

Table A – Soil Map Units Impacted by the Project

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Aa	Aastad loam	Yes	No	Moderately Well Drained	No Bedrock Identified	0.0	0.0	0.32	6	94	No	Pipeline	0.00	0.51
G193A	Aastad-Forman loams, 0 to 3 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.3	0.6	0.32	6	92	No	Pipeline	0.00	11.00
At	Aastad-Tonka complex	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	0.0	0.0	0.32	6	83	No	Access Road	0.16	0.16
At	Aastad-Tonka complex	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	0.0	0.0	0.32	6	83	No	Pipeline	0.00	0.48
G195A	Aastad-Tonka complex, 0 to 3 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.3	0.6	0.32	6	79	No	Pipeline	0.00	1.56
G473A	Aberdeen-Nahon silt loams, till substratum, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.7	6.1	0.43	6	59	Smectitic	Pipeline	0.00	0.29
G472A	Aberdeen-Nahon silty clay loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.8	6.2	0.49	6	59	Smectitic	Access Road	0.09	0.33
G472A	Aberdeen-Nahon silty clay loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.8	6.2	0.49	6	59	Smectitic	MLV	0.17	0.17
G472A	Aberdeen-Nahon silty clay loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.8	6.2	0.49	6	59	Smectitic	Pipeline	0.00	127.79
G475A	Aberdeen-Nahon-Heil silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.8	6.2	0.49	6	50	Smectitic	Pipeline	0.00	14.19
G476A	Aberdeen-Nahon-Heil silt loams, till substratum, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.7	6.1	0.43	6	50	Smectitic	Pipeline	0.00	1.43
AcB	Alcester silty clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	90	No	Pipeline	0.00	0.22
Ac	Alcester silty clay loam, cool, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	96	No	Pipeline	0.00	4.26
AcB	Alcester silty clay loam, cool, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	92	No	Pipeline	0.00	0.84
Ar	Arlo clay loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.4	0.4	0.28	4L	44	No	Pipeline	0.00	7.85
Vo	Arlo silty clay loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.7	0.7	0.28	4L	46	No	Pipeline	0.00	3.91
J105A	Arvilla sandy loam, Till Prairie, 0 to 2 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	0.0	0.0	0.24	3	42	No	Pipeline	0.00	1.86
J105B	Arvilla sandy loam, Till Prairie, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	0.0	0.0	0.24	3	40	No	Pipeline	0.00	0.75
Ba	Badger silty clay loam, 0 to 1 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	80	Smectitic	Pipeline	0.00	4.71
Ba	Badger-Tonka silty clay loams, coteau, 0 to 1 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	73	Smectitic	Pipeline	0.00	0.48
Ba	Badus silty clay loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	3.3	1.8	0.43	4L	64	Montmorillonitic	Access Road	0.70	1.04
Ba	Badus silty clay loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	3.3	1.8	0.43	4L	64	Montmorillonitic	Launcher/Receiver	0.09	0.09
Ba	Badus silty clay loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	3.3	1.8	0.43	4L	64	Montmorillonitic	MLV	0.06	0.06
Ba	Badus silty clay loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	3.3	1.8	0.43	4L	64	Montmorillonitic	Pipeline	0.00	24.82
Ba	Baltic silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	2.5	0.7	0.32	4L	35	Montmorillonitic	Pipeline	0.00	0.54
Ba	Baltic silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	2.6	0.8	0.32	4L	37	Montmorillonitic	Pipeline	0.00	4.18
Bc	Baltic silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	2.5	0.8	0.32	4L	32	Montmorillonitic	Access Road	0.00	0.61
Bb	Baltic silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	2.5	0.8	0.32	4L	31	Montmorillonitic	Pipeline	0.00	1.22
Bc	Baltic silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	2.6	0.8	0.32	4L	32	Montmorillonitic	Pipeline	0.00	4.97
Ba	Baltic silty clay loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	2.8	0.9	0.32	4L	31	Smectitic	Pipeline	0.00	3.86
Bb	Baltic silty clay loam, ponded	No	Yes	Very Poorly Drained	No Bedrock Identified	2.8	0.9	0.32	4L	9	Smectitic	Pipeline	0.00	3.14
Bb	Baltic silty clay loam, ponded	No	Yes	Very Poorly Drained	No Bedrock Identified	2.4	0.7	0.32	4L	10	Montmorillonitic	Pipeline	0.00	1.10
BbC	Barnes-Buse loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	60	No	Pipeline	0.00	7.17

Soil Map Units Impacted by the Project

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BcC	Barnes-Buse loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	60	No	Pipeline	0.00	3.18
Z143C	Barnes-Buse loams, 6 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	60	No	Pipeline	0.00	5.72
BcB	Barnes-Buse loams, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	75	No	Access Road	0.02	0.02
BcB	Barnes-Buse loams, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	75	No	MLV	0.06	0.06
BbB	Barnes-Buse loams, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	75	No	Pipeline	0.00	1.33
BcB	Barnes-Buse loams, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	75	No	Pipeline	0.00	7.19
BcB	Barnes-Buse-Svea loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	77	No	Access Road	0.08	0.08
BcB	Barnes-Buse-Svea loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	77	No	MLV	0.11	0.11
BcB	Barnes-Buse-Svea loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	77	No	Pipeline	0.00	41.22
Z142B	Barnes-Buse-Svea loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	77	No	Pipeline	0.00	9.10
Z142C	Barnes-Buse-Svea loams, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	64	No	Access Road	0.00	1.36
Z142C	Barnes-Buse-Svea loams, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	64	No	Pipeline	0.00	9.41
BcC	Barnes-Buse-Svea loams, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	64	No	Pipeline	0.00	2.20
G123B	Barnes-Cavour loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.32	6	61	No	Access Road	0.03	0.03
G123B	Barnes-Cavour loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.32	6	61	No	Launcher/Receiver	0.52	0.52
G123B	Barnes-Cavour loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.32	6	61	No	Pipeline	0.00	6.73
G131A	Barnes-Cresbard-Tonka complex, 0 to 3 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.4	0.0	0.32	6	72	No	Access Road	0.0	0.0001
G131A	Barnes-Cresbard-Tonka complex, 0 to 3 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	0.4	0.0	0.32	6	72	No	Pipeline	0.00	10.47
G131B	Barnes-Cresbard-Tonka complex, 0 to 6 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.4	0.0	0.32	6	69	No	Pipeline	0.00	6.67
BdA	Barnes-Svea loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.9	0.4	0.37	6	88	No	Pipeline	0.00	1.11
G143A	Barnes-Svea loams, 0 to 3 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.5	0.5	0.32	6	85	No	Access Road	0.00	0.17
G155B	Barnes-Svea loams, 0 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.5	0.5	0.32	6	82	No	Access Road	0.00	0.19
G155B	Barnes-Svea loams, 0 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.5	0.5	0.32	6	82	No	Pipeline	0.00	3.79
BdB	Barnes-Svea loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.9	0.4	0.37	6	83	No	Access Road	0.81	0.81
BdB	Barnes-Svea loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.9	0.4	0.37	6	83	No	Pipeline	0.00	3.96
BbC	Barnes-Svea loams, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	68	No	Pipeline	0.00	0.41
Z141A	Barnes-Svea loams, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.3	0.4	0.37	6	87	No	Pipeline	0.00	3.12
Z141B	Barnes-Svea loams, coteau, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.3	0.4	0.37	6	83	No	Pipeline	0.00	15.71
BdA	Beadle clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.8	0.9	0.28	6	79	Montmorillonitic	Pipeline	0.00	0.92
BdB	Beadle clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.8	0.9	0.28	6	69	Montmorillonitic	Pipeline	0.00	3.05
BaC	Beadle loam, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	54	Smectitic	Pipeline	0.00	6.34
BdA	Beadle-Dudley complex, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	58	Smectitic	Access Road	0.00	0.23
BdA	Beadle-Dudley complex, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	58	Smectitic	Pipeline	0.00	168.31

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BeA	Beadle-Dudley complex, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	58	Smectitic	Pipeline	0.00	20.84
BfA	Beadle-Dudley complex, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	58	Smectitic	Pipeline	0.00	0.45
BaA	Beadle-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	71	Smectitic	Pipeline	0.00	8.20
BaB	Beadle-Stickney complex, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	66	Smectitic	Access Road	0.01	0.20
BaB	Beadle-Stickney complex, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	66	Smectitic	Launcher/Receiver	0.52	0.52
BaB	Beadle-Stickney complex, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	66	Smectitic	Pipeline	0.00	70.26
BeB	Beadle-Stickney complex, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	66	Smectitic	Pipeline	0.00	2.46
C400A	Bearden silt loam, 0 to 2 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	3.9	3.1	0.49	4L	86	No	Pipeline	0.00	0.49
G431A	Bearden silt loam, 0 to 2 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	3.9	3.1	0.49	4L	81	No	Pipeline	0.00	0.87
G433B	Bearden, saline-Huffton-Putney silt loams, 0 to 6 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	10.4	7.3	0.43	4L	59	No	Pipeline	0.00	0.50
C190C	Bearpaw loam, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.7	0.8	0.32	6	62	Smectitic	Pipeline	0.00	0.89
C192A	Bearpaw-Greenway loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.7	0.8	0.32	6	81	Smectitic	Pipeline	0.00	5.83
C192B	Bearpaw-Greenway loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.7	0.8	0.32	6	79	Smectitic	Pipeline	0.00	8.10
C194B	Bearpaw-Zeeland loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.7	0.8	0.32	6	76	Smectitic	Access Road	0.00	0.01
C194B	Bearpaw-Zeeland loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.7	0.8	0.32	6	76	Smectitic	Pipeline	0.00	2.94
Bd	Benclare silty clay loam, somewhat poorly drained	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.6	0.37	7	81	Montmorillonitic	Pipeline	0.00	0.91
G499A	Beotia loam, loamy, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.5	0.28	6	93	No	Pipeline	0.00	4.40
G871A	Beotia silt loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	1.2	0.49	6	98	No	Pipeline	0.00	17.59
G872A	Beotia-Rondell silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	1.2	0.49	6	91	No	Access Road	0.04	0.04
G872A	Beotia-Rondell silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	1.2	0.49	6	91	No	MLV	0.06	0.06
G872A	Beotia-Rondell silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	1.2	0.49	6	91	No	Pipeline	0.00	5.61
G873A	Beotia-Winship silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	1.2	0.49	6	93	No	Access Road	0.00	0.20
G873A	Beotia-Winship silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	1.2	0.49	6	93	No	Pipeline	0.00	10.49
G874A	Beotia-Winship silt loams, till substratum, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	0.9	0.49	6	92	No	Pipeline	0.00	0.52
BeE	Betts loam, 6 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	3.0	0.5	0.37	4L	23	Montmorillonitic	Pipeline	0.00	5.65
BeD	Betts stony loam, 6 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	2.7	0.5	0.37	8	10	Montmorillonitic	Pipeline	0.00	2.46
BaE	Betts-Ethan loams, 15 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	18	No	Pipeline	0.00	2.10
BeE	Betts-Ethan loams, 15 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	18	No	Pipeline	0.00	9.93
EoF	Betts-Ethan loams, 15 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	18	No	Pipeline	0.00	0.51
BhE	Betts-Talmo complex, 12 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	3.3	0.6	0.37	4L	11	Montmorillonitic	Pipeline	0.00	5.04
ZsD	Betts-Talmo loams, hilly	No	No	Well Drained	No Bedrock Identified	3.0	0.5	0.37	4L	20	Montmorillonitic	Pipeline	0.00	0.68
BnA	Blendon fine sandy loam, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	3	66	No	Pipeline	0.00	0.71
Bn	Bon loam, 0 to 2 percent slopes, rarely flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	84	No	Pipeline	0.00	13.98

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La	Bon loam, 0 to 2 percent slopes, rarely flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	84	No	Pipeline	0.00	1.23
LbA	Bon loam, 0 to 2 percent slopes, rarely flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	84	No	Pipeline	0.00	6.34
Ro	Bon loam, 0 to 2 percent slopes, rarely flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	84	No	Pipeline	0.00	3.22
Aa	Bon loam, channeled, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	34	No	Pipeline	0.00	1.63
Bd	Bon loam, channeled, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	34	No	Pipeline	0.00	0.73
Bo	Bon loam, channeled, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	34	No	Pipeline	0.00	5.70
Bx	Bon loam, channeled, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	34	No	Pipeline	0.00	1.75
Cc	Bon loam, channeled, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	34	No	Pipeline	0.00	3.19
LIA	Bon loam, channeled, 0 to 2 percent slopes, frequently flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	34	No	Pipeline	0.00	0.92
Bo	Bon soils, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.3	0.32	6	64	No	Pipeline	0.00	0.26
LeA	Bon-Northville complex, nearly level	SWI	No	Moderately Well Drained	No Bedrock Identified	1.0	0.2	0.49	6	91	No	Pipeline	0.00	2.02
C201A	Bowbells loam, 0 to 3 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	95	No	Pipeline	0.00	1.44
C201B	Bowbells loam, 3 to 6 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	89	No	Pipeline	0.00	3.95
C810A	Bowdle loam, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	5	57	No	Pipeline	0.00	6.23
Z181A	Brandt silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	86	No	Pipeline	0.00	1.14
G305A	Brantford-Brantford, loamy-skeletal loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	5	44	No	MLV	0.02	0.02
G305A	Brantford-Brantford, loamy-skeletal loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	5	44	No	Pipeline	0.00	8.56
Z190A	Brookings silty clay loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	96	No	Pipeline	0.00	6.13
C732B	Bryant silt loam, 2 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.49	6	83	No	Pipeline	0.00	9.14
C732C	Bryant silt loam, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.49	6	67	No	Pipeline	0.00	3.79
C745B	Bryant-Grassna silt loams, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	1.0	0.49	6	84	No	Pipeline	0.00	4.10
BuC	Buse-Barnes loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	4L	60	No	Pipeline	0.00	4.85
BtD	Buse-Barnes loams, 9 to 20 percent slopes	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	4L	34	No	Pipeline	0.00	3.97
Z145D	Buse-Barnes loams, coteau, 2 to 15 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	9	No	Pipeline	0.00	7.61
Z144E	Buse-Barnes loams, coteau, 9 to 20 percent slopes	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	41	No	Pipeline	0.00	5.63
Z145F	Buse-Barnes loams, coteau, 9 to 40 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	6	No	Pipeline	0.00	9.37
G613F	Buse-Barnes loams, very stony, 9 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.7	0.0	0.32	4L	14	No	Pipeline	0.00	0.18
G147D	Buse-Barnes-Darnen loams, 6 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.4	0.4	0.32	6	46	No	Pipeline	0.00	0.33
Z137F	Buse-Forman loams, 15-40 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	6	No	Pipeline	0.00	4.56
BeF	Buse-Forman loams, 25 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	4L	13	No	Pipeline	0.00	0.77
BfD	Buse-Forman-Aastad loams, 4 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	6	51	No	Pipeline	0.00	1.80
G583F	Buse-Kloten-Edgeley complex, 9 to 40 percent slopes	No	No	Well Drained	1 to 2 feet	1.7	0.0	0.37	6	15	No	Pipeline	0.00	1.17
Z146F	Buse-Lamoure, channeled, frequently flooded, complex, 0 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	10	No	Pipeline	0.00	5.69

