Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
STEELE CITY SEGMENT								
Steel City	Montana	Phillips	0.000	0.785	0.785	MT641	Kevin-Scobey-Phillips association, 2 to 15 percent slopes	0.785
Steel City	Montana	Phillips	0.785	0.798	0.013	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.013
Steel City	Montana	Phillips	0.798	0.922	0.124	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.120
Steel City	Montana	Phillips	0.922	1.127	0.205	MT641	Phillips loam, 0 to 4 percent slopes	0.205
Steel City	Montana	Phillips	1.127	1.287	0.160	MT641	Evanston loam, 0 to 4 percent slopes	0.155
Steel City	Montana	Phillips	1.287	1.537	0.250	MT641	Scobey clay loam, 0 to 4 percent slopes	0.250
Steel City	Montana	Phillips	1.537	1.628	0.090	MT641	Scobey-Phillips complex, 0 to 4 percent slopes	0.090
Steel City	Montana	Phillips	1.628	1.763	0.135	MT641	Phillips loam, 0 to 4 percent slopes	0.135
Steel City	Montana	Phillips	1.763	2.107	0.344	MT641	Scobey clay loam, 0 to 4 percent slopes	0.344
Steel City	Montana	Phillips	2.107	2.321	0.214	MT641	Scobey-Phillips complex, 0 to 4 percent slopes	0.214
Steel City	Montana	Phillips	2.321	2.572	0.251	MT641	Ethridge clay loam, 0 to 4 percent slopes	0.251
Steel City	Montana	Phillips	2.572	3.785	1.213	MT641	Kevin-Scobey-Phillips association, 2 to 15 percent slopes	1.213
Steel City	Montana	Phillips	3.785	4.045	0.259	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.252
Steel City	Montana	Phillips	4.045	5.994	1.949	MT641	Phillips-Kevin, gravelly complex, 2 to 8 percent slopes	1.949
Steel City	Montana	Phillips	5.994	6.225	0.231	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.224
Steel City	Montana	Phillips	6.225	6.510	0.285	MT641	Scobey-Phillips complex, 0 to 4 percent slopes	0.285
Steel City	Montana	Phillips	6.510	6.911	0.401	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.389
Steel City	Montana	Phillips	6.911	7.193	0.282	MT641	Scobey-Phillips complex, 0 to 4 percent slopes	0.282
Steel City	Montana	Phillips	7.193	7.807	0.614	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.595
Steel City	Montana	Phillips	7.807	7.994	0.188	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.188
Steel City	Montana	Phillips	7.994	8.119	0.125	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.125
Steel City	Montana	Phillips	8.119	8.193	0.074	MT641	Evanston loam, 0 to 4 percent slopes	0.071
Steel City	Montana	Phillips	8.193	8.321	0.128	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.128
Steel City	Montana	Phillips	8.321	8.409	0.088	MT641	Evanston loam, 0 to 4 percent slopes	0.086
Steel City	Montana	Phillips	8.409	8.651	0.242	MT641	Phillips-Elloam complex, 0 to 4 percent slopes	0.242
Steel City	Montana	Phillips	8.651	9.102	0.451	MT641	Evanston loam, 0 to 4 percent slopes	0.438
Steel City	Montana	Phillips	9.102	9.164	0.062	MT641	Creed-Gerdrum complex, 0 to 4 percent slopes	0.062

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Phillips	9.164	9.323	0.160	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.155
Steel City	Montana	Phillips	9.323	9.453	0.129	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.129
Steel City	Montana	Phillips	9.453	9.823	0.370	MT641	Kevin-Sunburst clay loams, 2 to 8 percent slopes	0.370
Steel City	Montana	Phillips	9.823	10.078	0.255	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.255
Steel City	Montana	Phillips	10.078	10.201	0.122	MT641	Sunburst-Bascovy-Weingart complex, 2 to 8 percent slopes	0.122
Steel City	Montana	Phillips	10.201	10.248	0.047	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.047
Steel City	Montana	Phillips	10.248	10.455	0.207	MT641	Sunburst-Bascovy-Weingart complex, 2 to 8 percent slopes	0.207
Steel City	Montana	Phillips	10.455	10.465	0.010	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.010
Steel City	Montana	Phillips	10.465	10.957	0.492	MT641	Kevin-Scobey-Phillips association, 2 to 15 percent slopes	0.492
Steel City	Montana	Phillips	10.957	11.021	0.064	MT641	Bascovy-Neldore clays, 2 to 8 percent slopes	0.063
Steel City	Montana	Phillips	11.021	11.551	0.530	MT641	Kevin-Scobey-Phillips association, 2 to 15 percent slopes	0.530
Steel City	Montana	Phillips	11.551	12.090	0.539	MT641	Neldore-Bascovy clays, 4 to 15 percent slopes	0.528
Steel City	Montana	Phillips	12.090	12.408	0.318	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.318
Steel City	Montana	Phillips	12.408	12.525	0.117	MT641	Phillips-Elloam complex, 0 to 4 percent slopes	0.117
Steel City	Montana	Phillips	12.525	13.068	0.543	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.543
Steel City	Montana	Phillips	13.068	13.154	0.086	MT641	Neldore-Bascovy-Rock outcrop association, 8 to 60 percent slopes	0.069
Steel City	Montana	Phillips	13.154	13.469	0.315	MT641	Phillips-Elloam complex, 0 to 4 percent slopes	0.315
Steel City	Montana	Phillips	13.469	13.559	0.089	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.089
Steel City	Montana	Phillips	13.559	13.578	0.019	MT641	Neldore-Bascovy-Rock outcrop association, 8 to 60 percent slopes	0.015
Steel City	Montana	Phillips	13.578	13.696	0.118	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.118
Steel City	Montana	Phillips	13.696	13.861	0.165	MT641	Neldore-Bascovy-Rock outcrop association, 8 to 60 percent slopes	0.132
Steel City	Montana	Phillips	13.861	14.419	0.558	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.558
Steel City	Montana	Phillips	14.419	15.378	0.960	MT641	Hillon-Kevin complex, 8 to 15 percent slopes	0.960
Steel City	Montana	Phillips	15.378	15.473	0.095	MT641	Bascovy-Neldore-Weingart clays, 8 to 25 percent slopes	0.095
Steel City	Montana	Phillips	15.473	15.490	0.017	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.017
Steel City	Montana	Phillips	15.490	15.507	0.017	MT641	Sunburst-Kevin complex, 15 to 45 percent slopes	0.017
Steel City	Montana	Phillips	15.507	15.518	0.011	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.011
Steel City	Montana	Phillips	15.518	15.860	0.342	MT641	Sunburst-Kevin complex, 15 to 45 percent slopes	0.342

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Phillips	15.860	16.257	0.397	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.397
Steel City	Montana	Phillips	16.257	16.406	0.149	MT641	Sunburst-Neldore association, 15 to 45 percent slopes	0.142
Steel City	Montana	Phillips	16.406	16.588	0.181	MT641	Neldore-Bascovy-Rock outcrop association, 8 to 60 percent slopes	0.145
Steel City	Montana	Phillips	16.588	16.780	0.193	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.193
Steel City	Montana	Phillips	16.780	16.961	0.181	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.181
Steel City	Montana	Phillips	16.961	17.009	0.048	MT641	Kevin-Hillon complex, 2 to 8 percent slopes	0.048
Steel City	Montana	Phillips	17.009	17.093	0.083	MT641	Sunburst-Kevin gravelly clay loams, 8 to 15 percent slopes	0.083
Steel City	Montana	Phillips	17.093	17.185	0.093	MT641	Sunburst-Bascovy-Weingart complex, 2 to 8 percent slopes	0.093
Steel City	Montana	Phillips	17.185	17.230	0.044	MT641	Marvan-Gerdrum association, 2 to 15 percent slopes	0.044
Steel City	Montana	Phillips	17.230	17.295	0.066	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.064
Steel City	Montana	Phillips	17.295	17.422	0.127	MT641	Marvan-Gerdrum association, 2 to 15 percent slopes	0.127
Steel City	Montana	Phillips	17.422	17.495	0.072	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.071
Steel City	Montana	Phillips	17.495	17.759	0.264	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.264
Steel City	Montana	Phillips	17.759	17.916	0.157	MT641	Hillon-Kevin complex, 8 to 15 percent slopes	0.157
Steel City	Montana	Phillips	17.916	17.975	0.059	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.058
Steel City	Montana	Phillips	17.975	18.025	0.049	MT641	Kevin-Hillon complex, 2 to 8 percent slopes	0.049
Steel City	Montana	Phillips	18.025	18.131	0.107	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.104
Steel City	Montana	Phillips	18.131	18.284	0.153	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.153
Steel City	Montana	Phillips	18.284	18.311	0.028	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.027
Steel City	Montana	Phillips	18.311	18.360	0.048	MT641	Neldore-Bascovy clays, 4 to 15 percent slopes	0.047
Steel City	Montana	Phillips	18.360	18.697	0.338	MT641	Hillon-Kevin complex, 8 to 15 percent slopes	0.338
Steel City	Montana	Phillips	18.697	18.728	0.030	MT641	Bascovy-Neldore clays, 2 to 8 percent slopes	0.030
Steel City	Montana	Phillips	18.728	18.768	0.040	MT641	Hillon-Kevin complex, 8 to 15 percent slopes	0.040
Steel City	Montana	Phillips	18.768	18.915	0.148	MT641	Phillips-Kevin complex, 2 to 8 percent slopes	0.148
Steel City	Montana	Phillips	18.915	19.238	0.323	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.252
Steel City	Montana	Phillips	19.238	19.297	0.059	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.057
Steel City	Montana	Phillips	19.297	19.384	0.087	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.068
Steel City	Montana	Phillips	19.384	19.497	0.113	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.111

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Phillips	19.497	19.569	0.072	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.056
Steel City	Montana	Phillips	19.569	19.736	0.167	MT641	Sunburst-Bascovy-Neldore complex, 8 to 35 percent slopes	0.164
Steel City	Montana	Phillips	19.736	20.016	0.280	MT641	Phillips-Kevin complex, 2 to 8 percent slopes	0.280
Steel City	Montana	Phillips	20.016	20.258	0.242	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.242
Steel City	Montana	Phillips	20.258	20.338	0.080	MT641	Phillips-Kevin complex, 2 to 8 percent slopes	0.080
Steel City	Montana	Phillips	20.338	20.693	0.355	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.344
Steel City	Montana	Phillips	20.693	20.734	0.041	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.032
Steel City	Montana	Phillips	20.734	20.788	0.055	MT641	Harlake clay, 0 to 2 percent slopes	0.055
Steel City	Montana	Phillips	20.788	21.002	0.214	MT641	Hillon-Kevin complex, 8 to 15 percent slopes	0.214
Steel City	Montana	Phillips	21.002	21.302	0.299	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.291
Steel City	Montana	Phillips	21.302	21.334	0.032	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.025
Steel City	Montana	Phillips	21.334	21.393	0.059	MT641	Havre-Harlake-Glendive complex, 0 to 2 percent slopes	0.057
Steel City	Montana	Phillips	21.393	21.431	0.038	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.029
Steel City	Montana	Phillips	21.431	21.493	0.063	MT641	Havre-Harlake-Glendive complex, 0 to 2 percent slopes	0.060
Steel City	Montana	Phillips	21.493	21.582	0.088	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.069
Steel City	Montana	Phillips	21.582	21.617	0.035	MT641	Scobey-Kevin complex, 2 to 8 percent slopes	0.034
Steel City	Montana	Phillips	21.617	21.644	0.027	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.021
Steel City	Montana	Phillips	21.644	21.851	0.207	MT641	Hillon-Kevin complex, 8 to 15 percent slopes	0.207
Steel City	Montana	Phillips	21.851	22.040	0.189	MT641	Phillips-Kevin complex, 2 to 8 percent slopes	0.189
Steel City	Montana	Phillips	22.040	22.103	0.064	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.050
Steel City	Montana	Phillips	22.103	22.315	0.211	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.211
Steel City	Montana	Phillips	22.315	22.439	0.125	MT641	Phillips-Kevin complex, 2 to 8 percent slopes	0.125
Steel City	Montana	Phillips	22.439	22.802	0.363	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.363
Steel City	Montana	Phillips	22.802	23.159	0.357	MT641	Scobey-Kevin-Elloam clay loams, 2 to 8 percent slopes	0.357
Steel City	Montana	Phillips	23.159	23.351	0.192	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.192
Steel City	Montana	Phillips	23.351	23.483	0.132	MT641	Phillips-Elloam complex, 0 to 4 percent slopes	0.132
Steel City	Montana	Phillips	23.483	23.898	0.415	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.415
Steel City	Montana	Phillips	23.898	23.980	0.082	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.064

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Phillips	23.980	24.477	0.497	MT641	Scobey-Kevin clay loams, 2 to 8 percent slopes	0.497
Steel City	Montana	Phillips	24.477	24.933	0.455	MT641	Telstad-Joplin loams, 2 to 8 percent slopes	0.455
Steel City	Montana	Phillips	24.933	25.212	0.279	MT641	Hillon-Cabbart-Rock outcrop association, 15 to 65 percent slopes	0.218
Steel City	Montana	Phillips	25.212	25.221	0.009	MT641	Yamacall loam, 2 to 8 percent slopes	0.009
Steel City	Montana	Phillips	25.221	25.360	0.139	MT641	Marvan complex, 2 to 8 percent slopes	0.139
Steel City	Montana	Phillips	25.360	25.384	0.024	MT641	Lallie clay loam, 0 to 1 percent slopes	0.023
Steel City	Montana	Phillips	25.411	25.458	0.047	MT641	Lallie clay loam, 0 to 1 percent slopes	0.046
Steel City	Montana	Phillips	25.458	25.486	0.028	MT641	Harlake clay, 0 to 2 percent slopes	0.028
Steel City	Montana	Valley	25.486	25.601	0.114	MT105	Havre-Harlem silty clays	0.103
Steel City	Montana	Valley	25.601	25.816	0.215	MT105	Havre silty clay loam	0.215
Steel City	Montana	Valley	25.816	25.955	0.139	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.125
Steel City	Montana	Valley	25.955	26.010	0.056	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.056
Steel City	Montana	Valley	26.010	26.143	0.132	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.132
Steel City	Montana	Valley	26.143	26.180	0.037	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.037
Steel City	Montana	Valley	26.180	27.250	1.070	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	1.070
Steel City	Montana	Valley	27.250	27.404	0.154	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.154
Steel City	Montana	Valley	27.404	28.170	0.766	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.766
Steel City	Montana	Valley	28.170	28.654	0.484	MT105	Phillips loam, 0 to 5 percent slopes	0.484
Steel City	Montana	Valley	28.654	29.030	0.376	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.376
Steel City	Montana	Valley	29.030	29.331	0.301	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.301
Steel City	Montana	Valley	29.331	29.523	0.192	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.192
Steel City	Montana	Valley	29.523	30.014	0.491	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.491
Steel City	Montana	Valley	30.014	30.330	0.316	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.316
Steel City	Montana	Valley	30.330	30.587	0.256	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.256
Steel City	Montana	Valley	30.587	30.865	0.278	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.278
Steel City	Montana	Valley	30.865	31.252	0.388	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.388
Steel City	Montana	Valley	31.252	31.774	0.521	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.521
Steel City	Montana	Valley	31.774	32.234	0.461	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.461

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	32.234	32.306	0.072	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.067
Steel City	Montana	Valley	32.306	32.434	0.128	MT105	Elloam clay loam, 1 to 5 percent slopes	0.128
Steel City	Montana	Valley	32.434	32.601	0.167	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.167
Steel City	Montana	Valley	32.601	32.859	0.258	MT105	Thebo-Lisam clays, 2 to 15 percent slopes	0.253
Steel City	Montana	Valley	32.859	32.883	0.024	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.022
Steel City	Montana	Valley	32.883	32.989	0.107	MT105	Elloam clay loam, 1 to 5 percent slopes	0.107
Steel City	Montana	Valley	32.989	33.790	0.801	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.801
Steel City	Montana	Valley	33.790	33.906	0.115	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.115
Steel City	Montana	Valley	33.906	34.538	0.632	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.632
Steel City	Montana	Valley	34.538	34.587	0.049	MT105	Lisam-Dilts clays, 5 to 35 percent slopes	0.049
Steel City	Montana	Valley	34.587	34.641	0.054	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.054
Steel City	Montana	Valley	34.641	35.119	0.477	MT105	Lisam-Dilts clays, 5 to 35 percent slopes	0.477
Steel City	Montana	Valley	35.119	35.269	0.150	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.150
Steel City	Montana	Valley	35.269	35.384	0.116	MT105	Lisam-Dilts clays, 5 to 35 percent slopes	0.116
Steel City	Montana	Valley	35.384	35.461	0.077	MT105	Phillips loam, 0 to 5 percent slopes	0.077
Steel City	Montana	Valley	35.461	35.539	0.078	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.070
Steel City	Montana	Valley	35.539	35.809	0.269	MT105	Phillips loam, 0 to 5 percent slopes	0.269
Steel City	Montana	Valley	35.809	36.029	0.220	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.205
Steel City	Montana	Valley	36.029	36.223	0.195	MT105	Marmarth-Cabbart loams, 5 to 25 percent slopes	0.195
Steel City	Montana	Valley	36.223	36.537	0.314	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.314
Steel City	Montana	Valley	36.537	38.152	1.614	MT105	Scobey stony clay loams, 2 to 15 percent slopes	1.614
Steel City	Montana	Valley	38.152	38.604	0.453	MT105	Scobey clay loam, 1 to 9 percent slopes	0.453
Steel City	Montana	Valley	38.604	38.696	0.092	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.083
Steel City	Montana	Valley	38.696	38.812	0.115	MT105	Scobey clay loam, 1 to 9 percent slopes	0.115
Steel City	Montana	Valley	38.812	39.050	0.238	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.215
Steel City	Montana	Valley	39.050	39.256	0.206	MT105	Ustic Torrifluvents, gently sloping	0.206
Steel City	Montana	Valley	39.256	39.541	0.285	MT105	Havre-Glendive complex	0.285
Steel City	Montana	Valley	39.541	39.584	0.044	MT105	Ustic Torrifluvents, gently sloping	0.044

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	39.584	39.781	0.197	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.177
Steel City	Montana	Valley	39.781	40.210	0.429	MT105	Telstad loam, 1 to 9 percent slopes	0.429
Steel City	Montana	Valley	40.210	40.484	0.275	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.247
Steel City	Montana	Valley	40.484	40.912	0.427	MT105	Ustic Torrifluvents, gently sloping	0.427
Steel City	Montana	Valley	40.912	41.098	0.186	MT105	Evanston loam, 2 to 9 percent slopes	0.186
Steel City	Montana	Valley	41.098	41.151	0.053	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.053
Steel City	Montana	Valley	41.151	41.179	0.028	MT105	Havre-Harlem silty clays	0.025
Steel City	Montana	Valley	41.179	41.264	0.085	MT105	Lonna-Marias complex, 1 to 3 percent slopes	0.085
Steel City	Montana	Valley	41.264	41.362	0.098	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.098
Steel City	Montana	Valley	41.362	41.597	0.235	MT105	Lonna-Marias complex, 1 to 3 percent slopes	0.235
Steel City	Montana	Valley	41.597	41.660	0.063	MT105	Cabbart-Delpoint complex, 9 to 35 percent slopes	0.056
Steel City	Montana	Valley	41.660	41.789	0.129	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.129
Steel City	Montana	Valley	41.789	42.503	0.715	MT105	Scobey clay loam, 1 to 9 percent slopes	0.715
Steel City	Montana	Valley	42.503	42.588	0.085	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.085
Steel City	Montana	Valley	42.588	42.715	0.127	MT105	Scobey clay loam, 1 to 9 percent slopes	0.127
Steel City	Montana	Valley	42.715	42.979	0.264	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.264
Steel City	Montana	Valley	42.979	43.127	0.147	MT105	Evanston loam, 2 to 9 percent slopes	0.147
Steel City	Montana	Valley	43.127	43.306	0.179	MT105	Marmarth-Cabbart loams, 5 to 25 percent slopes	0.179
Steel City	Montana	Valley	43.306	43.394	0.088	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.088
Steel City	Montana	Valley	43.394	43.668	0.274	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.274
Steel City	Montana	Valley	43.668	44.934	1.266	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	1.266
Steel City	Montana	Valley	44.934	45.089	0.155	MT105	Marmarth-Cabbart loams, 5 to 25 percent slopes	0.155
Steel City	Montana	Valley	45.089	45.173	0.084	MT105	Ustic Torrifluvents, gently sloping	0.084
Steel City	Montana	Valley	45.173	45.290	0.117	MT105	Marmarth-Cabbart loams, 5 to 25 percent slopes	0.117
Steel City	Montana	Valley	45.290	45.437	0.147	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.147
Steel City	Montana	Valley	45.437	45.664	0.227	MT105	Phillips loam, 0 to 5 percent slopes	0.227
Steel City	Montana	Valley	45.664	45.926	0.262	MT105	Elloam clay loam, 1 to 5 percent slopes	0.262
Steel City	Montana	Valley	45.926	45.992	0.066	MT105	Marias clay, 1 to 9 percent slopes	0.066

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	45.992	46.308	0.316	MT105	Thebo clay, 2 to 9 percent slopes	0.316
Steel City	Montana	Valley	46.308	46.344	0.036	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.036
Steel City	Montana	Valley	46.344	46.478	0.134	MT105	Lisam-Dilts clays, 5 to 35 percent slopes	0.134
Steel City	Montana	Valley	46.478	46.772	0.294	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.294
Steel City	Montana	Valley	46.772	47.087	0.314	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.292
Steel City	Montana	Valley	47.087	47.100	0.013	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.013
Steel City	Montana	Valley	47.100	47.179	0.079	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.073
Steel City	Montana	Valley	47.179	47.451	0.272	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.272
Steel City	Montana	Valley	47.451	47.727	0.276	MT105	Tinsley complex, 9 to 35 percent slopes	0.152
Steel City	Montana	Valley	47.727	47.974	0.247	MT105	Phillips loam, 0 to 5 percent slopes	0.247
Steel City	Montana	Valley	47.974	48.077	0.103	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.103
Steel City	Montana	Valley	48.077	48.194	0.117	MT105	Phillips loam, 0 to 5 percent slopes	0.117
Steel City	Montana	Valley	48.194	48.657	0.463	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.430
Steel City	Montana	Valley	48.657	48.810	0.153	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.153
Steel City	Montana	Valley	48.810	48.861	0.051	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.051
Steel City	Montana	Valley	48.861	48.886	0.024	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.024
Steel City	Montana	Valley	48.886	48.940	0.054	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.054
Steel City	Montana	Valley	48.940	49.005	0.065	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.065
Steel City	Montana	Valley	49.005	49.165	0.161	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.161
Steel City	Montana	Valley	49.165	49.208	0.043	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.043
Steel City	Montana	Valley	49.208	49.280	0.072	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.072
Steel City	Montana	Valley	49.280	51.241	1.960	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	1.960
Steel City	Montana	Valley	51.241	51.380	0.139	MT105	Absher-Vaeda complex, 1 to 5 percent slopes	0.139
Steel City	Montana	Valley	51.380	51.651	0.271	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.252
Steel City	Montana	Valley	51.651	51.727	0.076	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.076
Steel City	Montana	Valley	51.727	51.894	0.167	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.155
Steel City	Montana	Valley	51.894	52.308	0.413	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.413
Steel City	Montana	Valley	52.308	52.446	0.138	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.128

