

**WBI ENERGY TRANSMISSION, INC.  
NORTH BAKKEN EXPANSION PROJECT**

**Resource Report 8  
Revised Appendices**

- Appendix 8A, Additional Temporary Workspace
- Appendix 8B, Access Roads
- Appendix 8C, Road and Railroad Crossings

**NORTH BAKKEN EXPANSION PROJECT**

**Resource Report 8**

**APPENDIX 8A  
Additional Temporary Workspace**

APPENDIX 8A				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	0.4	Developed, Open Land	<0.1	Williams
Tioga-Elkhorn Creek	0.4	Open Land	0.3	Williams
Tioga-Elkhorn Creek	0.4	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	0.5	Agricultural	0.2	Williams
Tioga-Elkhorn Creek	0.9	Agricultural	0.4	Williams
Tioga-Elkhorn Creek	0.9	Agricultural, Open Land	0.8	Williams
Tioga-Elkhorn Creek	1.0	Agricultural	0.8	Williams
Tioga-Elkhorn Creek	1.0	Agricultural	0.4	Williams
Tioga-Elkhorn Creek	1.9	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	1.9	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	1.9	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	2.0	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	2.1	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	2.1	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	2.1	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	2.2	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	3.2	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	3.2	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	3.2	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	3.2	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	4.3	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	4.3	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	4.4	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	4.4	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	5.3	Agricultural	0.2	Williams
Tioga-Elkhorn Creek	5.3	Agricultural	0.7	Williams
Tioga-Elkhorn Creek	5.4	Agricultural	0.2	Williams
Tioga-Elkhorn Creek	5.4	Agricultural	0.7	Williams
Tioga-Elkhorn Creek	6.2	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	6.2	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	6.3	Agricultural	0.3	Williams

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	6.3	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	7.1	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	7.1	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	7.2	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	7.2	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	7.4	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	7.4	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	7.5	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	7.5	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	8.5	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	8.5	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	8.5	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	8.6	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	9.2	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	9.2	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	9.3	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	9.3	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	12.1	Agricultural, Open Land	0.3	Williams
Tioga-Elkhorn Creek	12.1	Agricultural, Open Land	<0.1	Williams
Tioga-Elkhorn Creek	12.2	Open Land	<0.1	Williams
Tioga-Elkhorn Creek	12.2	Open Land	0.3	Williams
Tioga-Elkhorn Creek	14.2	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	14.2	Agricultural	0.3	Williams
Tioga-Elkhorn Creek	14.3	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	14.3	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	16.2	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	16.2	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	16.3	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	16.3	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	18.1	Open Land	0.2	Williams
Tioga-Elkhorn Creek	18.2	Agricultural, Open Land	0.2	Williams
Tioga-Elkhorn Creek	18.3	Agricultural	0.2	Williams

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	18.3	Agricultural	0.7	Williams
Tioga-Elkhorn Creek	18.5	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	18.5	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	18.5	Agricultural, Developed	<0.1	Williams
Tioga-Elkhorn Creek	18.5	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	19.7	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	19.7	Agricultural, Developed, Open Land	<0.1	Williams
Tioga-Elkhorn Creek	19.8	Open Land	<0.1	Williams
Tioga-Elkhorn Creek	19.8	Open Land	0.4	Williams
Tioga-Elkhorn Creek	19.9	Developed	<0.1	Williams
Tioga-Elkhorn Creek	19.9	Agricultural, Developed, Open Land	27.8	Williams
Tioga-Elkhorn Creek	20.8	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	20.9	Agricultural	<0.1	Williams
Tioga-Elkhorn Creek	20.9	Developed	0.3	Williams
Tioga-Elkhorn Creek	22.4	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	22.4	Agricultural, Developed	0.3	Williams
Tioga-Elkhorn Creek	22.9	Agricultural, Open Land	<0.1	Williams
Tioga-Elkhorn Creek	23.0	Agricultural, Open Land	0.6	Williams
Tioga-Elkhorn Creek	23.0	Open Land	1.4	Williams
Tioga-Elkhorn Creek	26.0	Agricultural, Open Land	1.4	McKenzie
Tioga-Elkhorn Creek	26.0	Agricultural, Open Land	0.6	McKenzie
Tioga-Elkhorn Creek	26.3	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	26.3	Agricultural, Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	26.5	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	26.5	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	27.4	Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	27.4	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	27.6	Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	27.6	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	28.6	Open Land	<0.1	McKenzie

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	28.6	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	28.7	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	28.7	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	28.9	Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	28.9	Open Land	0.2	McKenzie
Tioga-Elkhorn Creek	29.2	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	29.2	Open Land	1.7	McKenzie
Tioga-Elkhorn Creek	29.2	Open Land	0.1	McKenzie
Tioga-Elkhorn Creek	29.9	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	29.9	Developed, Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	29.9	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	30.0	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	30.2	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	30.2	Open Land	0.2	McKenzie
Tioga-Elkhorn Creek	30.3	Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	30.3	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	30.8	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	30.8	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	30.9	Developed	0.3	McKenzie
Tioga-Elkhorn Creek	30.9	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	34.7	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	34.7	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	34.7	Agricultural	0.5	McKenzie
Tioga-Elkhorn Creek	34.8	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	36.4	Agricultural	0.2	McKenzie
Tioga-Elkhorn Creek	36.4	Agricultural, Open Land	0.2	McKenzie
Tioga-Elkhorn Creek	36.5	Agricultural	0.1	McKenzie
Tioga-Elkhorn Creek	36.5	Agricultural	0.3	McKenzie
Tioga-Elkhorn Creek	36.9	Agricultural, Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	36.9	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	37.0	Open Land	0.3	McKenzie