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Z140F	Buse-Langhei complex, coteau, 15 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	11	No	Pipeline	0.00	4.63
G194F	Buse-Langhei-Forman loams, 15 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.7	0.0	0.32	4L	23	No	Pipeline	0.00	0.84
ByC	Buse-Poinsett complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	4L	66	No	Pipeline	0.00	6.13
ByD	Buse-Poinsett complex, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	4L	50	No	Pipeline	0.00	0.79
J119E	Buse-Sioux complex, 9 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.3	0.6	0.32	4L	10	No	Pipeline	0.00	1.00
G193E	Buse-Vida, moist-Forman loams, 9 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.7	0.0	0.32	6	29	No	Access Road	0.01	0.37
G193E	Buse-Vida, moist-Forman loams, 9 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.7	0.0	0.32	6	29	No	Pipeline	0.00	3.41
G717A	Camtown-Turton loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.9	9.3	0.55	5	61	No	Pipeline	0.00	0.82
CaA	Carthage fine sandy loam, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.9	0.5	0.37	3	66	No	Pipeline	0.00	6.18
CaB	Carthage fine sandy loam, 2 to 6 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.9	0.5	0.37	3	62	No	Pipeline	0.00	5.42
CbA	Carthage-Blendon fine sandy loams, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.9	0.5	0.37	3	66	No	Access Road	0.74	0.74
CbA	Carthage-Blendon fine sandy loams, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.9	0.5	0.37	3	66	No	Launcher/Receiver	0.04	0.04
CbA	Carthage-Blendon fine sandy loams, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.9	0.5	0.37	3	66	No	Pipeline	0.00	5.88
CbB	Carthage-Blendon fine sandy loams, 2 to 6 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.9	0.5	0.37	3	62	No	Pipeline	0.00	4.03
CbA	Carthage-Clarno fine sandy loams, 0 to 2 percent slopes	Yes, if irrigated	No	Moderately Well Drained	No Bedrock Identified	3.1	0.5	0.37	3	75	No	Pipeline	0.00	1.71
Db	Castlewood silty clay	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.3	0.1	0.28	4	63	Montmorillonitic	Pipeline	0.00	17.29
Z151A	Castlewood silty clay, 0 to 1 percent slopes, occasionally flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.7	0.4	0.37	4	62	Smectitic	Pipeline	0.00	0.71
CrA	Cavo-Jerauld loams, 0 to 4 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	8.0	9.7	0.32	6	26	Montmorillonitic	Pipeline	0.00	0.07
Cs	Cavo-Stickney loams	No	No	Moderately Well Drained	No Bedrock Identified	8.0	9.7	0.32	6	47	Montmorillonitic	Access Road	0.05	0.05
Cs	Cavo-Stickney loams	No	No	Moderately Well Drained	No Bedrock Identified	8.0	9.7	0.32	6	47	Montmorillonitic	MLV	0.06	0.06
Cs	Cavo-Stickney loams	No	No	Moderately Well Drained	No Bedrock Identified	8.0	9.7	0.32	6	47	Montmorillonitic	Pipeline	0.00	1.58
G129A	Cavour-Ferney loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.3	8.7	0.37	6	35	Smectitic	Access Road	0.00	0.12
G129A	Cavour-Ferney loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.3	8.7	0.37	6	35	Smectitic	Pipeline	0.00	29.38
Ca	Chancellor silty clay loam, 0 to 2 percent slopes, frequently flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	81	Smectitic	Pipeline	0.00	1.47
Cb	Chancellor silty clay loam, 0 to 2 percent slopes, frequently flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	81	Smectitic	Pipeline	0.00	2.00
Ca	Chancellor-Tetonka complex, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	75	Smectitic	Pipeline	0.00	51.78
Cc	Chancellor-Tetonka complex, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	75	Smectitic	Pipeline	0.00	20.19
Cd	Chancellor-Viborg silty clay loams	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	1.8	0.7	0.43	7	87	Montmorillonitic	Access Road	0.02	0.02
Cd	Chancellor-Viborg silty clay loams	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	1.8	0.7	0.43	7	87	Montmorillonitic	Pipeline	0.00	13.69
Ch	Chancellor-Wakonda-Tetonka complex	SWI	Yes	Somewhat Poorly Drained	No Bedrock Identified	1.8	0.7	0.43	7	78	Montmorillonitic	Pipeline	0.00	15.57
Fa	Chaska loam	No	No	Somewhat Poorly Drained	No Bedrock Identified	0.0	0.0	0.49	4L	30	Montmorillonitic	Pipeline	0.00	0.69
Ce	Clamo silty clay	SWI	Yes	Poorly Drained	No Bedrock Identified	3.8	0.0	0.32	4	58	Montmorillonitic	Pipeline	0.00	1.55
Cf	Clamo silty clay, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	4.1	0.0	0.32	4	29	Montmorillonitic	Pipeline	0.00	1.07

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
CaB	Clarno loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Pipeline	0.00	18.75
CbA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Access Road	0.04	0.04
ChA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Access Road	0.01	0.01
CoA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Access Road	0.03	0.03
CbA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	MLV	0.06	0.06
ChA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	MLV	0.06	0.06
CoA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	MLV	0.06	0.06
CaA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	2.02
CbA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	87.23
CfA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	91.73
ChA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	14.54
CoA	Clarno-Bonilla loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	85.94
CfB	Clarno-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Pipeline	0.00	48.62
ChB	Clarno-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Pipeline	0.00	10.83
ChB	Clarno-Bonilla loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Pipeline	0.00	24.98
CgA	Clarno-Crossplain complex, 0 to 2 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Access Road	0.02	0.02
CgA	Clarno-Crossplain complex, 0 to 2 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Launcher/Receiver	0.52	0.52
CgA	Clarno-Crossplain complex, 0 to 2 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Pipeline	0.00	129.62
CkA	Clarno-Crossplain-Davison complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Pipeline	0.00	11.63
CmB	Clarno-Davison loams, 2 to 5 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.7	0.0	0.37	6	78	No	Pipeline	0.00	3.47
CkB	Clarno-Dudley complex, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.0	0.37	6	62	No	Pipeline	0.00	2.90
CeD	Clarno-Ethan loams, 9 to 16 percent slopes	No	No	Well Drained	No Bedrock Identified	3.5	0.0	0.37	6	45	No	Pipeline	0.00	11.15
CeB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Access Road	0.00	0.62
CkB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Access Road	0.05	0.05
CkB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	MLV	0.06	0.06
CeB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	120.25
CeB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	1.25
ChB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	2.00
CkB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	38.42
CmB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	8.16
CoB	Clarno-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	14.14
CeC	Clarno-Ethan-Bonilla loams, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	69	No	Pipeline	0.00	34.65
CoC	Clarno-Ethan-Bonilla loams, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	69	No	Pipeline	0.00	10.33
CnB	Clarno-Stickney-Tetonka complex, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.6	0.0	0.37	6	69	No	Pipeline	0.00	15.50

Soil Map Units Impacted by the Project

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G045A	Colvin silty clay loam, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.3	2.4	0.49	4L	45	No	Pipeline	0.00	0.08
Co	Colvin-Oldham silty clay loams	No	Yes	Very Poorly Drained	No Bedrock Identified	0.0	3.1	0.43	4L	41	No	Pipeline	0.00	1.45
G124A	Cresbard-Cavour loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	58	Smectitic	Access Road	0.00	0.84
G124A	Cresbard-Cavour loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	58	Smectitic	Pipeline	0.00	23.51
G124B	Cresbard-Cavour loams, 3 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	51	Smectitic	Pipeline	0.00	19.04
G130A	Cresbard-Cavour-Ferney loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	46	Smectitic	Pipeline	0.00	12.68
G141B	Cresbard-Cavour-Forman loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	59	Smectitic	Access Road	0.05	0.05
G141B	Cresbard-Cavour-Forman loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	59	Smectitic	MLV	0.04	0.04
G141B	Cresbard-Cavour-Forman loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	59	Smectitic	Pipeline	0.00	2.13
G126A	Cresbard-Cavour-Heil complex, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	3.4	6.2	0.37	6	45	Smectitic	Pipeline	0.00	21.29
Cr	Crossplain clay loam	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	2.3	0.6	0.32	6	78	Montmorillonitic	Pipeline	0.00	4.98
Ct	Crossplain-Tetonka complex	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	1.7	0.4	0.37	6	72	Montmorillonitic	Launcher/Receiver	0.00	0.00
Ct	Crossplain-Tetonka complex	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	1.7	0.4	0.37	6	74	Montmorillonitic	Pipeline	0.00	1.46
Ct	Crossplain-Tetonka complex	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.7	0.4	0.37	6	73	Montmorillonitic	Pipeline	0.00	28.08
Ct	Crossplain-Tetonka complex	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	1.7	0.4	0.37	6	72	Montmorillonitic	Pipeline	0.00	37.70
Ct	Crossplain-Tetonka complex, 0 to 1 percent slopes	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	2.1	0.6	0.32	6	73	Smectitic	Pipeline	0.00	3.04
Bc	Cubden silty clay loam, 0 to 2 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	77	No	Pipeline	0.00	3.64
Cu	Cubden silty clay loam, 0 to 2 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	77	No	Pipeline	0.00	4.35
J122A	Cubden silty clay loam, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	77	No	Pipeline	0.00	1.06
Co	Cubden-Badger silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	81	No	Pipeline	0.00	1.60
Cu	Cubden-Badger silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	81	No	Pipeline	0.00	18.83
Cv	Cubden-Badger silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	81	No	Pipeline	0.00	8.24
J123A	Cubden-Badger silty clay loams, coteau, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	81	No	Pipeline	0.00	0.79
Cx	Cubden-Tonka silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	71	No	Access Road	0.08	0.08
Cx	Cubden-Tonka silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	71	No	MLV	0.06	0.06
Ct	Cubden-Tonka silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	71	No	Pipeline	0.00	2.02
Cw	Cubden-Tonka silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	71	No	Pipeline	0.00	8.22
Cx	Cubden-Tonka silty clay loams, coteau, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	71	No	Pipeline	0.00	14.39
J124A	Cubden-Tonka silty clay loams, coteau, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.49	4L	71	No	Pipeline	0.00	10.03
C521B	Daglum-Rhoades loams, 0 to 6 percent slopes, shaly	No	No	Moderately Well Drained	No Bedrock Identified	7.1	11.7	0.49	6	30	Smectitic	Pipeline	0.00	1.81
Z165B	Darnen loam, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.3	0.0	0.37	6	85	No	Pipeline	0.00	2.13
J245A	Darnen loam, stratified substratum, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.5	0.0	0.32	6	91	No	Pipeline	0.00	0.49
Da	Davis Loam	Yes	No	Moderately Well Drained	No Bedrock Identified	1.3	0.0	0.37	6	91	No	Access Road	0.00	0.31

Soil Map Units Impacted by the Project

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Da	Davis loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.3	0.0	0.32	6	88	No	Pipeline	0.00	1.79
DaA	Davis loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.2	0.0	0.37	6	89	No	Pipeline	0.00	3.49
DaB	Davis loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.4	0.0	0.43	6	81	No	Pipeline	0.00	0.53
DaB	Davis loam, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.5	0.0	0.32	6	87	No	Pipeline	0.00	1.69
LdA	Davis silt loam, fans, nearly level	Yes	No	Moderately Well Drained	No Bedrock Identified	1.3	0.0	0.28	6	92	No	Pipeline	0.00	1.23
Dd	Davison-Crossplain clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.9	0.9	0.32	4L	76	No	Pipeline	0.00	12.69
Dc	Davison-Crossplain complex	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	2.9	0.8	0.37	6	78	No	Pipeline	0.00	3.83
DkB	Delmont and Talmo soils, 2 to 9 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	25	No	Pipeline	0.00	4.13
DeA	Delmont loam, 0 to 2 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	41	No	Pipeline	0.00	7.79
Sm	Delmont loam, 0 to 2 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	41	No	Pipeline	0.00	2.88
DeB	Delmont loam, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	38	No	Pipeline	0.00	5.78
DeA	Delmont-Enet loams, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	50	No	Pipeline	0.00	2.96
EdA	Delmont-Enet loams, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	50	No	Pipeline	0.00	9.31
DeB	Delmont-Enet loams, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	44	No	Pipeline	0.00	5.03
EdB	Delmont-Enet loams, 2 to 6 percent slopes	SWI	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	44	No	Pipeline	0.00	0.47
DehB	Delmont-Enet loams, high precipitation, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.37	6	44	No	Pipeline	0.00	1.09
DfB	Delmont-Talmo complex, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	37	No	Pipeline	0.00	1.44
DeB	Delmont-Talmo loams, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	32	No	Access Road	0.00	0.04
DeB	Delmont-Talmo loams, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	32	No	Pipeline	0.00	9.02
DtB	Delmont-Talmo loams, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	34	No	Pipeline	0.00	3.61
DeC	Delmont-Talmo loams, 6 to 9 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	27	No	Access Road	0.00	0.09
DeC	Delmont-Talmo loams, 6 to 9 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	6	27	No	Pipeline	0.00	2.58
DmA	Dempster silt loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	64	No	Access Road	0.01	0.72
DmA	Dempster silt loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	64	No	MLV	0.06	0.06
DmA	Dempster silt loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	64	No	Pipeline	0.00	24.94
DmB	Dempster silt loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	63	No	Pipeline	0.00	13.70
De	Dempster silty clay loam	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	7	65	No	Access Road	0.05	0.05
De	Dempster silty clay loam	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	7	65	No	MLV	0.06	0.06
De	Dempster silty clay loam	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	7	65	No	Pipeline	0.00	5.10
DpC	Dempster-Delmont complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	40	No	Pipeline	0.00	1.17
DgB	Dempster-Graceville silty clay loams, 1 to 5 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	7	64	No	Pipeline	0.00	0.97
DtB	Dempster-Talmo complex, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	48	No	Pipeline	0.00	0.58
SyA	Dimo loam, nearly level	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Pipeline	0.00	0.27