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	52.446	52.544	0.098	MT105	Ustic Torrifluvents, gently sloping	0.098
Steel City	Montana	Valley	52.544	52.613	0.069	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.064
Steel City	Montana	Valley	52.613	53.051	0.438	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.438
Steel City	Montana	Valley	53.051	53.120	0.069	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.064
Steel City	Montana	Valley	53.120	53.298	0.178	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.178
Steel City	Montana	Valley	53.298	53.380	0.082	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.076
Steel City	Montana	Valley	53.380	53.427	0.047	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.047
Steel City	Montana	Valley	53.427	53.648	0.220	MT105	Absher-Vaeda complex, 1 to 5 percent slopes	0.220
Steel City	Montana	Valley	53.648	53.749	0.101	MT105	Thebo-Lisam clays, 2 to 15 percent slopes	0.099
Steel City	Montana	Valley	53.749	54.187	0.438	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.408
Steel City	Montana	Valley	54.187	54.478	0.291	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.291
Steel City	Montana	Valley	54.478	55.143	0.665	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.665
Steel City	Montana	Valley	55.143	55.390	0.247	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.229
Steel City	Montana	Valley	55.390	55.489	0.099	MT105	Ustic Torrifluvents, gently sloping	0.099
Steel City	Montana	Valley	55.489	55.838	0.349	MT105	Havre-Harlem silty clays	0.314
Steel City	Montana	Valley	55.838	55.942	0.104	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.097
Steel City	Montana	Valley	55.942	56.014	0.073	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.073
Steel City	Montana	Valley	56.014	56.179	0.165	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.165
Steel City	Montana	Valley	56.179	56.223	0.044	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.044
Steel City	Montana	Valley	56.223	56.323	0.100	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.100
Steel City	Montana	Valley	56.323	56.698	0.375	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.375
Steel City	Montana	Valley	56.698	56.770	0.072	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.067
Steel City	Montana	Valley	56.770	57.021	0.251	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.251
Steel City	Montana	Valley	57.021	57.078	0.057	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.053
Steel City	Montana	Valley	57.078	57.251	0.173	MT105	Aquic Ustifluvents, saline	0.173
Steel City	Montana	Valley	57.251	57.391	0.140	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.140
Steel City	Montana	Valley	57.391	57.456	0.065	MT105	Lisam-Dilts clays, 5 to 35 percent slopes	0.065
Steel City	Montana	Valley	57.456	57.523	0.067	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.062

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	57.523	57.588	0.065	MT105	Lisam-Dilts clays, 5 to 35 percent slopes	0.065
Steel City	Montana	Valley	57.588	57.783	0.195	MT105	Sunburst-Lisam complex, 9 to 35 percent slopes	0.181
Steel City	Montana	Valley	57.783	57.985	0.203	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.203
Steel City	Montana	Valley	57.985	58.567	0.581	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.581
Steel City	Montana	Valley	58.567	59.432	0.865	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.865
Steel City	Montana	Valley	59.432	59.545	0.114	MT105	Ustic Torrifluvents, gently sloping	0.114
Steel City	Montana	Valley	59.545	59.649	0.104	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.104
Steel City	Montana	Valley	59.649	59.816	0.167	MT105	Elloam clay loam, 1 to 5 percent slopes	0.167
Steel City	Montana	Valley	59.816	59.938	0.122	MT105	Elloam gravelly clay, 2 to 9 percent slopes	0.122
Steel City	Montana	Valley	59.938	60.112	0.174	MT105	Aquic Ustifluvents, saline	0.174
Steel City	Montana	Valley	60.112	60.317	0.205	MT105	Redvale loam, 0 to 3 percent slopes	0.205
Steel City	Montana	Valley	60.317	61.329	1.012	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	1.012
Steel City	Montana	Valley	61.329	61.767	0.438	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.438
Steel City	Montana	Valley	61.767	61.912	0.145	MT105	Ustic Torrifluvents, gently sloping	0.145
Steel City	Montana	Valley	61.912	62.119	0.207	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.207
Steel City	Montana	Valley	62.119	63.403	1.283	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	1.283
Steel City	Montana	Valley	63.403	63.841	0.438	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.438
Steel City	Montana	Valley	63.841	64.346	0.506	MT105	Phillips loam, 0 to 5 percent slopes	0.506
Steel City	Montana	Valley	64.346	65.135	0.788	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.788
Steel City	Montana	Valley	65.135	67.140	2.005	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	2.005
Steel City	Montana	Valley	67.140	67.169	0.029	MT105	Scobey-Sunburst clay loams, 5 to 25 percent slopes	0.029
Steel City	Montana	Valley	67.169	67.223	0.054	MT105	Ustic Torrifluvents, gently sloping	0.054
Steel City	Montana	Valley	67.223	67.482	0.259	MT105	Havre-Harlem silty clays	0.233
Steel City	Montana	Valley	67.482	67.794	0.312	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.312
Steel City	Montana	Valley	67.794	67.949	0.155	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.155
Steel City	Montana	Valley	67.949	68.072	0.123	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.123
Steel City	Montana	Valley	68.072	68.303	0.231	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.231
Steel City	Montana	Valley	68.303	68.506	0.203	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.203

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	68.506	68.629	0.123	MT105	Redvale loam, 0 to 3 percent slopes	0.123
Steel City	Montana	Valley	68.629	68.769	0.140	MT105	Ustic Torrifluvents, gently sloping	0.140
Steel City	Montana	Valley	68.769	69.377	0.608	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.608
Steel City	Montana	Valley	69.407	69.573	0.166	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.166
Steel City	Montana	Valley	69.573	70.198	0.625	MT105	Thoeny-Phillips complex, 1 to 5 percent slopes	0.625
Steel City	Montana	Valley	70.198	70.520	0.322	MT105	Aquic Ustifluvents, saline	0.322
Steel City	Montana	Valley	70.520	70.632	0.112	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.112
Steel City	Montana	Valley	70.632	70.979	0.347	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.347
Steel City	Montana	Valley	70.979	71.038	0.060	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.060
Steel City	Montana	Valley	71.038	71.237	0.199	MT105	Ustic Torrifluvents, gently sloping	0.199
Steel City	Montana	Valley	71.237	73.099	1.862	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	1.862
Steel City	Montana	Valley	73.099	73.627	0.528	MT105	Scobey clay loam, 1 to 9 percent slopes	0.528
Steel City	Montana	Valley	73.627	73.725	0.098	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.098
Steel City	Montana	Valley	73.725	73.796	0.071	MT105	Scobey clay loam, 1 to 9 percent slopes	0.071
Steel City	Montana	Valley	73.796	75.998	2.202	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	2.202
Steel City	Montana	Valley	75.998	76.065	0.067	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.067
Steel City	Montana	Valley	76.065	76.126	0.061	MT105	Ustic Torrifluvents, gently sloping	0.061
Steel City	Montana	Valley	76.126	76.176	0.050	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.050
Steel City	Montana	Valley	76.176	76.679	0.503	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.503
Steel City	Montana	Valley	76.679	76.704	0.026	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.026
Steel City	Montana	Valley	76.704	77.965	1.260	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	1.260
Steel City	Montana	Valley	77.965	78.064	0.100	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.100
Steel City	Montana	Valley	78.064	78.128	0.064	MT105	Ustic Torrifluvents, gently sloping	0.064
Steel City	Montana	Valley	78.128	78.480	0.352	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.352
Steel City	Montana	Valley	78.480	78.905	0.425	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.425
Steel City	Montana	Valley	78.905	79.082	0.178	MT105	Nishon loam	0.178
Steel City	Montana	Valley	79.082	79.522	0.439	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	0.439
Steel City	Montana	Valley	79.522	79.893	0.372	MT105	Scobey clay loam, 1 to 9 percent slopes	0.372

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Valley	79.893	81.001	1.108	MT105	Phillips-Scobey complex, 2 to 9 percent slopes	1.108
Steel City	Montana	Valley	81.001	82.347	1.346	MT105	Redvale loam, 0 to 3 percent slopes	1.346
Steel City	Montana	Valley	82.347	82.630	0.282	MT105	Sunburst clay loam, 9 to 35 percent slopes	0.282
Steel City	Montana	Valley	82.630	82.710	0.080	MT105	Phillips-Elloam complex, 1 to 9 percent slopes	0.080
Steel City	Montana	Valley	82.710	82.927	0.218	MT105	Havre silty clay loam	0.218
Steel City	Montana	Valley	82.946	85.068	2.122	MT105	Harlem clay	2.122
Steel City	Montana	Valley	85.068	85.259	0.190	MT105	Hillon-Telstad loams, 9 to 15 percent slopes	0.183
Steel City	Montana	Valley	85.259	85.506	0.248	MT105	Evanston-Lonna loams, 2 to 9 percent slopes	0.248
Steel City	Montana	Valley	85.506	85.816	0.309	MT105	Phillips loam, 0 to 5 percent slopes	0.309
Steel City	Montana	Valley	85.816	86.208	0.392	MT105	Evanston-Lonna loams, 2 to 9 percent slopes	0.392
Steel City	Montana	Valley	86.208	86.372	0.164	MT105	Phillips loam, 0 to 5 percent slopes	0.164
Steel City	Montana	Valley	86.372	87.204	0.831	MT105	Evanston-Lonna loams, 2 to 9 percent slopes	0.831
Steel City	Montana	Valley	87.204	87.236	0.032	MT105	Hillon loam, 15 to 35 percent slopes	0.031
Steel City	Montana	Valley	87.236	87.785	0.549	MT105	Havre-Harlem silty clays	0.495
Steel City	Montana	Valley	87.785	88.174	0.388	MT105	Havre silty clay loam	0.388
Steel City	Montana	Valley	88.174	88.340	0.167	MT105	Havre-Harlem silty clays	0.150
Steel City	Montana	Valley	88.340	88.360	0.020	MT105	Havre silty clay loam	0.020
Steel City	Montana	Valley	88.360	88.482	0.122	MT105	Havre-Harlem silty clays	0.110
Steel City	Montana	Valley	88.482	88.670	0.188	MT105	Havre silty clay loam	0.188
Steel City	Montana	Valley	88.670	89.093	0.423	MT105	Havre-Harlem silty clays	0.381
Steel City	Montana	McCone	89.309	89.454	0.144	MT055	Havre silty clay loam	0.144
Steel City	Montana	McCone	89.454	89.621	0.167	MT055	Glendive silty clay loam, protected	0.167
Steel City	Montana	McCone	89.621	89.843	0.222	MT055	Havre silty clay loam, protected	0.222
Steel City	Montana	McCone	89.843	89.943	0.099	MT055	Glendive silty clay loam, protected	0.099
Steel City	Montana	McCone	89.943	90.076	0.133	MT055	Havre silty clay loam, protected	0.133
Steel City	Montana	McCone	90.076	90.263	0.187	MT055	Harlake silty clay, 0 to 2 percent slopes	0.187
Steel City	Montana	McCone	90.263	90.331	0.068	MT055	Neldore-Badland-Bascovy complex, 15 to 45 percent slopes	0.048
Steel City	Montana	McCone	90.331	90.668	0.337	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.145

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	90.668	91.048	0.380	MT055	Neldore-Yamac-Badland complex, 15 to 45 percent slopes	0.273
Steel City	Montana	McCone	91.048	91.096	0.048	MT055	Yamacall loam, 8 to 15 percent slopes	0.045
Steel City	Montana	McCone	91.096	91.194	0.097	MT055	Neldore-Yamac-Badland complex, 15 to 45 percent slopes	0.070
Steel City	Montana	McCone	91.194	91.398	0.204	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.088
Steel City	Montana	McCone	91.398	91.453	0.055	MT055	Neldore-Yamac-Badland complex, 15 to 45 percent slopes	0.039
Steel City	Montana	McCone	91.453	92.058	0.606	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.261
Steel City	Montana	McCone	92.058	92.304	0.246	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.037
Steel City	Montana	McCone	92.304	92.343	0.039	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.017
Steel City	Montana	McCone	92.343	92.377	0.034	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.005
Steel City	Montana	McCone	92.377	92.411	0.034	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.014
Steel City	Montana	McCone	92.411	92.707	0.296	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.044
Steel City	Montana	McCone	92.707	92.780	0.073	MT055	Twilight-Yetull fine sandy loams, 8 to 15 percent slopes	0.012
Steel City	Montana	McCone	92.780	93.211	0.431	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.185
Steel City	Montana	McCone	93.211	93.818	0.607	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.212
Steel City	Montana	McCone	93.818	93.865	0.048	MT055	Aeric Fluvaquents, loamy	0.004
Steel City	Montana	McCone	93.865	93.914	0.049	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.047
Steel City	Montana	McCone	93.914	93.973	0.059	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.020
Steel City	Montana	McCone	93.973	94.018	0.045	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.044
Steel City	Montana	McCone	94.018	94.038	0.019	MT055	Aeric Fluvaquents, loamy	0.002
Steel City	Montana	McCone	94.038	94.083	0.045	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.041
Steel City	Montana	McCone	94.083	94.146	0.063	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.009
Steel City	Montana	McCone	94.146	94.148	0.003	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.002
Steel City	Montana	McCone	94.148	94.283	0.135	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.020
Steel City	Montana	McCone	94.283	94.404	0.120	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.081
Steel City	Montana	McCone	94.404	94.504	0.100	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.097
Steel City	Montana	McCone	94.504	94.520	0.016	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.011
Steel City	Montana	McCone	94.520	94.538	0.018	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.016
Steel City	Montana	McCone	94.538	94.770	0.232	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.155

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	94.770	94.968	0.197	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.179
Steel City	Montana	McCone	94.968	95.056	0.089	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.059
Steel City	Montana	McCone	95.056	95.162	0.106	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.096
Steel City	Montana	McCone	95.162	95.334	0.172	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.115
Steel City	Montana	McCone	95.334	95.650	0.316	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.288
Steel City	Montana	McCone	95.650	95.897	0.247	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.086
Steel City	Montana	McCone	95.897	95.946	0.050	MT055	Hillon loam, 8 to 15 percent slopes	0.050
Steel City	Montana	McCone	95.946	96.077	0.131	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.046
Steel City	Montana	McCone	96.077	96.215	0.137	MT055	Hillon loam, 8 to 15 percent slopes	0.137
Steel City	Montana	McCone	96.215	96.332	0.117	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.018
Steel City	Montana	McCone	96.332	96.505	0.173	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.061
Steel City	Montana	McCone	96.505	96.522	0.018	MT055	Yamacall loam, 4 to 8 percent slopes	0.017
Steel City	Montana	McCone	96.522	96.708	0.186	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.065
Steel City	Montana	McCone	96.708	96.732	0.023	MT055	Busby fine sandy loam, 8 to 15 percent slopes	0.001
Steel City	Montana	McCone	96.732	96.764	0.032	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.029
Steel City	Montana	McCone	96.764	96.850	0.086	MT055	Busby fine sandy loam, 8 to 15 percent slopes	0.005
Steel City	Montana	McCone	96.850	96.860	0.010	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.009
Steel City	Montana	McCone	96.860	96.884	0.025	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.004
Steel City	Montana	McCone	96.884	97.043	0.159	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.145
Steel City	Montana	McCone	97.043	97.164	0.121	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.042
Steel City	Montana	McCone	97.164	97.272	0.108	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.098
Steel City	Montana	McCone	97.272	97.303	0.031	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.021
Steel City	Montana	McCone	97.303	97.610	0.307	MT055	Sunburst clay loam, 15 to 45 percent slopes	0.279
Steel City	Montana	McCone	97.610	97.832	0.222	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.149
Steel City	Montana	McCone	97.832	98.029	0.197	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.191
Steel City	Montana	McCone	98.029	98.137	0.109	MT055	Kremlin loam, 0 to 4 percent slopes	0.103
Steel City	Montana	McCone	98.137	98.258	0.120	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.080
Steel City	Montana	McCone	98.258	98.321	0.064	MT055	Sunburst clay loam, 2 to 8 percent slopes	0.062

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	98.321	98.396	0.075	MT055	Yamacall-Twilight complex, 2 to 8 percent slopes	0.045
Steel City	Montana	McCone	98.396	98.528	0.131	MT055	Yamacall loam, 4 to 8 percent slopes	0.125
Steel City	Montana	McCone	98.528	98.584	0.056	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.008
Steel City	Montana	McCone	98.584	98.769	0.185	MT055	Yamacall loam, 4 to 8 percent slopes	0.176
Steel City	Montana	McCone	98.769	98.969	0.199	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.030
Steel City	Montana	McCone	98.969	99.164	0.195	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.068
Steel City	Montana	McCone	99.164	99.310	0.146	MT055	Yamacall loam, 8 to 15 percent slopes	0.136
Steel City	Montana	McCone	99.310	99.484	0.174	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.026
Steel City	Montana	McCone	99.484	99.612	0.128	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.055
Steel City	Montana	McCone	99.612	99.616	0.004	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.004
Steel City	Montana	McCone	99.616	99.672	0.056	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.024
Steel City	Montana	McCone	99.672	99.757	0.084	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.013
Steel City	Montana	McCone	99.757	99.792	0.035	MT055	Yamacall loam, 4 to 8 percent slopes	0.033
Steel City	Montana	McCone	99.792	99.925	0.133	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.020
Steel City	Montana	McCone	99.925	99.979	0.054	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.023
Steel City	Montana	McCone	99.979	100.036	0.057	MT055	Rominell loam, 0 to 8 percent slopes	0.056
Steel City	Montana	McCone	100.036	100.254	0.218	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.094
Steel City	Montana	McCone	100.254	100.438	0.184	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.179
Steel City	Montana	McCone	100.438	100.508	0.070	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.006
Steel City	Montana	McCone	100.508	100.554	0.046	MT055	Kremlin loam, 0 to 4 percent slopes	0.044
Steel City	Montana	McCone	100.554	100.596	0.042	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.041
Steel City	Montana	McCone	100.596	100.623	0.026	MT055	Kremlin loam, 0 to 4 percent slopes	0.025
Steel City	Montana	McCone	100.623	100.857	0.235	MT055	Telstad-Hillon loams, 2 to 8 percent slopes	0.235
Steel City	Montana	McCone	100.857	100.929	0.072	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.025
Steel City	Montana	McCone	100.929	101.049	0.119	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.080
Steel City	Montana	McCone	101.049	101.152	0.103	MT055	Telstad loam, 2 to 8 percent slopes	0.103
Steel City	Montana	McCone	101.152	101.313	0.161	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.108
Steel City	Montana	McCone	101.313	101.491	0.178	MT055	Gerdrum-Yawdim-Fleak complex, 8 to 45 percent slopes	0.126

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	101.491	101.607	0.116	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.116
Steel City	Montana	McCone	101.607	101.777	0.170	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.114
Steel City	Montana	McCone	101.777	101.892	0.115	MT055	Sunburst clay loam, 8 to 15 percent slopes	0.112
Steel City	Montana	McCone	101.892	101.937	0.045	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.045
Steel City	Montana	McCone	101.937	102.008	0.071	MT055	Hillon-Yamacall-Fleak complex, 15 to 45 percent slopes	0.047
Steel City	Montana	McCone	102.008	102.068	0.060	MT055	Eapa loam, 2 to 8 percent slopes	0.060
Steel City	Montana	McCone	102.068	102.247	0.180	MT055	Creed-Gerdrum complex, 0 to 8 percent slopes	0.174
Steel City	Montana	McCone	102.247	102.480	0.233	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.233
Steel City	Montana	McCone	102.480	102.552	0.071	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.025
Steel City	Montana	McCone	102.552	102.663	0.111	MT055	Rominell loam, 0 to 8 percent slopes	0.109
Steel City	Montana	McCone	102.663	102.709	0.046	MT055	Chinook fine sandy loam, 0 to 4 percent slopes	0.005
Steel City	Montana	McCone	102.709	102.760	0.051	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.037
Steel City	Montana	McCone	102.760	102.789	0.029	MT055	Busby-Yetull fine sandy loams, 2 to 8 percent slopes	0.001
Steel City	Montana	McCone	102.789	102.827	0.037	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.027
Steel City	Montana	McCone	102.827	102.986	0.159	MT055	Busby-Yetull fine sandy loams, 2 to 8 percent slopes	0.005
Steel City	Montana	McCone	102.986	103.116	0.131	MT055	Busby fine sandy loam, 2 to 8 percent slopes	0.012
Steel City	Montana	McCone	103.116	103.165	0.048	MT055	Busby-Yetull fine sandy loams, 2 to 8 percent slopes	0.001
Steel City	Montana	McCone	103.165	103.212	0.047	MT055	Rominell loam, gullied, 0 to 8 percent slopes	0.046
Steel City	Montana	McCone	103.212	103.405	0.193	MT055	Busby-Yetull fine sandy loams, 2 to 8 percent slopes	0.006
Steel City	Montana	McCone	103.405	103.449	0.044	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.043
Steel City	Montana	McCone	103.449	103.634	0.185	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.185
Steel City	Montana	McCone	103.634	103.671	0.037	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.035
Steel City	Montana	McCone	103.671	103.743	0.072	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.072
Steel City	Montana	McCone	103.743	104.135	0.392	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.377
Steel City	Montana	McCone	104.135	104.191	0.057	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.057
Steel City	Montana	McCone	104.191	104.369	0.178	MT055	Hillon loam, 15 to 45 percent slopes	0.173
Steel City	Montana	McCone	104.369	104.518	0.149	MT055	Telstad-Hillon loams, 2 to 8 percent slopes	0.149
Steel City	Montana	McCone	104.518	104.548	0.030	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.030

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	104.548	104.596	0.048	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.046
Steel City	Montana	McCone	104.596	104.737	0.141	MT055	Telstad loam, 2 to 8 percent slopes	0.141
Steel City	Montana	McCone	104.737	104.841	0.104	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.104
Steel City	Montana	McCone	104.841	104.893	0.052	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.004
Steel City	Montana	McCone	104.893	105.007	0.114	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.114
Steel City	Montana	McCone	105.007	105.131	0.124	MT055	Ethridge silty clay loam, 4 to 8 percent slopes	0.124
Steel City	Montana	McCone	105.131	105.561	0.430	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.430
Steel City	Montana	McCone	105.561	105.665	0.104	MT055	Ustic torriorthents-Ustic torrifluvents association	0.016
Steel City	Montana	McCone	105.665	105.679	0.014	MT055	Ethridge silty clay loam, 4 to 8 percent slopes	0.014
Steel City	Montana	McCone	105.679	105.807	0.129	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.129
Steel City	Montana	McCone	105.807	105.817	0.010	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.010
Steel City	Montana	McCone	105.817	105.871	0.053	MT055	Ethridge silty clay loam, 4 to 8 percent slopes	0.053
Steel City	Montana	McCone	105.871	105.997	0.126	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.126
Steel City	Montana	McCone	105.997	106.048	0.052	MT055	Ethridge silty clay loam, 4 to 8 percent slopes	0.052
Steel City	Montana	McCone	106.048	106.183	0.134	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.129
Steel City	Montana	McCone	106.183	106.402	0.219	MT055	Ethridge silty clay loam, 4 to 8 percent slopes	0.219
Steel City	Montana	McCone	106.402	106.548	0.146	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.140
Steel City	Montana	McCone	106.548	106.786	0.238	MT055	Yawdim-Badland-Gerdrum association	0.148
Steel City	Montana	McCone	106.786	106.906	0.121	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.010
Steel City	Montana	McCone	106.906	106.986	0.080	MT055	Ustic torriorthents-Ustic torrifluvents association	0.012
Steel City	Montana	McCone	106.986	107.140	0.154	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.054
Steel City	Montana	McCone	107.140	107.189	0.049	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.049
Steel City	Montana	McCone	107.189	107.277	0.088	MT055	Creed loam, 0 to 8 percent slopes	0.086
Steel City	Montana	McCone	107.277	107.361	0.084	MT055	Telstad-Hillon loams, 2 to 8 percent slopes	0.084
Steel City	Montana	McCone	107.361	107.741	0.379	MT055	Creed loam, 0 to 8 percent slopes	0.372
Steel City	Montana	McCone	107.741	107.809	0.068	MT055	Ustic torriorthents-Ustic torrifluvents association	0.010
Steel City	Montana	McCone	107.809	108.004	0.196	MT055	Creed loam, 0 to 8 percent slopes	0.192
Steel City	Montana	McCone	108.004	108.520	0.515	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.515