APPENDIX 8A (cont'd)				
North Bakken Expansion Project Additional Temporary Workspaces				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	37.0	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	38.5	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	38.5	Agricultural, Open Land	0.2	McKenzie
Tioga-Elkhorn Creek	38.7	Developed, Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	38.7	Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	38.9	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	38.9	Open Land	0.7	McKenzie
Tioga-Elkhorn Creek	39.0	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	39.0	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	39.4	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	39.4	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	39.5	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	39.5	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	41.7	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	41.7	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	41.8	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	41.8	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	42.9	Agricultural, Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	42.9	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	42.9	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	42.9	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	43.8	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	43.8	Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	43.9	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	43.9	Agricultural, Developed	0.5	McKenzie
Tioga-Elkhorn Creek	44.0	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	44.1	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	44.1	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	44.8	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	44.8	Open Land	0.2	McKenzie
Tioga-Elkhorn Creek	45.0	Agricultural	0.2	McKenzie

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	45.0	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	46.9	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	46.9	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	47.0	Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	47.0	Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	47.0	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	47.0	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	48.0	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	48.0	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	48.0	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	48.0	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	49.0	Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	49.0	Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	49.0	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	49.0	Agricultural, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	49.3	Agricultural, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	49.4	Agricultural	0.3	McKenzie
Tioga-Elkhorn Creek	49.4	Agricultural, Developed	<0.1	McKenzie
Tioga-Elkhorn Creek	49.4	Agricultural, Developed	0.3	McKenzie
Tioga-Elkhorn Creek	50.0	Agricultural, Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	50.0	Agricultural, Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	50.1	Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	50.1	Developed, Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	51.2	Agricultural	0.2	McKenzie
Tioga-Elkhorn Creek	51.2	Open Land	0.1	McKenzie
Tioga-Elkhorn Creek	51.3	Agricultural, Developed	0.1	McKenzie
Tioga-Elkhorn Creek	51.4	Agricultural, Open Land	0.6	McKenzie
Tioga-Elkhorn Creek	51.5	Open Land	0.6	McKenzie
Tioga-Elkhorn Creek	51.5	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	51.6	Open Land	0.2	McKenzie
Tioga-Elkhorn Creek	51.6	Open Land	0.7	McKenzie



APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Tioga-Elkhorn Creek	52.3	Agricultural, Open Land	0.7	McKenzie
Tioga-Elkhorn Creek	52.3	Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	52.4	Agricultural, Developed, Open Land	0.4	McKenzie
Tioga-Elkhorn Creek	52.4	Agricultural	0.7	McKenzie
Tioga-Elkhorn Creek	55.2	Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	55.2	Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	55.2	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	55.3	Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	57.1	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	57.1	Agricultural	0.3	McKenzie
Tioga-Elkhorn Creek	57.2	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	57.2	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	57.3	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	57.3	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	57.4	Agricultural	<0.1	McKenzie
Tioga-Elkhorn Creek	57.4	Agricultural	0.3	McKenzie
Tioga-Elkhorn Creek	58.2	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	58.2	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	58.5	Open Land	0.7	McKenzie
Tioga-Elkhorn Creek	58.5	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	58.6	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	58.6	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	58.7	Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	58.7	Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	60.2	Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	60.2	Developed, Open Land	<0.1	McKenzie
Tioga-Elkhorn Creek	60.3	Agricultural, Developed, Open Land	0.3	McKenzie
Tioga-Elkhorn Creek	60.3	Agricultural, Open Land	<0.1	McKenzie
Line Section 25 Loop	0.5	Developed, Open Land	0.2	Williams
Line Section 25 Loop	0.6	Open Land	0.1	Williams
Line Section 25 Loop	0.6	Open Land	0.2	Williams

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Line Section 25 Loop	0.7	Open Land	0.2	Williams
Line Section 25 Loop	0.7	Open Land	0.1	Williams
Line Section 25 Loop	0.8	Open Land	0.6	Williams
Line Section 25 Loop	0.8	Open Land	0.3	Williams
Line Section 25 Loop	1.0	Developed, Open Land	0.1	Williams
Line Section 25 Loop	1.0	Developed, Open Land	0.3	Williams
Line Section 25 Loop	1.0	Agricultural, Developed, Open Land	0.1	Williams
Line Section 25 Loop	1.0	Agricultural, Open Land	0.4	Williams
Line Section 25 Loop	2.0	Agricultural, Developed	0.7	Williams
Line Section 25 Loop	2.1	Agricultural, Developed	1.3	Williams
Line Section 25 Loop	3.1	Agricultural	0.2	Williams
Line Section 25 Loop	3.1	Agricultural	0.3	Williams
Line Section 25 Loop	3.2	Agricultural	0.7	Williams
Line Section 25 Loop	3.2	Agricultural	0.5	Williams
Line Section 25 Loop	4.1	Agricultural	0.2	Williams
Line Section 25 Loop	4.1	Agricultural, Open Land	0.3	Williams
Line Section 25 Loop	4.2	Open Land	0.3	Williams
Line Section 25 Loop	4.2	Open Land	0.2	Williams
Line Section 25 Loop	5.1	Open Land	0.1	Williams
Line Section 25 Loop	5.1	Open Land	0.2	Williams
Line Section 25 Loop	5.2	Agricultural, Open Land	<0.1	Williams
Line Section 25 Loop	5.2	Agricultural, Open Land	0.3	Williams
Line Section 25 Loop	6.2	Agricultural	0.1	Williams
Line Section 25 Loop	6.2	Developed, Open Land	0.2	Williams
Line Section 25 Loop	6.3	Agricultural	<0.1	Williams
Line Section 25 Loop	6.3	Agricultural	0.4	Williams
Line Section 25 Loop	6.6	Agricultural, Open Land	0.6	Williams
Line Section 25 Loop	6.6	Agricultural, Developed	<0.1	Williams
Line Section 25 Loop	6.7	Agricultural	0.1	Mountrail
Line Section 25 Loop	6.7	Agricultural	0.1	Mountrail
Line Section 25 Loop	7.2	Agricultural	0.1	Mountrail
Line Section 25 Loop	7.2	Agricultural	0.3	Mountrail
Line Section 25 Loop	7.3	Agricultural, Open Land	0.3	Mountrail
Line Section 25 Loop	7.3	Agricultural	0.1	Mountrail
Line Section 25 Loop	8.2	Agricultural	0.1	Mountrail
Line Section 25 Loop	8.2	Agricultural	0.3	Mountrail