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Da	Divide loam	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	0.0	1.0	0.28	4L	53	No	Pipeline	0.00	3.15
C825A	Divide loam, 0 to 2 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	2.0	1.2	0.37	4L	62	No	Pipeline	0.00	3.40
Z159A	Divide loam, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.32	4L	54	No	Access Road	0.03	0.43
Z159A	Divide loam, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.32	4L	54	No	MLV	0.06	0.06
Z159A	Divide loam, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.32	4L	54	No	Pipeline	0.00	41.40
Dg	Doger loamy fine sand	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.17	2	37	No	Pipeline	0.00	1.35
C496A	Dovecreek silt loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.4	0.0	0.55	6	89	No	Pipeline	0.00	1.18
C492A	Dovecreek-Fluvaquents channeled, complex, 0 to 2 percent slopes, flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.4	0.0	0.55	6	51	No	MLV	0.02	0.02
C492A	Dovecreek-Fluvaquents channeled, complex, 0 to 2 percent slopes, flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.4	0.0	0.55	6	51	No	Pipeline	0.00	3.54
G040A	Dovray silty clay, undrained, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.4	0.4	0.37	4	27	Smectitic	Pipeline	0.00	2.12
Du	Dudley-Jerauld silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.7	10.0	0.43	6	28	Smectitic	Access Road	0.05	0.05
Du	Dudley-Jerauld silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.7	10.0	0.43	6	28	Smectitic	MLV	0.06	0.06
DkA	Dudley-Jerauld silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.7	10.0	0.43	6	28	Smectitic	Pipeline	0.00	3.48
Du	Dudley-Jerauld silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.7	10.0	0.43	6	28	Smectitic	Pipeline	0.00	17.22
Dx	Dudley-Jerauld silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.7	10.0	0.43	6	28	Smectitic	Pipeline	0.00	13.65
MdA	Dudley-Jerauld silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.7	10.0	0.43	6	28	Smectitic	Pipeline	0.00	5.37
DtA	Dudley-Tetonka silt loams	No	No	Somewhat Poorly Drained	No Bedrock Identified	9.0	8.1	0.37	6	43	Montmorillonitic	Access Road	0.01	0.01
DtA	Dudley-Tetonka silt loams	No	No	Somewhat Poorly Drained	No Bedrock Identified	9.0	8.1	0.37	6	43	Montmorillonitic	MLV	0.05	0.05
DtA	Dudley-Tetonka silt loams	No	No	Somewhat Poorly Drained	No Bedrock Identified	9.0	8.1	0.37	6	43	Montmorillonitic	Pipeline	0.00	8.56
Du	Durrstein and Egas soils	No	Yes	Poorly Drained	No Bedrock Identified	10.0	18.2	0.49	6	7	Montmorillonitic	Pipeline	0.00	0.96
Dh	Durrstein silt loam	No	Yes	Poorly Drained	No Bedrock Identified	10.0	18.7	0.49	6	13	Montmorillonitic	Pipeline	0.00	1.70
EtA	Durrstein silty clay loam, nearly level	No	Yes	Poorly Drained	No Bedrock Identified	10.0	18.7	0.43	7	30	Montmorillonitic	Pipeline	0.00	6.60
RhA	Eakin-Raber complex, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	83	No	Access Road	0.29	0.29
RhA	Eakin-Raber complex, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	83	No	Launcher/Receiver	0.04	0.04
RhA	Eakin-Raber complex, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	83	No	MLV	0.06	0.06
RhA	Eakin-Raber complex, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	83	No	Pipeline	0.00	39.71
RgB	Eakin-Raber complex, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	76	No	Pipeline	0.00	40.97
G493A	Eckman-Gardena very fine sandy loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.5	0.0	0.49	3	90	No	Pipeline	0.00	0.73
G493B	Eckman-Gardena very fine sandy loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.3	0.0	0.49	3	84	No	Pipeline	0.00	0.65
G584B	Edgeley loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.8	1.2	0.37	6	71	No	Pipeline	0.00	1.40
G584C	Edgeley loam, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	3.0	1.4	0.37	6	62	No	Pipeline	0.00	4.14
G584D	Edgeley loam, 9 to 15 percent slopes	No	No	Well Drained	2 to 3 feet	3.0	1.4	0.37	6	46	No	Pipeline	0.00	3.87
G589B	Edgeley-Kloten complex, 1 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	2.1	0.9	0.37	6	62	No	Pipeline	0.00	2.95

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
EaB	Egan silty clay loam, 3 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	0.5	0.43	7	82	No	Pipeline	0.00	36.38
EaC	Egan silty clay loam, 6 to 11 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	72	No	Pipeline	0.00	12.51
EbA	Egan-Beadle complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	87	No	Pipeline	0.00	3.11
EbB	Egan-Beadle complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	78	No	Access Road	0.00	1.21
EbB	Egan-Beadle complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	78	No	Pipeline	0.00	64.43
EbC	Egan-Beadle complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	66	No	Pipeline	0.00	15.34
EcB	Egan-Chancellor silty clay loams, 0 to 4 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.6	0.5	0.43	7	83	No	Pipeline	0.00	1.57
EaB	Egan-Ethan complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.8	0.6	0.43	7	76	No	Pipeline	0.00	3.51
EeB	Egan-Ethan complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.7	0.5	0.43	7	77	No	Pipeline	0.00	57.75
EaC	Egan-Ethan complex, 5 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.5	0.5	0.43	7	67	No	Pipeline	0.00	8.62
EeC2	Egan-Ethan complex, 6 to 9 percent slopes, eroded	No	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	66	No	Access Road	0.04	0.04
EeC2	Egan-Ethan complex, 6 to 9 percent slopes, eroded	No	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	66	No	MLV	0.11	0.11
EeC2	Egan-Ethan complex, 6 to 9 percent slopes, eroded	No	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	66	No	Pipeline	0.00	49.50
EeB	Egan-Ethan-Trent complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.8	0.6	0.43	7	81	No	Access Road	0.08	0.15
EeB	Egan-Ethan-Trent complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.8	0.6	0.43	7	81	No	MLV	0.06	0.06
EeB	Egan-Ethan-Trent complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.8	0.6	0.43	7	81	No	Pump Station	2.96	2.96
EeB	Egan-Ethan-Trent complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.8	0.6	0.43	7	81	No	Pipeline	0.00	162.46
EsB	Egan-Shindler complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.6	0.5	0.43	7	77	No	Pipeline	0.00	39.31
EsC	Egan-Shindler complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.6	0.5	0.43	7	65	No	Pipeline	0.00	11.09
EfA	Egan-Trent silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.7	0.5	0.43	7	92	No	Access Road	0.02	0.02
EfA	Egan-Trent silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.7	0.5	0.43	7	92	No	MLV	0.06	0.06
EfA	Egan-Trent silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.7	0.5	0.43	7	92	No	Pipeline	0.00	23.22
EgA	Egan-Viborg silty clay loams, 0 to 3 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	92	No	Access Road	0.03	0.03
EgA	Egan-Viborg silty clay loams, 0 to 3 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	92	No	MLV	0.06	0.06
EgA	Egan-Viborg silty clay loams, 0 to 3 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.5	0.43	7	92	No	Pipeline	0.00	34.30
WeA	Egan-Wentworth complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	92	No	Access Road	0.06	0.06
WeA	Egan-Wentworth complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	92	No	MLV	0.0006	0.0006
WeA	Egan-Wentworth complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	92	No	Pipeline	0.00	1.92
EhB	Egan-Wentworth complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Access Road	0.06	0.34
EhB	Egan-Wentworth complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Launcher/Receiver	0.49	0.49
EhB	Egan-Wentworth complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	MLV	0.06	0.06
EhB	Egan-Wentworth complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Pump Station	2.61	2.61
EgB	Egan-Wentworth complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Pipeline	0.00	36.81

Soil Map Units Impacted by the Project

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EhB	Egan-Wentworth complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Pipeline	0.00	128.43
EgB	Egan-Wentworth-Trent complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Access Road	0.05	0.05
EgB	Egan-Wentworth-Trent complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	MLV	0.06	0.06
EgB	Egan-Wentworth-Trent complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Pipeline	0.00	22.79
EwB	Egan-Worthing complex, 0 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.5	0.43	7	66	No	Pipeline	0.00	2.78
Eg	Egas silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	12.0	1.9	0.32	4	8	Montmorillonitic	Pipeline	0.00	12.91
Sa	Egas silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	12.0	1.9	0.37	4	5	Montmorillonitic	Pipeline	0.00	0.39
EaA	Egeland sandy loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	3	67	No	Access Road	0.12	0.19
EaA	Egeland sandy loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	3	67	No	MLV	0.06	0.06
EaA	Egeland sandy loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	3	67	No	Pipeline	0.00	3.71
EaB	Egeland sandy loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	3	72	No	Access Road	0.00	0.03
EaB	Egeland sandy loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.28	3	72	No	Pipeline	0.00	10.70
EgA	Egeland-Embden complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.20	3	64	No	Pipeline	0.00	1.07
EgB	Egeland-Embden complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	3	57	No	Pipeline	0.00	4.83
Z185A	Egeland-Embden complex, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.7	0.0	0.28	3	59	No	Pipeline	0.00	1.51
G373B	Egeland-Letcher fine sandy loams, till substratum, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.3	1.6	0.37	3	52	No	Pipeline	0.00	12.59
EmC	Egeland-Maddock sandy loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.20	3	36	No	Pipeline	0.00	0.70
Em	Elsmere loamy fine sand, loamy substratum	No	No	Somewhat Poorly Drained	No Bedrock Identified	0.3	0.0	0.37	2	67	No	Pipeline	0.00	2.10
EcA	Enet loam, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	60	No	Pipeline	0.00	1.58
EmA	Enet loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	60	No	Pipeline	0.00	1.56
EnA	Enet loam, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	60	No	Pipeline	0.00	18.78
EnB	Enet loam, 2 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	54	No	Pipeline	0.00	1.12
HbB	Esmond-Heimdal-Sisseton complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.6	0.6	0.43	5	81	No	Access Road	0.02	0.02
HbB	Esmond-Heimdal-Sisseton complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.6	0.6	0.43	5	81	No	MLV	0.06	0.06
HbB	Esmond-Heimdal-Sisseton complex, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.6	0.6	0.43	5	81	No	Pipeline	0.00	1.26
HbC	Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded	SWI	No	Well Drained	No Bedrock Identified	0.6	1.2	0.43	5	58	No	Access Road	0.02	0.02
HbC	Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded	SWI	No	Well Drained	No Bedrock Identified	0.6	1.2	0.43	5	58	No	MLV	0.06	0.06
HbC	Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded	SWI	No	Well Drained	No Bedrock Identified	0.6	1.2	0.43	5	58	No	Pipeline	0.00	17.69
Z182A	Estelline silt loam, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	66	No	Access Road	0.03	0.03
Z182A	Estelline silt loam, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	66	No	MLV	0.06	0.06
Z182A	Estelline silt loam, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	66	No	Pipeline	0.00	16.01
Z182B	Estelline silt loam, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	59	No	Pipeline	0.00	4.67
Ec	Estelline silty clay loam	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	7	63	No	Pipeline	0.00	0.89