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	108.520	108.906	0.386	MT055	Havre silt loam	0.386
Steel City	Montana	McCone	108.906	108.964	0.058	MT055	Yawdim-Badland-Gerdrum association	0.036
Steel City	Montana	McCone	108.964	109.030	0.065	MT055	Benz clay loam, 0 to 8 percent slopes	0.064
Steel City	Montana	McCone	109.030	109.080	0.050	MT055	Chinook fine sandy loam, 0 to 4 percent slopes	0.005
Steel City	Montana	McCone	109.080	109.106	0.026	MT055	Badland	0.004
Steel City	Montana	McCone	109.106	109.205	0.099	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.099
Steel City	Montana	McCone	109.205	109.266	0.061	MT055	Rominell loam, gullied, 0 to 8 percent slopes	0.059
Steel City	Montana	McCone	109.266	109.375	0.109	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.109
Steel City	Montana	McCone	109.375	109.456	0.081	MT055	Kremlin loam, 0 to 4 percent slopes	0.077
Steel City	Montana	McCone	109.456	109.530	0.074	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.074
Steel City	Montana	McCone	109.530	109.653	0.123	MT055	Busby-Twilight fine sandy loams, 2 to 8 percent slopes	0.007
Steel City	Montana	McCone	109.653	109.757	0.104	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.008
Steel City	Montana	McCone	109.757	109.849	0.092	MT055	Busby-Twilight fine sandy loams, 2 to 8 percent slopes	0.006
Steel City	Montana	McCone	109.849	109.920	0.070	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.070
Steel City	Montana	McCone	109.920	110.085	0.165	MT055	Busby-Twilight fine sandy loams, 2 to 8 percent slopes	0.010
Steel City	Montana	McCone	110.085	110.126	0.041	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.041
Steel City	Montana	McCone	110.126	110.217	0.092	MT055	Busby-Twilight fine sandy loams, 2 to 8 percent slopes	0.006
Steel City	Montana	McCone	110.217	110.284	0.067	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.067
Steel City	Montana	McCone	110.284	110.346	0.062	MT055	Busby-Twilight fine sandy loams, 2 to 8 percent slopes	0.004
Steel City	Montana	McCone	110.346	110.671	0.325	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.026
Steel City	Montana	McCone	110.671	110.806	0.135	MT055	Glendive loam	0.129
Steel City	Montana	McCone	110.806	110.916	0.110	MT055	Lonna silty clay loam, 0 to 4 percent slopes	0.110
Steel City	Montana	McCone	110.916	110.958	0.042	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.003
Steel City	Montana	McCone	110.958	111.009	0.051	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.018
Steel City	Montana	McCone	111.009	111.052	0.043	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.003
Steel City	Montana	McCone	111.052	111.103	0.051	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.018
Steel City	Montana	McCone	111.103	111.141	0.038	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.003
Steel City	Montana	McCone	111.141	111.273	0.132	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.046

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	111.273	111.348	0.075	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.006
Steel City	Montana	McCone	111.348	111.456	0.108	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.108
Steel City	Montana	McCone	111.456	111.520	0.064	MT055	Kremlin loam, 0 to 4 percent slopes	0.061
Steel City	Montana	McCone	111.520	111.630	0.110	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.110
Steel City	Montana	McCone	111.630	111.666	0.036	MT055	Typic Ustifluvents, saline	0.004
Steel City	Montana	McCone	111.666	111.675	0.010	MT055	Ustic torriorthents-Ustic torrifluvents association	0.001
Steel City	Montana	McCone	111.675	111.714	0.039	MT055	Yamacall loam, 0 to 4 percent slopes	0.037
Steel City	Montana	McCone	111.714	111.823	0.109	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.104
Steel City	Montana	McCone	111.823	111.867	0.044	MT055	Rominell loam, 0 to 8 percent slopes	0.043
Steel City	Montana	McCone	111.867	111.930	0.063	MT055	Rominell loam, gullied, 0 to 8 percent slopes	0.061
Steel City	Montana	McCone	111.930	111.993	0.063	MT055	Chinook fine sandy loam, 8 to 15 percent slopes	0.004
Steel City	Montana	McCone	111.993	112.101	0.108	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.108
Steel City	Montana	McCone	112.101	112.187	0.086	MT055	Rominell loam, gullied, 0 to 8 percent slopes	0.083
Steel City	Montana	McCone	112.187	112.362	0.175	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.175
Steel City	Montana	McCone	112.362	112.714	0.352	MT055	Rominell loam, gullied, 0 to 8 percent slopes	0.342
Steel City	Montana	McCone	112.714	112.789	0.075	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.011
Steel City	Montana	McCone	112.789	112.972	0.183	MT055	Yawdim-Badland-Cabbart association	0.119
Steel City	Montana	McCone	112.972	113.112	0.141	MT055	Creed loam, 0 to 8 percent slopes	0.138
Steel City	Montana	McCone	113.112	113.192	0.079	MT055	Yamacall loam, 8 to 15 percent slopes	0.074
Steel City	Montana	McCone	113.192	113.334	0.142	MT055	Creed loam, 0 to 8 percent slopes	0.139
Steel City	Montana	McCone	113.334	113.389	0.055	MT055	Rominell-Yamacall loams, 4 to 15 percent slopes	0.051
Steel City	Montana	McCone	113.389	113.503	0.114	MT055	Rominell loam, 0 to 8 percent slopes	0.112
Steel City	Montana	McCone	113.503	113.597	0.094	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.094
Steel City	Montana	McCone	113.597	113.731	0.134	MT055	Hillon loam, 15 to 45 percent slopes	0.130
Steel City	Montana	McCone	113.731	113.981	0.250	MT055	Hillon loam, 2 to 8 percent slopes	0.250
Steel City	Montana	McCone	113.981	114.026	0.045	MT055	Yamacall loam, 4 to 8 percent slopes	0.043
Steel City	Montana	McCone	114.026	114.088	0.062	MT055	Ustic torriorthents-Ustic torrifluvents association	0.009
Steel City	Montana	McCone	114.088	114.143	0.055	MT055	Twilight-Yetull fine sandy loams, 8 to 15 percent slopes	0.009

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	114.143	114.177	0.034	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.033
Steel City	Montana	McCone	114.177	114.223	0.046	MT055	Cabbart-Yawdim complex, 15 to 45 percent slopes	0.039
Steel City	Montana	McCone	114.223	114.323	0.100	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.096
Steel City	Montana	McCone	114.323	114.360	0.037	MT055	Cabbart-Yawdim complex, 15 to 45 percent slopes	0.032
Steel City	Montana	McCone	114.360	114.393	0.033	MT055	Cambeth-Twilight-Cabbart complex, 4 to 15 percent slopes	0.022
Steel City	Montana	McCone	114.393	114.416	0.023	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.023
Steel City	Montana	McCone	114.416	114.468	0.053	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.051
Steel City	Montana	McCone	114.468	114.529	0.061	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.061
Steel City	Montana	McCone	114.529	114.607	0.078	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.057
Steel City	Montana	McCone	114.607	114.699	0.092	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.092
Steel City	Montana	McCone	114.699	115.164	0.464	MT055	Chinook fine sandy loam, gullied, 2 to 8 percent slopes	0.028
Steel City	Montana	McCone	115.164	115.255	0.092	MT055	Badland	0.014
Steel City	Montana	McCone	115.255	115.282	0.027	MT055	Benz clay loam, 0 to 8 percent slopes	0.027
Steel City	Montana	McCone	115.282	115.411	0.129	MT055	Rominell loam, gullied, 0 to 8 percent slopes	0.125
Steel City	Montana	McCone	115.411	115.706	0.295	MT055	Rominell loam, 0 to 8 percent slopes	0.289
Steel City	Montana	McCone	115.706	115.726	0.020	MT055	Absher clay loam, 8 to 15 percent slopes	0.020
Steel City	Montana	McCone	115.726	115.775	0.049	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.049
Steel City	Montana	McCone	115.775	115.879	0.104	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.076
Steel City	Montana	McCone	115.879	115.912	0.033	MT055	Ustic torriorthents-Ustic torrifluvents association	0.005
Steel City	Montana	McCone	115.912	115.957	0.046	MT055	Hillon loam, 2 to 8 percent slopes	0.046
Steel City	Montana	McCone	115.957	116.038	0.081	MT055	Yawdim silty clay, 2 to 8 percent slopes	0.078
Steel City	Montana	McCone	116.038	116.155	0.117	MT055	Kremlin loam, 0 to 4 percent slopes	0.111
Steel City	Montana	McCone	116.155	116.428	0.272	MT055	Rominell loam, 0 to 8 percent slopes	0.267
Steel City	Montana	McCone	116.428	116.586	0.158	MT055	Yawdim-Badland-Gerdrum association	0.098
Steel City	Montana	McCone	116.586	116.819	0.233	MT055	Busby-Yamac-Fleak complex, 15 to 45 percent slopes	0.082
Steel City	Montana	McCone	116.819	116.868	0.049	MT055	Weingart clay, 2 to 8 percent slopes	0.049
Steel City	Montana	McCone	116.868	116.920	0.052	MT055	Badland	0.008
Steel City	Montana	McCone	116.920	116.953	0.033	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.032

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	116.953	117.072	0.119	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.119
Steel City	Montana	McCone	117.072	117.138	0.066	MT055	Hillon loam, 2 to 8 percent slopes	0.066
Steel City	Montana	McCone	117.138	117.353	0.215	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.103
Steel City	Montana	McCone	117.353	117.460	0.107	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.046
Steel City	Montana	McCone	117.460	117.522	0.062	MT055	Telstad-Hillon loams, 2 to 8 percent slopes	0.062
Steel City	Montana	McCone	117.522	117.595	0.073	MT055	Hillon loam, 8 to 15 percent slopes	0.073
Steel City	Montana	McCone	117.595	117.687	0.093	MT055	Thoeny loam, 2 to 8 percent slopes	0.093
Steel City	Montana	McCone	117.687	117.729	0.042	MT055	Yawdim-Kirby complex, 8 to 35 percent slopes	0.025
Steel City	Montana	McCone	117.729	117.928	0.199	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.191
Steel City	Montana	McCone	117.928	117.965	0.037	MT055	Telstad loam, 2 to 8 percent slopes	0.037
Steel City	Montana	McCone	117.965	118.070	0.105	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.101
Steel City	Montana	McCone	118.070	118.112	0.042	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.041
Steel City	Montana	McCone	118.112	118.180	0.068	MT055	Cambeth silt loam, 2 to 8 percent slopes	0.066
Steel City	Montana	McCone	118.180	118.534	0.354	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.340
Steel City	Montana	McCone	118.534	118.615	0.081	MT055	Gerdrum-Yawdim-Fleak complex, 8 to 45 percent slopes	0.057
Steel City	Montana	McCone	118.615	118.725	0.110	MT055	Typic Fluvaquents, saline	0.009
Steel City	Montana	McCone	118.725	118.854	0.129	MT055	Cambeth-Twilight-Cabbart complex, 4 to 15 percent slopes	0.087
Steel City	Montana	McCone	118.854	118.883	0.029	MT055	Yawdim silty clay, 2 to 8 percent slopes	0.028
Steel City	Montana	McCone	118.883	118.906	0.023	MT055	Typic Fluvaquents, saline	0.002
Steel City	Montana	McCone	118.906	119.069	0.163	MT055	Yawdim silty clay, 2 to 8 percent slopes	0.158
Steel City	Montana	McCone	119.069	119.414	0.345	MT055	Gerdrum-Absher clay loams, 0 to 8 percent slopes	0.331
Steel City	Montana	McCone	119.414	119.487	0.073	MT055	Ustic torriorthents-Ustic torrifluvents association	0.011
Steel City	Montana	McCone	119.487	119.542	0.055	MT055	Kremlin loam, 0 to 4 percent slopes	0.052
Steel City	Montana	McCone	119.542	119.609	0.067	MT055	Havre silt loam	0.067
Steel City	Montana	McCone	119.609	119.722	0.113	MT055	Weingart clay, 2 to 8 percent slopes	0.113
Steel City	Montana	McCone	119.722	119.922	0.200	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.200
Steel City	Montana	McCone	119.922	119.964	0.042	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.041
Steel City	Montana	McCone	119.964	120.256	0.292	MT055	Cambeth-Twilight-Cabbart complex, 4 to 15 percent slopes	0.195

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	120.256	120.347	0.091	MT055	Cabbart-Badland complex, 15 to 45 percent slopes	0.047
Steel City	Montana	McCone	120.347	120.410	0.064	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.031
Steel City	Montana	McCone	120.410	120.466	0.056	MT055	Cabbart-Badland complex, 15 to 45 percent slopes	0.029
Steel City	Montana	McCone	120.466	120.492	0.026	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.004
Steel City	Montana	McCone	120.492	120.607	0.115	MT055	Cabbart-Badland complex, 15 to 45 percent slopes	0.060
Steel City	Montana	McCone	120.607	120.662	0.055	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.026
Steel City	Montana	McCone	120.662	120.786	0.125	MT055	Rominell-Yamacall loams, 4 to 15 percent slopes	0.115
Steel City	Montana	McCone	120.786	120.915	0.128	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.062
Steel City	Montana	McCone	120.915	120.932	0.017	MT055	Eapa-Gerdrum complex, 2 to 8 percent slopes	0.017
Steel City	Montana	McCone	120.932	121.005	0.073	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.035
Steel City	Montana	McCone	121.005	121.045	0.040	MT055	Cambeth-Twilight-Cabbart complex, 4 to 15 percent slopes	0.027
Steel City	Montana	McCone	121.045	121.123	0.078	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.078
Steel City	Montana	McCone	121.123	121.166	0.043	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.042
Steel City	Montana	McCone	121.166	121.228	0.062	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.030
Steel City	Montana	McCone	121.228	121.272	0.044	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.043
Steel City	Montana	McCone	121.272	121.406	0.134	MT055	Creed-Gerdrum complex, 0 to 8 percent slopes	0.130
Steel City	Montana	McCone	121.406	121.419	0.013	MT055	Yawdim silty clay, 2 to 8 percent slopes	0.013
Steel City	Montana	McCone	121.419	121.571	0.152	MT055	Busby-Twilight-Fleak complex, 8 to 15 percent slopes	0.012
Steel City	Montana	McCone	121.571	122.400	0.830	MT055	Ethridge silty clay loam, 0 to 4 percent slopes	0.830
Steel City	Montana	McCone	122.400	122.589	0.189	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.189
Steel City	Montana	McCone	122.589	122.698	0.109	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.080
Steel City	Montana	McCone	122.698	122.782	0.084	MT055	Eapa loam, 0 to 2 percent slopes	0.084
Steel City	Montana	McCone	122.782	122.795	0.013	MT055	Floweree silt loam, 0 to 4 percent slopes	0.013
Steel City	Montana	McCone	122.795	122.893	0.098	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.098
Steel City	Montana	McCone	122.893	122.996	0.103	MT055	Rominell-Yamacall loams, 4 to 15 percent slopes	0.095
Steel City	Montana	McCone	122.996	123.051	0.055	MT055	Floweree silt loam, 0 to 4 percent slopes	0.055
Steel City	Montana	McCone	123.051	123.099	0.047	MT055	Marias clay	0.047
Steel City	Montana	McCone	123.099	123.127	0.028	MT055	Floweree silt loam, 0 to 4 percent slopes	0.028

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	123.127	123.221	0.094	MT055	Lonna silty clay loam, 0 to 4 percent slopes	0.094
Steel City	Montana	McCone	123.221	123.226	0.005	MT055	Ethridge silty clay loam, 0 to 4 percent slopes	0.005
Steel City	Montana	McCone	123.226	123.335	0.108	MT055	Alona silt loam, 0 to 8 percent slopes	0.108
Steel City	Montana	McCone	123.335	123.434	0.100	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.073
Steel City	Montana	McCone	123.434	123.566	0.132	MT055	Gerdrum clay loam, 0 to 8 percent slopes	0.132
Steel City	Montana	McCone	123.566	123.644	0.078	MT055	Cambeth silt loam, 2 to 8 percent slopes	0.076
Steel City	Montana	McCone	123.644	123.745	0.101	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.097
Steel City	Montana	McCone	123.745	123.798	0.053	MT055	Yamacall loam, 4 to 8 percent slopes	0.050
Steel City	Montana	McCone	123.798	123.915	0.117	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.112
Steel City	Montana	McCone	123.915	124.073	0.158	MT055	Kremlin loam, 4 to 8 percent slopes	0.154
Steel City	Montana	McCone	124.073	124.167	0.094	MT055	Cambeth-Cabbart silt loams, 8 to 15 percent slopes	0.088
Steel City	Montana	McCone	124.167	124.193	0.027	MT055	Kremlin loam, 4 to 8 percent slopes	0.026
Steel City	Montana	McCone	124.193	124.226	0.033	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.032
Steel City	Montana	McCone	124.226	124.397	0.171	MT055	Kremlin loam, 4 to 8 percent slopes	0.166
Steel City	Montana	McCone	124.397	124.626	0.229	MT055	Cabbart-Yawdim complex, 4 to 15 percent slopes	0.219
Steel City	Montana	McCone	124.626	124.841	0.215	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.210
Steel City	Montana	McCone	124.841	124.913	0.072	MT055	Ustic torriorthents-Ustic torrifluvents association	0.011
Steel City	Montana	McCone	124.913	124.977	0.063	MT055	Floweree silt loam, 0 to 4 percent slopes	0.063
Steel City	Montana	McCone	124.977	125.024	0.047	MT055	Ustic torriorthents-Ustic torrifluvents association	0.007
Steel City	Montana	McCone	125.024	125.180	0.156	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.153
Steel City	Montana	McCone	125.180	125.260	0.080	MT055	Creed loam, 0 to 8 percent slopes	0.079
Steel City	Montana	McCone	125.260	125.314	0.054	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.050
Steel City	Montana	McCone	125.314	125.436	0.122	MT055	Cambeth-Cabbart silt loams, 8 to 15 percent slopes	0.115
Steel City	Montana	McCone	125.436	125.792	0.355	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.348
Steel City	Montana	McCone	125.792	125.897	0.105	MT055	Floweree silt loam, 0 to 4 percent slopes	0.105
Steel City	Montana	McCone	125.897	126.305	0.408	MT055	Cabbart-Twilight complex, 15 to 45 percent slopes	0.196
Steel City	Montana	McCone	126.305	126.436	0.131	MT055	Floweree silt loam, 0 to 4 percent slopes	0.131
Steel City	Montana	McCone	126.436	126.516	0.080	MT055	Lonna-Havre-Glendive complex, 0 to 2 percent slopes	0.058

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	126.516	126.570	0.055	MT055	Ustic torriorthents-Ustic torrifluvents association	0.008
Steel City	Montana	McCone	126.570	126.967	0.397	MT055	Floweree silt loam, 0 to 4 percent slopes	0.397
Steel City	Montana	McCone	126.967	127.160	0.193	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.176
Steel City	Montana	McCone	127.160	127.254	0.094	MT055	Alona silt loam, 0 to 8 percent slopes	0.094
Steel City	Montana	McCone	127.254	127.397	0.143	MT055	Lonna silty clay loam, 0 to 4 percent slopes	0.143
Steel City	Montana	McCone	127.397	127.477	0.080	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.073
Steel City	Montana	McCone	127.477	127.562	0.085	MT055	Floweree silt loam, 0 to 4 percent slopes	0.085
Steel City	Montana	McCone	127.562	127.636	0.073	MT055	Alona silt loam, 0 to 8 percent slopes	0.073
Steel City	Montana	McCone	127.636	127.735	0.099	MT055	Floweree silt loam, 0 to 4 percent slopes	0.099
Steel City	Montana	McCone	127.735	127.815	0.080	MT055	Alona silt loam, 0 to 8 percent slopes	0.080
Steel City	Montana	McCone	127.815	127.859	0.044	MT055	Floweree silt loam, 0 to 4 percent slopes	0.044
Steel City	Montana	McCone	127.859	127.898	0.039	MT055	Cabbart-Badland complex, 15 to 45 percent slopes	0.020
Steel City	Montana	McCone	127.898	128.076	0.178	MT055	Alona silt loam, saline, 0 to 2 percent slopes	0.178
Steel City	Montana	McCone	128.076	128.156	0.080	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.073
Steel City	Montana	McCone	128.156	128.284	0.128	MT055	Kremlin loam, 4 to 8 percent slopes	0.124
Steel City	Montana	McCone	128.284	128.442	0.157	MT055	Floweree silt loam, 0 to 4 percent slopes	0.157
Steel City	Montana	McCone	128.442	128.496	0.055	MT055	Cambeth silt loam, 2 to 8 percent slopes	0.053
Steel City	Montana	McCone	128.496	128.560	0.064	MT055	Cambeth-Twilight-Cabbart complex, 4 to 15 percent slopes	0.043
Steel City	Montana	McCone	128.560	128.590	0.030	MT055	Floweree silt loam, 0 to 4 percent slopes	0.030
Steel City	Montana	McCone	128.590	128.648	0.057	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.052
Steel City	Montana	McCone	128.648	128.648	0.000	MT055	Lonna silty clay loam, 0 to 4 percent slopes	0.000
Steel City	Montana	McCone	128.648	128.829	0.181	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.027
Steel City	Montana	McCone	128.829	128.928	0.099	MT055	Cambeth-Twilight-Cabbart complex, 4 to 15 percent slopes	0.066
Steel City	Montana	McCone	128.928	129.104	0.176	MT055	Alona silt loam, 0 to 8 percent slopes	0.176
Steel City	Montana	McCone	129.104	129.215	0.111	MT055	Cambeth silt loam, 2 to 8 percent slopes	0.107
Steel City	Montana	McCone	129.215	129.272	0.057	MT055	Cabbart-Kirby complex, 8 to 45 percent slopes	0.037
Steel City	Montana	McCone	129.272	129.296	0.023	MT055	Cambeth-Cabbart silt loams, 8 to 15 percent slopes	0.022
Steel City	Montana	McCone	129.296	129.335	0.039	MT055	Cabbart-Kirby complex, 8 to 45 percent slopes	0.025

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	129.335	129.395	0.061	MT055	Cambeth-Cabbart silt loams, 8 to 15 percent slopes	0.057
Steel City	Montana	McCone	129.395	129.406	0.011	MT055	Cabbart-Kirby complex, 8 to 45 percent slopes	0.007
Steel City	Montana	McCone	129.406	129.440	0.034	MT055	Busby-Fleak complex, 15 to 45 percent slopes	0.005
Steel City	Montana	McCone	129.440	129.557	0.117	MT055	Busby fine sandy loam, 2 to 8 percent slopes	0.010
Steel City	Montana	McCone	129.557	129.850	0.293	MT055	Kremlin loam, 4 to 8 percent slopes	0.284
Steel City	Montana	McCone	129.850	129.949	0.099	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.097
Steel City	Montana	McCone	129.949	129.988	0.039	MT055	Cambeth-Cabbart silt loams, 8 to 15 percent slopes	0.036
Steel City	Montana	McCone	129.988	130.256	0.268	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.263
Steel City	Montana	McCone	130.256	130.496	0.241	MT055	Cambeth silt loam, 2 to 8 percent slopes	0.234
Steel City	Montana	McCone	130.496	130.619	0.122	MT055	Floweree silt loam, 4 to 8 percent slopes	0.120
Steel City	Montana	McCone	130.619	130.674	0.055	MT055	Yamacall loam, 4 to 8 percent slopes	0.052
Steel City	Montana	McCone	130.674	130.847	0.173	MT055	Floweree silt loam, 4 to 8 percent slopes	0.170
Steel City	Montana	McCone	130.847	130.902	0.055	MT055	Yamacall-Twilight-Fleak complex, 8 to 15 percent slopes	0.024
Steel City	Montana	McCone	130.902	131.168	0.266	MT055	Floweree silt loam, 0 to 4 percent slopes	0.266
Steel City	Montana	McCone	131.168	131.249	0.081	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.074
Steel City	Montana	McCone	131.249	131.357	0.108	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.106
Steel City	Montana	McCone	131.357	131.477	0.120	MT055	Cambeth-Cabbart silt loams, 8 to 15 percent slopes	0.113
Steel City	Montana	McCone	131.477	131.576	0.099	MT055	Floweree silt loam, 0 to 4 percent slopes	0.099
Steel City	Montana	McCone	131.576	131.633	0.057	MT055	Cabbart silt loam, 15 to 25 percent slopes	0.052
Steel City	Montana	McCone	131.633	131.709	0.075	MT055	Yamacall loam, 4 to 8 percent slopes	0.072
Steel City	Montana	McCone	131.709	131.778	0.069	MT055	Yamacall loam, 8 to 15 percent slopes	0.064
Steel City	Montana	McCone	131.778	131.950	0.172	MT055	Yamacall loam, 4 to 8 percent slopes	0.163
Steel City	Montana	McCone	131.950	132.058	0.109	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.106
Steel City	Montana	McCone	132.058	132.127	0.069	MT055	Yamacall loam, 4 to 8 percent slopes	0.066
Steel City	Montana	McCone	132.127	132.171	0.043	MT055	Floweree-Cambeth silt loams, 2 to 8 percent slopes	0.043
Steel City	Montana	McCone	132.171	132.251	0.080	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.055
Steel City	Montana	McCone	132.251	132.320	0.069	MT055	Shambo-Cambert loams, 2 to 8 percent slopes	0.068
Steel City	Montana	McCone	132.320	132.422	0.102	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.096