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Line Section 25 Loop	8.3	Agricultural	0.3	Mountrail
Line Section 25 Loop	8.3	Agricultural	0.1	Mountrail
Line Section 25 Loop	9.3	Agricultural	0.3	Mountrail
Line Section 25 Loop	9.3	Agricultural	0.1	Mountrail
Line Section 25 Loop	9.4	Agricultural	0.1	Mountrail
Line Section 25 Loop	9.4	Agricultural	0.3	Mountrail
Line Section 25 Loop	10.3	Open Land	0.5	Mountrail
Line Section 25 Loop	10.3	Open Land	0.2	Mountrail
Line Section 25 Loop	10.4	Agricultural, Developed	0.2	Burke
Line Section 25 Loop	10.4	Agricultural	0.3	Burke
Line Section 25 Loop	11.3	Agricultural, Developed	1.1	Burke
Line Section 25 Loop	11.3	Agricultural	<0.1	Burke
Line Section 25 Loop	11.4	Agricultural	0.5	Burke
Line Section 25 Loop	11.4	Agricultural, Developed	0.2	Burke
Line Section 25 Loop	11.5	Agricultural	0.1	Burke
Line Section 25 Loop	11.5	Agricultural, Developed	0.5	Burke
Line Section 25 Loop	12.5	Agricultural	0.3	Burke
Line Section 25 Loop	12.5	Agricultural	0.2	Burke
Line Section 25 Loop	12.6	Agricultural, Open Land	0.3	Burke
Line Section 25 Loop	12.6	Agricultural, Open Land	0.5	Burke
Line Section 25 Loop	13.3	Open Land	0.2	Burke
Line Section 25 Loop	13.3	Open Land	0.2	Burke
Line Section 25 Loop	13.6	Agricultural, Open Land	0.2	Burke
Line Section 25 Loop	13.6	Developed, Agricultural, Open Land	0.8	Burke
Line Section 25 Loop	13.6	Developed, Agricultural	0.1	Burke
Line Section 25 Loop	13.8	Agricultural, Developed	1.1	Burke
Line Section 25 Loop	13.9	Agricultural, Developed	1.1	Burke
Line Section 25 Loop	14.7	Open Land	0.7	Burke
Line Section 25 Loop	14.7	Open Land	0.2	Burke
Line Section 25 Loop	14.8	Open Land	<0.1	Burke
Line Section 25 Loop	14.8	Open Land	0.5	Burke
Line Section 25 Loop	16.2	Agricultural, Open Land	0.3	Burke
Line Section 25 Loop	16.2	Agricultural, Open Land	0.2	Burke
Line Section 25 Loop	16.4	Agricultural, Developed, Open Land	0.8	Burke
Line Section 25 Loop	16.4	Open Land	0.4	Burke

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Line Section 25 Loop	17.1	Agricultural	0.5	Burke
Line Section 25 Loop	17.1	Agricultural	<0.1	Burke
Line Section 25 Loop	17.2	Agricultural	0.2	Burke
Line Section 25 Loop	17.2	Agricultural, Developed	0.4	Burke
Line Section 25 Loop	17.5	Developed, Open Land	0.3	Burke
Line Section 25 Loop	17.5	Open Land	0.2	Burke
Line Section 25 Loop	17.6	Agricultural, Developed	0.1	Burke
Line Section 25 Loop	17.6	Agricultural	0.3	Burke
Line Section 25 Loop	19.3	Open Land	0.4	Burke
Line Section 25 Loop	19.3	Open Land	0.2	Burke
Line Section 25 Loop	19.3	Agricultural, Developed, Open Land	0.4	Burke
Line Section 30 Loop	3.1	Agricultural	0.2	Williams
Line Section 30 Loop	3.1	Agricultural	0.3	Williams
Line Section 30 Loop	3.2	Agricultural, Developed	0.3	Williams
Line Section 30 Loop	3.2	Agricultural, Developed	0.2	Williams
Line Section 30 Loop	4.1	Agricultural, Developed	0.5	Williams
Line Section 30 Loop	4.1	Agricultural	<0.1	Williams
Line Section 30 Loop	4.2	Agricultural, Developed	0.5	Williams
Line Section 30 Loop	4.2	Agricultural	<0.1	Williams
Line Section 30 Loop	5.1	Agricultural, Developed	0.1	Williams
Line Section 30 Loop	5.1	Agricultural, Developed	0.4	Williams
Line Section 30 Loop	5.2	Agricultural	0.4	Williams
Line Section 30 Loop	5.2	Agricultural, Developed	0.2	Williams
Line Section 30 Loop	6.2	Agricultural, Developed	0.2	Williams
Line Section 30 Loop	6.2	Agricultural, Developed, Open Land	0.3	Williams
Line Section 30 Loop	6.3	Agricultural	0.2	Williams
Line Section 30 Loop	6.3	Agricultural	0.3	Williams
Line Section 30 Loop	7.4	Agricultural, Developed	0.3	Williams
Line Section 30 Loop	7.4	Agricultural, Developed	0.2	Williams
Line Section 30 Loop	7.5	Agricultural	0.4	Williams
Line Section 30 Loop	7.5	Agricultural	0.2	Williams
Line Section 30 Loop	7.6	Agricultural	0.4	Williams
Line Section 30 Loop	7.6	Agricultural	0.3	Williams
Line Section 30 Loop	7.7	Agricultural, Developed	0.3	Williams
Line Section 30 Loop	7.7	Agricultural, Developed	0.4	Williams