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Z282B	Estelline-Kampeska silt loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.8	0.0	0.49	6	54	No	Pipeline	0.00	1.65
Z183B	Estelline-Sioux complex, coteau, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	0.8	0.0	0.49	6	45	No	Pipeline	0.00	1.70
ExC	Ethan, very stony-Egan complex, 2 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.9	0.5	0.32	8	41	No	Pipeline	0.00	5.67
BfD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Access Road	0.00	0.25
BbD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Pipeline	0.00	0.03
BfD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Pipeline	0.00	1.39
EcD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Pipeline	0.00	0.61
EnD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Pipeline	0.00	0.29
EpD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Pipeline	0.00	1.25
EsD	Ethan-Betts loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	30	No	Pipeline	0.00	11.59
EoD	Ethan-Bon, channeled, loams, 0 to 20 percent slopes	No	No	Well Drained	No Bedrock Identified	2.2	0.6	0.32	6	39	No	Access Road	0.00	0.02
EoD	Ethan-Bon, channeled, loams, 0 to 20 percent slopes	No	No	Well Drained	No Bedrock Identified	2.2	0.6	0.32	6	39	No	Pipeline	0.00	7.09
ErE	Ethan-Clarno loams, 16 to 21 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.8	0.32	4L	29	No	Pipeline	0.00	0.82
EsE	Ethan-Clarno loams, 6 to 25 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.9	0.5	0.32	8	11	No	Pipeline	0.00	5.47
ETC	Ethan-Clarno loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	64	No	Pipeline	0.00	4.51
ETD	Ethan-Clarno loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.9	0.5	0.32	4L	39	No	Pipeline	0.00	20.97
EsE	Ethan-Clarno stony complex, 6 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.8	0.32	8	14	No	Access Road	0.00	2.55
EsE	Ethan-Clarno stony complex, 6 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.8	0.32	8	14	No	Pipeline	0.00	7.94
ETD	Ethan-Davis stony complex, 3 to 21 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.8	0.32	8	26	No	Access Road	0.00007	0.00007
ETD	Ethan-Davis stony complex, 3 to 21 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.8	0.32	8	26	No	MLV	0.04	0.04
ETD	Ethan-Davis stony complex, 3 to 21 percent slopes	No	No	Well Drained	No Bedrock Identified	2.6	0.8	0.32	8	26	No	Pipeline	0.00	3.27
ETC	Ethan-Egan complex, 5 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.3	0.7	0.32	4L	61	No	Pipeline	0.00	10.92
EuC	Ethan-Egan complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.9	0.5	0.32	4L	61	No	Pump Station	0.03	0.03
EuC	Ethan-Egan complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.9	0.5	0.32	4L	61	No	Pipeline	0.00	87.41
ZaD	Ethan-Houdek loams, hilly	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	4L	40	No	Pipeline	0.00	1.29
G845A	Exline-Aberdeen-Nahon silt loams, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	8.7	9.9	0.49	6	38	Smectitic	Access Road	0.31	0.49
G845A	Exline-Aberdeen-Nahon silt loams, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	8.7	9.9	0.49	6	38	Smectitic	MLV	0.11	0.11
G845A	Exline-Aberdeen-Nahon silt loams, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	8.7	9.9	0.49	6	38	Smectitic	Pipeline	0.00	36.97
G846A	Exline-Aberdeen-Nahon silt loams, till substratum, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	7.1	9.9	0.49	6	39	Smectitic	Pipeline	0.00	25.21
G847A	Exline-Harmony complex, till substratum, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	6.6	11.3	0.49	6	44	Smectitic	Pipeline	0.00	1.54
G848A	Exline-Heil silt loams, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	10.4	12.6	0.43	6	18	Smectitic	Pipeline	0.00	12.08
G849A	Exline-Heil silt loams, till substratum, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	6.6	11.3	0.49	6	19	Smectitic	Pipeline	0.00	3.38
G850B	Exline-Putney silt loams, 1 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	6.5	11.3	0.49	6	47	Smectitic	Pipeline	0.00	9.37

Soil Map Units Impacted by the Project

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Z157A	Fairdale loam, channeled, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	0.8	0.0	0.43	4L	20	No	Pipeline	0.00	1.35
G133A	Ferney-Heil, till substratum complex, 0 to 3 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	10.3	14.5	0.32	6	18	Smectitic	Access Road	0.00	0.33
G133A	Ferney-Heil, till substratum complex, 0 to 3 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	10.3	14.5	0.32	6	18	Smectitic	Pipeline	0.00	44.30
G574A	vaquents, channeled-La Prairie-Holmquist complex, 0 to 2 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.0	0.0	0.15	3	33	No	Access Road	0.00	0.26
G574A	vaquents, channeled-La Prairie-Holmquist complex, 0 to 2 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.0	0.0	0.15	3	33	No	Pipeline	0.00	1.36
Z166A	Fordtown loam, 0 to 2 percent slopes, rarely flooded	Yes	No	Well Drained	No Bedrock Identified	0.5	0.0	0.28	6	60	No	Pipeline	0.00	14.39
FbA	Fordville loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	6	58	No	Pipeline	0.00	0.90
FdA	Fordville loam, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	6	59	No	Pipeline	0.00	2.17
FrA	Forestburg-Doger loamy fine sands, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.43	2	52	No	Pipeline	0.00	6.24
J225B	Forman-Aastad complex, 1 to 4 percent slopes	N/A	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	6	88	No	Pipeline	0.00	28.06
FeC	Forman-Aastad extremely stony complex, 0 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	3.5	0.6	0.37	8	27	No	Pipeline	0.00	0.64
G191B	Forman-Aastad loams, 0 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.4	0.4	0.32	6	85	No	Pipeline	0.00	18.19
FdB	Forman-Aastad loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.6	0.0	0.37	6	82	No	Access Road	0.00	0.10
FdB	Forman-Aastad loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.6	0.0	0.37	6	82	No	Pipeline	0.00	9.83
FdC	Forman-Aastad loams, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.6	0.0	0.37	6	69	No	Pipeline	0.00	9.41
FdD	Forman-Aastad loams, 4 to 15 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.6	0.0	0.37	6	57	No	Pipeline	0.00	4.52
Z131B	Forman-Aastad loams, coteau, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.7	0.5	0.32	6	83	No	Pipeline	0.00	0.15
J209C	Forman-Buse complex, 6 to 12 percent slopes, moderately eroded	SWI	No	Well Drained	No Bedrock Identified	0.0	0.0	0.37	6	65	No	Pipeline	0.00	0.56
FhE	Forman-Buse extremely stony loams, 9 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	3.5	0.6	0.37	8	11	No	Pipeline	0.00	0.18
FgE	Forman-Buse loams, 15 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.6	0.0	0.37	6	25	No	Pipeline	0.00	2.34
Z135D	Forman-Buse loams, 2 to 15 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.7	0.5	0.32	6	11	No	Pipeline	0.00	2.18
FgC	Forman-Buse loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.6	0.0	0.37	6	63	No	Pipeline	0.00	1.25
G190B	Forman-Buse-Aastad loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.4	0.4	0.32	6	79	No	Access Road	0.06	1.11
G190B	Forman-Buse-Aastad loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.4	0.4	0.32	6	79	No	MLV	0.06	0.06
G190B	Forman-Buse-Aastad loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.4	0.4	0.32	6	79	No	Pipeline	0.00	22.15
G190C	Forman-Buse-Aastad loams, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.5	0.5	0.32	6	65	No	Pipeline	0.00	5.61
Z132B	Forman-Buse-Aastad loams, coteau 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.7	0.5	0.32	6	75	No	Pipeline	0.00	0.51
Z132D	Forman-Buse-Aastad loams, coteau, 2 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.7	0.5	0.32	6	52	No	Pipeline	0.00	3.41
Z132C	Forman-Buse-Aastad loams, coteau, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.7	0.5	0.32	6	64	No	Pipeline	0.00	4.06
G897D	Forman-Buse-Lowe, occasionally flooded loams, 0 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.4	0.0	0.37	6	51	No	Pipeline	0.00	0.76
G139A	Forman-Cresbard loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.37	6	79	No	Pipeline	0.00	61.93
G139B	Forman-Cresbard loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.37	6	76	No	Access Road	0.04	0.04
G139B	Forman-Cresbard loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.37	6	76	No	MLV	0.06	0.06

Soil Map Units Impacted by the Project

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G139B	Forman-Cresbard loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.37	6	76	No	Pipeline	0.00	8.40
Ft	Forman-Cresbard-Tonka complex	SWI	No	Well Drained	No Bedrock Identified	1.5	0.0	0.37	6	75	No	Pipeline	0.00	0.48
G136A	Forman-Cresbard-Tonka complex, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.4	0.0	0.37	6	73	No	Pipeline	0.00	7.68
WmC	Glenham loam, rolling	SWI	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	64	No	Pipeline	0.00	1.24
WmB	Glenham loam, undulating	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	82	No	Pipeline	0.00	11.09
WpA	Glenham-Cavo loams, nearly level	No	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	63	No	Pipeline	0.00	0.43
WpB	Glenham-Cavo loams, undulating	No	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	58	No	Pipeline	0.00	1.69
WuB	Glenham-Delmont loams, undulating	SWI	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	66	No	Pipeline	0.00	2.36
WzC	Glenham-Java loams, rolling	SWI	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	58	No	Pipeline	0.00	2.85
GnA	Glenham-Java-Cavo loams, 0 to 4 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	65	No	Pipeline	0.00	9.56
GmB	Glenham-Java-Prosper loams, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	Pipeline	0.00	93.96
WnB	Glenham-Propser loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Access Road	0.00	0.74
GrB	Glenham-Propser loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Pipeline	0.00	3.21
WnB	Glenham-Propser loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	82	No	Pipeline	0.00	36.51
GrA	Glenham-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	86	No	Access Road	0.02	0.02
GrA	Glenham-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	86	No	MLV	0.06	0.06
GIa	Glenham-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	86	No	Pipeline	0.00	1.09
GrA	Glenham-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	86	No	Pipeline	0.00	21.00
WnA	Glenham-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	86	No	Pipeline	0.00	8.37
GsA	Glenham-Prosper-Hoven complex, 0 to 4 percent slopes	No	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	68	No	Access Road	0.00	0.11
GsA	Glenham-Prosper-Hoven complex, 0 to 4 percent slopes	No	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	68	No	Pipeline	0.00	38.34
GuA	Glenham-Stickney-Hoven complex, 0 to 4 percent slopes	No	No	Well Drained	No Bedrock Identified	1.8	0.8	0.37	6	58	No	Pipeline	0.00	1.73
Gb	Graceville silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	83	No	Pipeline	0.00	7.56
Gr	Graceville silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	83	No	Pipeline	0.00	22.88
C457A	Grassna silt loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	98	No	Access Road	0.00	0.18
C457A	Grassna silt loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	98	No	Pipeline	0.00	5.03
Ga	Grat loam	No	Yes	Poorly Drained	No Bedrock Identified	1.4	0.9	0.32	6	49	Montmorillonitic	Access Road	0.02	0.02
Ga	Grat loam	No	Yes	Poorly Drained	No Bedrock Identified	1.4	0.9	0.32	6	49	Montmorillonitic	MLV	0.06	0.06
Ga	Grat loam	No	Yes	Poorly Drained	No Bedrock Identified	1.4	0.9	0.32	6	49	Montmorillonitic	Pipeline	0.00	3.68
G720A	Great Bend-Beotia silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	1.0	0.49	6	95	No	Access Road	0.04	0.67
G720A	Great Bend-Beotia silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	1.0	0.49	6	95	No	MLV	0.06	0.06
G720A	Great Bend-Beotia silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	1.0	0.49	6	95	No	Pipeline	0.00	137.85
G720B	Great Bend-Beotia silt loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	1.0	0.49	6	88	No	Access Road	0.04	0.34

Soil Map Units Impacted by the Project

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G720B	Great Bend-Beotia silt loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	1.0	0.49	6	88	No	MLV	0.06	0.06
G720B	Great Bend-Beotia silt loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	1.0	0.49	6	88	No	Pipeline	0.00	45.97
G721A	Great Bend-Beotia silt loams, till substratum, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.7	0.6	0.49	6	95	No	Access Road	0.00	0.11
G721A	Great Bend-Beotia silt loams, till substratum, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.7	0.6	0.49	6	95	No	Pipeline	0.00	3.89
G724A	Great Bend-Putney silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.5	0.0	0.55	6	87	No	Access Road	0.00	0.56
G724A	Great Bend-Putney silt loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.5	0.0	0.55	6	87	No	Pipeline	0.00	9.49
G724B	Great Bend-Putney silt loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.5	0.0	0.55	6	83	No	Pipeline	0.00	1.59
G722B	Great Bend-Zell silt loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.5	0.0	0.55	6	77	No	Pipeline	0.00	14.14
G722C	Great Bend-Zell silt loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.5	0.0	0.55	6	66	No	Pipeline	0.00	23.23
C270A	Hamerly loam, 0 to 3 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	4.5	3.3	0.32	4L	76	No	Pipeline	0.00	1.48
G102A	Hamerly loam, 0 to 3 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	4.1	3.1	0.32	4L	83	No	Pipeline	0.00	0.64
Z115A	Hamerly-Badger complex, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.37	4L	78	No	Pipeline	0.00	2.77
Z119A	Hamerly-Balaton loams, coteau, 0 to 3 percent slopes	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.32	4L	69	No	Pipeline	0.00	0.33
Z114A	Hamerly-Tonka complex, coteau, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.6	0.32	4L	66	No	Pipeline	0.00	1.16
HbA	Hand loam, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	86	No	Pipeline	0.00	7.70
HbB	Hand loam, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	81	No	Pipeline	0.00	0.30
HgB	Hand-Ethan-Bonilla loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	79	No	Pipeline	0.00	8.11
HjB	Hand-Talmo complex, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	54	No	Pipeline	0.00	0.68
G861A	Harmony silty clay loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.1	1.4	0.43	6	83	Smectitic	Pipeline	0.00	3.85
G865A	Harmony-Aberdeen silt loams, till substratum, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.3	0.6	0.55	6	82	Smectitic	Access Road	0.05	0.05
G865A	Harmony-Aberdeen silt loams, till substratum, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.3	0.6	0.55	6	82	Smectitic	MLV	0.06	0.06
G865A	Harmony-Aberdeen silt loams, till substratum, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.3	0.6	0.55	6	82	Smectitic	Pipeline	0.00	23.27
G866A	Harmony-Aberdeen silty clay loams, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	1.8	0.5	0.49	6	80	Smectitic	Pipeline	0.00	96.24
G862A	Harmony-Beotia silt loams, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.4	1.0	0.49	6	92	Smectitic	Access Road	0.02	0.02
G862A	Harmony-Beotia silt loams, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.4	1.0	0.49	6	92	Smectitic	MLV	0.06	0.06
G862A	Harmony-Beotia silt loams, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.4	1.0	0.49	6	92	Smectitic	Pipeline	0.00	57.14
G863A	Harmony-Beotia silt loams, till substratum, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.4	0.6	0.49	6	92	Smectitic	Pipeline	0.00	22.02
G867A	Harmony-Exline complex, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	2.4	1.2	0.49	6	67	Smectitic	Pipeline	0.00	13.00
G554A	Harriet loam, 0 to 1 percent slopes, occasionally flooded	No	Yes	Poorly Drained	No Bedrock Identified	11.2	9.2	0.37	6	21	Smectitic	Pipeline	0.00	5.31
C584A	Harriet loam, 0 to 2 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	11.0	9.8	0.37	6	26	Smectitic	Pipeline	0.00	6.60
HaE	Hattie clay loam, 15 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.24	4	32	Montmorillonitic	Pipeline	0.00	3.66
HaD	Hattie clay loam, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	0.0	0.0	0.24	4	49	Montmorillonitic	Pipeline	0.00	6.88
C020A	Heil silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	8.3	9.7	0.37	6	20	Smectitic	Access Road	0.00	0.21

