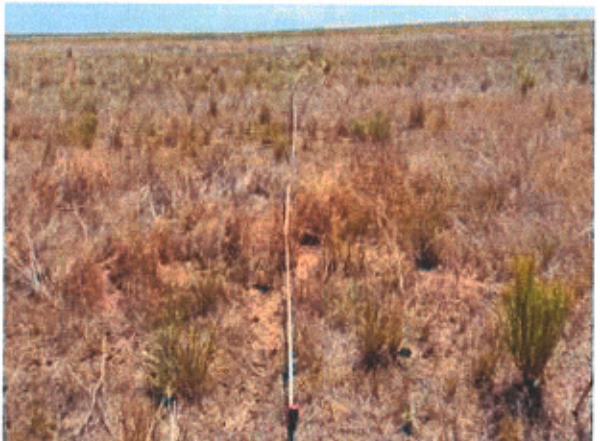
Transect 4



Transect 5



Transect 6



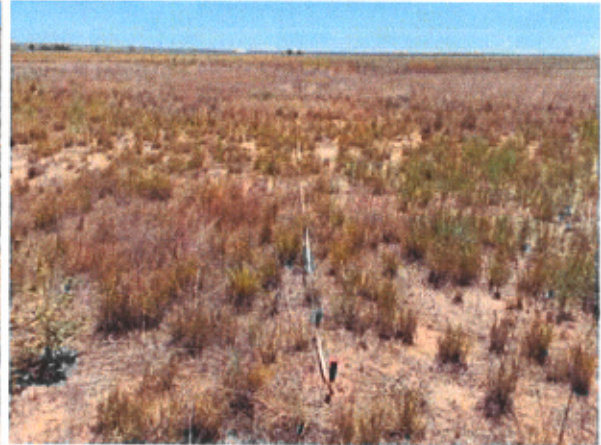
Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 44