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	132.422	132.548	0.126	MT055	Shambo-Cambert loams, 2 to 8 percent slopes	0.123
Steel City	Montana	McCone	132.548	132.678	0.130	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.126
Steel City	Montana	McCone	132.678	132.723	0.045	MT055	Cambert loam, 2 to 8 percent slopes	0.044
Steel City	Montana	McCone	132.723	132.750	0.027	MT055	Cabba loam, 15 to 25 percent slopes	0.025
Steel City	Montana	McCone	132.750	132.855	0.105	MT055	Cambert loam, 2 to 8 percent slopes	0.100
Steel City	Montana	McCone	132.855	133.040	0.185	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.180
Steel City	Montana	McCone	133.040	133.134	0.094	MT055	Cambert loam, 2 to 8 percent slopes	0.090
Steel City	Montana	McCone	133.134	133.748	0.614	MT055	Bryant silt loam, 0 to 4 percent slopes	0.614
Steel City	Montana	McCone	133.748	133.909	0.161	MT055	Cherry silt loam, 0 to 4 percent slopes	0.161
Steel City	Montana	McCone	133.909	133.966	0.057	MT055	Cambert loam, 2 to 8 percent slopes	0.055
Steel City	Montana	McCone	133.966	134.091	0.125	MT055	Bryant silt loam, 0 to 4 percent slopes	0.125
Steel City	Montana	McCone	134.091	134.149	0.058	MT055	Barkof silty clay, 2 to 8 percent slopes	0.055
Steel City	Montana	McCone	134.149	134.425	0.276	MT055	Cambert loam, 2 to 8 percent slopes	0.265
Steel City	Montana	McCone	134.425	134.666	0.241	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.234
Steel City	Montana	McCone	134.666	134.754	0.088	MT055	Bryant silt loam, 0 to 4 percent slopes	0.088
Steel City	Montana	McCone	134.754	134.804	0.050	MT055	Typic Ustorthents-Typic Ustifluvents association	0.006
Steel City	Montana	McCone	134.804	135.051	0.246	MT055	Cambert loam, 2 to 8 percent slopes	0.236
Steel City	Montana	McCone	135.051	135.219	0.169	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.164
Steel City	Montana	McCone	135.219	135.341	0.122	MT055	Cambert loam, 2 to 8 percent slopes	0.117
Steel City	Montana	McCone	135.341	135.393	0.052	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.051
Steel City	Montana	McCone	135.393	135.474	0.081	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.076
Steel City	Montana	McCone	135.474	135.624	0.150	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.146
Steel City	Montana	McCone	135.624	135.644	0.019	MT055	Cambert loam, 2 to 8 percent slopes	0.019
Steel City	Montana	McCone	135.644	135.712	0.068	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.066
Steel City	Montana	McCone	135.712	135.750	0.038	MT055	Bryant silt loam, 0 to 4 percent slopes	0.038
Steel City	Montana	McCone	135.750	135.814	0.063	MT055	Typic Ustorthents-Typic Ustifluvents association	0.007
Steel City	Montana	McCone	135.814	136.104	0.290	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.282
Steel City	Montana	McCone	136.104	136.364	0.260	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.179

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	136.364	136.487	0.123	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.119
Steel City	Montana	McCone	136.487	136.561	0.074	MT055	Bryant silt loam, 0 to 4 percent slopes	0.074
Steel City	Montana	McCone	136.561	136.603	0.042	MT055	Cherry silt loam, 0 to 4 percent slopes	0.042
Steel City	Montana	McCone	136.603	136.669	0.067	MT055	Typic Ustorthents-Typic Ustifluvents association	0.007
Steel City	Montana	McCone	136.669	136.836	0.166	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.161
Steel City	Montana	McCone	136.836	137.027	0.191	MT055	Cambert-Barkof-Cabba complex, 4 to 15 percent slopes	0.184
Steel City	Montana	McCone	137.027	137.195	0.168	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.163
Steel City	Montana	McCone	137.195	137.331	0.136	MT055	Cambert-Barkof-Cabba complex, 4 to 15 percent slopes	0.131
Steel City	Montana	McCone	137.331	137.407	0.076	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.074
Steel City	Montana	McCone	137.407	137.582	0.175	MT055	Cambert loam, 2 to 8 percent slopes	0.168
Steel City	Montana	McCone	137.582	137.630	0.047	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.046
Steel City	Montana	McCone	137.630	137.762	0.132	MT055	Cambert loam, 2 to 8 percent slopes	0.127
Steel City	Montana	McCone	137.762	138.015	0.253	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.245
Steel City	Montana	McCone	138.015	138.390	0.375	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.259
Steel City	Montana	McCone	138.390	138.532	0.142	MT055	Cambert loam, 2 to 8 percent slopes	0.137
Steel City	Montana	McCone	138.532	138.646	0.114	MT055	Cherry silt loam, 0 to 4 percent slopes	0.114
Steel City	Montana	McCone	138.646	138.731	0.085	MT055	Typic Ustorthents-Typic Ustifluvents association	0.009
Steel City	Montana	McCone	138.731	138.798	0.067	MT055	Bryant silt loam, 0 to 4 percent slopes	0.067
Steel City	Montana	McCone	138.798	138.876	0.078	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.054
Steel City	Montana	McCone	138.876	139.010	0.134	MT055	Cherry silt loam, 0 to 4 percent slopes	0.134
Steel City	Montana	McCone	139.010	139.082	0.073	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.050
Steel City	Montana	McCone	139.082	139.139	0.056	MT055	Shambo loam, 0 to 4 percent slopes	0.055
Steel City	Montana	McCone	139.139	139.174	0.035	MT055	Cherry silt loam, 0 to 4 percent slopes	0.035
Steel City	Montana	McCone	139.174	139.230	0.056	MT055	Typic Ustorthents-Typic Ustifluvents association	0.006
Steel City	Montana	McCone	139.230	139.246	0.017	MT055	Cherry silt loam, 0 to 4 percent slopes	0.017
Steel City	Montana	McCone	139.246	139.438	0.192	MT055	Cambert loam, 2 to 8 percent slopes	0.184
Steel City	Montana	McCone	139.438	139.593	0.154	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.145
Steel City	Montana	McCone	139.593	139.680	0.087	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.085

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	139.680	139.734	0.053	MT055	Bryant silt loam, 0 to 4 percent slopes	0.053
Steel City	Montana	McCone	139.734	139.781	0.048	MT055	Typic Ustorthents-Typic Ustifluvents association	0.005
Steel City	Montana	McCone	139.781	139.932	0.150	MT055	Cambert loam, 2 to 8 percent slopes	0.144
Steel City	Montana	McCone	139.932	140.041	0.109	MT055	Dast-Blanchard complex, 2 to 8 percent slopes	0.007
Steel City	Montana	McCone	140.041	140.089	0.048	MT055	Dast fine sandy loam, 8 to 15 percent slopes	0.003
Steel City	Montana	McCone	140.089	140.137	0.048	MT055	Bryant silt loam, 0 to 4 percent slopes	0.048
Steel City	Montana	McCone	140.137	140.250	0.114	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.107
Steel City	Montana	McCone	140.250	140.326	0.075	MT055	Bryant silt loam, 0 to 4 percent slopes	0.075
Steel City	Montana	McCone	140.326	140.431	0.105	MT055	Cambert loam, 2 to 8 percent slopes	0.101
Steel City	Montana	McCone	140.431	140.612	0.182	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.125
Steel City	Montana	McCone	140.612	140.723	0.111	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.108
Steel City	Montana	McCone	140.723	140.755	0.032	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.030
Steel City	Montana	McCone	140.755	140.785	0.030	MT055	Cambert loam, 2 to 8 percent slopes	0.029
Steel City	Montana	McCone	140.785	140.809	0.024	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.023
Steel City	Montana	McCone	140.809	140.856	0.047	MT055	Cambert loam, 2 to 8 percent slopes	0.045
Steel City	Montana	McCone	140.856	140.978	0.122	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.115
Steel City	Montana	McCone	140.978	141.105	0.128	MT055	Cambert loam, 2 to 8 percent slopes	0.123
Steel City	Montana	McCone	141.105	141.277	0.171	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.118
Steel City	Montana	McCone	141.277	141.385	0.108	MT055	Cambert loam, 2 to 8 percent slopes	0.104
Steel City	Montana	McCone	141.385	141.662	0.277	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.261
Steel City	Montana	McCone	141.662	141.686	0.025	MT055	Cambert loam, 2 to 8 percent slopes	0.024
Steel City	Montana	McCone	141.686	141.868	0.182	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.171
Steel City	Montana	McCone	141.868	142.584	0.716	MT055	Cambert loam, 2 to 8 percent slopes	0.687
Steel City	Montana	McCone	142.584	142.741	0.157	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.152
Steel City	Montana	McCone	142.741	142.795	0.054	MT055	Cambert loam, 2 to 8 percent slopes	0.052
Steel City	Montana	McCone	142.795	142.851	0.056	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.054
Steel City	Montana	McCone	142.851	143.207	0.356	MT055	Cambert loam, 2 to 8 percent slopes	0.342
Steel City	Montana	McCone	143.207	143.272	0.065	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.061

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	143.272	143.318	0.046	MT055	Cambert loam, 2 to 8 percent slopes	0.044
Steel City	Montana	McCone	143.318	143.404	0.086	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.081
Steel City	Montana	McCone	143.404	143.834	0.430	MT055	Cambert loam, 2 to 8 percent slopes	0.413
Steel City	Montana	McCone	143.834	143.913	0.079	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.074
Steel City	Montana	McCone	143.913	144.063	0.150	MT055	Cambert loam, 2 to 8 percent slopes	0.144
Steel City	Montana	McCone	144.063	144.247	0.184	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.179
Steel City	Montana	McCone	144.247	144.299	0.052	MT055	Cambert loam, 2 to 8 percent slopes	0.049
Steel City	Montana	McCone	144.299	144.383	0.085	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.080
Steel City	Montana	McCone	144.383	144.416	0.033	MT055	Cambert loam, 2 to 8 percent slopes	0.031
Steel City	Montana	McCone	144.416	144.718	0.302	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.293
Steel City	Montana	McCone	144.718	145.072	0.354	MT055	Cambert loam, 2 to 8 percent slopes	0.340
Steel City	Montana	McCone	145.072	145.146	0.074	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.052
Steel City	Montana	McCone	145.146	145.362	0.216	MT055	Cherry silt loam, 0 to 4 percent slopes	0.216
Steel City	Montana	McCone	145.362	145.436	0.073	MT055	Cambert loam, 2 to 8 percent slopes	0.071
Steel City	Montana	McCone	145.436	145.449	0.013	MT055	Cherry silt loam, 0 to 4 percent slopes	0.013
Steel City	Montana	McCone	145.449	145.579	0.130	MT055	Cambert loam, 2 to 8 percent slopes	0.125
Steel City	Montana	McCone	145.579	145.817	0.238	MT055	Cherry silt loam, 0 to 4 percent slopes	0.238
Steel City	Montana	McCone	145.817	145.969	0.152	MT055	Cambert loam, 2 to 8 percent slopes	0.146
Steel City	Montana	McCone	145.969	146.064	0.095	MT055	Cabba-Wabek-Dast complex, 15 to 45 percent slopes	0.047
Steel City	Montana	McCone	146.064	146.213	0.148	MT055	Cambert loam, 2 to 8 percent slopes	0.143
Steel City	Montana	McCone	146.213	146.408	0.195	MT055	Cabba-Wabek-Dast complex, 15 to 45 percent slopes	0.098
Steel City	Montana	McCone	146.408	146.531	0.124	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.116
Steel City	Montana	McCone	146.531	146.595	0.063	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.044
Steel City	Montana	McCone	146.595	146.701	0.107	MT055	Havrelon loam	0.102
Steel City	Montana	McCone	146.701	146.915	0.213	MT055	Trembles fine sandy loam	0.030
Steel City	Montana	McCone	146.915	146.984	0.069	MT055	Typic Fluvaquents, frequently flooded	0.001
Steel City	Montana	McCone	146.984	147.007	0.022	MT055	Trembles fine sandy loam	0.003
Steel City	Montana	McCone	147.007	147.499	0.492	MT055	Cherry silt loam, 0 to 4 percent slopes	0.492

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	147.499	147.542	0.043	MT055	Bryant silt loam, 0 to 4 percent slopes	0.043
Steel City	Montana	McCone	147.542	148.118	0.576	MT055	Cambert loam, 2 to 8 percent slopes	0.553
Steel City	Montana	McCone	148.118	148.299	0.181	MT055	Cherry silt loam, 0 to 4 percent slopes	0.181
Steel City	Montana	McCone	148.299	148.431	0.132	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.092
Steel City	Montana	McCone	148.431	148.729	0.298	MT055	Cherry silt loam, 0 to 4 percent slopes	0.298
Steel City	Montana	McCone	148.729	148.783	0.054	MT055	Typic Ustorthents-Typic Ustifluvents association	0.006
Steel City	Montana	McCone	148.783	148.937	0.154	MT055	Bryant silt loam, 0 to 4 percent slopes	0.154
Steel City	Montana	McCone	148.937	149.050	0.113	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.106
Steel City	Montana	McCone	149.050	149.192	0.142	MT055	Bryant silt loam, 0 to 4 percent slopes	0.142
Steel City	Montana	McCone	149.192	149.301	0.109	MT055	Cambert loam, 2 to 8 percent slopes	0.105
Steel City	Montana	McCone	149.301	149.528	0.226	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.156
Steel City	Montana	McCone	149.528	149.644	0.116	MT055	Cherry silt loam, 0 to 4 percent slopes	0.116
Steel City	Montana	McCone	149.644	149.732	0.088	MT055	Cambert loam, 2 to 8 percent slopes	0.085
Steel City	Montana	McCone	149.732	149.927	0.195	MT055	Macar loam, 4 to 8 percent slopes	0.187
Steel City	Montana	McCone	149.927	150.093	0.166	MT055	Cabba-Wabek-Dast complex, 15 to 45 percent slopes	0.083
Steel City	Montana	McCone	150.093	150.148	0.055	MT055	Shambo loam, 4 to 8 percent slopes	0.054
Steel City	Montana	McCone	150.148	150.266	0.118	MT055	Bryant silt loam, 0 to 4 percent slopes	0.118
Steel City	Montana	McCone	150.266	150.339	0.073	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.051
Steel City	Montana	McCone	150.339	150.566	0.228	MT055	Bryant silt loam, 0 to 4 percent slopes	0.228
Steel City	Montana	McCone	150.566	150.830	0.264	MT055	Shambo loam, 4 to 8 percent slopes	0.258
Steel City	Montana	McCone	150.830	150.864	0.034	MT055	Cambert-Dast-Cabba complex, 4 to 15 percent slopes	0.024
Steel City	Montana	McCone	150.864	150.866	0.002	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.001
Steel City	Montana	McCone	150.866	150.946	0.079	MT055	Typic Fluvaquents, saline	0.006
Steel City	Montana	McCone	150.946	151.233	0.287	MT055	Cherry silt loam, 0 to 4 percent slopes	0.287
Steel City	Montana	McCone	151.233	151.409	0.176	MT055	Cambert loam, 2 to 8 percent slopes	0.169
Steel City	Montana	McCone	151.409	151.692	0.284	MT055	Cherry silt loam, 0 to 4 percent slopes	0.284
Steel City	Montana	McCone	151.692	151.736	0.044	MT055	Typic Ustorthents-Typic Ustifluvents association	0.005
Steel City	Montana	McCone	151.736	152.140	0.404	MT055	Cherry silt loam, 0 to 4 percent slopes	0.404

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	McCone	152.140	152.202	0.062	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.044
Steel City	Montana	McCone	152.202	152.410	0.208	MT055	Cherry silt loam, 0 to 4 percent slopes	0.208
Steel City	Montana	McCone	152.410	152.677	0.267	MT055	Macar loam, 4 to 8 percent slopes	0.256
Steel City	Montana	McCone	152.677	152.703	0.026	MT055	Cherry silt loam, 0 to 4 percent slopes	0.026
Steel City	Montana	McCone	152.703	152.774	0.071	MT055	Macar loam, 4 to 8 percent slopes	0.068
Steel City	Montana	McCone	152.774	152.811	0.037	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.035
Steel City	Montana	McCone	152.811	152.865	0.054	MT055	Macar-Cambert loams, 2 to 8 percent slopes	0.051
Steel City	Montana	McCone	152.865	153.269	0.404	MT055	Cambert loam, 2 to 8 percent slopes	0.388
Steel City	Montana	McCone	153.269	153.517	0.247	MT055	Cherry silt loam, 0 to 4 percent slopes	0.247
Steel City	Montana	McCone	153.517	153.573	0.056	MT055	Cabba-Wabek-Dast complex, 15 to 45 percent slopes	0.028
Steel City	Montana	McCone	153.573	153.602	0.029	MT055	Subwell-Littlemo loams, 0 to 4 percent slopes	0.016
Steel City	Montana	McCone	153.602	153.654	0.053	MT055	Cabba-Wabek-Dast complex, 15 to 45 percent slopes	0.026
Steel City	Montana	McCone	153.654	153.700	0.046	MT055	Cherry-Havrelon-Trembles complex, 0 to 2 percent slopes	0.032
Steel City	Montana	McCone	153.700	153.725	0.025	MT055	Cabba-Badland complex, 15 to 45 percent slopes	0.012
Steel City	Montana	McCone	153.725	154.432	0.707	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.664
Steel City	Montana	McCone	154.432	154.584	0.152	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.147
Steel City	Montana	McCone	154.584	154.746	0.162	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.152
Steel City	Montana	McCone	154.746	154.890	0.144	MT055	Bryant-Cambert complex, 2 to 8 percent slopes	0.140
Steel City	Montana	McCone	154.890	155.198	0.308	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.289
Steel City	Montana	McCone	155.198	155.362	0.164	MT055	Cabba-Barkof complex, 15 to 45 percent slopes	0.143
Steel City	Montana	McCone	155.362	155.479	0.117	MT055	Cambert-Cabba loams, 8 to 15 percent slopes	0.110
Steel City	Montana	McCone	155.479	155.515	0.037	MT055	Shambo-Cambert loams, 2 to 8 percent slopes	0.036
Steel City	Montana	McCone	155.515	156.022	0.507	MT055	Cabba-Barkof complex, 15 to 45 percent slopes	0.441
Steel City	Montana	McCone	156.022	156.436	0.414	MT055	Macar loam, 4 to 8 percent slopes	0.397
Steel City	Montana	McCone	156.436	156.650	0.214	MT055	Dast-Blanchard complex, 8 to 25 percent slopes	0.017
Steel City	Montana	McCone	156.650	156.715	0.065	MT055	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.062
Steel City	Montana	McCone	156.715	156.739	0.025	MT055	Cabba-Dast complex, 15 to 45 percent slopes	0.013
Steel City	Montana	Dawson	156.739	156.815	0.076	MT021	Lambert-Yetull complex, 15 to 65 percent slopes	0.042

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	156.815	157.006	0.190	MT021	Twilight-Yetull complex, 8 to 25 percent slopes	0.004
Steel City	Montana	Dawson	157.006	157.120	0.115	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.077
Steel City	Montana	Dawson	157.140	157.269	0.129	MT021	Attewan loam, 2 to 4 percent slopes	0.123
Steel City	Montana	Dawson	157.269	157.306	0.037	MT021	Kremlin loam, 4 to 8 percent slopes	0.037
Steel City	Montana	Dawson	157.306	157.364	0.058	MT021	Attewan loam, 2 to 4 percent slopes	0.055
Steel City	Montana	Dawson	157.364	157.867	0.503	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.478
Steel City	Montana	Dawson	157.867	158.040	0.173	MT021	Chinook fine sandy loam, 4 to 8 percent slopes	0.012
Steel City	Montana	Dawson	158.040	158.109	0.070	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.066
Steel City	Montana	Dawson	158.109	158.273	0.163	MT021	Twilight-Yetull complex, 2 to 8 percent slopes	0.003
Steel City	Montana	Dawson	158.273	158.359	0.086	MT021	Twilight-Yetull complex, 8 to 25 percent slopes	0.002
Steel City	Montana	Dawson	158.359	158.656	0.297	MT021	Attewan loams, 4 to 8 percent slopes	0.276
Steel City	Montana	Dawson	158.656	158.915	0.259	MT021	Lambert-Yetull complex, 15 to 65 percent slopes	0.142
Steel City	Montana	Dawson	158.915	159.031	0.116	MT021	Chinook fine sandy loam, 4 to 8 percent slopes	0.008
Steel City	Montana	Dawson	159.031	159.119	0.088	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.086
Steel City	Montana	Dawson	159.119	159.290	0.171	MT021	Lonna silt loam, 2 to 4 percent slopes	0.171
Steel City	Montana	Dawson	159.290	159.418	0.127	MT021	Lambert-Rock outcrop, soft complex, 15 to 70 percent slopes	0.073
Steel City	Montana	Dawson	159.418	159.579	0.161	MT021	Twilight-Yetull complex, 8 to 25 percent slopes	0.003
Steel City	Montana	Dawson	159.579	159.598	0.019	MT021	Lambert-Rock outcrop, soft complex, 15 to 70 percent slopes	0.011
Steel City	Montana	Dawson	159.598	159.653	0.055	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.037
Steel City	Montana	Dawson	159.653	159.700	0.048	MT021	Lambert-Rock outcrop, soft complex, 15 to 70 percent slopes	0.027
Steel City	Montana	Dawson	159.700	160.041	0.341	MT021	Twilight-Yetull complex, 2 to 8 percent slopes	0.007
Steel City	Montana	Dawson	160.041	160.099	0.058	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.039
Steel City	Montana	Dawson	160.099	160.542	0.443	MT021	Lonna silt loam, 2 to 4 percent slopes	0.443
Steel City	Montana	Dawson	160.542	160.599	0.057	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.054
Steel City	Montana	Dawson	160.599	160.690	0.091	MT021	Lambert-Dimyaw complex, 15 to 65 percent slopes	0.080