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
C020A	Heil silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	8.3	9.7	0.37	6	20	Smectitic	Pipeline	0.00	20.81
G017A	Heil silt loam, till substratum, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	6.8	11.5	0.43	6	11	Smectitic	Pipeline	0.00	7.36
HcA	Heimdal-Svea loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.43	5	87	No	Pipeline	0.00	13.84
HcB	Heimdal-Svea loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.43	5	82	No	Access Road	0.00	0.57
HcB	Heimdal-Svea loams, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.43	5	82	No	Pipeline	0.00	32.46
HeA	Henkin loam, 0 to 3 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	5	59	No	Pipeline	0.00	0.73
HeB	Henkin loam, 3 to 9 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	5	45	No	Access Road	0.49	0.49
HeB	Henkin loam, 3 to 9 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	5	45	No	MLV	0.02	0.02
HeB	Henkin loam, 3 to 9 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	5	45	No	Pipeline	0.00	3.12
HsA	Henkin-Blendon fine sandy loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.24	3	62	No	Pipeline	0.00	0.71
HkB	Henkin-Blendon fine sandy loams, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	3	57	No	Pipeline	0.00	0.59
HsB	Henkin-Blendon fine sandy loams, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.24	3	57	No	Pipeline	0.00	0.47
HeA	Hetland silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	89	Smectitic	Pipeline	0.00	5.70
HmA	Hetland silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	89	Smectitic	Pipeline	0.00	16.37
HeB	Hetland silty clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	84	Smectitic	Pipeline	0.00	7.58
HmB	Hetland silty clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	84	Smectitic	Pipeline	0.00	1.54
Z252A	Hidewood silty clay loam, 0 to 2 percent slopes, frequently flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	0.7	0.4	0.49	4L	54	No	Pipeline	0.00	0.40
HeA	Highmore silt loam, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	92	No	Pipeline	0.00	46.08
HeB	Highmore silt loam, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	91	No	Pipeline	0.00	1.20
HdA	Highmore-DeGrey silt loams, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	76	No	Pipeline	0.00	1.15
HmA	Highmore-Walke silt loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	85	No	Pipeline	0.00	3.37
BbB	Hokans-Svea complex, 1 to 4 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.0	0.0	0.32	6	87	No	Pipeline	0.00	2.77
HhA	Houdek loam, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	86	No	Pipeline	0.00	4.76
HhB	Houdek loam, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	81	No	Access Road	0.02	0.02
HhB	Houdek loam, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	81	No	MLV	0.06	0.06
HhB	Houdek loam, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	81	No	Pipeline	0.00	38.51
HhC	Houdek loam, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	64	No	Pipeline	0.00	3.23
HcB	Houdek stony loam, 0 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	7	4	No	Pipeline	0.00	4.62
HIA	Houdek-Dudley complex, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	61	No	Pipeline	0.00	10.02
HdA	Houdek-Dudley complex, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	76	No	Pipeline	0.00	16.24
HdB	Houdek-Dudley complex, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	63	No	Pipeline	0.00	10.03
HIB	Houdek-Dudley complex, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	63	No	Pipeline	0.00	15.88
HgB	Houdek-Dudley-Tetonka complex, 0 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	60	No	Pipeline	0.00	27.64

Soil Map Units Impacted by the Project

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HeB	Houdek-Ethan loams, 2 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	70	No	Pipeline	0.00	0.76
HuD	Houdek-Ethan loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	58	No	Pipeline	0.00	32.98
HnB	Houdek-Ethan-Prosper loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	1.57
HtB	Houdek-Ethan-Prosper loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	78	No	Pipeline	0.00	11.95
HmB	Houdek-Jerauld complex, undulating	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	59	No	Pipeline	0.00	1.01
HoA	Houdek-Prosper loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Access Road	0.12	0.12
HpA	Houdek-Prosper loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Access Road	0.06	0.06
HoA	Houdek-Prosper loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	MLV	0.06	0.06
HpA	Houdek-Prosper loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	MLV	0.06	0.06
HeA	Houdek-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	3.25
HkA	Houdek-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	44.67
HkA	Houdek-Prosper loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	19.98
HoA	Houdek-Prosper loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	58.63
HpA	Houdek-Prosper loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	11.63
HpA	Houdek-Prosper loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	88	No	Pipeline	0.00	9.04
HkB	Houdek-Prosper loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Access Road	0.00	0.62
HkB	Houdek-Prosper loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Pipeline	0.00	70.51
HoB	Houdek-Prosper loams, 1 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Pipeline	0.00	21.63
HpB	Houdek-Prosper loams, 1 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	84	No	Pipeline	0.00	6.25
HfA	Houdek-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	Access Road	0.03	0.03
HsA	Houdek-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	Access Road	0.00	0.31
HfA	Houdek-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	MLV	0.06	0.06
HfA	Houdek-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	Pipeline	0.00	65.11
HsA	Houdek-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	Pipeline	0.00	176.44
HwA	Houdek-Stickney complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	77	No	Pipeline	0.00	16.83
HsB	Houdek-Stickney complex, 2 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	74	No	Access Road	0.00	0.30
HsB	Houdek-Stickney complex, 2 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	74	No	Pipeline	0.00	22.95
Ht	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Access Road	0.03	0.27
Ht	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Launcher/Receiver	0.52	0.52
CnA	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Pipeline	0.00	28.26
Ht	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Pipeline	0.00	13.45
Ht	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	Yes, if drained	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Pipeline	0.00	83.93
HxA	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	75	No	Pipeline	0.00	43.33

Soil Map Units Impacted by the Project

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HsD	Houdek-Talmo complex, hilly	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	35	No	Pipeline	0.00	4.26
Hk	Hoven silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	4.3	12.5	0.43	6	15	Smectitic	Pipeline	0.00	3.19
Ho	Hoven silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	4.3	12.5	0.43	6	15	Smectitic	Pipeline	0.00	11.56
Hv	Hoven silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	4.3	12.5	0.43	6	15	Smectitic	Pipeline	0.00	8.10
Hy	Hoven silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	4.3	12.5	0.43	6	15	Smectitic	Pipeline	0.00	0.03
ScA	Huntimer silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.32	4	90	Montmorillonitic	Access Road	0.74	1.02
ScA	Huntimer silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.32	4	90	Montmorillonitic	Launcher/Receiver	0.42	0.42
HuA	Huntimer silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.5	0.7	0.43	4	90	Montmorillonitic	Pipeline	0.00	23.06
ScA	Huntimer silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.32	4	90	Montmorillonitic	Pipeline	0.00	21.54
HuB	Huntimer silty clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.5	0.7	0.43	4	84	Smectitic	Pipeline	0.00	9.63
SdB	Huntimer silty clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.32	4	85	Montmorillonitic	Pipeline	0.00	18.30
JbD	Java-Betts loams, 6 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	2.0	0.3	0.37	6	43	No	Pipeline	0.00	11.00
JcD	Java-Betts stony complex, 3 to 12 percent slopes	No	No	Well Drained	No Bedrock Identified	2.0	0.3	0.37	6	24	No	Pipeline	0.00	1.82
JgC	Java-Glenham loams, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.0	0.3	0.37	6	63	No	Pipeline	0.00	2.56
JgC	Java-Glenham loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.5	0.5	0.37	6	55	No	Pipeline	0.00	4.74
MhB	Jerauld-Houdek complex, undulating	No	No	Moderately Well Drained	No Bedrock Identified	5.6	10.9	0.43	6	41	Smectitic	Access Road	0.00	1.38
MhB	Jerauld-Houdek complex, undulating	No	No	Moderately Well Drained	No Bedrock Identified	5.6	10.9	0.43	6	41	Smectitic	Pipeline	0.00	5.38
Ka	Kennebec silty clay loam	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.43	7	94	No	Pipeline	0.00	2.53
Z125B	Kings Lake-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.1	0.6	0.49	6	81	No	Pipeline	0.00	5.05
J143A	Kranzburg-Brookings silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	93	No	Access Road	0.12	0.12
J143A	Kranzburg-Brookings silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	93	No	Launcher/Receiver	0.51	0.51
J143A	Kranzburg-Brookings silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	93	No	Pipeline	0.00	17.79
J143B	Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	87	No	Access Road	0.01	0.01
J143B	Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	87	No	Launcher/Receiver	0.003	0.003
J143B	Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	87	No	Pipeline	0.00	50.14
KrB	Kranzburg-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	0.5	0.43	6	83	No	Access Road	0.00	0.05
KrB	Kranzburg-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.3	0.5	0.43	6	83	No	Pipeline	0.00	2.75
G796A	Kranzburg-Cresbard silt loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.4	0.6	0.43	6	81	No	Pipeline	0.00	7.10
G793B	Kranzburg-Zell-Aastad complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.6	0.43	6	80	No	Access Road	0.00	0.30
G793B	Kranzburg-Zell-Aastad complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	0.6	0.43	6	80	No	Pipeline	0.00	4.76
G793C	Kranzburg-Zell-Aastad complex, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.4	0.6	0.43	6	72	No	Pipeline	0.00	0.32
G561A	La Prairie loam, 0 to 2 percent slopes, occasionally flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.6	0.32	6	84	No	Access Road	0.00	0.09
G561A	La Prairie loam, 0 to 2 percent slopes, occasionally flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.6	0.32	6	84	No	Pipeline	0.00	1.70

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Lf	La Prairie-Fairdale loams, channeled	No	No	Moderately Well Drained	No Bedrock Identified	0.0	0.0	0.43	6	34	No	Pipeline	0.00	0.50
G562A	La Prairie-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.6	0.32	3	42	No	Pipeline	0.00	0.79
La	LaDelle silt loam	Yes	No	Moderately Well Drained	No Bedrock Identified	1.7	0.4	0.43	6	85	No	Pipeline	0.00	18.35
G571A	LaDelle silt loam, 0 to 2 percent slopes, occasionally flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.5	0.6	0.49	6	92	No	Access Road	0.00	0.49
G571A	LaDelle silt loam, 0 to 2 percent slopes, occasionally flooded	Yes	No	Moderately Well Drained	No Bedrock Identified	1.5	0.6	0.49	6	92	No	Pipeline	0.00	20.32
Lb	LaDelle silt loam, channeled	No	No	Moderately Well Drained	No Bedrock Identified	1.7	0.4	0.43	6	35	No	Pipeline	0.00	2.22
G570A	LaDelle-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	No	No	Moderately Well Drained	No Bedrock Identified	1.5	0.6	0.49	6	45	No	Pipeline	0.00	2.24
J49A	Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	0.0	0.0	0.37	6	87	No	Pipeline	0.00	1.41
LpA	Lamo and Prosper soils, 0 to 3 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	0.0	0.0	0.43	4L	77	Montmorillonitic	Pipeline	0.00	0.45
Lm	Lamo silt loam	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	0.0	0.0	0.43	4L	64	Montmorillonitic	Pipeline	0.00	1.99
La	Lamo silty clay loam	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	0.0	0.0	0.43	4L	63	Montmorillonitic	Pipeline	0.00	7.21
La	Lamo silty clay loam, cool, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	6	70	No	Access Road	0.05	0.08
La	Lamo silty clay loam, cool, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	6	70	No	MLV	0.06	0.06
La	Lamo silty clay loam, cool, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	6	70	No	Pipeline	0.00	24.96
Z152A	Lamoure silty clay loam, coteau, 0 to 1 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.2	1.2	0.43	4L	67	No	Pipeline	0.00	11.23
G533A	Lamoure silty clay loam, somewhat poorly drained, 0 to 1 percent slopes, frequently flooded	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	2.0	1.7	0.43	4L	57	No	Pipeline	0.00	4.00
Lr	Lamoure-Rauville silty clay loams, channeled	No	Yes	Poorly Drained	No Bedrock Identified	2.0	2.0	0.43	4L	33	Montmorillonitic	Pipeline	0.00	0.71
Z153A	Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded	No	Yes	Poorly Drained	No Bedrock Identified	1.2	1.2	0.43	4L	13	No	Access Road	0.00	0.54
Z153A	Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded	No	Yes	Poorly Drained	No Bedrock Identified	1.2	1.2	0.43	4L	13	No	Pipeline	0.00	3.94
LnA	Lane silty clay loam, 0 to 2 percent slopes, rarely flooded	SWI	No	Moderately Well Drained	No Bedrock Identified	1.0	0.4	0.37	6	86	Smectitic	Access Road	0.03	0.03
LnA	Lane silty clay loam, 0 to 2 percent slopes, rarely flooded	SWI	No	Moderately Well Drained	No Bedrock Identified	1.0	0.4	0.37	6	86	Smectitic	Pump Station	3.08	3.08
LnA	Lane silty clay loam, 0 to 2 percent slopes, rarely flooded	SWI	No	Moderately Well Drained	No Bedrock Identified	1.0	0.4	0.37	6	86	Smectitic	Pipeline	0.00	16.85
LpA	Lane-Jerauld silty clay loams, nearly level	No	No	Well Drained	No Bedrock Identified	1.7	0.7	0.32	4	65	Montmorillonitic	Pipeline	0.00	3.71
Z188B	Lanona-Swenoda fine sandy loams, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.1	0.3	0.49	3	64	No	Pipeline	0.00	1.63
Ln	Lawet loam, 0 to 2 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.6	1.8	0.43	4L	59	No	Pipeline	0.00	3.87
C816A	Lehr loam, 0 to 2 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	5	47	No	Pipeline	0.00	1.46
C816B	Lehr loam, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	5	44	No	Pipeline	0.00	10.50
C808A	Lehr shaly, loam, 0 to 2 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	0.0	0.0	0.32	5	44	No	Pipeline	0.00	3.94
C817B	Lehr-Bowdle loams, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	5	50	No	Access Road	0.05	0.53
C817B	Lehr-Bowdle loams, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	5	50	No	MLV	0.06	0.06
C817B	Lehr-Bowdle loams, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.28	5	50	No	Pipeline	0.00	32.89
Lp	Loup loamy fine sand	No	No	Somewhat Poorly Drained	No Bedrock Identified	0.0	0.0	0.15	2	68	No	Pipeline	0.00	1.08
Lo	Lowe loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.4	1.0	0.37	4L	57	No	Pipeline	0.00	1.47