APPENDIX 8A (cont'd)				
<b>North Bakken Expansion Project Additional Temporary Workspaces</b>				
Project Facility	Milepost	Existing Land Uses	Area Affected by Construction (acres)	County
Line Section 30 Loop	8.6	Agricultural	0.4	Williams
Line Section 30 Loop	8.6	Agricultural	0.6	Williams
Line Section 30 Loop	8.7	Agricultural, Open Land	0.8	Williams
Line Section 30 Loop	8.7	Agricultural, Open Land	0.4	Williams
Line Section 30 Loop	9.1	Agricultural	0.2	Williams
Line Section 30 Loop	9.1	Agricultural, Developed	0.4	Williams
Line Section 30 Loop	9.2	Open Land	0.2	Williams
Line Section 30 Loop	9.2	Developed, Open Land	0.3	Williams
Tioga Compressor Lateral	0.0	Agricultural	0.1	Williams
Tioga Compressor Lateral	0.4	Open Land	0.2	Williams
Tioga Compressor Lateral	0.4	Open Land	0.1	Williams
Tioga Compressor Lateral	0.5	Open Land	0.1	Williams
Uprate Line Section 25	0.0	Agricultural, Open Land	0.7	Burke
Uprate Line Section 25	0.0	Developed, Open Land	0.8	Burke
Uprate Line Section 25	0.0	Developed, Open Land	2.1	Burke
Uprate Line Section 25	0.0	Agricultural	0.6	Burke
Uprate Line Section 25	0.1	Developed, Open Land	1.4	Burke
Uprate Line Section 25	0.1	Agricultural, Open Land	0.9	Burke
Uprate Line Section 25	0.1	Agricultural, Open Land	0.1	Burke
Uprate Line Section 25	0.1	Developed, Open Land	1.5	Burke
Uprate Line Section 25	0.1	Open Land	0.8	Burke
Uprate Line Section 25	0.2	Agricultural, Open Land	2.5	Burke
Robinson Lake Tract	0.0	Agricultural	0.8	Mountrail
Elkhorn Creek Compressor Station	0.0	Agricultural, Developed	2.2	McKenzie
Northern Border Interconnect	0.3	Agricultural, Open Land	1.0	McKenzie
Springbrook Plant Receipt Station	0.0	Agricultural	0.6	Williams

**NORTH BAKKEN EXPANSION PROJECT**

**Resource Report 8**

**APPENDIX 8B  
Access Roads**

APPENDIX 8B										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres) <sup>a</sup>	Area Affected by Operations (acres)
<b>Tioga-Elkhorn Creek</b>										
Access 1	0.8	Gravel	None	Temp.	Existing, New	Agricultural, Open Land	791	30	0.6	0.0
Access 2	1.0	Dirt/Vegetation	None	Temp.	Existing	Agricultural, Developed	2,593	20	1.2	0.0
Access 3_R1	2.1	Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Developed	183	20	0.1	0.0
Access 4_R1	2.1	Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Developed	298	20	0.1	0.0
Access 5	5	Gravel	None	Temp.	Existing	Agricultural, Developed	1,811	30	1.3	0.0
Access 6	5.9	Gravel	None	Temp.	Existing	Agricultural, Developed	1,310	30	0.9	0.0
Access to 104 <sup>th</sup> Ave NW Pig Launcher <sup>b</sup>	6.2	Dirt/Vegetation	Remove Topsoil, add gravel	Perm.	Existing, New	Developed	38	20	0.0	0.0
Access 7	7.2	Vegetation	None	Temp.	Existing	Agricultural, Developed	35	20	<0.1	0.0
Access 8	8.5	Dirt/Vegetation	None	Temp.	Existing	Agricultural, Developed	44	20	<0.1	0.0
Access 9	10.6	Gravel/Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing	Agricultural, Developed, Open Land	2,137	20	1.0	0.0
Access 10	12.1	Vegetation	None	Temp.	Existing, New	Agricultural, Developed, Open Land	755	20	0.3	0.0
Access 10a	12.3	Gravel/Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing	Agricultural, Developed, Open Land	2,766	20	1.3	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access 11_R1	13.2	Gravel/Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing	Agricultural, Developed, Open Land	3,641	20	1.7	0.0
Access 12	14.2	Gravel/Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Developed	168	20	0.1	0.0
Access 13	17.6	Gravel/Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Open Land	3,842	20	1.8	0.0
Access 14	19.3	Gravel/Dirt	None	Temp.	Existing	Developed, Agricultural	823	20	0.4	0.0
Access 15	19.8	Dirt/Vegetation	None	Temp.	Existing, New	Developed	85	20	<0.1	0.0
Access 16	19.8	Dirt/Vegetation	None	Temp.	New	Developed, Open Land	38	20	<0.1	0.0
Access 17	19.8	Vegetation	None	Temp.	Existing, New	Agricultural, Developed	254	20	0.1	0.0
Access 18	19.9	Vegetation	None	Temp.	New	Developed	81	20	<0.1	0.0
Access 19	20.8	Gravel/Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing	Developed	100	30	0.1	0.0
Access 20	21.5	Vegetation	None	Temp.	Existing	Agricultural	98	40	0.1	0.0
Access 21	22.0	Vegetation	None	Temp.	Existing	Agricultural, Developed	74	30	0.1	0.0
Access 22	22.9	Gravel	None	Temp.	Existing, New	Agricultural, Developed, Open Land	4,164	20	1.9	0.0
Access 23	23.0	Dirt	Remove Topsoil, add gravel, restore	Temp.	Existing	Agricultural, Open Land	461	30	0.2	0.0
Access 24	25.9	Dirt/Vegetation	Remove Topsoil, add gravel, restore	Temp.	Existing, New	Agricultural, Developed, Open Land	1,640	30	1.1	0.0



APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access 24_R1	26.2	Dirt/Vegetation	Remove Topsoil, add gravel	Perm.	New	Agricultural, Developed, Open Land	748	30	0.5	0.5
Access 24b	27.7	Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing, New	Agricultural, Open Land	366	30	0.2	0.0
Access 24c	29.4	Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing, New	Open Land	354	20	0.2	0.0
Access 24d	30.9	Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing, New	Developed, Open Land	926	30	0.6	0.0
Access 24e	32.4	Dirt/Vegetation	Remove/Replace Topsoil	Temp.	Existing	Agricultural, Developed, Open Land	1,280	30	0.9	0.0
Access 25_R1	34.7	Gravel	None	Temp.	Existing	Agricultural, Open Land	2,964	30	2.0	0.0
Highway 10 Block Valve	37.0	Dirt/Vegetation	None	Perm.	Existing, New	Agricultural, Developed	254	20	0.1	0.1
Access 26	37.0	Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Developed	234	20	0.1	0.0
Access 27	38.5	Dirt/Vegetation	Remove/Replace Topsoil	Temp.	New	Developed, Open Land	547	20	0.3	0.0
Access 28	39.5	Gravel	None	Temp.	Existing	Agricultural, Developed	814	20	0.4	0.0
Access 29	40.7	Dirt	None	Temp.	New/Existing	Agricultural	447	20	0.2	0.0
Access 30	41.8	Gravel	None	Temp.	Existing	Agricultural	2,698	30	1.2	0.0
Access 31	46.0	Dirt/Vegetation	None	Temp.	Existing	Agricultural, Developed, Open Land	290	20	0.1	0.0
Access 32	49.0	Gravel	None	Temp.	Existing	Developed	419	20	0.2	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access 33	50.6	Gravel	Remove/Replace Topsoil	Temp.	Existing, New	Developed, Agricultural, Open Land	1,951	20	0.9	0.0
Access 34	51.4	Gravel	None	Perm.	Existing	Developed, Open Land	1,590	20	0.7	0.7
Access 35_R1	56.6	Dirt	None	Temp.	Existing	Agricultural, Open Land	2,878	20	1.3	0.0
Access 35_R2	58.2	Dirt/Vegetation	Remove/Replace Topsoil	Temp.	New	Open Land	263	20	0.1	0.0
Access 36	59.6	Dirt/Vegetation	None	Temp.	New	Agricultural, Open Land	122	20	0.1	0.0
<b>Elkhorn Creek-Northern Border</b>										
Unk_1-Elkhorn Crk CS	0.1	Dirt/Vegetation	New construction, grade/level, add gravel	Perm.	Existing, New	Agricultural, Developed, Open Land	1,038	30	0.5	0.5
Unk_2-Elkhorn Crk CS	0.0	Dirt/Vegetation	New construction, grade/level, add gravel	Perm.	Existing, New	Agricultural	341	30	0.2	0.2
<b>Line Section 25 Loop</b>										
Access Road B	0.4	Gravel (Well Pad Access)	None	Temp.	Existing	Developed, Open Land	491	30	0.3	0.0
Access Road D2	0.8	Dirt/Vegetation (Existing two-track)	None	Temp.	Existing	Open Land	819	10	0.4	
Access Road D1	1.0	Dirt/Vegetation (Existing two-track)	None	Temp.	Existing	Developed, Open Land	117	10	0.1	0.0
Access Road F	1.4	Gravel (Well Pad Access)	None	Temp.	Existing	Agricultural, Open Land	934	30/20 (through field)	0.6	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access Road G	2.0	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to right-of-way (ROW)	Temp.	New	Agricultural, Developed	223	20	0.1	0.0
Access Road H	2.1	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	493	20	0.2	0.0
Access Road I	2.7	Gravel/Dirt/Vegetation (Well Pad Access + Existing two-track + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	Existing	Agricultural, Developed	1,178	30 (well pad)/20 (two-track & field)	0.7	0.0
Access Road K	3.1	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural	996	20	0.4	0.0
Access Road M1	4.6	Gravel (Well Pad Access)	None	Temp.	Existing	Open Land	2,519	30	1.7	0.0
Access Road N	5.2	Gravel/Dirt/Vegetation (Existing approach & two-track + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural	525	20	0.2	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access Road O	6.1	Dirt/Vegetation (Existing two-track)	Use existing approach/may need to blade to ROW	Temp.	Existing	Open Land	1,251	20	0.6	0.0
Access Road P	6.6	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	Existing	Agricultural, Developed	43	20	<0.1	0.0
Access Road R	6.9	Gravel (Well Pad Access)	None	Perm.	Existing	Agricultural, Developed	237	30	0.2	0.2
Access Road S	7.5	Dirt/Vegetation (Existing two-track)	May need to blade out ruts and clear of vegetation	Temp.	Existing	Developed, Open Land	989	20	0.5	0.0
Access Road T	8.0	Gravel/Dirt/Vegetation (Well pad access + two-track)	Use existing well pad road/May need to blade two-track to ROW to clear of vegetation	Temp.	New	Agricultural, Developed, Open Land	1,457	30/20 (through field)	1.0	0.0
Access Road U	8.3	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	108	20	<0.1	0.0
Access Road V1	8.3	Gravel (Well Pad Access Approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	273	30/20 (through field)	0.2	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access Road V2	8.6	Gravel (Well Pad Access Approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural	1,577	30/20 (through field)	1.1	0.0
Access Road W	9.3	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	443	20	0.2	0.0
Access Road X	9.3	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	270	20	0.1	0.0
Access Road Y2	10.0	Dirt/Vegetation (Existing approach + two-track)	May need to blade out ruts and clear of vegetation	Temp.	Existing	Developed, Open Land	2,085	20	1.0	0.0
Access Road Z	10.4	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	1,111	20	0.5	0.0
Access Road BB	11.1	Gravel/Dirt/Vegetation (Existing two-track + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	1,502	20	0.7	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access Road CC	11.4	Gravel/Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	305	20	0.1	0.0
Access Road FF	12.0	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	759	20	0.3	0.0
Access Road GG	12.5	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Developed, Agricultural	615	20	0.3	0.0
Access Road JJ1-R	13.2	Vegetation/Cultivated	Remove/Replace Topsoil	Temp.	Existing	Agricultural, Developed, Open Land	2,679	10	1.2	0.0
Access Road L1	13.6	Vegetation/Cultivated	New construction, grade/level, add gravel	Perm.	New	Developed, Agricultural, Open Land	341	10	0.2	0.2
Access Road MM	14.0	Gravel/Dirt/Vegetation (Well pad access + farmed field)	Use existing road/May need to blade field clear (if planted)	Temp.	Existing	Agricultural, Developed	1,592	30/20 (through field)	1.1	0.0
Access Road NN	14.2	Dirt/Vegetation	Use existing approach/may need to blade clear of vegetation to ROW, restore	Temp.	Existing	Developed, Open Land	1,588	20	0.7	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access Road QQ1-R	14.9	Vegetation/Agricultural (Existing approach)	Remove/Replace Topsoil	Temp.	Existing, New	Developed, Open Land	1,194	10	0.6	0.0
Access Road RR	15.7	Dirt/Vegetation (Existing two-track)	May need to blade out ruts and clear of vegetation	Temp.	Existing	Agricultural, Developed	2,657	20	1.2	0.0
Access Road SS	16.3	Dirt/Vegetation (Existing two-track)	None	Temp.	New	Developed, Open Land	90	20	<0.1	0.0
Access Road TT	16.6	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	113	20	0.1	0.0
Access Road UU 1	17.1	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed	607	20	0.2	0.0
Access Road UU 2	17.1	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	Existing	Agricultural, Developed	371	20	0.2	0.0
Access Road VV	17.7	Dirt/Vegetation (Existing two-track)	May need to blade out ruts and clear of vegetation	Temp.	New	Agricultural, Developed, Open Land	676	20	0.3	0.0

APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Access Road WW	19.3	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Developed, Open Land	333	20	0.1	0.0
Access Road XX	19.3	Dirt/Vegetation (Existing approach + road ditch)	Use existing approach/No changes to road ditch	Temp.	New	Developed, Open Land	193	20	0.1	0.0
<b>Line Section 30 Loop <sup>c</sup></b>										
NL Access 1	0.0	Gravel/Dirt/Vegetation	Remove Topsoil, add gravel	Perm.	Existing, New	Agricultural, Developed	212	30	0.2	0.2
Access 3_R1-NLL	7.5	Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Developed	183	20	0.1	0.0
Access 4_R1-NLL	7.5	Dirt/Vegetation	None	Temp.	Existing, New	Agricultural, Developed	298	20	0.1	0.0
Access 2-NLL	8.6	Dirt/Vegetation	None	Temp.	Existing	Agricultural, Developed	2,593	20	1.2	0.0
Access 1 - NLL	8.8	Gravel	None	Temp.	Existing, New	Agricultural, Open Land	791	30	0.6	0.0
<b>Tioga Compressor Lateral</b>										
Tioga Plant Access Road	0.0	Dirt/Vegetation	New construction, grade/level, add gravel	Perm.	New	Agricultural, Developed	315	30	0.1	0.1
<b>Uprate Line Section 25</b>										
Access Road YY 2	N/A	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	Existing	Agricultural, Developed, Open Land	472	20	0.2	0.0



APPENDIX 8B (cont'd)										
North Bakken Expansion Project Access Roads										
Access Road Name	Milepost	Existing Road Type	Modification Required	Use (Temp. or Perm.)	Existing or New	Existing Land Uses	Length (feet)	Width (feet)	Area Affected by Construction (acres)	Area Affected by Operations (acres)
Uprating Access Road 1	N/A	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Agricultural, Developed, Open Land	644	20	0.3	0.0
Uprating Access Road 2	N/A	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	New	Developed, Open Land	425	20	0.1	0.0
Uprating Access Road 3	N/A	Dirt/Vegetation (Existing approach + farmed field)	Use existing approach/may need to blade clear of vegetation (if planted) to ROW	Temp.	Existing	Developed, Open Land	464	20	0.2	0.0

<sup>a</sup> Access road acreages were overestimated in the numbers presented in the February 14, 2020 FERC Application with 30 foot widths used for all acre calculations. While the length and widths of the majority of roads have not changed since the applications, the acres have been updated here to reflect the actual widths of roads.