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	160.690	160.893	0.203	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.193
Steel City	Montana	Dawson	160.893	161.048	0.155	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.147
Steel City	Montana	Dawson	161.048	161.367	0.318	MT021	Lambert-Dimyaw complex, 15 to 65 percent slopes	0.280
Steel City	Montana	Dawson	161.367	161.453	0.086	MT021	Lambert-Rock outcrop, soft complex, 15 to 70 percent slopes	0.049
Steel City	Montana	Dawson	161.453	161.482	0.029	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.028
Steel City	Montana	Dawson	161.482	161.517	0.035	MT021	Lambert-Rock outcrop, soft complex, 15 to 70 percent slopes	0.020
Steel City	Montana	Dawson	161.517	161.653	0.136	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.129
Steel City	Montana	Dawson	161.653	161.745	0.092	MT021	Kremlin loam, 2 to 4 percent slopes	0.092
Steel City	Montana	Dawson	161.745	162.019	0.274	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.260
Steel City	Montana	Dawson	162.019	162.106	0.087	MT021	Lambert-Dimyaw complex, 15 to 65 percent slopes	0.077
Steel City	Montana	Dawson	162.106	162.349	0.243	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.231
Steel City	Montana	Dawson	162.349	162.473	0.124	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.120
Steel City	Montana	Dawson	162.473	162.721	0.248	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.236
Steel City	Montana	Dawson	162.721	162.848	0.127	MT021	Attewan loam, 4 to 8 percent slopes	0.119
Steel City	Montana	Dawson	162.848	163.039	0.191	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.181
Steel City	Montana	Dawson	163.039	163.168	0.129	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.125
Steel City	Montana	Dawson	163.168	163.433	0.265	MT021	Attewan loam, 2 to 4 percent slopes	0.255
Steel City	Montana	Dawson	163.433	163.501	0.068	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.066
Steel City	Montana	Dawson	163.501	163.578	0.078	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.052
Steel City	Montana	Dawson	163.578	163.610	0.031	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.030
Steel City	Montana	Dawson	163.610	163.713	0.103	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.098
Steel City	Montana	Dawson	163.713	163.881	0.169	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.164
Steel City	Montana	Dawson	163.881	163.986	0.105	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.100
Steel City	Montana	Dawson	163.986	164.289	0.302	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.287
Steel City	Montana	Dawson	164.289	164.651	0.362	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.344
Steel City	Montana	Dawson	164.651	164.782	0.131	MT021	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.122
Steel City	Montana	Dawson	164.782	164.874	0.093	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.088

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	164.874	164.936	0.062	MT021	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.057
Steel City	Montana	Dawson	164.936	165.586	0.650	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.618
Steel City	Montana	Dawson	165.586	165.663	0.077	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.073
Steel City	Montana	Dawson	165.663	166.153	0.490	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.465
Steel City	Montana	Dawson	166.153	166.498	0.345	MT021	Subwell-Littlemo loams, 0 to 4 percent slopes	0.190
Steel City	Montana	Dawson	166.498	166.732	0.234	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.157
Steel City	Montana	Dawson	166.732	166.759	0.026	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.025
Steel City	Montana	Dawson	166.759	166.808	0.050	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.033
Steel City	Montana	Dawson	166.808	167.079	0.271	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.258
Steel City	Montana	Dawson	167.079	168.191	1.112	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	1.056
Steel City	Montana	Dawson	168.191	168.838	0.647	MT021	Lonna silt loam, 2 to 4 percent slopes	0.647
Steel City	Montana	Dawson	168.838	169.100	0.263	MT021	Subwell-Bigsheep complex, 4 to 15 percent slopes	0.131
Steel City	Montana	Dawson	169.100	169.182	0.081	MT021	Subwell-Littlemo loams, 0 to 4 percent slopes	0.045
Steel City	Montana	Dawson	169.182	169.464	0.283	MT021	Lonna silt loam, 2 to 4 percent slopes	0.283
Steel City	Montana	Dawson	169.464	169.666	0.202	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.192
Steel City	Montana	Dawson	169.666	169.820	0.154	MT021	Kremlin loam, 2 to 4 percent slopes	0.154
Steel City	Montana	Dawson	169.820	170.186	0.366	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.347
Steel City	Montana	Dawson	170.186	170.228	0.042	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.040
Steel City	Montana	Dawson	170.228	170.268	0.039	MT021	Kremlin loam, 2 to 4 percent slopes	0.039
Steel City	Montana	Dawson	170.268	170.425	0.157	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.149
Steel City	Montana	Dawson	170.425	171.642	1.217	MT021	Lonna silt loam, 2 to 4 percent slopes	1.217
Steel City	Montana	Dawson	171.642	171.731	0.089	MT021	Lonna silt loam, 0 to 2 percent slopes	0.089
Steel City	Montana	Dawson	171.731	172.615	0.885	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.840
Steel City	Montana	Dawson	172.615	172.803	0.187	MT021	Lonna silt loam, 2 to 4 percent slopes	0.187
Steel City	Montana	Dawson	172.803	173.040	0.238	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.226
Steel City	Montana	Dawson	173.040	173.144	0.104	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.099

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	173.144	174.623	1.479	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	1.405
Steel City	Montana	Dawson	174.623	174.673	0.051	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.048
Steel City	Montana	Dawson	174.673	174.695	0.021	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.020
Steel City	Montana	Dawson	174.695	174.744	0.050	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.047
Steel City	Montana	Dawson	174.744	174.826	0.082	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.078
Steel City	Montana	Dawson	174.826	174.980	0.154	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.146
Steel City	Montana	Dawson	174.980	175.200	0.220	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.209
Steel City	Montana	Dawson	175.200	175.539	0.339	MT021	Lonna silt loam, 2 to 4 percent slopes	0.339
Steel City	Montana	Dawson	175.539	175.579	0.039	MT021	Lonna silt loam, 0 to 2 percent slopes	0.039
Steel City	Montana	Dawson	175.579	175.757	0.179	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.120
Steel City	Montana	Dawson	175.757	175.995	0.238	MT021	Lonna silt loam, 0 to 2 percent slopes	0.238
Steel City	Montana	Dawson	175.995	176.014	0.019	MT021	Lonna silt loam, 2 to 4 percent slopes	0.019
Steel City	Montana	Dawson	176.014	176.020	0.006	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.004
Steel City	Montana	Dawson	176.020	176.169	0.149	MT021	Lonna silt loam, 2 to 4 percent slopes	0.149
Steel City	Montana	Dawson	176.169	176.594	0.425	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.404
Steel City	Montana	Dawson	176.594	176.785	0.191	MT021	Lonna silt loam, 2 to 4 percent slopes	0.191
Steel City	Montana	Dawson	176.785	176.816	0.030	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.029
Steel City	Montana	Dawson	176.816	176.876	0.061	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.058
Steel City	Montana	Dawson	176.876	177.292	0.416	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.395
Steel City	Montana	Dawson	177.292	177.630	0.339	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.322
Steel City	Montana	Dawson	177.630	177.731	0.101	MT021	Lambert-Rock outcrop, soft complex, 15 to 70 percent slopes	0.058
Steel City	Montana	Dawson	177.731	177.941	0.209	MT021	Lonna silt loam, 0 to 2 percent slopes	0.209
Steel City	Montana	Dawson	177.941	177.994	0.054	MT021	Lonna silt loam, 2 to 4 percent slopes	0.054
Steel City	Montana	Dawson	177.994	178.288	0.294	MT021	Lonna silt loam, 0 to 2 percent slopes	0.294
Steel City	Montana	Dawson	178.288	178.455	0.167	MT021	Lonna silt loam, 2 to 4 percent slopes	0.167
Steel City	Montana	Dawson	178.455	178.538	0.083	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.079

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	178.538	178.812	0.274	MT021	Lonna silt loam, 2 to 4 percent slopes	0.274
Steel City	Montana	Dawson	178.812	179.321	0.509	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.483
Steel City	Montana	Dawson	179.321	179.355	0.034	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.032
Steel City	Montana	Dawson	179.355	179.426	0.071	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.069
Steel City	Montana	Dawson	179.426	179.454	0.028	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.026
Steel City	Montana	Dawson	179.454	180.038	0.584	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.566
Steel City	Montana	Dawson	180.038	180.396	0.358	MT021	Lonna silt loam, 2 to 4 percent slopes	0.358
Steel City	Montana	Dawson	180.396	180.487	0.091	MT021	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.086
Steel City	Montana	Dawson	180.487	180.695	0.208	MT021	Lonna silt loam, 2 to 4 percent slopes	0.208
Steel City	Montana	Dawson	180.695	180.990	0.295	MT021	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.280
Steel City	Montana	Dawson	180.990	181.337	0.346	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.336
Steel City	Montana	Dawson	181.337	181.971	0.635	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.254
Steel City	Montana	Dawson	181.971	181.983	0.012	MT021	Kremlin loam, 4 to 8 percent slopes	0.011
Steel City	Montana	Dawson	181.983	182.455	0.472	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.189
Steel City	Montana	Dawson	182.455	182.574	0.119	MT021	Kremlin loam, 4 to 8 percent slopes	0.116
Steel City	Montana	Dawson	182.574	182.588	0.014	MT021	Kremlin-Eapa loams, 0 to 4 percent slopes	0.014
Steel City	Montana	Dawson	182.588	182.740	0.152	MT021	Kremlin loam, 4 to 8 percent slopes	0.149
Steel City	Montana	Dawson	182.740	184.871	2.131	MT021	Kremlin-Eapa loams, 0 to 4 percent slopes	2.131
Steel City	Montana	Dawson	184.871	185.011	0.140	MT021	Attewan loam, 2 to 4 percent slopes	0.134
Steel City	Montana	Dawson	185.011	185.475	0.464	MT021	Attewan complex, 4 to 15 percent slopes	0.441
Steel City	Montana	Dawson	185.475	185.933	0.459	MT021	Subwell-Bigsheep complex, 4 to 15 percent slopes	0.229
Steel City	Montana	Dawson	185.933	186.077	0.144	MT021	Subwell-Littlemo loams, 0 to 4 percent slopes	0.079
Steel City	Montana	Dawson	186.077	186.200	0.123	MT021	Subwell-Bigsheep complex, 4 to 15 percent slopes	0.061
Steel City	Montana	Dawson	186.200	186.376	0.176	MT021	Subwell-Littlemo loams, 0 to 4 percent slopes	0.097
Steel City	Montana	Dawson	186.376	186.625	0.249	MT021	Kremlin loam, 4 to 8 percent slopes	0.244
Steel City	Montana	Dawson	186.625	187.425	0.800	MT021	Subwell-Littlemo loams, 0 to 4 percent slopes	0.440
Steel City	Montana	Dawson	187.425	187.588	0.163	MT021	Attewan loam, 2 to 4 percent slopes	0.156
Steel City	Montana	Dawson	187.588	187.646	0.058	MT021	Subwell-Littlemo loams, 0 to 4 percent slopes	0.032

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	187.646	187.712	0.066	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.027
Steel City	Montana	Dawson	187.712	188.082	0.369	MT021	Attewan loam, 2 to 4 percent slopes	0.355
Steel City	Montana	Dawson	188.082	188.192	0.110	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.044
Steel City	Montana	Dawson	188.192	188.236	0.043	MT021	Attewan loams, 4 to 8 percent slopes	0.040
Steel City	Montana	Dawson	188.236	188.442	0.206	MT021	Attewan loams, 2 to 4 percent slopes	0.200
Steel City	Montana	Dawson	188.442	188.570	0.128	MT021	Lonna, Havre, and Glendive soils, 0 to 4 percent slopes, occasionally flooded	0.086
Steel City	Montana	Dawson	188.570	188.637	0.067	MT021	Attewan loams, 2 to 4 percent slopes	0.065
Steel City	Montana	Dawson	188.637	188.711	0.074	MT021	Kremlin loam, 4 to 8 percent slopes	0.073
Steel City	Montana	Dawson	188.711	188.820	0.109	MT021	Attewan loams, 2 to 4 percent slopes	0.106
Steel City	Montana	Dawson	188.820	188.887	0.066	MT021	Attewan loams, 4 to 8 percent slopes	0.062
Steel City	Montana	Dawson	188.887	189.215	0.328	MT021	Kremlin-Eapa loams, 0 to 4 percent slopes	0.328
Steel City	Montana	Dawson	189.215	189.537	0.322	MT021	Attewan loam, 2 to 4 percent slopes	0.309
Steel City	Montana	Dawson	189.537	189.555	0.018	MT021	Attewan loams, 2 to 4 percent slopes	0.017
Steel City	Montana	Dawson	189.555	189.665	0.110	MT021	Attewan loams, 4 to 8 percent slopes	0.102
Steel City	Montana	Dawson	189.665	189.778	0.113	MT021	Kremlin-Eapa loams, 0 to 4 percent slopes	0.113
Steel City	Montana	Dawson	189.778	189.832	0.054	MT021	Attewan loams, 4 to 8 percent slopes	0.051
Steel City	Montana	Dawson	189.832	189.982	0.150	MT021	Kremlin-Eapa loams, 0 to 4 percent slopes	0.150
Steel City	Montana	Dawson	189.982	190.161	0.179	MT021	Attewan loams, 4 to 8 percent slopes	0.166
Steel City	Montana	Dawson	190.161	190.204	0.043	MT021	Attewan loams, 2 to 4 percent slopes	0.042
Steel City	Montana	Dawson	190.204	190.285	0.081	MT021	Attewan loams, 4 to 8 percent slopes	0.076
Steel City	Montana	Dawson	190.285	190.316	0.030	MT021	Attewan loams, 2 to 4 percent slopes	0.030
Steel City	Montana	Dawson	190.316	190.675	0.359	MT021	Attewan loam, 2 to 4 percent slopes	0.345
Steel City	Montana	Dawson	190.675	191.234	0.559	MT021	Chinook fine sandy loam, 0 to 4 percent slopes	0.056
Steel City	Montana	Dawson	191.234	191.778	0.545	MT021	Kremlin loam, 4 to 8 percent slopes	0.534
Steel City	Montana	Dawson	191.778	192.410	0.632	MT021	Attewan loam, 2 to 4 percent slopes	0.606
Steel City	Montana	Dawson	192.410	193.022	0.612	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.245
Steel City	Montana	Dawson	193.022	193.138	0.116	MT021	Lambert-Yetull complex, 15 to 65 percent slopes	0.064

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Dawson	193.138	193.216	0.078	MT021	Twilight-Yetull complex, 8 to 25 percent slopes	0.002
Steel City	Montana	Dawson	193.216	193.221	0.005	MT021	Lambert-Yetull complex, 15 to 65 percent slopes	0.003
Steel City	Montana	Dawson	193.221	193.270	0.049	MT021	Twilight-Yetull complex, 8 to 25 percent slopes	0.001
Steel City	Montana	Dawson	193.270	193.317	0.047	MT021	Lambert-Yetull complex, 15 to 65 percent slopes	0.026
Steel City	Montana	Dawson	193.317	193.528	0.212	MT021	Twilight-Yetull complex, 8 to 25 percent slopes	0.004
Steel City	Montana	Dawson	193.528	193.578	0.049	MT021	Lambert-Yetull complex, 15 to 65 percent slopes	0.027
Steel City	Montana	Dawson	193.578	193.945	0.367	MT021	Twilight-Yetull complex, 2 to 8 percent slopes	0.007
Steel City	Montana	Dawson	193.945	194.030	0.085	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.034
Steel City	Montana	Dawson	194.030	194.035	0.005	MT021	Glendive loam, 0 to 2 percent slopes, occasionally flooded	0.001
Steel City	Montana	Dawson	194.035	194.625	0.590	MT021	Lonna silt loam, 0 to 2 percent slopes	0.590
Steel City	Montana	Dawson	194.625	194.633	0.008	MT021	Glendive loam, 0 to 2 percent slopes, occasionally flooded	0.001
Steel City	Montana	Dawson	194.633	194.923	0.290	MT021	Glendive fine sandy loam, 0 to 2 percent slopes, occasionally flooded	0.032
Steel City	Montana	Dawson	194.923	195.025	0.102	MT021	Lambert gravelly loam, 20 to 40 percent slopes	0.099
Steel City	Montana	Dawson	195.123	195.358	0.236	MT021	Saline land	0.236
Steel City	Montana	Dawson	195.358	195.384	0.026	MT021	Havre silt loam, 0 to 2 percent slopes	0.025
Steel City	Montana	Dawson	195.384	195.673	0.289	MT021	Glendive loam, 0 to 2 percent slopes, occasionally flooded	0.043
Steel City	Montana	Dawson	195.673	196.014	0.341	MT021	Havre silt loam, 0 to 2 percent slopes	0.331
Steel City	Montana	Dawson	196.014	196.054	0.040	MT021	Hanly soils, 0 to 4 percent slopes, occasionally flooded	0.002
Steel City	Montana	Dawson	196.054	196.092	0.038	MT021	Glendive loam, 0 to 2 percent slopes, occasionally flooded	0.006
Steel City	Montana	Dawson	196.092	196.281	0.189	MT021	Hanly soils, 0 to 4 percent slopes, occasionally flooded	0.008
Steel City	Montana	Dawson	196.424	196.704	0.280	MT021	Lambert-Dimyaw complex, 15 to 65 percent slopes	0.247
Steel City	Montana	Dawson	196.704	196.844	0.140	MT021	Lonna silt loam, 2 to 8 percent slopes	0.138
Steel City	Montana	Dawson	196.844	197.130	0.286	MT021	Lambert-Dimyaw complex, 15 to 65 percent slopes	0.251
Steel City	Montana	Dawson	197.130	197.479	0.349	MT021	Tinsley-Lambert complex, 15 to 65 percent slopes	0.140
Steel City	Montana	Prairie	197.479	197.613	0.134	MT079	Lihen-Tinsley complex, 8 to 35 percent slopes	0.013
Steel City	Montana	Prairie	197.851	197.875	0.024	MT079	Degrand loam, 0 to 4 percent slopes	0.021
Steel City	Montana	Prairie	198.753	199.802	1.049	MT079	Degrand loam, 0 to 4 percent slopes	0.944

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Prairie	199.919	200.077	0.159	MT079	Lihen-Tinsley complex, 8 to 35 percent slopes	0.016
Steel City	Montana	Prairie	200.077	200.314	0.236	MT079	Busby-Twilight-Blackhall fine sandy loams, 4 to 15 percent slopes	0.012
Steel City	Montana	Prairie	200.314	200.869	0.555	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.527
Steel City	Montana	Prairie	200.902	201.382	0.480	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.456
Steel City	Montana	Prairie	201.489	201.747	0.258	MT079	Evanston loam, 0 to 2 percent slopes	0.258
Steel City	Montana	Prairie	201.747	201.880	0.133	MT079	Lonna silt loam, 2 to 8 percent slopes	0.130
Steel City	Montana	Prairie	201.880	201.953	0.073	MT079	Glendive fine sandy loam, 0 to 2 percent slopes	0.006
Steel City	Montana	Prairie	201.953	202.108	0.156	MT079	Busby-Blackhall-Twilight fine sandy loams, 8 to 25 percent slopes	0.006
Steel City	Montana	Prairie	202.108	202.167	0.058	MT079	Blackhall-Busby-Rock outcrop complex, 8 to 45 percent slopes	0.004
Steel City	Montana	Prairie	202.167	202.538	0.371	MT079	Busby fine sandy loam, 2 to 8 percent slopes	0.019
Steel City	Montana	Prairie	202.538	202.602	0.064	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.060
Steel City	Montana	Prairie	202.602	202.724	0.122	MT079	Lonna silt loam, 2 to 8 percent slopes	0.120
Steel City	Montana	Prairie	202.724	202.979	0.255	MT079	Floweree silt loam, calcareous, 0 to 2 percent slopes	0.255
Steel City	Montana	Prairie	202.979	202.991	0.011	MT079	Lonna silt loam, 2 to 8 percent slopes	0.011
Steel City	Montana	Prairie	202.991	203.128	0.137	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.130
Steel City	Montana	Prairie	203.128	203.211	0.083	MT079	Floweree silt loam, calcareous, 0 to 2 percent slopes	0.083
Steel City	Montana	Prairie	203.211	203.404	0.193	MT079	Yamac loam, 0 to 2 percent slopes	0.183
Steel City	Montana	Prairie	203.404	203.919	0.515	MT079	Lonna silt loam, 2 to 8 percent slopes	0.505
Steel City	Montana	Prairie	203.919	204.001	0.082	MT079	Busby-Blackhall-Twilight fine sandy loams, 8 to 25 percent slopes	0.003
Steel City	Montana	Prairie	204.001	204.302	0.301	MT079	Busby-Twilight-Blackhall fine sandy loams, 4 to 15 percent slopes	0.015
Steel City	Montana	Prairie	204.302	204.486	0.184	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.175
Steel City	Montana	Prairie	204.486	204.898	0.412	MT079	Lonna silt loam, 2 to 8 percent slopes	0.404
Steel City	Montana	Prairie	204.898	205.016	0.118	MT079	Delpoint-Busby-Blackhall complex, 4 to 15 percent slopes	0.047
Steel City	Montana	Prairie	205.016	205.285	0.270	MT079	Degrand loam, 0 to 4 percent slopes	0.243
Steel City	Montana	Prairie	205.285	205.401	0.116	MT079	Chinook-Twilight-Blackhall fine sandy loams, 8 to 15 percent slopes	0.009
Steel City	Montana	Prairie	205.401	205.515	0.114	MT079	Kremlin loam, 2 to 8 percent slopes	0.108
Steel City	Montana	Prairie	205.515	205.562	0.048	MT079	Lonna silt loam, 0 to 2 percent slopes	0.048

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Prairie	205.562	205.773	0.211	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.200
Steel City	Montana	Prairie	205.773	205.798	0.025	MT079	Parshall fine sandy loam, 2 to 6 percent slopes	0.001
Steel City	Montana	Prairie	205.798	205.901	0.103	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.098
Steel City	Montana	Prairie	205.901	206.137	0.236	MT079	Lonna silt loam, 0 to 2 percent slopes	0.236
Steel City	Montana	Prairie	206.137	206.199	0.062	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.059
Steel City	Montana	Prairie	206.199	206.420	0.221	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.210
Steel City	Montana	Prairie	206.420	206.472	0.053	MT079	Lonna silt loam, 2 to 8 percent slopes	0.051
Steel City	Montana	Prairie	206.472	206.737	0.264	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.251
Steel City	Montana	Prairie	206.737	206.805	0.068	MT079	Lonna silt loam, 2 to 8 percent slopes	0.067
Steel City	Montana	Prairie	206.805	206.875	0.070	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.066
Steel City	Montana	Prairie	206.875	207.030	0.156	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.145
Steel City	Montana	Prairie	207.030	207.155	0.124	MT079	Cambeth, calcareous-Cabbart-Yawdim complex, 4 to 25 percent slopes	0.121
Steel City	Montana	Prairie	207.155	207.608	0.453	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.422
Steel City	Montana	Prairie	207.608	207.889	0.281	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.267
Steel City	Montana	Prairie	207.889	207.956	0.067	MT079	Lonna silt loam, 2 to 8 percent slopes	0.066
Steel City	Montana	Prairie	207.956	208.129	0.174	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.165
Steel City	Montana	Prairie	208.129	208.141	0.012	MT079	Ustic Torriorthents-Ustic Torrifluvents-Rock outcrop complex, 0 to 35 percent slopes	0.001
Steel City	Montana	Prairie	208.141	208.243	0.102	MT079	Ismay silty clay loam, 0 to 2 percent slopes	0.099
Steel City	Montana	Prairie	208.243	208.368	0.124	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.116
Steel City	Montana	Prairie	208.368	208.587	0.219	MT079	Chinook-Twilight-Blackhall fine sandy loams, 8 to 15 percent slopes	0.018
Steel City	Montana	Prairie	208.587	208.747	0.160	MT079	Chinook-Twilight fine sandy loams, 2 to 8 percent slopes	0.016
Steel City	Montana	Prairie	208.747	208.823	0.077	MT079	Lonna silt loam, 2 to 8 percent slopes	0.075
Steel City	Montana	Prairie	208.823	208.878	0.055	MT079	Chinook-Twilight-Blackhall fine sandy loams, 8 to 15 percent slopes	0.004
Steel City	Montana	Prairie	208.878	209.109	0.231	MT079	Lonna silt loam, 2 to 8 percent slopes	0.226