Soil Map Units Impacted by the Project

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C054A	Lowe loam, 0 to 2 percent slopes, occasionally flooded	No	Yes	Poorly Drained	No Bedrock Identified	4.2	3.1	0.37	4L	53	No	Pipeline	0.00	0.62
Z155A	Lowe, occasionally flooded-Ludden, frequently flooded, complex, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.3	1.0	0.28	4L	47	No	Pipeline	0.00	7.02
Lc	Ludden silty clay	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.7	0.5	0.32	4	54	Montmorillonitic	Pipeline	0.00	1.72
C058A	Ludden silty clay loam, strongly saline, 0 to 1 percent slopes, occasionally flooded	No	Yes	Poorly Drained	No Bedrock Identified	12.1	5.2	0.37	6	11	Smectitic	Pipeline	0.00	1.26
G055A	Ludden silty clay, 0 to 1 percent slopes, frequently flooded	No	Yes	Poorly Drained	No Bedrock Identified	2.9	1.5	0.28	4	52	Smectitic	Pipeline	0.00	4.68
Z156A	Ludden silty clay, 0 to 1 percent slopes, frequently flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	3.3	0.6	0.24	4	55	Smectitic	Pipeline	0.00	10.32
G541A	Ludden-Ludden, saline silty clays, 0 to 1 percent slopes, frequently flooded	No	Yes	Poorly Drained	No Bedrock Identified	2.9	1.5	0.32	4	38	Smectitic	Pipeline	0.00	1.58
Ma	Macken silty clay loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.37	4	27	Smectitic	Pipeline	0.00	0.93
MaE	Maddock loamy fine sand, 6 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	2	6	No	Access Road	0.00	0.25
MaE	Maddock loamy fine sand, 6 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	2	6	No	Pipeline	0.00	6.51
Z189A	Maddock-Embden complex, coteau, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	0.9	0.0	0.24	3	47	No	Pipeline	0.00	0.95
Ma	Marysland loam	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.6	0.32	4L	48	No	Pipeline	0.00	1.19
C829A	Marysland loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	2.0	2.0	0.32	4L	37	No	Pipeline	0.00	0.26
Z158A	Marysland loam, 0 to 1 percent slopes, occasionally flooded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.5	0.32	4L	32	No	Pipeline	0.00	8.74
Mb	Marysland loam, 0 to 2 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	0.0	0.0	0.28	4L	61	No	Pipeline	0.00	1.18
MbA	Mauvais clay loam, 0 to 2 percent slopes	No	Yes	Somewhat Poorly Drained	No Bedrock Identified	4.9	0.0	0.32	4L	41	Montmorillonitic	Pipeline	0.00	0.32
C167A	Max-Arnegard loams, 0 to 3 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	83	No	Access Road	0.00	0.16
C167A	Max-Arnegard loams, 0 to 3 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	83	No	Pipeline	0.00	3.97
C168B	Max-Arnegard-Zahl loams, 0 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	77	No	Access Road	0.00	0.37
C168B	Max-Arnegard-Zahl loams, 0 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	77	No	Pipeline	0.00	14.60
C168C	Max-Zahl-Arnegard loams, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	64	No	Access Road	0.00	0.26
C168C	Max-Zahl-Arnegard loams, 3 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.32	6	64	No	Pipeline	0.00	4.03
Z117A	Mckranz-Badger silty clay loams, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.4	1.5	0.49	4L	79	No	Pipeline	0.00	13.37
Z116A	McKranz-Hidewood, frequently flooded, silty clay loams, 0 to 2 percent slopes	SWI	No	Somewhat Poorly Drained	No Bedrock Identified	2.5	1.5	0.43	4L	67	No	Pipeline	0.00	1.40
OnA	Mobridge silt loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	94	No	Pipeline	0.00	47.08
G635A	Mollic Udarents silty, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.7	0.55	3	72	No	Pipeline	0.00	0.56
C420A	Mondamin silty clay loam, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.8	0.43	6	84	Smectitic	Pipeline	0.00	3.38
Z160A	Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.8	0.43	4L	65	No	Access Road	0.03	0.03
Z160A	Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.8	0.43	4L	65	No	MLV	0.06	0.06
Z160A	Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.8	0.43	4L	65	No	Pipeline	0.00	22.59
G519A	Moritz-Lowe, occasionally flooded loams, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	2.7	1.6	0.37	4L	68	No	Pipeline	0.00	1.11
G851A	Nahon-Aberdeen-Exline silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	6.4	8.4	0.49	6	46	Smectitic	Access Road	0.06	0.22
G851A	Nahon-Aberdeen-Exline silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	6.4	8.4	0.49	6	46	Smectitic	Launcher/Receiver	0.52	0.52

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G851A	Nahon-Aberdeen-Exline silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	6.4	8.4	0.49	6	46	Smectitic	Pump Station	3.21	3.21
G851A	Nahon-Aberdeen-Exline silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	6.4	8.4	0.49	6	46	Smectitic	Pipeline	0.00	156.31
G852A	Nahon-Aberdeen-Exline silt loams, till substratum, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	6.2	8.8	0.49	6	45	Smectitic	Pipeline	0.00	5.24
C661A	Niobell-Noonan loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	62	Smectitic	Access Road	0.00	0.83
C661A	Niobell-Noonan loams, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	62	Smectitic	Pipeline	0.00	3.09
C661B	Niobell-Noonan loams, 3 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	60	Smectitic	Access Road	0.09	0.30
C661B	Niobell-Noonan loams, 3 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	60	Smectitic	Launcher/Receiver	0.56	0.56
C661B	Niobell-Noonan loams, 3 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	60	Smectitic	MLV	0.06	0.06
C661B	Niobell-Noonan loams, 3 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	60	Smectitic	Pump Station	1.94	1.94
C661B	Niobell-Noonan loams, 3 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	60	Smectitic	Pipeline	0.00	274.45
C668A	Niobell-Noonan-Heil complex, 0 to 3 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.2	9.0	0.37	6	52	Smectitic	Pipeline	0.00	1.93
C556B	Noonan-Miranda loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.9	9.9	0.37	6	42	Smectitic	Access Road	0.03	0.79
C556B	Noonan-Miranda loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.9	9.9	0.37	6	42	Smectitic	MLV	0.06	0.06
C556B	Noonan-Miranda loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.9	9.9	0.37	6	42	Smectitic	Pump Station	1.60	1.60
C556B	Noonan-Miranda loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.9	9.9	0.37	6	42	Smectitic	Pipeline	0.00	64.54
C665B	Noonan-Niobell-Williams loams, 0 to 6 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	4.9	9.9	0.37	6	58	Smectitic	Pipeline	0.00	2.22
OhA	Oahe-Delmont loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	52	No	Pipeline	0.00	2.79
OaA	Oahe-Delmont loams, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	52	No	Pipeline	0.00	2.28
So	Oahe-Delmont loams, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	46	No	Access Road	0.04	0.04
So	Oahe-Delmont loams, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	46	No	MLV	0.06	0.06
So	Oahe-Delmont loams, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	46	No	Pipeline	0.00	22.16
OhA	Oahe-Talmo loams, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	48	No	Pipeline	0.00	11.23
OhB	Oahe-Talmo loams, 2 to 6 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	38	No	Pipeline	0.00	3.60
Ob	Obert silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	8	29	No	Pipeline	0.00	0.46
Od	Oldham silty clay loam	No	Yes	Very Poorly Drained	No Bedrock Identified	1.6	3.0	0.43	4	34	Montmorillonitic	Pipeline	0.00	0.93
OnB	Onita silt loam, 2 to 5 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	88	Montmorillonitic	Pipeline	0.00	1.44
OrA	Onita-DeGrey silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	76	Montmorillonitic	Pipeline	0.00	2.32
Os	Onita-Hoven silt loams	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.4	0.49	6	59	Montmorillonitic	Pipeline	0.00	2.57
OsA	Onita-Hoven silt loams, 0 to 1 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	1.0	0.5	0.37	6	59	Montmorillonitic	Pipeline	0.00	0.63
Gp	Orthents, gravelly	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.15	5	3	No	Pipeline	0.00	1.92
Oa	Overly silty clay loam	Yes	No	Moderately Well Drained	No Bedrock Identified	1.1	0.0	0.49	7	97	No	Pipeline	0.00	2.22
Pa	Parnell silty clay loam	No	Yes	Very Poorly Drained	No Bedrock Identified	1.0	0.8	0.37	7	34	Montmorillonitic	Pipeline	0.00	3.59
C003A	Parnell silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.7	0.0	0.37	7	20	Smectitic	Pipeline	0.00	3.47

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Pa	Parnell silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.0	0.7	0.32	7	32	Montmorillonitic	Pipeline	0.00	0.71
J217A	Parnell silty clay loam, occasionally ponded, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	0.0	0.0	0.37	6	71	Smectitic	Pipeline	0.00	2.14
C751A	Parshall fine sandy loam, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.2	3	67	No	Pipeline	0.00	1.02
PeA	Peever clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	3.6	0.32	6	73	Smectitic	Pipeline	0.00	3.05
PeB	Peever clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	3.6	0.32	6	68	Smectitic	Pipeline	0.00	16.29
PcC	Peever clay loam, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	2.3	4.0	0.28	6	56	Montmorillonitic	Pipeline	0.00	10.84
PcB	Peever clay loam, coteau, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.4	3.8	0.28	6	67	Montmorillonitic	Pipeline	0.00	10.59
Pd	Peever-Cavour complex	No	No	Well Drained	No Bedrock Identified	2.3	4.0	0.28	6	64	Montmorillonitic	Pipeline	0.00	20.44
G202A	Peever-Cavour complex, 0 to 3 percent slopes	No	No	Well Drained	No Bedrock Identified	2.5	3.9	0.28	6	61	Smectitic	Pipeline	0.00	14.58
Pe	Peever-Tonka complex	SWI	No	Well Drained	No Bedrock Identified	2.3	4.0	0.28	6	69	Montmorillonitic	Pipeline	0.00	0.82
Pp	Pits, gravel and sand	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.15	5	5	No	Pipeline	0.00	1.81
Pk	Plankinton silt loam	No	Yes	Poorly Drained	No Bedrock Identified	3.1	0.5	0.32	6	51	Montmorillonitic	Pipeline	0.00	0.65
Ph	Playmoor silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	10.0	4.1	0.49	4L	34	Montmorillonitic	Pipeline	0.00	2.03
Pm	Playmoor silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	10.0	4.1	0.49	4L	33	Montmorillonitic	Pipeline	0.00	0.85
G543A	Playmoor silty clay loam, 0 to 2 percent slopes, frequently flooded	No	Yes	Poorly Drained	No Bedrock Identified	10.9	4.9	0.49	4L	24	No	Pipeline	0.00	1.75
J162B	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Access Road	0.02	0.02
PsB	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Access Road	0.03	0.03
J162B	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	MLV	0.06	0.06
PsB	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	MLV	0.06	0.06
J162B	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Pipeline	0.00	37.13
PbB	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Pipeline	0.00	16.06
PnB	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Pipeline	0.00	5.53
PoB	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Pipeline	0.00	14.75
PsB	Poinsett-Buse-Waubay complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	81	No	Pipeline	0.00	39.52
J162C	Poinsett-Buse-Waubay complex, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	69	No	Pipeline	0.00	6.87
PbC	Poinsett-Buse-Waubay complex, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	69	No	Pipeline	0.00	3.92
PoC	Poinsett-Buse-Waubay complex, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	69	No	Pipeline	0.00	8.82
PsC	Poinsett-Buse-Waubay complex, 2 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	69	No	Pipeline	0.00	3.73
PoC	Poinsett-Rusklyn silty clay loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.6	0.0	0.49	7	68	No	Pipeline	0.00	3.00
PrB	Poinsett-Rusklyn-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Access Road	0.04	0.04
PrB	Poinsett-Rusklyn-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	MLV	0.05	0.05
PrB	Poinsett-Rusklyn-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Pipeline	0.00	20.15
J164A	Poinsett-Waubay silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	93	No	Pipeline	0.00	9.19