<sup>b</sup> This access road is entirely within the workspaces associated with the pipeline right-of-way and additional temporary workspaces. The area affected by construction of the road is included within those acreages and not counted here.

<sup>c</sup> The following four access roads on Line Section 30 are also identified as access roads for the Tioga-Elkhorn Creek pipeline: Access3\_R1-NLL; Access 4\_R1-NLL; Access 2-NLL; and Access 1-NLL.

**NORTH BAKKEN EXPANSION PROJECT**

**Resource Report 8**

**APPENDIX 8C  
Road and Railroad Crossings**

APPENDIX 8C				
<b>North Bakken Expansion Project Road and Railroad Crossings</b>				
Facility/Milepost	Type	Name	Crossing Method	Approximate Crossing Length (feet)
<b>Tioga-Elkhorn Creek</b>				
0.4	Road	68 <sup>th</sup> Street NW	Guided Bore	34
0.6	Road	Private Road	Open Cut	29
0.9	Railroad	BNSF	Guided Bore	51
1.9	Road	103 <sup>rd</sup> Ave NW	Guided Bore	29
2.1	Road	67 <sup>th</sup> Street NW	Guided Bore	24
3.2	Road	66 <sup>th</sup> Street NW	Guided Bore	28
4.3	Road	65 <sup>th</sup> Street NW	Guided Bore	25
5.0	Road	Private Road	Open Cut	19
5.3	Road	64 <sup>th</sup> Street NW/Highway 2	Guided Bore	133
5.9	Road	Private Road	Open Cut	18
6.2	Road	104 <sup>th</sup> Ave NW	Guided Bore	36
7.2	Road	105 <sup>th</sup> Ave NW	Guided Bore	25
7.5	Road	63 <sup>rd</sup> Street NW	Guided Bore	18
8.5	Road	106 <sup>th</sup> Ave NW	Guided Bore	25
9.2	Road	62 <sup>nd</sup> Street NW	Guided Bore	35
10.6	Road	61 <sup>st</sup> Street NW	Open Cut	19
12.1	Road	60 <sup>th</sup> Street NW	Guided Bore	38
13.2	Road	59 <sup>th</sup> Street NW	Open Cut	11
14.2	Road	58 <sup>th</sup> Street NW	Guided Bore	18
16.2	Road	56 <sup>th</sup> Street NW	Guided Bore	20
18.5	Road	109 <sup>th</sup> Ave NW	Guided Bore	27
19.8	Road	110 <sup>th</sup> Ave NW	Guided Bore	26
19.8	Road	54 <sup>th</sup> Street NW	Guided Bore	30
20.8	Road	53 <sup>th</sup> Street NW	Guided Bore	36
21.5	Road	Private Road	Open Cut	16
22.4	Road	51 <sup>st</sup> Street NW	Guided Bore	37
22.9	Road	Private Road	Open Cut	45
23.0	Road	51 <sup>st</sup> Street NW	HDD	10
25.6	Road	Private Road	HDD	17
25.9	Road	Private Road	HDD	18
26.3	Road	Sand Creek Road	Guided Bore	35
26.8	Road	Private Road	Open Cut	22
27.0	Road	Private Road	Open Cut	17
27.3	Road	(FDR) 8698	Open Cut	40
27.7	Road	Private Road	Open Cut	16
28.2	Road	Private Road	Open Cut	14

APPENDIX 8C (cont'd)				
<b>North Bakken Expansion Project Road and Railroad Crossings</b>				
Facility/Milepost	Type	Name	Crossing Method	Crossing Length (feet)
28.2	Road	Private Road	Open Cut	15
28.6	Road	Highway 1806 West	Guided Bore	40
29.1	Road	Highway 1806 West	Guided Bore	40
29.9	Road	115 <sup>th</sup> Ave NW/ (FDR) 8000C43	Guided Bore	25
30.8	Road	45 <sup>th</sup> Street NW	Guided Bore	23
32.4	Road	Private Road	Open Cut	17
33.4	Road	Private Road	Open Cut	11
33.7	Road	43 <sup>rd</sup> Street NW	Open Cut	23
34.7	Road	42 <sup>nd</sup> Street NW	Guided Bore	25
35.2	Road	Private Road	Open Cut	12
37.0	Road	40 <sup>th</sup> Street NW	Guided Bore	34
37.1	Road	Private Road	Open Cut	15
38.8	Road	Private Road	Open Cut	49
38.9	Road	121 <sup>st</sup> Ave NW	Guided Bore	20
39.4	Road	38 <sup>th</sup> Street NW	Guided Bore	24
40.7	Road	37 <sup>th</sup> Street NW	Open Cut	27
41.4	Road	Private Road	Open Cut	15
41.8	Road	36 <sup>th</sup> Street NW	Guided Bore	26
42.0	Road	Private Road	Open Cut	12
42.9	Road	35 <sup>th</sup> Street NW	Guided Bore	8
43.9	Road	34 <sup>th</sup> Street NW	Guided Bore	59
44.0	Road	121 <sup>st</sup> Ave NW	Guided Bore	35
45.0	Road	33 <sup>rd</sup> Street NW	Guided Bore	15
46.0	Road	32 <sup>nd</sup> Street NW	Open Cut	24
47.0	Road	31 <sup>st</sup> Street NW	Guided Bore	37
48.0	Road	30 <sup>th</sup> Street NW	Guided Bore	26
49.0	Road	29 <sup>th</sup> Street NW	Guided Bore	25
49.4	Road	121 <sup>st</sup> Ave NW	Guided Bore	34
50.1	Road	121 <sup>st</sup> Ave NW	Guided Bore	33
51.1	Road	Private Road	Open Cut	14
51.3	Road	State Highway 23	Guided Bore	33
51.4	Road	Private Road	Open Cut	19
52.2	Road	Private Road	Open Cut	18
52.4	Road	Private Road	Open Cut	42
52.6	Road	Private Road	Open Cut	25
52.9	Road	Private Road	Open Cut	60
55.0	Road	Private Road	Open Cut	15