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Prairie	209.109	209.132	0.023	MT079	Ismay silty clay loam, 0 to 2 percent slopes	0.022
Steel City	Montana	Prairie	209.132	209.186	0.054	MT079	Lonna silt loam, 2 to 8 percent slopes	0.053
Steel City	Montana	Prairie	209.186	209.279	0.093	MT079	Ismay silty clay loam, 0 to 2 percent slopes	0.091
Steel City	Montana	Prairie	209.279	209.399	0.119	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.111
Steel City	Montana	Prairie	209.399	209.507	0.108	MT079	Cambeth, calcareous-Cabbart-Yawdim complex, 4 to 25 percent slopes	0.105
Steel City	Montana	Prairie	209.507	209.763	0.256	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.238
Steel City	Montana	Prairie	209.763	210.102	0.339	MT079	Cambeth, calcareous-Cabbart-Yawdim complex, 4 to 25 percent slopes	0.329
Steel City	Montana	Prairie	210.102	210.389	0.287	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.218
Steel City	Montana	Prairie	210.389	210.685	0.296	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.281
Steel City	Montana	Prairie	210.685	211.077	0.393	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.298
Steel City	Montana	Prairie	211.077	211.134	0.057	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.053
Steel City	Montana	Prairie	211.134	211.268	0.134	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.102
Steel City	Montana	Prairie	211.268	211.345	0.076	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.073
Steel City	Montana	Prairie	211.345	211.428	0.083	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.063
Steel City	Montana	Prairie	211.428	211.479	0.051	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.049
Steel City	Montana	Prairie	211.479	211.555	0.076	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.058
Steel City	Montana	Prairie	211.555	212.054	0.500	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.465
Steel City	Montana	Prairie	212.054	212.266	0.212	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.201
Steel City	Montana	Prairie	212.266	212.474	0.208	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.194
Steel City	Montana	Prairie	212.474	212.529	0.055	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.052
Steel City	Montana	Prairie	212.529	212.657	0.128	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.119

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Prairie	212.657	213.260	0.603	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.573
Steel City	Montana	Prairie	213.260	213.455	0.195	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.148
Steel City	Montana	Prairie	213.455	213.831	0.377	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.358
Steel City	Montana	Prairie	213.831	214.311	0.480	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.447
Steel City	Montana	Prairie	214.311	214.389	0.077	MT079	Cambeth, calcareous-Cabbart-Kirby complex, 8 to 45 percent slopes	0.059
Steel City	Montana	Prairie	214.389	214.742	0.353	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.328
Steel City	Montana	Prairie	214.742	214.896	0.154	MT079	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.146
Steel City	Montana	Prairie	214.896	215.111	0.216	MT079	Lonna silt loam, 0 to 2 percent slopes	0.216
Steel City	Montana	Prairie	215.111	215.207	0.095	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.089
Steel City	Montana	Prairie	215.207	216.076	0.869	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.826
Steel City	Montana	Prairie	216.076	216.371	0.296	MT079	Lonna silt loam, 2 to 8 percent slopes	0.290
Steel City	Montana	Prairie	216.371	216.494	0.122	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.114
Steel City	Montana	Prairie	216.494	216.570	0.077	MT079	Lonna silt loam, 2 to 8 percent slopes	0.075
Steel City	Montana	Prairie	216.570	216.691	0.121	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.115
Steel City	Montana	Prairie	216.691	216.830	0.138	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.129
Steel City	Montana	Prairie	216.830	217.320	0.490	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.466
Steel City	Montana	Prairie	217.320	217.521	0.201	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.187
Steel City	Montana	Prairie	217.521	217.591	0.070	MT079	Lonna silt loam, 2 to 8 percent slopes	0.068
Steel City	Montana	Prairie	217.591	217.859	0.268	MT079	Lonna-Cambeth-Cabbart silt loams, 12 to 25 percent slopes	0.250
Steel City	Montana	Prairie	217.859	218.055	0.196	MT079	Cambeth, calcareous-Cabbart-Lonna silt loams, 15 to 35 percent slopes	0.177
Steel City	Montana	Prairie	218.055	218.131	0.076	MT079	Cabbart-Rock outcrop-Yawdim complex, 15 to 70 percent slopes	0.051
Steel City	Montana	Prairie	218.131	218.366	0.235	MT079	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.223
Steel City	Montana	Fallon	218.366	218.541	0.174	MT025	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.143
Steel City	Montana	Fallon	218.541	218.627	0.087	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.065
Steel City	Montana	Fallon	218.627	218.667	0.040	MT025	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.033

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	218.667	218.819	0.152	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.114
Steel City	Montana	Fallon	218.819	218.867	0.047	MT025	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.039
Steel City	Montana	Fallon	218.867	219.429	0.562	MT025	Lonna-Cabbart silt loams, 2 to 8 percent slopes	0.422
Steel City	Montana	Fallon	219.429	220.109	0.680	MT025	Kremlin loam, 2 to 8 percent slopes	0.659
Steel City	Montana	Fallon	220.109	220.179	0.070	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.042
Steel City	Montana	Fallon	220.179	220.264	0.086	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.064
Steel City	Montana	Fallon	220.264	220.444	0.180	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.108
Steel City	Montana	Fallon	220.444	220.887	0.442	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.332
Steel City	Montana	Fallon	220.887	221.068	0.181	MT025	Yamacall loam, 8 to 15 percent slopes	0.181
Steel City	Montana	Fallon	221.068	221.617	0.550	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.517
Steel City	Montana	Fallon	221.617	221.887	0.269	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.161
Steel City	Montana	Fallon	221.887	222.082	0.195	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.141
Steel City	Montana	Fallon	222.082	222.195	0.113	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.070
Steel City	Montana	Fallon	222.195	222.281	0.086	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.062
Steel City	Montana	Fallon	222.281	222.397	0.116	MT025	Lonna silt loam, 2 to 8 percent slopes	0.112
Steel City	Montana	Fallon	222.397	222.510	0.113	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.110
Steel City	Montana	Fallon	222.510	222.565	0.055	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.033
Steel City	Montana	Fallon	222.565	222.631	0.066	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.064
Steel City	Montana	Fallon	222.631	222.664	0.033	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.020
Steel City	Montana	Fallon	222.664	222.750	0.086	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.084
Steel City	Montana	Fallon	222.750	223.369	0.618	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.371
Steel City	Montana	Fallon	223.369	223.541	0.173	MT025	Lonna silt loam, 2 to 8 percent slopes	0.168
Steel City	Montana	Fallon	223.541	223.702	0.161	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.069
Steel City	Montana	Fallon	223.702	223.746	0.044	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.026
Steel City	Montana	Fallon	223.746	223.790	0.044	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.019
Steel City	Montana	Fallon	223.790	223.876	0.086	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.051
Steel City	Montana	Fallon	223.876	223.956	0.080	MT025	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.066
Steel City	Montana	Fallon	223.956	224.281	0.325	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.140

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	224.281	224.372	0.091	MT025	Blacksheep-Twilight fine sandy loams, 8 to 15 percent slopes	0.005
Steel City	Montana	Fallon	224.372	224.465	0.093	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.058
Steel City	Montana	Fallon	224.465	224.589	0.124	MT025	Yamacall loam, 8 to 15 percent slopes	0.124
Steel City	Montana	Fallon	224.589	224.782	0.193	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.145
Steel City	Montana	Fallon	224.782	225.019	0.238	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.102
Steel City	Montana	Fallon	225.019	225.079	0.060	MT025	Orinoco-Yawdim silty clay loams, 4 to 15 percent slopes	0.056
Steel City	Montana	Fallon	225.079	225.089	0.010	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.004
Steel City	Montana	Fallon	225.089	225.167	0.078	MT025	Floweree silt loam, 2 to 8 percent slopes	0.078
Steel City	Montana	Fallon	225.167	225.576	0.409	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.385
Steel City	Montana	Fallon	225.576	225.694	0.118	MT025	Kremlin-Cabbart complex, 2 to 8 percent slopes	0.071
Steel City	Montana	Fallon	225.694	226.011	0.316	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.297
Steel City	Montana	Fallon	226.011	226.073	0.062	MT025	Yamacall loam, 2 to 8 percent slopes	0.059
Steel City	Montana	Fallon	226.073	226.149	0.076	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.047
Steel City	Montana	Fallon	226.149	226.197	0.047	MT025	Yamacall loam, 2 to 8 percent slopes	0.045
Steel City	Montana	Fallon	226.197	226.491	0.294	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.182
Steel City	Montana	Fallon	226.491	226.583	0.092	MT025	Cambeth silt loam, 2 to 8 percent slopes	0.089
Steel City	Montana	Fallon	226.583	226.690	0.107	MT025	Lonna silt loam, 2 to 8 percent slopes	0.104
Steel City	Montana	Fallon	226.690	226.820	0.130	MT025	Lonna silt loam, 0 to 2 percent slopes	0.127
Steel City	Montana	Fallon	226.820	226.882	0.062	MT025	Havre loam, 0 to 2 percent slopes	0.058
Steel City	Montana	Fallon	226.882	227.090	0.208	MT025	Lonna silt loam, 2 to 8 percent slopes	0.202
Steel City	Montana	Fallon	227.090	227.135	0.045	MT025	Havre loam, 0 to 2 percent slopes	0.042
Steel City	Montana	Fallon	227.135	227.575	0.441	MT025	Lonna silt loam, 0 to 2 percent slopes	0.432
Steel City	Montana	Fallon	227.575	228.062	0.487	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.472
Steel City	Montana	Fallon	228.062	228.182	0.120	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.052
Steel City	Montana	Fallon	228.182	228.218	0.036	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.027
Steel City	Montana	Fallon	228.218	228.246	0.028	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.012
Steel City	Montana	Fallon	228.246	228.284	0.038	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.037
Steel City	Montana	Fallon	228.284	228.322	0.038	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.016

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	228.322	228.480	0.158	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.153
Steel City	Montana	Fallon	228.480	228.551	0.071	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.030
Steel City	Montana	Fallon	228.551	228.779	0.228	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.221
Steel City	Montana	Fallon	228.779	228.830	0.052	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.004
Steel City	Montana	Fallon	228.830	229.141	0.310	MT025	Lonna silt loam, 2 to 8 percent slopes	0.301
Steel City	Montana	Fallon	229.141	229.205	0.064	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.028
Steel City	Montana	Fallon	229.205	229.259	0.054	MT025	Alona silt loam, 2 to 8 percent slopes	0.054
Steel City	Montana	Fallon	229.259	229.376	0.116	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.050
Steel City	Montana	Fallon	229.376	229.488	0.112	MT025	Yamacall loam, 8 to 15 percent slopes	0.112
Steel City	Montana	Fallon	229.488	229.580	0.093	MT025	Busby-Blacksheep-Rock outcrop complex, 8 to 25 percent slopes	0.004
Steel City	Montana	Fallon	229.580	229.745	0.165	MT025	Yamacall loam, 8 to 15 percent slopes	0.165
Steel City	Montana	Fallon	229.745	229.817	0.071	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.044
Steel City	Montana	Fallon	229.817	229.924	0.108	MT025	Lonna silt loam, 2 to 8 percent slopes	0.104
Steel City	Montana	Fallon	229.924	229.941	0.017	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.013
Steel City	Montana	Fallon	229.941	229.960	0.019	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.012
Steel City	Montana	Fallon	229.960	230.377	0.417	MT025	Lonna-Cambeth-Cabbart silt loams, 4 to 12 percent slopes	0.342
Steel City	Montana	Fallon	230.377	230.452	0.075	MT025	Lonna-Cabbart silt loams, 8 to 25 percent slopes	0.045
Steel City	Montana	Fallon	230.452	230.493	0.041	MT025	Alona silt loam, 2 to 8 percent slopes	0.041
Steel City	Montana	Fallon	230.493	230.497	0.004	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.002
Steel City	Montana	Fallon	230.497	230.536	0.039	MT025	Alona silt loam, 2 to 8 percent slopes	0.039
Steel City	Montana	Fallon	230.536	230.589	0.053	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.023
Steel City	Montana	Fallon	230.589	230.712	0.123	MT025	Alona silt loam, 2 to 8 percent slopes	0.122
Steel City	Montana	Fallon	230.712	231.175	0.463	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.199
Steel City	Montana	Fallon	231.175	231.360	0.185	MT025	Yamacall loam, 8 to 15 percent slopes	0.185
Steel City	Montana	Fallon	231.360	231.433	0.072	MT025	Floweree silt loam, 2 to 8 percent slopes	0.072
Steel City	Montana	Fallon	231.433	231.601	0.169	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.164
Steel City	Montana	Fallon	231.601	231.771	0.169	MT025	Lonna silt loam, 2 to 8 percent slopes	0.164
Steel City	Montana	Fallon	231.771	231.865	0.094	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.068

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	231.865	232.127	0.262	MT025	Lonna silt loam, 2 to 8 percent slopes	0.254
Steel City	Montana	Fallon	232.127	232.191	0.064	MT025	Twilight-Cabbart complex, 8 to 15 percent slopes	0.006
Steel City	Montana	Fallon	232.191	232.199	0.008	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.006
Steel City	Montana	Fallon	232.199	232.266	0.067	MT025	Twilight-Cabbart complex, 8 to 15 percent slopes	0.006
Steel City	Montana	Fallon	232.266	232.306	0.039	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.003
Steel City	Montana	Fallon	232.306	232.477	0.171	MT025	Cabbart silt loam, 4 to 15 percent slopes	0.015
Steel City	Montana	Fallon	232.477	232.646	0.169	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.164
Steel City	Montana	Fallon	232.646	232.976	0.330	MT025	Eapa loam, 2 to 8 percent slopes	0.327
Steel City	Montana	Fallon	232.976	233.118	0.143	MT025	Archin loam, 2 to 8 percent slopes	0.134
Steel City	Montana	Fallon	233.118	233.489	0.371	MT025	Gerdrum-Absher complex, 0 to 2 percent slopes	0.367
Steel City	Montana	Fallon	233.489	233.617	0.128	MT025	Floweree silt loam, 0 to 2 percent slopes	0.128
Steel City	Montana	Fallon	233.617	233.679	0.061	MT025	Archin-Absher complex, 0 to 2 percent slopes	0.061
Steel City	Montana	Fallon	233.679	234.149	0.470	MT025	Floweree silt loam, 0 to 2 percent slopes	0.470
Steel City	Montana	Fallon	234.149	234.535	0.387	MT025	Kremlin loam, 0 to 2 percent slopes	0.371
Steel City	Montana	Fallon	234.535	234.642	0.106	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.105
Steel City	Montana	Fallon	234.642	234.972	0.330	MT025	Havre-Harlake complex, 0 to 2 percent slopes	0.313
Steel City	Montana	Fallon	234.972	235.091	0.119	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.118
Steel City	Montana	Fallon	235.091	235.127	0.036	MT025	Bonfri-Parchin complex, 2 to 8 percent slopes	0.034
Steel City	Montana	Fallon	235.127	235.232	0.106	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.105
Steel City	Montana	Fallon	235.232	235.383	0.150	MT025	Bonfri-Parchin complex, 2 to 8 percent slopes	0.143
Steel City	Montana	Fallon	235.383	235.589	0.206	MT025	Yamacall-Busby-Blacksheep complex, 4 to 15 percent slopes	0.091
Steel City	Montana	Fallon	235.589	235.712	0.123	MT025	Archin loam, 2 to 8 percent slopes	0.116
Steel City	Montana	Fallon	235.712	235.791	0.080	MT025	Bonfri-Parchin complex, 2 to 8 percent slopes	0.076
Steel City	Montana	Fallon	235.791	235.901	0.110	MT025	Archin loam, 2 to 8 percent slopes	0.103
Steel City	Montana	Fallon	235.901	235.995	0.094	MT025	Cambeth silt loam, 2 to 8 percent slopes	0.092
Steel City	Montana	Fallon	235.995	236.170	0.175	MT025	Archin loam, 2 to 8 percent slopes	0.164
Steel City	Montana	Fallon	236.170	236.245	0.075	MT025	Yamacall loam, 2 to 8 percent slopes	0.071
Steel City	Montana	Fallon	236.245	236.354	0.108	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.067

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	236.354	236.466	0.112	MT025	Yamacall loam, 2 to 8 percent slopes	0.106
Steel City	Montana	Fallon	236.466	236.525	0.059	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.037
Steel City	Montana	Fallon	236.525	236.768	0.243	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.017
Steel City	Montana	Fallon	236.768	236.815	0.048	MT025	Yamacall loam, 2 to 8 percent slopes	0.045
Steel City	Montana	Fallon	236.815	236.987	0.172	MT025	Eapa loam, 2 to 8 percent slopes	0.170
Steel City	Montana	Fallon	236.987	237.263	0.276	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.014
Steel City	Montana	Fallon	237.263	237.496	0.232	MT025	Kremlin loam, 2 to 8 percent slopes	0.225
Steel City	Montana	Fallon	237.496	237.684	0.189	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.009
Steel City	Montana	Fallon	237.684	237.753	0.069	MT025	Twilight fine sandy loam, 8 to 15 percent slopes	0.002
Steel City	Montana	Fallon	237.753	237.803	0.050	MT025	Yamacall loam, 2 to 8 percent slopes	0.047
Steel City	Montana	Fallon	237.803	237.847	0.044	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.002
Steel City	Montana	Fallon	237.847	237.858	0.011	MT025	Yamacall loam, 2 to 8 percent slopes	0.010
Steel City	Montana	Fallon	237.858	237.937	0.079	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.004
Steel City	Montana	Fallon	237.937	238.540	0.603	MT025	Yamacall loam, 2 to 8 percent slopes	0.573
Steel City	Montana	Fallon	238.540	238.670	0.130	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.005
Steel City	Montana	Fallon	238.670	238.772	0.101	MT025	Yamacall loam, 2 to 8 percent slopes	0.096
Steel City	Montana	Fallon	238.772	238.850	0.078	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.049
Steel City	Montana	Fallon	238.850	238.944	0.094	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.007
Steel City	Montana	Fallon	238.944	239.024	0.081	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.005
Steel City	Montana	Fallon	239.024	239.083	0.059	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.004
Steel City	Montana	Fallon	239.083	239.104	0.021	MT025	Eapa loam, 2 to 8 percent slopes	0.021
Steel City	Montana	Fallon	239.104	239.151	0.047	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.003
Steel City	Montana	Fallon	239.151	239.260	0.109	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.005
Steel City	Montana	Fallon	239.260	239.312	0.052	MT025	Assinniboine sandy clay loam, 2 to 8 percent slopes	0.050
Steel City	Montana	Fallon	239.312	239.583	0.271	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.016
Steel City	Montana	Fallon	239.583	239.714	0.131	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.007
Steel City	Montana	Fallon	239.714	239.898	0.184	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.011

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	239.898	239.997	0.099	MT025	Assinniboine sandy clay loam, 2 to 8 percent slopes	0.096
Steel City	Montana	Fallon	239.997	240.226	0.229	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.014
Steel City	Montana	Fallon	240.226	240.458	0.232	MT025	Blacksheep-Twilight fine sandy loams, 8 to 15 percent slopes	0.014
Steel City	Montana	Fallon	240.458	240.525	0.067	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.004
Steel City	Montana	Fallon	240.525	240.796	0.271	MT025	Blacksheep-Twilight fine sandy loams, 8 to 15 percent slopes	0.016
Steel City	Montana	Fallon	240.796	240.835	0.040	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.025
Steel City	Montana	Fallon	240.835	241.047	0.212	MT025	Twilight-Delpoint complex, 2 to 8 percent slopes	0.089
Steel City	Montana	Fallon	241.047	241.096	0.049	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.030
Steel City	Montana	Fallon	241.096	241.483	0.387	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.027
Steel City	Montana	Fallon	241.483	241.699	0.216	MT025	Blacksheep-Twilight fine sandy loams, 8 to 15 percent slopes	0.013
Steel City	Montana	Fallon	241.699	241.715	0.016	MT025	Blacksheep-Rock outcrop complex, 25 to 50 percent	0.000
Steel City	Montana	Fallon	241.715	242.023	0.308	MT025	Blacksheep-Twilight fine sandy loams, 8 to 15 percent slopes	0.018
Steel City	Montana	Fallon	242.023	242.198	0.175	MT025	Bonfri loam, 8 to 15 percent slopes	0.168
Steel City	Montana	Fallon	242.198	243.243	1.045	MT025	Gerdrum clay loam, 2 to 8 percent slopes	1.014
Steel City	Montana	Fallon	243.243	243.308	0.065	MT025	Neldore-Bascovy clays, 4 to 15 percent slopes	0.063
Steel City	Montana	Fallon	243.308	243.454	0.146	MT025	Gerdrum clay loam, 2 to 8 percent slopes	0.141
Steel City	Montana	Fallon	243.454	243.752	0.298	MT025	Delpoint-Cabbart complex, 8 to 15 percent slopes	0.184
Steel City	Montana	Fallon	243.752	243.841	0.090	MT025	Marvan silty clay, 2 to 8 percent slopes	0.088
Steel City	Montana	Fallon	243.841	243.893	0.051	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.030
Steel City	Montana	Fallon	243.893	244.158	0.265	MT025	Bascovy clay, 2 to 8 percent slopes	0.255
Steel City	Montana	Fallon	244.158	244.347	0.189	MT025	Eapa loam, 2 to 8 percent slopes	0.187
Steel City	Montana	Fallon	244.347	244.521	0.174	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.172
Steel City	Montana	Fallon	244.521	244.600	0.079	MT025	Havre loam, 0 to 2 percent slopes	0.074
Steel City	Montana	Fallon	244.600	244.927	0.327	MT025	Bonfri loam, 2 to 8 percent slopes	0.318
Steel City	Montana	Fallon	244.927	244.993	0.066	MT025	Bonfri-Cambeth complex, 2 to 8 percent slopes	0.063
Steel City	Montana	Fallon	244.993	245.127	0.134	MT025	Eapa loam, 2 to 8 percent slopes	0.133
Steel City	Montana	Fallon	245.127	245.663	0.536	MT025	Bonfri-Cambeth complex, 2 to 8 percent slopes	0.509
Steel City	Montana	Fallon	245.663	245.739	0.076	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.045

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	245.739	245.853	0.114	MT025	Eapa loam, 2 to 8 percent slopes	0.113
Steel City	Montana	Fallon	245.853	245.930	0.078	MT025	Bonfri loam, 2 to 8 percent slopes	0.075
Steel City	Montana	Fallon	245.930	246.376	0.445	MT025	Eapa loam, 2 to 8 percent slopes	0.441
Steel City	Montana	Fallon	246.376	246.414	0.038	MT025	Tanna-Ethridge silty clay loams, 2 to 8 percent slopes	0.036
Steel City	Montana	Fallon	246.414	246.425	0.011	MT025	Gerdrum clay loam, 2 to 8 percent slopes	0.011
Steel City	Montana	Fallon	246.425	247.037	0.612	MT025	Tanna-Ethridge silty clay loams, 2 to 8 percent slopes	0.575
Steel City	Montana	Fallon	247.037	247.591	0.554	MT025	Bonfri-Cambeth complex, 2 to 8 percent slopes	0.526
Steel City	Montana	Fallon	247.591	247.667	0.076	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.005
Steel City	Montana	Fallon	247.667	247.708	0.041	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.029
Steel City	Montana	Fallon	247.708	247.932	0.224	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.096
Steel City	Montana	Fallon	247.932	248.055	0.123	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.092
Steel City	Montana	Fallon	248.055	248.371	0.316	MT025	Tanna-Ethridge silty clay loams, 2 to 8 percent slopes	0.297
Steel City	Montana	Fallon	248.371	248.592	0.220	MT025	Tanna-Ethridge silty clay loams, 8 to 15 percent slopes	0.200
Steel City	Montana	Fallon	248.592	248.670	0.078	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.059
Steel City	Montana	Fallon	248.670	248.938	0.268	MT025	Tanna-Ethridge silty clay loams, 8 to 15 percent slopes	0.244
Steel City	Montana	Fallon	248.938	249.065	0.127	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.095
Steel City	Montana	Fallon	249.065	249.450	0.385	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.166
Steel City	Montana	Fallon	249.450	249.786	0.336	MT025	Bonfri loam, 2 to 8 percent slopes	0.326
Steel City	Montana	Fallon	249.786	249.851	0.064	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.038
Steel City	Montana	Fallon	249.851	249.953	0.103	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.007
Steel City	Montana	Fallon	249.953	249.977	0.023	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.014
Steel City	Montana	Fallon	249.977	249.987	0.010	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.001
Steel City	Montana	Fallon	249.987	249.994	0.007	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.004
Steel City	Montana	Fallon	249.994	249.994	0.000	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.000
Steel City	Montana	Fallon	249.994	250.161	0.167	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.098
Steel City	Montana	Fallon	250.161	250.304	0.143	MT025	Havre loam, 0 to 2 percent slopes	0.135
Steel City	Montana	Fallon	250.304	250.388	0.083	MT025	Kirby-Cabbart complex, 8 to 25 percent slopes	0.006
Steel City	Montana	Fallon	250.388	250.492	0.104	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.062