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Po	Poinsett-Waubay silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	93	No	Pipeline	0.00	4.24
PwA	Poinsett-Waubay silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	93	No	Pipeline	0.00	35.28
PwB	Poinsett-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	89	No	Access Road	0.06	0.48
PwB	Poinsett-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	89	No	MLV	0.11	0.11
J164B	Poinsett-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	89	No	Pipeline	0.00	3.93
PwB	Poinsett-Waubay silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	89	No	Pipeline	0.00	152.27
PrA	Prosper loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.5	0.0	0.37	6	93	No	Access Road	0.05	0.05
PrA	Prosper loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	2.5	0.0	0.37	6	93	No	Pipeline	0.00	6.60
BcA	Prosper-Stickney loams, nearly level	SWI	No	Moderately Well Drained	No Bedrock Identified	2.2	0.0	0.37	6	84	No	Pipeline	0.00	1.78
RcA	Raber-Cavo loams, 0 to 2 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	6	60	Smectitic	Pipeline	0.00	4.40
RdA	Raber-Demky loams, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.8	0.0	0.28	6	75	Montmorillonitic	Pipeline	0.00	0.88
RgC	Raber-Eakin complex, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	6	61	Smectitic	Pipeline	0.00	2.44
RpB	Raber-Peno loams, 2 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	6	65	Smectitic	Pipeline	0.00	3.54
RpC	Raber-Peno loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.0	0.28	6	52	Smectitic	Pipeline	0.00	2.63
C575A	Ranslo loam, 0 to 2 percent slopes	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.1	16.7	0.37	6	29	Smectitic	Pipeline	0.00	3.03
G556A	Ranslo loam, 0 to 2 percent slopes, occasionally flooded	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.1	16.7	0.37	6	27	Smectitic	Pipeline	0.00	1.70
G557A	Ranslo silty clay loam, 0 to 1 percent slopes, occasionally flooded	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.2	18.3	0.32	6	31	Smectitic	Access Road	0.00	0.90
G557A	Ranslo silty clay loam, 0 to 1 percent slopes, occasionally flooded	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.2	18.3	0.32	6	31	Smectitic	Pipeline	0.00	8.59
C578A	Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.1	16.7	0.37	6	29	Smectitic	Access Road	0.00	0.19
C578A	Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.1	16.7	0.37	6	29	Smectitic	Pipeline	0.00	21.61
G553A	Ranslo-Harriet loams, 0 to 2 percent slopes, occasionally flooded	No	No	Somewhat Poorly Drained	No Bedrock Identified	4.1	16.7	0.37	6	27	Smectitic	Pipeline	0.00	21.78
Z250A	Rauville mucky silty clay loam, ponded, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.5	1.9	0.32	8	11	No	Access Road	0.01	0.01
Z250A	Rauville mucky silty clay loam, ponded, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.5	1.9	0.32	8	11	No	MLV	0.06	0.06
Z250A	Rauville mucky silty clay loam, ponded, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.5	1.9	0.32	8	11	No	Pipeline	0.00	1.83
Ra	Rauville silty clay loam	No	Yes	Very Poorly Drained	No Bedrock Identified	1.6	2.0	0.28	4L	30	Montmorillonitic	Pipeline	0.00	8.66
G052A	Rauville silty clay loam, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	2.0	2.0	0.37	4L	24	No	Pipeline	0.00	0.35
Z150A	Rauville silty clay loam, coteau, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.5	2.0	0.32	4L	23	No	Access Road	0.00	0.07
Z150A	Rauville silty clay loam, coteau, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	1.5	2.0	0.32	4L	23	No	Pipeline	0.00	8.34
G053A	Rauville silty clay loam, ponded, 0 to 1 percent slopes, frequently flooded	No	Yes	Very Poorly Drained	No Bedrock Identified	2.0	2.0	0.37	8	9	No	Pipeline	0.00	0.40
ReA	Ree loam, 0 to 2 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.37	6	85	No	Pipeline	0.00	0.84
C063A	Regan silt loam, 0 to 2 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	4.7	3.7	0.37	4L	35	No	Pipeline	0.00	2.18
RbA	Renshaw loam, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	43	No	Pipeline	0.00	0.34
RbB	Renshaw loam, 1 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	39	No	Pipeline	0.00	2.16

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Z172A	Renshaw loam, coteau, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	41	No	Pipeline	0.00	2.77
RfA	Renshaw-Fordville loams, coteau, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	47	No	Pipeline	0.00	5.45
Z171A	Renshaw-Fordville loams, coteau, 0 to 2 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	47	No	Pipeline	0.00	24.12
RfB	Renshaw-Fordville loams, coteau, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	43	No	Access Road	0.04	0.04
RfB	Renshaw-Fordville loams, coteau, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	43	No	MLV	0.06	0.06
RfB	Renshaw-Fordville loams, coteau, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	43	No	Pipeline	0.00	11.67
Z171B	Renshaw-Fordville loams, coteau, 2 to 6 percent slopes	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	43	No	Pipeline	0.00	9.41
Z175D	Renshaw-Sioux complex, 2 to 15 percent slopes, very stony	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.2	0.0	0.32	6	5	No	Pipeline	0.00	5.55
RcD	Renshaw-Sioux complex, 6 to 15 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.24	6	20	No	Pipeline	0.00	1.66
RsB	Renshaw-Sioux complex, coteau, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	34	No	Pipeline	0.00	3.99
Z173B	Renshaw-Sioux complex, coteau, 2 to 6 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	34	No	Pipeline	0.00	3.91
RsC	Renshaw-Sioux complex, coteau, 6 to 9 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	28	No	Pipeline	0.00	6.71
Z173C	Renshaw-Sioux complex, coteau, 6 to 9 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	6	28	No	Pipeline	0.00	0.87
ReA	Rentill loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.28	6	46	No	Access Road	0.04	0.04
ReA	Rentill loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.28	6	46	No	MLV	0.06	0.06
ReA	Rentill loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.28	6	46	No	Pipeline	0.00	6.67
G287A	Rentill loam, clayey substratum, 0 to 2 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	0.5	0.32	6	71	No	Pipeline	0.00	4.52
Z167A	Renwash loam, 0 to 2 percent slopes, rarely flooded	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	0.5	0.0	0.32	6	47	No	Launcher/Receiver	0.06	0.06
Z167A	Renwash loam, 0 to 2 percent slopes, rarely flooded	Yes, if irrigated	No	Somewhat Excessively Drained	No Bedrock Identified	0.5	0.0	0.32	6	47	No	Pipeline	0.00	11.99
C031A	Rimlap-Heil silt loams, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.5	0.7	0.49	6	36	Smectitic	Pipeline	0.00	5.05
G019A	Rimlap-Heil, till substratum silt loams, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	0.9	0.7	0.49	6	26	Smectitic	Pipeline	0.00	11.43
Sa	Salmo silty clay loam	No	Yes	Poorly Drained	No Bedrock Identified	10.0	4.5	0.43	4L	34	Montmorillonitic	Pipeline	0.00	0.77
Sa	Salmo silty clay loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	10.0	4.2	0.37	4L	35	No	Pipeline	0.00	4.84
Sa	Salmo silty clay loam, very wet	No	Yes	Poorly Drained	No Bedrock Identified	10.0	4.3	0.43	4L	35	Montmorillonitic	Pipeline	0.00	4.04
Sh	Shue loamy fine sand	No	No	Somewhat Poorly Drained	No Bedrock Identified	1.1	0.6	0.37	2	54	No	Access Road	0.00	0.55
Sh	Shue loamy fine sand	No	No	Somewhat Poorly Drained	No Bedrock Identified	1.1	0.6	0.37	2	54	No	Pipeline	0.00	13.61
SnA	Sinai silty clay, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.6	0.37	4	81	Montmorillonitic	Pipeline	0.00	5.71
Z179F	Sioux-Renshaw complex, 15 to 40 percent slopes, very stony	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	5	No	Pipeline	0.00	0.64
G267C	Sioux-Renshaw complex, 2 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.2	6	29	No	Pipeline	0.00	0.46
Z174F	Sioux-Renshaw complex, coteau, 15 to 40 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	14	No	Pipeline	0.00	1.27
Z174D	Sioux-Renshaw complex, coteau, 9 to 15 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	21	No	Pipeline	0.00	1.05
SbE	Sisseton-Esmond complex, 12 to 40 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.43	4L	23	No	Pipeline	0.00	0.31
ScD	Sisseton-Esmond-Heimdal, complex, 6 to 20 percent slopes, moderately eroded	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.43	5	43	No	Pipeline	0.00	1.86

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
C005A	Southam silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	4.9	0.9	0.32	8	5	Smectitic	Pipeline	0.00	1.41
G004A	Southam silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	3.9	0.9	0.32	4L	9	Smectitic	Pipeline	0.00	0.04
Pb	Southam silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	3.0	0.0	0.32	8	10	Smectitic	Pipeline	0.00	0.31
Ss	Southam silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	3.0	0.0	0.32	8	10	Smectitic	Pipeline	0.00	1.55
Sp	Spottswood loam	SWI	No	Moderately Well Drained	No Bedrock Identified	1.0	0.8	0.28	6	71	No	Pipeline	0.00	6.63
Z161A	Spottswood loam, 0 to 2 percent slopes, occasionally flooded	Yes	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.24	6	75	No	Pipeline	0.00	5.33
DsA	Stickney-Dudley silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	54	Smectitic	Access Road	0.22	0.22
DsA	Stickney-Dudley silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	54	Smectitic	Pipeline	0.00	19.10
Sd	Stickney-Dudley silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	54	Smectitic	Pipeline	0.00	5.74
St	Stickney-Dudley silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	54	Smectitic	Pipeline	0.00	3.44
Sy	Stickney-Dudley silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	54	Smectitic	Pipeline	0.00	7.82
Sv	Stickney-Dudley-Hoven silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	44	Smectitic	Access Road	0.00	0.62
Sv	Stickney-Dudley-Hoven silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	44	Smectitic	Pipeline	0.00	13.60
Su	Stickney-Dudley-Hoven silt loams, 0 to 2 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	5.1	7.1	0.49	6	44	Smectitic	Pipeline	0.00	4.07
StA	Stickney-Java loams, 0 to 4 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	7.4	1.4	0.37	6	66	Montmorillonitic	Pipeline	0.00	10.08
SvA	Stickney-Java-Hoven complex, 0 to 4 percent slopes	No	No	Moderately Well Drained	No Bedrock Identified	7.4	1.4	0.37	6	55	Montmorillonitic	Pipeline	0.00	38.01
St	Stickney-Jerauld silt loam	No	No	Moderately Well Drained	No Bedrock Identified	7.3	1.4	0.37	6	51	Montmorillonitic	Pipeline	0.00	1.50
StA	Stickney-Tetonka complex, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	5.2	0.9	0.37	7	70	Montmorillonitic	Pipeline	0.00	1.41
J177A	Still lake-Graceland silty clay loams, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.9	0.2	0.49	6	94	No	Pipeline	0.00	5.67
J177B	Still lake-Graceland silty clay loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.9	0.2	0.49	6	90	No	Pipeline	0.00	3.39
C491A	Straw-Fluvaquents channeled, complex, 0 to 2 percent slopes, frequently flooded	No	No	Well Drained	No Bedrock Identified	1.0	0.0	0.32	6	42	No	Pipeline	0.00	4.64
Sd	Svea loam, 1 to 3 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	0.0	0.0	0.37	6	96	No	Pipeline	0.00	6.01
G123A	Svea-Cavour loams, 0 to 3 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	2.4	1.8	0.32	6	73	No	Pipeline	0.00	1.64
SeA	Swenoda fine sandy loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.6	0.0	0.32	3	68	No	Pipeline	0.00	3.91
SwA	Swenoda-Lanona sandy loams, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.4	0.0	0.32	3	67	No	Pipeline	0.00	1.61
C769B	Tally fine sandy loam, 2 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.0	0.24	3	63	No	Pipeline	0.00	4.03
TaE	Talmo gravelly loam, 9 to 25 percent slopes	No	No	Excessively Drained	No Bedrock Identified	0.0	0.0	0.24	5	9	No	Pipeline	0.00	3.40
TdE	Talmo-Delmont loams, 6 to 21 percent slopes	No	No	Excessively Drained	No Bedrock Identified	0.0	0.0	0.24	6	12	No	Access Road	0.00	0.24
TdE	Talmo-Delmont loams, 6 to 21 percent slopes	No	No	Excessively Drained	No Bedrock Identified	0.0	0.0	0.24	6	12	No	Pipeline	0.00	3.89
C337D	Telfer-Lihen loamy fine sands, 9 to 15 percent slopes	No	No	Somewhat Excessively Drained	No Bedrock Identified	1.0	0.0	0.1	2	24	No	Pipeline	0.00	0.64
C743B	Temvik-Grassna-Bearpaw complex, 0 to 6 percent slopes	Yes, if irrigated	No	Well Drained	No Bedrock Identified	1.0	0.8	0.49	6	87	No	Pipeline	0.00	2.79
Te	Tetonka silt loam, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	56	Smectitic	Pipeline	0.00	10.74
Tb	Tetonka silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	56	Smectitic	Pipeline	0.00	7.17

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
TeA	Tetonka silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	56	Smectitic	Pipeline	0.00	7.54
Tp	Tetonka silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	56	Smectitic	Pipeline	0.00	13.85
Te	Tetonka silt loam, 0 to 2 percent slopes, frequently ponded	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	59	Smectitic	Pipeline	0.00	8.73
TcA	Tetonka-Davison-Clarno complex, 0 to 2 percent slopes	SWI	Yes	Poorly Drained	No Bedrock Identified	1.7	0.2	0.43	6	70	Montmorillonitic	Pipeline	0.00	1.79
Te	Tetonka-Hoven silt loams	No	Yes	Poorly Drained	No Bedrock Identified	2.2	0.3	0.32	6	48	Montmorillonitic	Pipeline	0.00	5.90
C002A	Tonka silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.0	0.5	0.37	6	45	Smectitic	Pipeline	0.00	7.12
C004A	Tonka silt loam, 0 to 1 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	1.0	0.5	0.37	6	45	Smectitic	Pipeline	0.00	11.98
G007A	Tonka silt loam, silty substratum, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.5	0.5	0.43	6	43	Smectitic	Pipeline	0.00	3.80
Ta	Tonka silty clay loam, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	58	Smectitic	Pipeline	0.00	5.91
To	Tonka silty clay loam, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	58	Smectitic	Pipeline	0.00	1.12
Z101A	Tonka silty clay loam, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	1.0	0.0	0.49	6	58	Smectitic	Pipeline	0.00	1.68
G643B	Urban land-Udorthents loamy complex, 0 to 6 percent slopes	No	N/A	N/A	No Bedrock Identified	1.6	N/A	0.32	4L	37	No	Access Road	0.27	0.27
G643B	Urban land-Udorthents loamy complex, 0 to 6 percent slopes	No	N/A	N/A	No Bedrock Identified	1.6	N/A	0.32	4L	37	No	Launcher/Receiver	0.06	0.06
G643B	Urban land-Udorthents loamy complex, 0 to 6 percent slopes	No	N/A	N/A	No Bedrock Identified	1.6	N/A	0.32	4L	37	No	Pipeline	0.00	0.77
Va	Vallers clay loam, 0 to 2 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.0	0.8	0.37	4L	71	No	Pipeline	0.00	3.28
G011A	Vallers clay loam, 0 to 3 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	4.2	3.2	0.32	4L	41	No	Pipeline	0.00	1.91
C021A	Vallers loam, 0 to 1 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	4.5	3.3	0.32	4L	46	No	Pipeline	0.00	2.54
Va	Vallers-Hamerly loams	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.0	0.0	0.37	4L	62	No	Pipeline	0.00	1.16
G013A	Vallers-Hamerly loams, 0 to 3 percent slopes	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	4.1	2.4	0.32	4L	51	No	Pipeline	0.00	1.25
Z112A	Vallers-Hamerly loams, coteau, 0 to 2 percent slopes	SWI	Yes	Poorly Drained	No Bedrock Identified	2.6	0.7	0.32	4L	51	No	Pipeline	0.00	1.19
Vb	Vallers-Parnell complex	No	Yes	Poorly Drained	No Bedrock Identified	2.0	0.0	0.37	4L	44	No	Pipeline	0.00	0.15
Z113A	Vallers-Parnell complex, coteau, 0 to 2 percent slopes	No	Yes	Poorly Drained	No Bedrock Identified	2.6	0.7	0.32	4L	43	No	Pipeline	0.00	0.81
Vc	Vallers-Tonka complex	Yes, if drained	Yes	Poorly Drained	No Bedrock Identified	2.0	0.0	0.37	4L	52	No	Pipeline	0.00	1.45
G302A	Vang loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	0.5	0.0	0.28	6	63	No	Pipeline	0.00	1.98
VbA	Viborg silty clay loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.7	0.4	0.49	7	96	No	Access Road	0.17	1.86
VbA	Viborg silty clay loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.7	0.4	0.49	7	96	No	Pipeline	0.00	54.90
VgB	Viborg-Egan silty clay loams, 2 to 6 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.7	0.4	0.49	7	87	No	Pipeline	0.00	8.60
G193D	Vida, moist-Buse loams, 9 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	0.8	0.0	0.37	6	45	No	Pipeline	0.00	0.31
Z199B	Vienna-Barnes-Forestville loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	81	No	Access Road	0.03	0.03
Z199B	Vienna-Barnes-Forestville loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	81	No	MLV	0.06	0.06
Z199B	Vienna-Barnes-Forestville loams, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	81	No	Pipeline	0.00	35.42
Z192A	Vienna-Brookings complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	90	No	Access Road	0.02	0.02
Z192A	Vienna-Brookings complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	90	No	MLV	0.06	0.06