APPENDIX 8C (cont'd)

**North Bakken Expansion Project  
Road and Railroad Crossings**

Facility/Milepost	Type	Name	Crossing Method	Crossing Length (feet)
55.2	Road	23 <sup>rd</sup> Street NW	Guided Bore	35
56.4	Road	Private Road	Open Cut	14
56.5	Road	Private Road	Open Cut	14
57.1	Road	122 <sup>nd</sup> Ave NW	Guided Bore	71
57.3	Road	122 <sup>nd</sup> Ave NW	Guided Bore	38
57.6	Road	22 <sup>nd</sup> Street NW	Open Cut	24
58.6	Road	122 <sup>nd</sup> Ave NW	Guided Bore	35
60.3	Road	21 <sup>st</sup> Street NW	Guided Bore	36
60.8	Road	123 <sup>rd</sup> Ave NW	Open Cut	22
<b>Line Section 25 Loop</b>				
0.3	Road	Private Road	Open Cut	18
0.6	Road	103 <sup>rd</sup> Ave NW	Guided Bore	34
0.8	Road	Private Road	Open Cut	23
1.0	Road	Private Road	Open Cut	23
1.0	Road	69 <sup>th</sup> Street NW	Guided Bore	29
1.4	Road	Private Road	Open Cut	19
2.1	Road	103 <sup>rd</sup> Ave NW	Guided Bore	58
2.1	Road	70 <sup>th</sup> Street NW	Guided Bore	67
3.1	Road	71 <sup>st</sup> Street NW	Guided Bore	32
4.1	Road	72 <sup>nd</sup> Street NW	Guided Bore	24
4.5	Road	Private Road	Open cut	23
5.2	Road	73 <sup>rd</sup> Street NW	Guided Bore	24
6.2	Road	74 <sup>th</sup> Street NW	Guided Bore	32
6.7	Road	102 <sup>nd</sup> Ave NW	Guided Bore	88
6.9	Road	Private Road	Open Cut	25
7.3	Road	75 <sup>th</sup> Street NW	Guided Bore	22
8.3	Road	76 <sup>th</sup> Street NW	Guided Bore	24
9.3	Road	77 <sup>th</sup> Street NW	Guided Bore	17
10.3	Road	78 <sup>th</sup> Street NW	Guided Bore	21
11.4	Road	79 <sup>th</sup> Street NW	Guided Bore	36
11.5	Road	101 <sup>st</sup> Ave NW	Guided Bore	25
12.5	Road	Highway 50	Guided Bore	33
13.7	Road	81 <sup>st</sup> Street NW	Guided Bore	29
14.2	Road	Private Road	Open Cut	19
14.7	Road	100 <sup>th</sup> Ave NW	Guided Bore	42
15.7	Road	Private Road	Open Cut	19
16.3	Road	99 <sup>th</sup> Ave NW	Guided Bore	21
17.1	Road	83 <sup>rd</sup> Street NW	Guided Bore	35

APPENDIX 8C (cont'd)

**North Bakken Expansion Project  
Road and Railroad Crossings**

Facility/Milepost	Type	Name	Crossing Method	Crossing Length (feet)
17.5	Road	98 <sup>th</sup> Ave NW	Guided Bore	39
18.3	Road	84 <sup>th</sup> Street NW	Open Cut	17
19.3	Road	County Road 16	Guided Bore	26
<b>Line Section 30 Loop</b>				
1.0	Road	108 <sup>th</sup> Ave NW	Open Cut	9
3.2	Road	106 <sup>th</sup> Ave NW	Guided Bore	8
4.2	Road	105 <sup>th</sup> Ave NW	Guided Bore	27
5.2	Road	66 <sup>th</sup> Street NW	Guided Bore	24
5.7	Road	Private Road	Open Cut	10
6.3	Road	State Highway 40	Guided Bore	57
7.5	Road	67 <sup>th</sup> Street NW	Guided Bore	24
7.7	Road	103 <sup>rd</sup> Ave NW	Guided Bore	29
8.6	Railroad	BNSF	Guided Bore	51
8.9	Road	Private Road	Open Cut	20
9.1	Road	68 <sup>th</sup> Street NW	Guided Bore	34
<b>Tioga Compressor Lateral</b>				
0.5	Road	103 <sup>rd</sup> Ave NW	Guided Bore	25