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	250.492	250.571	0.079	MT025	Gerdrum clay loam, 2 to 8 percent slopes	0.077
Steel City	Montana	Fallon	250.571	250.666	0.095	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.056
Steel City	Montana	Fallon	250.666	250.884	0.219	MT025	Gerdrum clay loam, 2 to 8 percent slopes	0.212
Steel City	Montana	Fallon	250.884	250.978	0.093	MT025	Havre loam, 0 to 2 percent slopes	0.088
Steel City	Montana	Fallon	250.978	251.085	0.107	MT025	Bonfri-Cambeth complex, 2 to 8 percent slopes	0.102
Steel City	Montana	Fallon	251.085	251.316	0.231	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.173
Steel City	Montana	Fallon	251.316	251.394	0.079	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.046
Steel City	Montana	Fallon	251.394	251.499	0.104	MT025	Cabbart silt loam, 4 to 15 percent slopes	0.009
Steel City	Montana	Fallon	251.499	251.877	0.378	MT025	Cabbart-Cambeth silt loams, 8 to 15 percent slopes	0.163
Steel City	Montana	Fallon	251.877	251.936	0.059	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.044
Steel City	Montana	Fallon	251.936	252.020	0.084	MT025	Tanna-Ethridge silty clay loams, 2 to 8 percent slopes	0.079
Steel City	Montana	Fallon	252.020	252.247	0.227	MT025	Gerdrum clay loam, 2 to 8 percent slopes	0.220
Steel City	Montana	Fallon	252.247	252.281	0.034	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.020
Steel City	Montana	Fallon	252.281	252.393	0.112	MT025	Gerdrum clay loam, 2 to 8 percent slopes	0.108
Steel City	Montana	Fallon	252.393	252.478	0.085	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.064
Steel City	Montana	Fallon	252.478	252.867	0.389	MT025	Twilight fine sandy loam, 8 to 15 percent slopes	0.012
Steel City	Montana	Fallon	252.867	253.334	0.467	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.276
Steel City	Montana	Fallon	253.334	253.383	0.048	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.036
Steel City	Montana	Fallon	253.383	253.568	0.185	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.109
Steel City	Montana	Fallon	253.568	253.609	0.041	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.031
Steel City	Montana	Fallon	253.609	253.730	0.120	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.071
Steel City	Montana	Fallon	253.730	254.913	1.184	MT025	Cabbart-Rock outcrop-Delpoint complex, 15 to 50 percent slopes	0.888
Steel City	Montana	Fallon	254.913	255.095	0.181	MT025	Badland	0.027
Steel City	Montana	Fallon	255.095	255.150	0.055	MT025	Yamacall-Delpoint loams, 2 to 8 percent slopes	0.052
Steel City	Montana	Fallon	255.150	255.348	0.198	MT025	Badland	0.030
Steel City	Montana	Fallon	255.348	255.425	0.077	MT025	Twilight fine sandy loam, 2 to 8 percent slopes	0.002
Steel City	Montana	Fallon	255.425	255.455	0.030	MT025	Badland	0.005
Steel City	Montana	Fallon	255.455	255.599	0.143	MT025	Twilight fine sandy loam, 2 to 8 percent slopes	0.004

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	255.599	255.731	0.132	MT025	Badland	0.020
Steel City	Montana	Fallon	255.731	255.887	0.156	MT025	Twilight fine sandy loam, 2 to 8 percent slopes	0.005
Steel City	Montana	Fallon	255.887	256.026	0.140	MT025	Yamacall-Delpoint loams, 2 to 8 percent slopes	0.131
Steel City	Montana	Fallon	256.026	256.152	0.126	MT025	Archin loam, 2 to 8 percent slopes	0.118
Steel City	Montana	Fallon	256.152	256.243	0.091	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.006
Steel City	Montana	Fallon	256.243	256.404	0.161	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.087
Steel City	Montana	Fallon	256.404	256.504	0.100	MT025	Creed loam, 2 to 8 percent slopes	0.097
Steel City	Montana	Fallon	256.504	256.845	0.341	MT025	Carfall-Assinniboine complex, 2 to 8 percent slopes	0.314
Steel City	Montana	Fallon	256.845	256.977	0.132	MT025	Carfall-Assinniboine complex, 8 to 15 percent slopes	0.120
Steel City	Montana	Fallon	256.977	257.097	0.119	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.004
Steel City	Montana	Fallon	257.097	257.125	0.028	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.027
Steel City	Montana	Fallon	257.125	257.275	0.150	MT025	Archin loam, 2 to 8 percent slopes	0.141
Steel City	Montana	Fallon	257.275	257.589	0.314	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.169
Steel City	Montana	Fallon	257.589	257.806	0.216	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.006
Steel City	Montana	Fallon	257.806	258.019	0.213	MT025	Carfall-Assinniboine complex, 2 to 8 percent slopes	0.196
Steel City	Montana	Fallon	258.019	258.098	0.080	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.002
Steel City	Montana	Fallon	258.098	258.283	0.184	MT025	Carfall-Assinniboine complex, 8 to 15 percent slopes	0.168
Steel City	Montana	Fallon	258.283	258.406	0.123	MT025	Archin loam, 2 to 8 percent slopes	0.116
Steel City	Montana	Fallon	258.406	258.441	0.035	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.002
Steel City	Montana	Fallon	258.441	258.513	0.072	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.069
Steel City	Montana	Fallon	258.513	258.575	0.062	MT025	Archin loam, 2 to 8 percent slopes	0.059
Steel City	Montana	Fallon	258.575	258.606	0.031	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.030
Steel City	Montana	Fallon	258.606	258.723	0.117	MT025	Havre loam, saline, 0 to 2 percent slopes	0.108
Steel City	Montana	Fallon	258.723	258.849	0.126	MT025	Archin-Absher complex, 0 to 2 percent slopes	0.126
Steel City	Montana	Fallon	258.849	258.958	0.109	MT025	Archin loam, 2 to 8 percent slopes	0.102
Steel City	Montana	Fallon	258.958	259.091	0.133	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.129
Steel City	Montana	Fallon	259.091	259.152	0.061	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.033
Steel City	Montana	Fallon	259.152	259.219	0.067	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.065

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	259.219	259.380	0.162	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.152
Steel City	Montana	Fallon	259.380	259.586	0.205	MT025	Twilight-Bonfri complex, 8 to 15 percent slopes	0.074
Steel City	Montana	Fallon	259.586	259.774	0.188	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.102
Steel City	Montana	Fallon	259.774	259.875	0.101	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.004
Steel City	Montana	Fallon	259.875	259.908	0.032	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.017
Steel City	Montana	Fallon	259.908	260.018	0.111	MT025	Archin loam, 2 to 8 percent slopes	0.104
Steel City	Montana	Fallon	260.018	260.165	0.147	MT025	Twilight-Bonfri complex, 8 to 15 percent slopes	0.053
Steel City	Montana	Fallon	260.165	260.603	0.438	MT025	Carfall-Assinniboine complex, 2 to 8 percent slopes	0.403
Steel City	Montana	Fallon	260.603	260.684	0.082	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.079
Steel City	Montana	Fallon	260.684	260.891	0.207	MT025	Carfall-Assinniboine complex, 8 to 15 percent slopes	0.188
Steel City	Montana	Fallon	260.891	261.078	0.187	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.101
Steel City	Montana	Fallon	261.078	261.202	0.124	MT025	Carfall loam, 2 to 8 percent slopes	0.116
Steel City	Montana	Fallon	261.202	261.310	0.109	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.059
Steel City	Montana	Fallon	261.310	261.379	0.069	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.067
Steel City	Montana	Fallon	261.379	261.538	0.159	MT025	Archin loam, 2 to 8 percent slopes	0.150
Steel City	Montana	Fallon	261.538	261.609	0.071	MT025	Eapa-Yamacall loams, 2 to 8 percent slopes	0.071
Steel City	Montana	Fallon	261.609	261.830	0.221	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.007
Steel City	Montana	Fallon	261.830	262.384	0.554	MT025	Ynot sandy loam, 0 to 2 percent slopes	0.028
Steel City	Montana	Fallon	262.384	262.630	0.246	MT025	Carfall loam, 2 to 8 percent slopes	0.232
Steel City	Montana	Fallon	262.630	262.976	0.346	MT025	Hanly-Ryell fine sandy loams, 0 to 4 percent slopes	0.017
Steel City	Montana	Fallon	262.976	263.032	0.056	MT025	Yawdim-Blacksheep-Rock outcrop complex, 15 to 45 percent slopes	0.026
Steel City	Montana	Fallon	263.032	263.315	0.283	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.008
Steel City	Montana	Fallon	263.315	263.720	0.406	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.187
Steel City	Montana	Fallon	263.720	263.789	0.069	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.002
Steel City	Montana	Fallon	263.789	263.847	0.057	MT025	Chinook sandy loam, 8 to 15 percent slopes	0.004
Steel City	Montana	Fallon	263.847	263.886	0.039	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.001
Steel City	Montana	Fallon	263.886	263.929	0.043	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.020

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	263.929	263.954	0.025	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.001
Steel City	Montana	Fallon	263.954	264.388	0.434	MT025	Chinook-Assinniboine complex, 2 to 8 percent slopes	0.200
Steel City	Montana	Fallon	264.388	264.710	0.323	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.148
Steel City	Montana	Fallon	264.710	264.773	0.063	MT025	Badland	0.009
Steel City	Montana	Fallon	264.773	264.866	0.093	MT025	Zeona-Blacksheep-Rock outcrop complex, 4 to 15 percent slopes	0.007
Steel City	Montana	Fallon	264.866	264.948	0.082	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.038
Steel City	Montana	Fallon	264.948	265.102	0.154	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.005
Steel City	Montana	Fallon	265.102	265.431	0.330	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.152
Steel City	Montana	Fallon	265.431	265.621	0.189	MT025	Zeona-Blacksheep-Rock outcrop complex, 4 to 15 percent slopes	0.015
Steel City	Montana	Fallon	265.621	265.746	0.125	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.005
Steel City	Montana	Fallon	265.746	265.771	0.026	MT025	Zeona-Blacksheep-Rock outcrop complex, 4 to 15 percent slopes	0.002
Steel City	Montana	Fallon	265.771	265.848	0.077	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.003
Steel City	Montana	Fallon	265.848	265.877	0.029	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.013
Steel City	Montana	Fallon	265.877	266.025	0.148	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.146
Steel City	Montana	Fallon	266.025	266.423	0.398	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.183
Steel City	Montana	Fallon	266.423	266.756	0.334	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.324
Steel City	Montana	Fallon	266.756	266.885	0.128	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.005
Steel City	Montana	Fallon	266.885	266.957	0.073	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.071
Steel City	Montana	Fallon	266.957	267.144	0.187	MT025	Chinook-Assinniboine complex, 2 to 8 percent slopes	0.086
Steel City	Montana	Fallon	267.144	267.320	0.176	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.007
Steel City	Montana	Fallon	267.320	267.618	0.298	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.137
Steel City	Montana	Fallon	267.618	267.739	0.121	MT025	Archin, gullied-Delpoint complex, 4 to 15 percent slopes	0.114
Steel City	Montana	Fallon	267.739	267.889	0.150	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.006

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	267.889	268.114	0.225	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.011
Steel City	Montana	Fallon	268.114	268.435	0.321	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.013
Steel City	Montana	Fallon	268.435	268.509	0.075	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.004
Steel City	Montana	Fallon	268.509	268.616	0.106	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.103
Steel City	Montana	Fallon	268.616	268.647	0.031	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.001
Steel City	Montana	Fallon	268.647	269.190	0.543	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.527
Steel City	Montana	Fallon	269.190	269.222	0.032	MT025	Lonna-Cambeth silt loams, 2 to 8 percent slopes	0.031
Steel City	Montana	Fallon	269.222	269.441	0.219	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.009
Steel City	Montana	Fallon	269.441	269.636	0.195	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.090
Steel City	Montana	Fallon	269.636	269.681	0.045	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.043
Steel City	Montana	Fallon	269.681	269.696	0.016	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.007
Steel City	Montana	Fallon	269.696	269.796	0.099	MT025	Blacksheep-Twilight fine sandy loams, 15 to 45 percent slopes	0.004
Steel City	Montana	Fallon	269.796	269.887	0.091	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.004
Steel City	Montana	Fallon	269.887	269.890	0.003	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.000
Steel City	Montana	Fallon	269.890	269.901	0.011	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.000
Steel City	Montana	Fallon	269.901	270.012	0.112	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.007
Steel City	Montana	Fallon	270.012	270.093	0.081	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.006
Steel City	Montana	Fallon	270.093	270.110	0.017	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.009
Steel City	Montana	Fallon	270.110	270.163	0.053	MT025	Busby fine sandy loam, 8 to 15 percent slopes	0.004
Steel City	Montana	Fallon	270.163	270.198	0.036	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.019
Steel City	Montana	Fallon	270.198	270.303	0.104	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.004
Steel City	Montana	Fallon	270.303	270.479	0.176	MT025	Busby fine sandy loam, 2 to 8 percent slopes	0.011

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	270.479	270.521	0.042	MT025	Yawdim-Blacksheep-Rock outcrop complex, 15 to 45 percent slopes	0.020
Steel City	Montana	Fallon	270.521	270.571	0.050	MT025	Blacksheep-Twilight fine sandy loams, 15 to 45 percent slopes	0.002
Steel City	Montana	Fallon	270.571	270.652	0.081	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.079
Steel City	Montana	Fallon	270.652	270.729	0.078	MT025	Archin loam, 2 to 8 percent slopes	0.073
Steel City	Montana	Fallon	270.729	270.762	0.033	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.032
Steel City	Montana	Fallon	270.762	270.876	0.114	MT025	Archin loam, 2 to 8 percent slopes	0.108
Steel City	Montana	Fallon	270.876	270.958	0.081	MT025	Ynot sandy loam, 8 to 15 percent slopes	0.004
Steel City	Montana	Fallon	270.958	271.144	0.186	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.007
Steel City	Montana	Fallon	271.144	271.248	0.104	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.048
Steel City	Montana	Fallon	271.248	271.349	0.101	MT025	Twilight-Delpoint complex, 2 to 8 percent slopes	0.042
Steel City	Montana	Fallon	271.349	271.412	0.064	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.003
Steel City	Montana	Fallon	271.412	271.520	0.107	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.049
Steel City	Montana	Fallon	271.520	271.949	0.429	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.021
Steel City	Montana	Fallon	271.949	272.052	0.103	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.047
Steel City	Montana	Fallon	272.052	272.072	0.020	MT025	Badland	0.003
Steel City	Montana	Fallon	272.072	272.257	0.185	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.085
Steel City	Montana	Fallon	272.257	272.343	0.086	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.004
Steel City	Montana	Fallon	272.343	272.482	0.139	MT025	Busby, gullied-Delpoint-Yawdim complex, 8 to 25 percent slopes	0.089
Steel City	Montana	Fallon	272.482	272.516	0.035	MT025	Twilight fine sandy loam, 2 to 8 percent slopes	0.001
Steel City	Montana	Fallon	272.516	272.677	0.161	MT025	Blacksheep-Twilight fine sandy loams, 8 to 15 percent slopes	0.010
Steel City	Montana	Fallon	272.677	272.816	0.139	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.064
Steel City	Montana	Fallon	272.816	273.010	0.194	MT025	Chinook sandy loam, 2 to 8 percent slopes	0.010
Steel City	Montana	Fallon	273.010	273.135	0.125	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.057
Steel City	Montana	Fallon	273.135	273.258	0.123	MT025	Archin loam, 2 to 8 percent slopes	0.115
Steel City	Montana	Fallon	273.258	273.372	0.114	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.113
Steel City	Montana	Fallon	273.372	273.412	0.039	MT025	Twilight-Cabbart complex, 8 to 15 percent slopes	0.004

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	273.412	273.562	0.150	MT025	Ynot sandy loam, 8 to 15 percent slopes	0.008
Steel City	Montana	Fallon	273.562	273.628	0.067	MT025	Assinniboine-Ynot complex, 2 to 8 percent slopes	0.039
Steel City	Montana	Fallon	273.628	273.702	0.074	MT025	Twilight-Cabbart complex, 8 to 15 percent slopes	0.007
Steel City	Montana	Fallon	273.702	273.807	0.105	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.104
Steel City	Montana	Fallon	273.807	273.904	0.097	MT025	Eapa loam, 2 to 8 percent slopes	0.096
Steel City	Montana	Fallon	273.904	273.984	0.079	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.078
Steel City	Montana	Fallon	273.984	274.014	0.030	MT025	Archin loam, 2 to 8 percent slopes	0.029
Steel City	Montana	Fallon	274.014	274.225	0.211	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.152
Steel City	Montana	Fallon	274.225	274.311	0.086	MT025	Eapa loam, 2 to 8 percent slopes	0.085
Steel City	Montana	Fallon	274.311	274.373	0.062	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.045
Steel City	Montana	Fallon	274.373	274.396	0.023	MT025	Eapa loam, 2 to 8 percent slopes	0.023
Steel City	Montana	Fallon	274.396	274.467	0.071	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.051
Steel City	Montana	Fallon	274.467	274.508	0.041	MT025	Eapa loam, 2 to 8 percent slopes	0.041
Steel City	Montana	Fallon	274.508	274.557	0.049	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.035
Steel City	Montana	Fallon	274.557	274.609	0.052	MT025	Eapa loam, 2 to 8 percent slopes	0.051
Steel City	Montana	Fallon	274.609	274.652	0.043	MT025	Cambeth-Cabbart silt loams, 2 to 8 percent slopes	0.031
Steel City	Montana	Fallon	274.652	274.953	0.301	MT025	Bonfri-Cabbart loams, 8 to 15 percent slopes	0.178
Steel City	Montana	Fallon	274.953	275.072	0.119	MT025	Tanna-Ethridge silty clay loams, 2 to 8 percent slopes	0.112
Steel City	Montana	Fallon	275.072	275.200	0.128	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.126
Steel City	Montana	Fallon	275.200	275.240	0.040	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.038
Steel City	Montana	Fallon	275.240	275.405	0.165	MT025	Chinook-Archin complex, 2 to 8 percent slopes	0.076
Steel City	Montana	Fallon	275.405	275.478	0.074	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.070
Steel City	Montana	Fallon	275.478	275.529	0.051	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.049
Steel City	Montana	Fallon	275.529	275.570	0.041	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.039
Steel City	Montana	Fallon	275.570	275.658	0.088	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.086
Steel City	Montana	Fallon	275.658	275.745	0.087	MT025	Carfall-Assinniboine complex, 2 to 8 percent slopes	0.080
Steel City	Montana	Fallon	275.745	275.817	0.072	MT025	Parchin-Bullock complex, 2 to 8 percent slopes	0.070
Steel City	Montana	Fallon	275.817	276.155	0.338	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.331

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	276.155	276.314	0.158	MT025	Gerdrum-Absher complex, 0 to 2 percent slopes	0.157
Steel City	Montana	Fallon	276.314	276.494	0.180	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.169
Steel City	Montana	Fallon	276.494	276.577	0.083	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.082
Steel City	Montana	Fallon	276.577	276.666	0.089	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.083
Steel City	Montana	Fallon	276.666	277.296	0.630	MT025	Gerdrum-Absher complex, 2 to 8 percent slopes	0.624
Steel City	Montana	Fallon	277.296	277.334	0.039	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.038
Steel City	Montana	Fallon	277.334	277.898	0.564	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.304
Steel City	Montana	Fallon	277.898	277.998	0.100	MT025	Ynot sandy loam, 2 to 8 percent slopes	0.003
Steel City	Montana	Fallon	277.998	278.286	0.287	MT025	Archin-Ynot complex, 2 to 8 percent slopes	0.155
Steel City	Montana	Fallon	278.286	278.714	0.429	MT025	Archin-Absher complex, 0 to 2 percent slopes	0.429
Steel City	Montana	Fallon	278.714	278.751	0.037	MT025	Gerdrum-Absher complex, 0 to 2 percent slopes	0.037
Steel City	Montana	Fallon	278.751	279.095	0.344	MT025	Archin-Absher complex, 0 to 2 percent slopes	0.344
Steel City	Montana	Fallon	279.095	279.212	0.117	MT025	Gerdrum-Absher complex, 0 to 2 percent slopes	0.116
Steel City	Montana	Fallon	279.212	279.232	0.020	MT025	Archin-Absher complex, 0 to 2 percent slopes	0.020
Steel City	Montana	Fallon	279.232	279.237	0.005	MT025	Gerdrum-Absher complex, 0 to 2 percent slopes	0.005
Steel City	Montana	Fallon	279.237	279.448	0.211	MT025	Archin-Absher complex, 0 to 2 percent slopes	0.211
Steel City	Montana	Fallon	279.448	279.464	0.015	MT025	Gerdrum-Absher complex, 0 to 2 percent slopes	0.015
Steel City	Montana	Fallon	279.464	279.646	0.183	MT025	Busby, gullied-Delpoint-Yawdim complex, 8 to 25 percent slopes	0.117
Steel City	Montana	Fallon	279.646	280.077	0.431	MT025	Archin loam, 2 to 8 percent slopes	0.405
Steel City	Montana	Fallon	280.077	280.249	0.171	MT025	Archin-Absher complex, 2 to 8 percent slopes	0.166
Steel City	Montana	Fallon	280.249	280.313	0.064	MT025	Busby-Blacksheep-Twilight fine sandy loams, 8 to 25 percent slopes	0.003
Steel City	Montana	Fallon	280.313	280.340	0.027	MT025	Assinniboine-Ynot complex, 2 to 8 percent slopes	0.016
Steel City	Montana	Fallon	280.340	280.784	0.445	MT025	Bonfri-Cambeth complex, 2 to 8 percent slopes	0.422
Steel City	Montana	Fallon	280.784	280.864	0.079	MT025	Parchin-Bullock complex, 2 to 8 percent slopes	0.077
Steel City	Montana	Fallon	280.864	281.267	0.404	MT025	Creed-Gerdrum complex, 2 to 8 percent slopes	0.396
Steel City	Montana	Fallon	281.267	281.428	0.161	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.152
Steel City	Montana	Fallon	281.428	281.465	0.036	MT025	Glendive sandy loam, 0 to 2 percent slopes	0.002

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Montana	Fallon	281.477	281.719	0.242	MT025	Glendive sandy loam, 0 to 2 percent slopes	0.015
Steel City	Montana	Fallon	281.719	281.948	0.228	MT025	Eapa-Yamacall loams, 2 to 8 percent slopes	0.228
Steel City	Montana	Fallon	281.948	282.066	0.118	MT025	Yamacall-Cabbart loams, 15 to 35 percent slopes	0.111
Steel City	Montana	Fallon	282.066	282.157	0.091	MT025	Parchin-Bullock complex, 2 to 8 percent slopes	0.088
Steel City	Montana	Fallon	282.157	282.324	0.167	MT025	Archin loam, 2 to 8 percent slopes	0.157
Steel City	Montana	Fallon	282.324	282.347	0.024	MT025	Bonfri-Parchin complex, 2 to 8 percent slopes	0.023
Steel City	Montana	Fallon	282.347	282.665	0.318	MT025	Parchin-Bullock complex, 2 to 8 percent slopes	0.309
Steel City	South Dakota	Harding	282.665	282.668	0.002	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.002
Steel City	South Dakota	Harding	282.668	282.830	0.162	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.032
Steel City	South Dakota	Harding	282.830	282.847	0.017	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.016
Steel City	South Dakota	Harding	282.847	283.089	0.242	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.085
Steel City	South Dakota	Harding	283.089	283.216	0.126	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.051
Steel City	South Dakota	Harding	283.216	283.267	0.051	SD063	Delridge-Cabbart loams, 6 to 15 percent slopes	0.048
Steel City	South Dakota	Harding	283.267	283.651	0.384	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.153
Steel City	South Dakota	Harding	283.651	283.862	0.212	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.136
Steel City	South Dakota	Harding	283.862	283.946	0.084	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.034
Steel City	South Dakota	Harding	283.946	284.038	0.092	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.059
Steel City	South Dakota	Harding	284.038	284.120	0.083	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.073
Steel City	South Dakota	Harding	284.120	284.159	0.039	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.008
Steel City	South Dakota	Harding	284.159	284.274	0.115	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.101
Steel City	South Dakota	Harding	284.274	284.301	0.027	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.017
Steel City	South Dakota	Harding	284.301	284.383	0.082	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.072
Steel City	South Dakota	Harding	284.383	284.425	0.042	SD063	Badlands	0.005