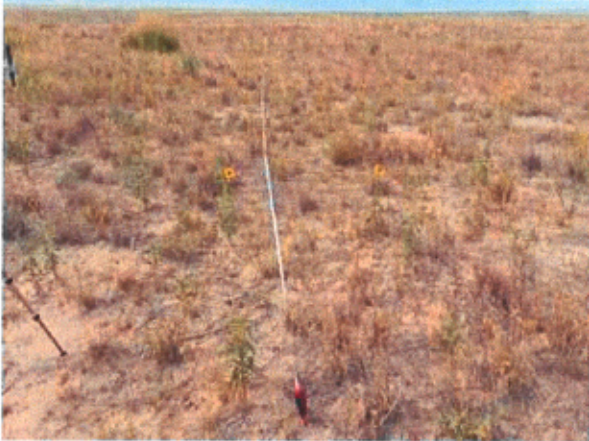
Transect 7



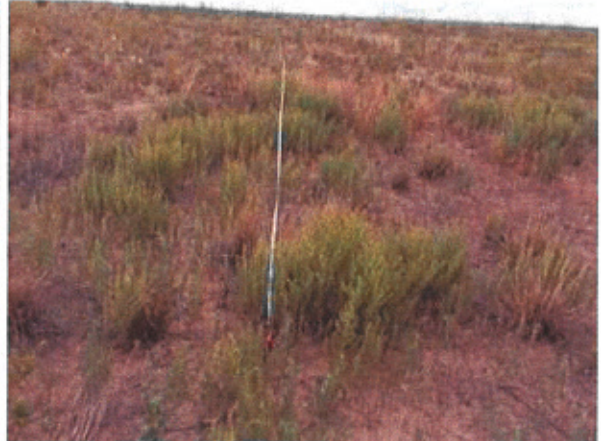
Transect 8



Transect 9



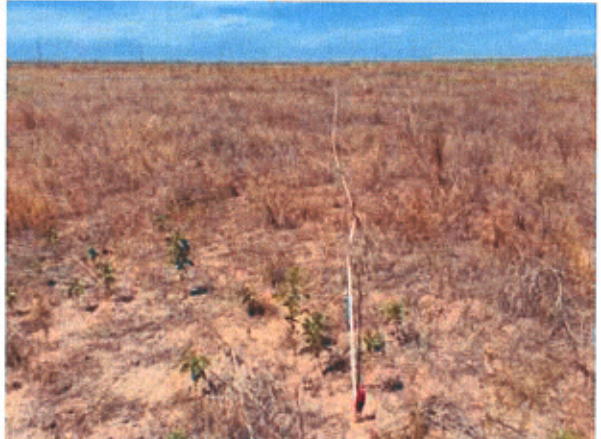
Transect 10



Transect 11



Transect 12



Keenesburg Mine 2024 Vegetation Monitoring Report

Reclamation Area 44

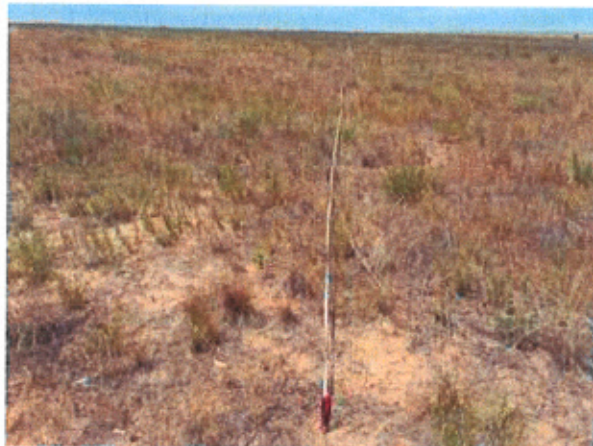
Transect 13



Transect 14



Transect 15



Keenesburg Mine 2024 Vegetation Monitoring Report

Appendix G: Pest & Disease Inspection Reports

**Keenesburg Mine -1st Quarter 2024
Pest & Disease Inspection**



On March 27, 2024 Habitat Management inspected the operational, bonded reclaimed, and shop areas at the Keenesburg Mine for plant pests, plant diseases, and noxious weeds that could or have affected establishment of vegetation on reclaimed lands. The following areas were inspected and are depicted on Map 1:

