

**Appendix D-1. Soil Associations within the Project Study Area for Codington County**

<b>CROWNED RIDGE II ON-SITE GEN-TIE (STUDY AREA)</b>					
<b>MUSYM</b>	<b>Soil Type</b>	<b>% Slope</b>	<b>Area (acres)</b>	<b>% of Total Area</b>	<b>Farmland Classification</b>
Z142B	Barnes-Buse-Svea loams, coteau	1 to 6	1,403.72	28.45%	All areas are prime farmland
Z145D	Buse-Barnes loams, coteau, very stony	2 to 15	700.79	14.20%	Not prime farmland
Z141B	Barnes-Svea loams, coteau	1 to 6	536.71	10.88%	All areas are prime farmland
Z114A	Hamerly-Tonka complex, coteau	0 to 2	275.07	5.57%	Farmland of statewide importance
Z141A	Barnes-Svea loams, coteau	0 to 2	271.24	5.50%	All areas are prime farmland
Z199B	Vienna-Barnes-Forestville loams	1 to 6	210.13	4.26%	All areas are prime farmland
Z115A	Hamerly-Badger complex, coteau	0 to 2	195.75	3.97%	Farmland of statewide importance
Z142C	Barnes-Buse-Svea loams, coteau	2 to 9	157.99	3.20%	Farmland of statewide importance
Z192A	Vienna-Brookings complex, coteau	0 to 2	119.42	2.42%	All areas are prime farmland
Z143C	Barnes-Buse loams, coteau	6 to 9	103.63	2.10%	Not prime farmland
Z171A	Renshaw-Fordville loams, coteau	0 to 2	92.74	1.88%	Prime farmland if irrigated
Z217A	McKranz silty clay loam	0 to 2	82.54	1.67%	Farmland of statewide importance
Z171B	Renshaw-Fordville loams, coteau	2 to 6	78.04	1.58%	Prime farmland if irrigated
Z112A	Vallers-Hamerly loams, coteau	0 to 2	66.37	1.35%	Farmland of statewide importance
Z116A	McKranz-Hidewood, frequently flooded, silty clay loams	0 to 2	64.50	1.31%	Farmland of statewide importance
Z194B	Barnes clay loam, coteau	2 to 6	63.32	1.28%	All areas are prime farmland
Z106A	Southam silty clay loam	0 to 1	62.84	1.27%	Not prime farmland
Z117A	McKranz-Badger silty clay loams	0 to 2	62.14	1.26%	Farmland of statewide importance
Z153A	Lamoure-Rauville silty clay loams, channeled, frequently flooded	0 to 2	59.57	1.21%	Not prime farmland
Z159A	Divide loam, occasionally flooded	0 to 2	47.86	0.97%	Prime farmland if drained
Z150A	Rauville silty clay loam, coteau, frequently flooded	0 to 1	46.46	0.94%	Not prime farmland
Z179F	Sioux-Renshaw complex, very stony	15 to 40	46.00	0.93%	Not prime farmland
Z194A	Barnes clay loam, coteau	0 to 2	31.58	0.64%	All areas are prime farmland
Z145F	Buse-Barnes loams, coteau, very stony	9 to 40	18.79	0.38%	Not prime farmland
Z144E	Buse-Barnes loams, coteau	9 to 20	18.15	0.37%	Not prime farmland
Z119A	Hamerly-Balaton loams, coteau	0 to 3	13.55	0.27%	All areas are prime farmland
Z198A	Vienna-Forestville loams, coteau	0 to 2	13.43	0.27%	All areas are prime farmland
Z178A	Rentill loam, coteau	0 to 2	12.07	0.24%	All areas are prime farmland
Z173B	Renshaw-Sioux complex	2 to 6	10.87	0.22%	Not prime farmland
Z177	Udorthents, coteau (gravel pits)		10.49	0.21%	Not prime farmland
Z252A	Hidewood silty clay loam, frequently flooded	0 to 2	9.33	0.19%	Prime farmland if drained
Z192B	Vienna-Brookings complex, coteau	1 to 6	8.80	0.18%	All areas are prime farmland

Z107A	Parnell silty clay loam, coteau	0 to 1	8.64	0.18%	Not prime farmland
Z158A	Marysland loam, occasionally flooded	0 to 1	8.15	0.17%	Prime farmland if drained
Z110A	Vallers loam, coteau	0 to 1	5.74	0.12%	Farmland of statewide importance
Z101A	Tonka silty clay loam	0 to 1	5.10	0.10%	Prime farmland if drained
Z146F	Buse-Lamoure, channeled, frequently flooded, complex	0 to 40	4.75	0.10%	Not prime farmland
Z152A	Lamoure silty clay loam, coteau, occasionally flooded	0 to 1	3.23	0.07%	Prime farmland if drained
Z102A	Badger-Tonka silty clay loams, coteau	0 to 1	2.92	0.06%	Prime farmland if drained
W	Water		2.01	0.04%	Not prime farmland
<b>TOTAL</b>			<b>4,934.43</b>	<b>100.00%</b>	

**Appendix D-2. Soil Associations within the Project Construction Easement for Codington County**

<b>CROWNED RIDGE II ON-SITE GEN-TIE (Construction Easement)</b>					
<b>MUSYM</b>	<b>Soil Type</b>	<b>% Slope</b>	<b>Area (acres)</b>	<b>% of Total Area</b>	<b>Farmland Classification</b>
Z142B	Barnes-Buse-Svea loams, coteau	1 to 6	45.24	29.46%	All areas are prime farmland
Z145D	Buse-Barnes loams, coteau, very stony	2 to 15	32.92	21.43%	Not prime farmland
Z141B	Barnes-Svea loams, coteau	1 to 6	31.13	20.27%	All areas are prime farmland
Z141A	Barnes-Svea loams, coteau	0 to 2	12.83	8.36%	All areas are prime farmland
Z114A	Hamerly-Tonka complex, coteau	0 to 2	10.13	6.60%	Farmland of statewide importance
Z115A	Hamerly-Badger complex, coteau	0 to 2	6.64	4.32%	Farmland of statewide importance
Z142C	Barnes-Buse-Svea loams, coteau	2 to 9	4.59	2.99%	Farmland of statewide importance
Z106A	Southam silty clay loam	0 to 1	3.19	2.08%	Not prime farmland
Z153A	Lamoure-Rauville silty clay loams, channeled, frequently flooded	0 to 2	2.44	1.59%	Not prime farmland
Z198A	Vienna-Forestville loams, coteau	0 to 2	1.81	1.18%	All areas are prime farmland
Z143C	Barnes-Buse loams, coteau	6 to 9	1.30	0.85%	Not prime farmland
Z144E	Buse-Barnes loams, coteau	9 to 20	0.67	0.43%	Not prime farmland
Z112A	Vallers-Hamerly loams, coteau	0 to 2	0.44	0.29%	Farmland of statewide importance
Z110A	Vallers loam, coteau	0 to 1	0.24	0.15%	Farmland of statewide importance
Z145F	Buse-Barnes loams, coteau, very stony	9 to 40	0.03	0.02%	Not prime farmland
Z119A	Hamerly-Balaton loams, coteau	0 to 3	0.0003	0.0002%	All areas are prime farmland
<b>TOTAL</b>			<b>153.60</b>	<b>100.00%</b>	

Source: SSURGO dataset for Codington County, South Dakota