Soil Map Units Impacted by the Project

Map Unit Symbol	Map Unit Name	Farmland Class ¹	Hydric Rating	Drainage Class	Depth to Bedrock	Electrical Conductivity (dS/m)	Sodium Adsorption Rate	Kw Factor ²	Wind Erodibility Group ³	Crop Productivity Index	Clay Minerals with Swell Potential	Project Components	Operation Impacts Acreage ⁴	Construction Impacts Acreage ⁵
Z192A	Vienna-Brookings complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	90	No	Pipeline	0.00	35.33
Z192B	Vienna-Brookings complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	86	No	Access Road	0.04	0.55
Z192B	Vienna-Brookings complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	86	No	MLV	0.06	0.06
Z192B	Vienna-Brookings complex, 1 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.43	6	86	No	Pipeline	0.00	78.05
Z193C	Vienna-Buse complex, coteau, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	0.9	0.6	0.37	6	64	No	Access Road	0.00	0.10
Z193C	Vienna-Buse complex, coteau, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	0.9	0.6	0.37	6	64	No	Pipeline	0.00	6.23
Z198A	Vienna-Forestville loams, coteau, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	0.9	0.6	0.37	6	88	No	Pipeline	0.00	4.34
C874C	Wabek-Appam complex, 6 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.1	5	26	No	Pipeline	0.00	1.82
C878C	Wabek-Bowdle complex, 2 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	42	No	Access Road	0.00	0.24
C878C	Wabek-Bowdle complex, 2 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	42	No	Pipeline	0.00	34.60
C877B	Wabek-Lehr complex, 2 to 6 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	39	No	Pipeline	0.00	10.33
C877C	Wabek-Lehr complex, 6 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	32	No	Access Road	0.0007	0.0007
C877C	Wabek-Lehr complex, 6 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	32	No	MLV	0.06	0.06
C877C	Wabek-Lehr complex, 6 to 9 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.17	6	32	No	Pipeline	0.00	9.44
C870E	Wabek-Lehr-Appam complex, 9 to 25 percent slopes	No	No	Excessively Drained	No Bedrock Identified	1.0	0.0	0.32	5	23	No	Pipeline	0.00	1.31
Wa	Wakonda-Chancellor complex, 0 to 2 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.4	0.9	0.55	4L	83	No	Pipeline	0.00	5.36
W	Water	--	--	--	--	--	--	--	--	--	No	Access Road	0.00	0.09
W	Water	--	--	--	--	--	--	--	--	--	No	Pipeline	0.00	3.40
G997	Water, intermittent	No	N/A	N/A	No Bedrock Identified	5.0	N/A	0.32	8	3	No	Pipeline	0.00	0.17
Wb	Waubay silty clay loam, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	98	No	Pipeline	0.00	0.30
J192A	Waubay-Badger silty clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	91	No	Pipeline	0.00	0.73
Wb	Waubay-Badger silty clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	91	No	Pipeline	0.00	4.29
WeA	Wentworth silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	93	No	Pipeline	0.00	37.37
WaA	Wentworth silty clay loam, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	93	No	Pipeline	0.00	2.93
WbB	Wentworth silty clay loam, 2 to 6 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	84	No	Pipeline	0.00	5.39
WhA	Wentworth-Chancellor silty clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.7	0.6	0.43	7	88	No	Access Road	0.05	0.05
WhA	Wentworth-Chancellor silty clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.7	0.6	0.43	7	88	No	Launcher/Receiver	0.54	0.54
WhA	Wentworth-Chancellor silty clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.7	0.6	0.43	7	88	No	MLV	0.06	0.06
WhA	Wentworth-Chancellor silty clay loams, 0 to 2 percent slopes	Yes, if drained	No	Moderately Well Drained	No Bedrock Identified	1.7	0.6	0.43	7	88	No	Pipeline	0.00	147.15
WcA	Wentworth-Chancellor-Wakonda silty clay loams, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.6	0.3	0.49	7	88	No	Pipeline	0.00	8.81
WcA	Wentworth-Chancellor-Wakonda silty clay loams, 0 to 2 percent slopes	Yes	No	Moderately Well Drained	No Bedrock Identified	1.6	0.3	0.49	7	86	No	Pipeline	0.00	9.84
WcB	Wentworth-Ethan complex, 2 to 5 percent slopes	Yes	No	Well Drained	No Bedrock Identified	2.0	0.7	0.43	7	80	No	Pipeline	0.00	3.87
WhA	Wentworth-Trent complex, 0 to 2 percent slopes	Yes	No	Well Drained	No Bedrock Identified	1.0	0.0	0.49	6	95	No	Pipeline	0.00	3.03

Soil Map Units Impacted by the Project

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Wh	Whitewood silt loam	Yes, if drained	Yes	Somewhat Poorly Drained	No Bedrock Identified	0.6	0.4	0.43	7	83	No	Pipeline	0.00	0.80
Wh	Whitewood silty clay loam, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	6	82	No	Access Road	0.00	0.22
Wh	Whitewood silty clay loam, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	6	82	No	Pump Station	1.29	1.29
Wh	Whitewood silty clay loam, 0 to 2 percent slopes, occasionally flooded	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.0	0.43	6	82	No	Pipeline	0.00	30.68
C210A	Williams-Bowbells loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	86	No	Access Road	0.00	0.06
C210A	Williams-Bowbells loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	86	No	Pipeline	0.00	64.80
C210B	Williams-Bowbells loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	83	No	Access Road	0.23	1.11
C210B	Williams-Bowbells loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	83	No	MLV	0.09	0.09
C210B	Williams-Bowbells loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	83	No	Pump Station	4.72	4.72
C210B	Williams-Bowbells loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	83	No	Pipeline	0.00	251.56
C210C	Williams-Bowbells loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	66	No	Access Road	0.00	0.21
C210C	Williams-Bowbells loams, 6 to 9 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	66	No	Pipeline	0.00	25.00
C149B	Williams-Bowbells-Tonka complex, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	79	No	Access Road	0.00	0.64
C149B	Williams-Bowbells-Tonka complex, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	79	No	Pipeline	0.00	98.67
C667A	Williams-Niobell loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	81	No	Access Road	0.05	0.05
C667A	Williams-Niobell loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	81	No	MLV	0.06	0.06
C667A	Williams-Niobell loams, 0 to 3 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	81	No	Pipeline	0.00	44.73
C667B	Williams-Niobell loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	77	No	Pipeline	0.00	39.39
C147B	Williams-Niobell-Tonka complex, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	74	No	Access Road	0.00	1.03
C147B	Williams-Niobell-Tonka complex, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	74	No	Pipeline	0.00	16.04
C772B	Williams-Noonan loams, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	68	No	Access Road	0.00	0.98
C772B	Williams-Noonan loams, 0 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	68	No	Pipeline	0.00	20.98
C172D	Williams-Zahl loams, 3 to 15 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	32	No	Access Road	0.00	0.23
C172D	Williams-Zahl loams, 3 to 15 percent slopes, very stony	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	32	No	Pipeline	0.00	42.30
C132B	Williams-Zahl loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	76	No	Pipeline	0.00	5.32
C136B	Williams-Zahl loams, 3 to 6 percent slopes	SWI	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	76	No	Pipeline	0.00	27.90
C212D	Williams-Zahl loams, 6 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	53	No	Access Road	0.001	0.03
C212D	Williams-Zahl loams, 6 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	53	No	MLV	0.001	0.001
C212D	Williams-Zahl loams, 6 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	53	No	Pipeline	0.00	11.54
C177D	Williams-Zahl-Bowbells loams, 3 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	61	No	Access Road	0.13	0.76
C177D	Williams-Zahl-Bowbells loams, 3 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	61	No	MLV	0.06	0.06
C177D	Williams-Zahl-Bowbells loams, 3 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	61	No	Pipeline	0.00	152.14
C148C	Williams-Zahl-Parnell complex, 0 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	51	No	Pipeline	0.00	21.44

Soil Map Units Impacted by the Project

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C132C	Williams-Zahl-Zahill complex, 6 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.0	0.37	6	61	No	Pipeline	0.00	19.07
G868A	Winship-Tonka silt loams, 0 to 1 percent slopes	Yes, if drained	No	Somewhat Poorly Drained	No Bedrock Identified	1.0	0.3	0.49	6	71	No	Pipeline	0.00	15.90
Wd	Woonsocket fine sandy loam	SWI	No	Moderately Well Drained	No Bedrock Identified	1.0	0.0	0.2	3	68	No	Pipeline	0.00	1.33
Ws	Woonsocket-Whitelake fine sandy loams, 0 to 2 percent slopes	SWI	No	Moderately Well Drained	No Bedrock Identified	4.5	8.7	0.32	3	59	No	Pipeline	0.00	0.57
Wo	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Access Road	0.27	0.27
Ws	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Access Road	0.04	0.04
Wo	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Launcher/Receiver	0.03	0.03
Wo	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	MLV	0.06	0.06
Ws	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	MLV	0.06	0.06
Wo	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Pump Station	1.06	1.06
We	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Pipeline	0.00	2.01
Wo	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Pipeline	0.00	33.11
Wg	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Pipeline	0.00	0.30
Ws	Worthing silty clay loam, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	6	30	Smectitic	Pipeline	0.00	20.06
Mar	Worthing silty clay loam, ponded, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	8	10	Smectitic	Pipeline	0.00	1.09
Wp	Worthing silty clay loam, ponded, 0 to 1 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	1.2	0.0	0.37	8	10	Smectitic	Pipeline	0.00	0.88
Wr	Worthing-Davison complex, 0 to 2 percent slopes	No	Yes	Very Poorly Drained	No Bedrock Identified	2.4	0.4	0.32	4	57	Smectitic	Pipeline	0.00	23.13
C176E	Zahl-Max loams, 15 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.4	0.37	4L	31	No	Access Road	0.00	0.13
C176E	Zahl-Max loams, 15 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.4	0.37	4L	31	No	Pipeline	0.00	23.64
C175D	Zahl-Williams loams, 6 to 15 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.4	0.37	4L	45	No	Pipeline	0.00	3.52
C175C	Zahl-Williams-Zahill complex, 6 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.4	0.37	4L	56	No	Access Road	0.05	0.05
C175C	Zahl-Williams-Zahill complex, 6 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.4	0.37	4L	56	No	MLV	0.03	0.03
C175C	Zahl-Williams-Zahill complex, 6 to 9 percent slopes	No	No	Well Drained	No Bedrock Identified	1.0	1.4	0.37	4L	56	No	Pipeline	0.00	15.19
G722E	Zell-Great Bend silt loams, 6 to 25 percent slopes	No	No	Well Drained	No Bedrock Identified	1.6	1.1	0.49	4L	53	No	Pipeline	0.00	1.23

¹ Prime Farmland Soils: Yes = All Areas are Prime Farmland; Yes, if drained = Prime Farmland if Drained; Yes, if irrigated = Prime Farmland if Irrigated; No = Not Prime Farmland; SWI = Farmland of Statewide Importance.

² The Kw Factor quantifies the susceptibility of soil particles to detachment and movement by water. Values range from 0.02 to 0.64.

- 0.02 - 0.25 - Resistant to erosion by water
- 0.25 - 0.40 - Moderately susceptible to erosion by water
- 0.40 - 0.64 - Highly susceptible to erosion by water

³ The wind erodibility group is a numerical value indicating the susceptibility of soil to wind erosion, based on the predominant soil texture class of surface layer. Values range from 1 to 8.

- 1 - 2 - Highly susceptible to erosion by wind
- 3 - 6 - Moderately susceptible to erosion by wind
- 7 - 8 - Least susceptible to erosion by wind

⁴ Operations impacts include soils which would be permanently impacted. Only permanent facilities (i.e., pump stations, MLVs, launcher/reciver sites, and permanent access roads) will have permanent impacts.

⁵ Construction impacts include impacts from both operations and construction.