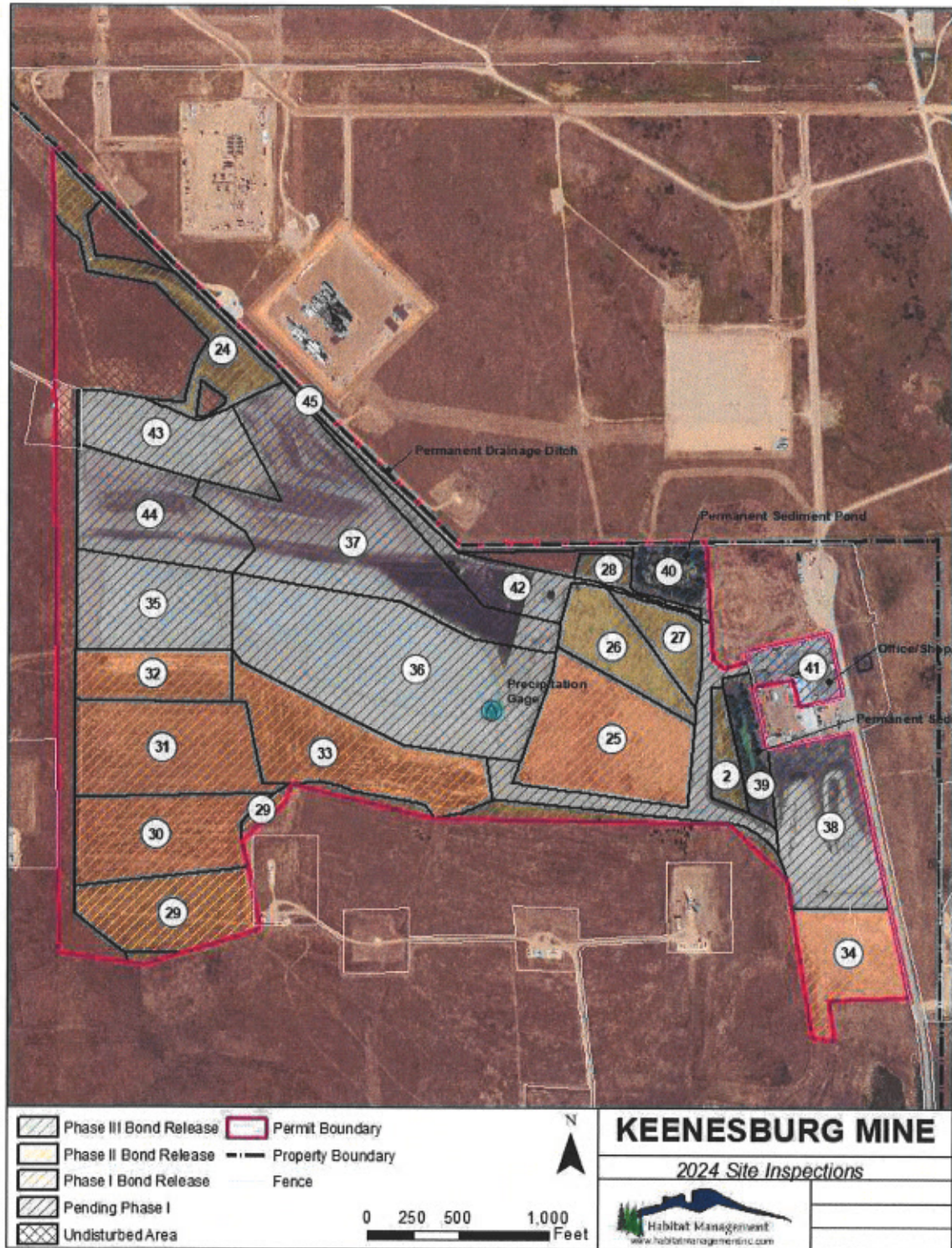
- Office/shop/facility area;
- Bonded reclamation;
- Permanent sediment ponds; and,
- Undisturbed land within the permit boundary.

Plant pests or diseases were not observed within the areas inspected. The vegetation has not been adversely affected by plant pests. Areas affected by infestation or blight were not identified during this inspection. No areas were observed where noxious weed species were impacting normal growth and establishment of vegetation on reclaimed lands.

**Keenesburg Mine -1st Quarter 2024
Pest & Disease Inspection**



Map 1: Coors Energy Company-Keenesburg Mine



**Keenesburg Mine – 2nd Quarter 2024
Pest & Disease Inspection**



On June 21, 2024 Habitat Management inspected the operational, bonded reclaimed, and shop areas at the Keenesburg Mine for plant pests, plant diseases, and noxious weeds that could or have affected establishment of vegetation on reclaimed lands. The following areas were inspected and are depicted on Map 1:

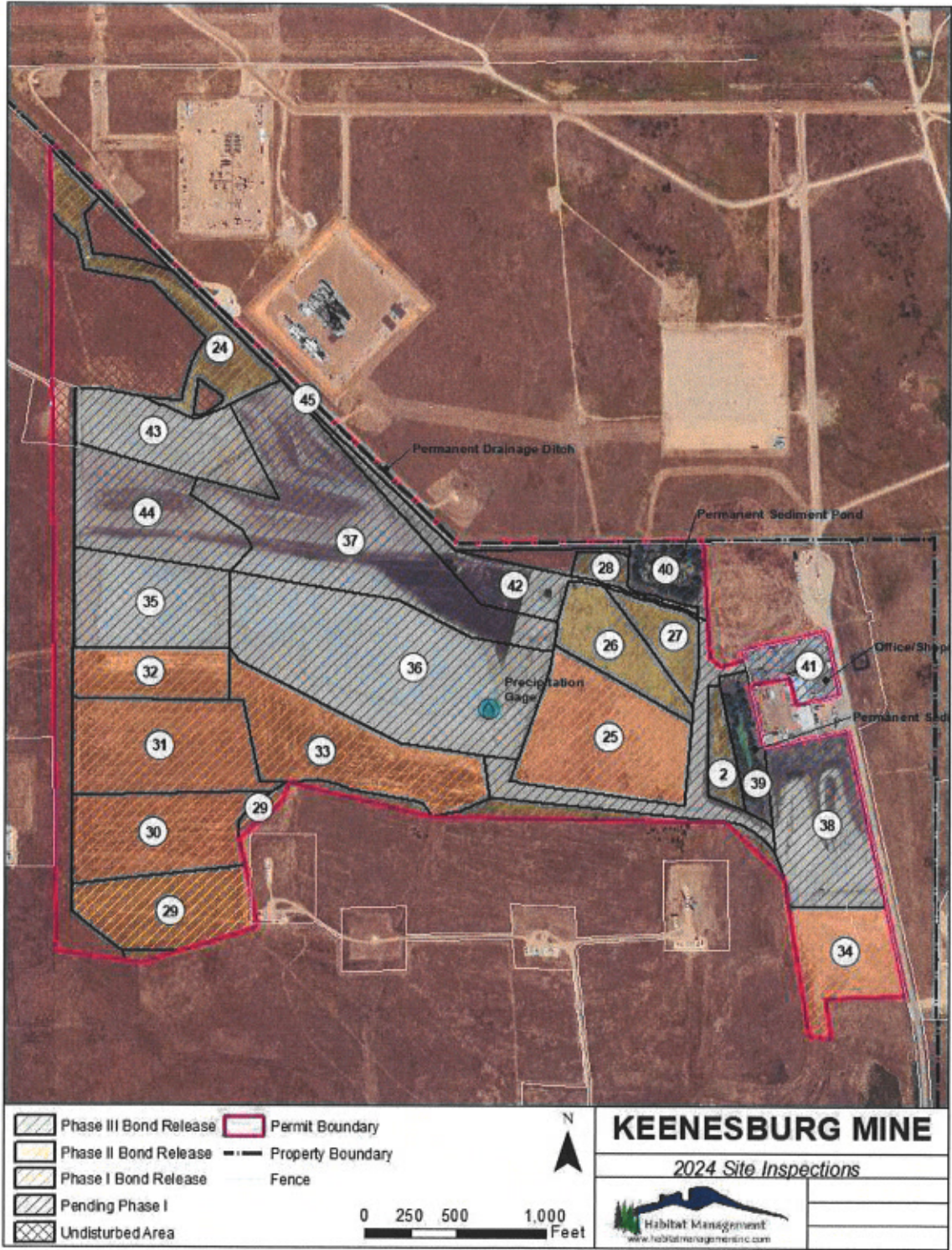
- Office/shop/facility area;
- Bonded reclamation;
- Permanent sediment ponds; and,
- Undisturbed land within the permit boundary.

Plant pests or diseases were not observed within the areas inspected. The vegetation has not been adversely affected by plant pests. Areas affected by infestation or blight were not identified during this inspection. No areas were observed where noxious weed species were impacting normal growth and establishment of vegetation on reclaimed lands.

**Keenesburg Mine – 2nd Quarter 2024
Pest & Disease Inspection**



Map 1: Coors Energy Company-Keenesburg Mine



**Keenesburg Mine – 3rd Quarter 2024
Pest & Disease Inspection**



On September 18, 2024 Habitat Management inspected the operational, bonded reclaimed, and shop areas at the Keenesburg Mine for plant pests, plant diseases, and noxious weeds that could or have affected establishment of vegetation on reclaimed lands. The following areas were inspected and are depicted on Map 1:

- Office/shop/facility area;
- Bonded reclamation;
- Permanent sediment ponds; and,
- Undisturbed land within the permit boundary.

Plant pests or diseases were not observed within the areas inspected. The vegetation has not been adversely affected by plant pests. Areas affected by infestation or blight were not identified during this inspection. No areas were observed where noxious weed species were impacting normal growth and establishment of vegetation on reclaimed lands.