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	284.425	284.440	0.015	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.013
Steel City	South Dakota	Harding	284.440	284.581	0.141	SD063	Cabbart-Delridge loams, 15 to 40 percent slopes	0.125
Steel City	South Dakota	Harding	284.581	284.691	0.110	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.097
Steel City	South Dakota	Harding	284.691	284.711	0.020	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.013
Steel City	South Dakota	Harding	284.711	284.948	0.237	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.209
Steel City	South Dakota	Harding	284.948	285.015	0.067	SD063	Cabbart-Delridge loams, 15 to 40 percent slopes	0.060
Steel City	South Dakota	Harding	285.015	285.208	0.192	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.169
Steel City	South Dakota	Harding	285.208	285.276	0.068	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.063
Steel City	South Dakota	Harding	285.276	285.335	0.059	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.052
Steel City	South Dakota	Harding	285.335	285.355	0.020	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.019
Steel City	South Dakota	Harding	285.355	285.627	0.272	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.239
Steel City	South Dakota	Harding	285.627	285.772	0.144	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.134
Steel City	South Dakota	Harding	285.772	286.184	0.412	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.165
Steel City	South Dakota	Harding	286.184	286.259	0.075	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.070
Steel City	South Dakota	Harding	286.259	286.453	0.194	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.078
Steel City	South Dakota	Harding	286.453	286.491	0.038	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.035
Steel City	South Dakota	Harding	286.491	286.550	0.059	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.023
Steel City	South Dakota	Harding	286.550	286.733	0.183	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.170
Steel City	South Dakota	Harding	286.733	286.825	0.092	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.037
Steel City	South Dakota	Harding	286.825	286.908	0.083	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.077
Steel City	South Dakota	Harding	286.908	286.944	0.036	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.014

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	286.944	286.990	0.046	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.043
Steel City	South Dakota	Harding	286.990	287.276	0.285	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.114
Steel City	South Dakota	Harding	287.276	287.666	0.390	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.078
Steel City	South Dakota	Harding	287.666	287.730	0.065	SD063	Kirby-Cabbart-Rock outcrop complex, 15 to 60 percent slopes	0.026
Steel City	South Dakota	Harding	287.730	287.761	0.031	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.006
Steel City	South Dakota	Harding	287.761	287.915	0.154	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.143
Steel City	South Dakota	Harding	287.915	287.964	0.049	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.048
Steel City	South Dakota	Harding	287.964	287.985	0.020	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.019
Steel City	South Dakota	Harding	287.985	288.052	0.068	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.066
Steel City	South Dakota	Harding	288.052	288.235	0.183	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.170
Steel City	South Dakota	Harding	288.235	288.273	0.037	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.033
Steel City	South Dakota	Harding	288.273	288.385	0.112	SD063	Delridge-Cabbart loams, 6 to 15 percent slopes	0.105
Steel City	South Dakota	Harding	288.385	288.452	0.068	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.066
Steel City	South Dakota	Harding	288.452	288.672	0.220	SD063	Delridge-Cabbart loams, 6 to 15 percent slopes	0.207
Steel City	South Dakota	Harding	288.672	288.757	0.085	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.082
Steel City	South Dakota	Harding	288.757	288.962	0.205	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.205
Steel City	South Dakota	Harding	288.962	288.992	0.030	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.029
Steel City	South Dakota	Harding	288.992	289.067	0.074	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.074
Steel City	South Dakota	Harding	289.067	289.177	0.110	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.107
Steel City	South Dakota	Harding	289.177	289.291	0.114	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.114
Steel City	South Dakota	Harding	289.291	289.452	0.161	SD063	Eapa-Archin complex, 0 to 3 percent slopes	0.152

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	289.452	289.497	0.044	SD063	Sage loam	0.044
Steel City	South Dakota	Harding	289.497	289.694	0.197	SD063	Korchea loam, channeled	0.189
Steel City	South Dakota	Harding	289.694	289.936	0.242	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.155
Steel City	South Dakota	Harding	289.936	289.967	0.032	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.030
Steel City	South Dakota	Harding	289.967	289.986	0.018	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.006
Steel City	South Dakota	Harding	289.986	290.036	0.051	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.047
Steel City	South Dakota	Harding	290.036	290.218	0.181	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.063
Steel City	South Dakota	Harding	290.218	290.524	0.307	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.285
Steel City	South Dakota	Harding	290.524	290.605	0.081	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.070
Steel City	South Dakota	Harding	290.605	290.698	0.093	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.087
Steel City	South Dakota	Harding	290.698	290.777	0.079	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.028
Steel City	South Dakota	Harding	290.777	290.930	0.153	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.142
Steel City	South Dakota	Harding	290.930	290.953	0.024	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.009
Steel City	South Dakota	Harding	290.953	291.054	0.100	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.093
Steel City	South Dakota	Harding	291.054	291.210	0.156	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.137
Steel City	South Dakota	Harding	291.210	291.294	0.084	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.034
Steel City	South Dakota	Harding	291.294	291.437	0.143	SD063	Bullock-Slickspots complex, 0 to 4 percent slopes	0.137
Steel City	South Dakota	Harding	291.437	291.745	0.308	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.308
Steel City	South Dakota	Harding	291.745	291.906	0.161	SD063	Havre loam	0.156
Steel City	South Dakota	Harding	291.906	292.080	0.174	SD063	Glendive fine sandy loam	0.174
Steel City	South Dakota	Harding	292.115	292.145	0.029	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.019

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	292.145	292.461	0.316	SD063	Havre-Harlake complex	0.297
Steel City	South Dakota	Harding	292.461	292.483	0.022	SD063	Glendive fine sandy loam	0.022
Steel City	South Dakota	Harding	292.483	292.606	0.123	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.079
Steel City	South Dakota	Harding	292.606	292.844	0.238	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.222
Steel City	South Dakota	Harding	292.844	293.288	0.443	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.089
Steel City	South Dakota	Harding	293.288	293.343	0.055	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.007
Steel City	South Dakota	Harding	293.343	293.970	0.627	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.251
Steel City	South Dakota	Harding	293.970	293.986	0.016	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.010
Steel City	South Dakota	Harding	293.986	294.032	0.046	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.018
Steel City	South Dakota	Harding	294.032	294.135	0.103	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.066
Steel City	South Dakota	Harding	294.135	294.141	0.006	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.006
Steel City	South Dakota	Harding	294.141	294.227	0.085	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.083
Steel City	South Dakota	Harding	294.227	294.280	0.053	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.049
Steel City	South Dakota	Harding	294.280	294.311	0.031	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.030
Steel City	South Dakota	Harding	294.311	294.374	0.063	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.059
Steel City	South Dakota	Harding	294.374	294.425	0.051	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.050
Steel City	South Dakota	Harding	294.425	294.541	0.116	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.108
Steel City	South Dakota	Harding	294.541	294.637	0.096	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.093
Steel City	South Dakota	Harding	294.637	294.703	0.066	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.061
Steel City	South Dakota	Harding	294.703	295.019	0.316	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.307
Steel City	South Dakota	Harding	295.019	295.106	0.086	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.080

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	295.106	295.243	0.138	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.133
Steel City	South Dakota	Harding	295.243	295.316	0.073	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.067
Steel City	South Dakota	Harding	295.316	295.434	0.118	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.115
Steel City	South Dakota	Harding	295.434	295.634	0.200	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.176
Steel City	South Dakota	Harding	295.634	295.696	0.062	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.060
Steel City	South Dakota	Harding	295.696	295.802	0.106	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.094
Steel City	South Dakota	Harding	295.802	295.822	0.019	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.017
Steel City	South Dakota	Harding	295.822	295.884	0.062	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.061
Steel City	South Dakota	Harding	295.884	296.119	0.236	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.205
Steel City	South Dakota	Harding	296.119	296.420	0.300	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.279
Steel City	South Dakota	Harding	296.420	296.770	0.350	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.140
Steel City	South Dakota	Harding	296.770	297.049	0.279	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.271
Steel City	South Dakota	Harding	297.049	297.291	0.242	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.225
Steel City	South Dakota	Harding	297.291	297.640	0.349	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.339
Steel City	South Dakota	Harding	297.640	297.869	0.229	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.215
Steel City	South Dakota	Harding	297.869	297.998	0.129	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.052
Steel City	South Dakota	Harding	297.998	298.073	0.075	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.015
Steel City	South Dakota	Harding	298.073	298.236	0.163	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.065
Steel City	South Dakota	Harding	298.236	298.309	0.074	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.064
Steel City	South Dakota	Harding	298.309	298.524	0.214	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.086
Steel City	South Dakota	Harding	298.524	299.129	0.605	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.563

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	299.129	299.211	0.082	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.029
Steel City	South Dakota	Harding	299.211	299.640	0.429	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.399
Steel City	South Dakota	Harding	299.640	299.772	0.132	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.053
Steel City	South Dakota	Harding	299.772	299.818	0.046	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.009
Steel City	South Dakota	Harding	299.818	299.864	0.047	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.019
Steel City	South Dakota	Harding	299.864	299.962	0.098	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.034
Steel City	South Dakota	Harding	299.962	300.014	0.052	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.048
Steel City	South Dakota	Harding	300.014	300.045	0.031	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.011
Steel City	South Dakota	Harding	300.045	300.088	0.043	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.040
Steel City	South Dakota	Harding	300.088	300.209	0.121	SD063	Sage loam	0.121
Steel City	South Dakota	Harding	300.209	300.270	0.061	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.024
Steel City	South Dakota	Harding	300.270	300.395	0.125	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.110
Steel City	South Dakota	Harding	300.395	300.475	0.080	SD063	Sage loam	0.080
Steel City	South Dakota	Harding	300.475	300.783	0.308	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.123
Steel City	South Dakota	Harding	300.783	300.865	0.082	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.076
Steel City	South Dakota	Harding	300.865	301.032	0.167	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.033
Steel City	South Dakota	Harding	301.032	301.253	0.221	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.088
Steel City	South Dakota	Harding	301.253	301.315	0.062	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.060
Steel City	South Dakota	Harding	301.315	301.489	0.175	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.162
Steel City	South Dakota	Harding	301.489	301.577	0.088	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.085
Steel City	South Dakota	Harding	301.577	301.947	0.369	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.325

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	301.947	302.039	0.092	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.032
Steel City	South Dakota	Harding	302.039	302.072	0.033	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.007
Steel City	South Dakota	Harding	302.072	302.179	0.107	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.069
Steel City	South Dakota	Harding	302.179	302.489	0.310	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.288
Steel City	South Dakota	Harding	302.489	302.570	0.081	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.016
Steel City	South Dakota	Harding	302.570	302.740	0.170	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.158
Steel City	South Dakota	Harding	302.740	303.247	0.507	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.203
Steel City	South Dakota	Harding	303.247	303.385	0.138	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.134
Steel City	South Dakota	Harding	303.385	303.806	0.421	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.084
Steel City	South Dakota	Harding	303.806	303.894	0.088	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.035
Steel City	South Dakota	Harding	303.894	304.122	0.228	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.146
Steel City	South Dakota	Harding	304.122	304.252	0.130	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.126
Steel City	South Dakota	Harding	304.252	304.432	0.179	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.167
Steel City	South Dakota	Harding	304.432	304.602	0.170	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.170
Steel City	South Dakota	Harding	304.602	304.669	0.067	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.059
Steel City	South Dakota	Harding	304.669	304.870	0.201	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.195
Steel City	South Dakota	Harding	304.870	305.175	0.305	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.268
Steel City	South Dakota	Harding	305.175	305.284	0.109	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.044
Steel City	South Dakota	Harding	305.284	305.361	0.078	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.009
Steel City	South Dakota	Harding	305.361	305.475	0.114	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.040
Steel City	South Dakota	Harding	305.475	305.730	0.255	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.031

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	305.730	306.063	0.333	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.116
Steel City	South Dakota	Harding	306.063	306.513	0.451	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.424
Steel City	South Dakota	Harding	306.513	306.542	0.028	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.028
Steel City	South Dakota	Harding	306.542	306.718	0.176	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.171
Steel City	South Dakota	Harding	306.718	307.080	0.361	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.126
Steel City	South Dakota	Harding	307.080	307.188	0.109	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.043
Steel City	South Dakota	Harding	307.188	307.374	0.185	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.172
Steel City	South Dakota	Harding	307.374	307.497	0.123	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.120
Steel City	South Dakota	Harding	307.497	307.509	0.013	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.011
Steel City	South Dakota	Harding	307.509	307.605	0.095	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.089
Steel City	South Dakota	Harding	307.605	307.844	0.239	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.210
Steel City	South Dakota	Harding	307.844	307.951	0.107	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.043
Steel City	South Dakota	Harding	307.951	308.035	0.084	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.078
Steel City	South Dakota	Harding	308.035	308.111	0.076	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.015
Steel City	South Dakota	Harding	308.111	308.623	0.512	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.451
Steel City	South Dakota	Harding	308.623	308.674	0.051	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.032
Steel City	South Dakota	Harding	308.674	308.776	0.102	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.099
Steel City	South Dakota	Harding	308.776	308.967	0.191	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.166
Steel City	South Dakota	Harding	308.967	309.214	0.247	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.240
Steel City	South Dakota	Harding	309.214	309.424	0.210	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.185
Steel City	South Dakota	Harding	309.424	309.579	0.155	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.099

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	309.579	310.009	0.431	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.086
Steel City	South Dakota	Harding	310.009	310.109	0.100	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.064
Steel City	South Dakota	Harding	310.109	310.308	0.199	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.040
Steel City	South Dakota	Harding	310.308	310.568	0.260	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.242
Steel City	South Dakota	Harding	310.568	310.605	0.037	SD063	Badlands	0.004
Steel City	South Dakota	Harding	310.605	310.677	0.072	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.064
Steel City	South Dakota	Harding	310.677	310.913	0.236	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.094
Steel City	South Dakota	Harding	310.913	311.014	0.101	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.020
Steel City	South Dakota	Harding	311.014	311.419	0.404	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.162
Steel City	South Dakota	Harding	311.419	311.511	0.093	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.090
Steel City	South Dakota	Harding	311.511	311.813	0.301	SD063	Cabbart-Delridge loams, 15 to 40 percent slopes	0.268
Steel City	South Dakota	Harding	311.813	312.001	0.189	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.176
Steel City	South Dakota	Harding	312.001	312.616	0.614	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.246
Steel City	South Dakota	Harding	312.616	312.816	0.200	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.186
Steel City	South Dakota	Harding	312.816	313.102	0.286	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.252
Steel City	South Dakota	Harding	313.102	313.263	0.161	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.024
Steel City	South Dakota	Harding	313.263	313.322	0.059	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.052
Steel City	South Dakota	Harding	313.322	313.464	0.142	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.057
Steel City	South Dakota	Harding	313.464	313.623	0.159	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.032
Steel City	South Dakota	Harding	313.623	313.723	0.100	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.035
Steel City	South Dakota	Harding	313.723	313.818	0.096	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.011

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	313.818	313.919	0.101	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.035
Steel City	South Dakota	Harding	313.919	314.228	0.308	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.123
Steel City	South Dakota	Harding	314.228	314.355	0.128	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.015
Steel City	South Dakota	Harding	314.355	314.646	0.291	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.049
Steel City	South Dakota	Harding	314.646	314.730	0.085	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.034
Steel City	South Dakota	Harding	314.730	314.829	0.098	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.020
Steel City	South Dakota	Harding	314.829	314.862	0.033	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.004
Steel City	South Dakota	Harding	314.862	315.048	0.186	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.028
Steel City	South Dakota	Harding	315.048	315.233	0.186	SD063	Marmarth fine sandy loam, 2 to 6 percent slopes	0.174
Steel City	South Dakota	Harding	315.233	315.292	0.058	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.020
Steel City	South Dakota	Harding	315.292	315.412	0.121	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.018
Steel City	South Dakota	Harding	315.412	315.529	0.117	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.041
Steel City	South Dakota	Harding	315.529	315.816	0.287	SD063	Assinniboine fine sandy loam, 3 to 6 percent slopes	0.287
Steel City	South Dakota	Harding	315.816	315.899	0.084	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.078
Steel City	South Dakota	Harding	315.899	316.306	0.407	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.049
Steel City	South Dakota	Harding	316.306	316.559	0.252	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.088
Steel City	South Dakota	Harding	316.559	316.691	0.132	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.128
Steel City	South Dakota	Harding	316.691	316.812	0.121	SD063	Zeona-Blownout land complex, 2 to 15 percent slopes	0.006
Steel City	South Dakota	Harding	316.812	316.914	0.101	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.036
Steel City	South Dakota	Harding	316.914	317.001	0.087	SD063	Zeona-Blownout land complex, 2 to 15 percent slopes	0.004
Steel City	South Dakota	Harding	317.001	317.072	0.071	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.025

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	317.072	317.150	0.078	SD063	Zeona-Blownout land complex, 2 to 15 percent slopes	0.004
Steel City	South Dakota	Harding	317.150	317.316	0.166	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.162
Steel City	South Dakota	Harding	317.316	317.456	0.139	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.123
Steel City	South Dakota	Harding	317.456	317.536	0.081	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.032
Steel City	South Dakota	Harding	317.536	317.767	0.231	SD063	Chinook-Archin fine sandy loams, 0 to 3 percent slopes	0.104
Steel City	South Dakota	Harding	317.767	317.843	0.076	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.030
Steel City	South Dakota	Harding	317.843	318.055	0.212	SD063	Hanly fine sandy loam	0.025
Steel City	South Dakota	Harding	318.055	318.207	0.153	SD063	Hanly-Dogiecreek fine sandy loams	0.031
Steel City	South Dakota	Harding	318.207	318.313	0.106	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.049
Steel City	South Dakota	Harding	318.313	318.579	0.266	SD063	Zeona-Blownout land complex, 2 to 15 percent slopes	0.013
Steel City	South Dakota	Harding	318.579	318.645	0.066	SD063	Zeona loamy fine sand, 2 to 9 percent slopes	0.005
Steel City	South Dakota	Harding	318.645	318.835	0.190	SD063	Zeona-Blownout land complex, 2 to 15 percent slopes	0.009
Steel City	South Dakota	Harding	318.835	319.077	0.242	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.111
Steel City	South Dakota	Harding	319.077	319.153	0.076	SD063	Zeona loamy fine sand, 2 to 9 percent slopes	0.006
Steel City	South Dakota	Harding	319.153	319.535	0.382	SD063	Trey loamy fine sand, 2 to 9 percent slopes	0.031
Steel City	South Dakota	Harding	319.535	319.612	0.077	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.035
Steel City	South Dakota	Harding	319.612	319.812	0.201	SD063	Zeona loamy fine sand, 2 to 9 percent slopes	0.016
Steel City	South Dakota	Harding	319.812	320.092	0.280	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.129
Steel City	South Dakota	Harding	320.092	320.256	0.164	SD063	Trey loamy fine sand, 2 to 9 percent slopes	0.013
Steel City	South Dakota	Harding	320.256	320.861	0.605	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.278
Steel City	South Dakota	Harding	320.861	320.977	0.116	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.020

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	320.977	321.225	0.247	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.114
Steel City	South Dakota	Harding	321.225	321.447	0.222	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.038
Steel City	South Dakota	Harding	321.447	322.227	0.780	SD063	Chinook fine sandy loam, 0 to 3 percent slopes	0.117
Steel City	South Dakota	Harding	322.227	322.639	0.412	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.144
Steel City	South Dakota	Harding	322.639	322.764	0.126	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.021
Steel City	South Dakota	Harding	322.764	322.945	0.180	SD063	Hanly-Dogiecreek fine sandy loams	0.036
Steel City	South Dakota	Harding	322.945	323.162	0.218	SD063	Hanly loamy fine sand	0.024
Steel City	South Dakota	Harding	323.162	323.272	0.110	SD063	Hanly-Slickspots complex	0.043
Steel City	South Dakota	Harding	323.272	323.631	0.359	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.165
Steel City	South Dakota	Harding	323.631	323.982	0.350	SD063	Zeona loamy fine sand, 2 to 9 percent slopes	0.028
Steel City	South Dakota	Harding	323.982	324.320	0.338	SD063	Zeona loamy fine sand, 9 to 25 percent slopes	0.034
Steel City	South Dakota	Harding	324.437	324.615	0.178	SD063	Zeona loamy fine sand, 9 to 25 percent slopes	0.018
Steel City	South Dakota	Harding	324.615	324.933	0.318	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.054
Steel City	South Dakota	Harding	324.933	325.232	0.299	SD063	Trey loamy fine sand, 2 to 9 percent slopes	0.024
Steel City	South Dakota	Harding	325.232	325.237	0.004	SD063	Fleak-Trey-Rock outcrop complex, 15 to 50 percent slopes	0.000
Steel City	South Dakota	Harding	325.237	325.505	0.268	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.046
Steel City	South Dakota	Harding	325.505	325.809	0.305	SD063	Fleak-Trey-Rock outcrop complex, 15 to 50 percent slopes	0.030
Steel City	South Dakota	Harding	325.809	325.895	0.086	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.010
Steel City	South Dakota	Harding	325.895	325.947	0.051	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.018
Steel City	South Dakota	Harding	325.947	325.991	0.044	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.005
Steel City	South Dakota	Harding	325.991	326.330	0.338	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.118

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	326.330	326.630	0.300	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.045
Steel City	South Dakota	Harding	326.630	326.744	0.114	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.014
Steel City	South Dakota	Harding	326.744	326.992	0.248	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.248
Steel City	South Dakota	Harding	326.992	327.031	0.039	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.014
Steel City	South Dakota	Harding	327.031	327.203	0.172	SD063	Assinniboine fine sandy loam, 3 to 6 percent slopes	0.172
Steel City	South Dakota	Harding	327.203	327.236	0.033	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.033
Steel City	South Dakota	Harding	327.236	327.495	0.259	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.241
Steel City	South Dakota	Harding	327.495	327.694	0.199	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.070
Steel City	South Dakota	Harding	327.694	327.953	0.259	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.039
Steel City	South Dakota	Harding	327.953	328.053	0.099	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.092
Steel City	South Dakota	Harding	328.053	328.481	0.428	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.064
Steel City	South Dakota	Harding	328.481	328.531	0.050	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.047
Steel City	South Dakota	Harding	328.531	328.701	0.170	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.170
Steel City	South Dakota	Harding	328.701	328.719	0.018	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.017
Steel City	South Dakota	Harding	328.719	328.726	0.007	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.007
Steel City	South Dakota	Harding	328.726	328.843	0.117	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.113
Steel City	South Dakota	Harding	328.843	328.910	0.067	SD063	Korchea loam	0.067
Steel City	South Dakota	Harding	328.910	329.273	0.363	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.352
Steel City	South Dakota	Harding	329.273	329.396	0.123	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.079
Steel City	South Dakota	Harding	329.396	329.459	0.063	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.058
Steel City	South Dakota	Harding	329.459	329.535	0.076	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.049

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	329.535	329.663	0.128	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.113
Steel City	South Dakota	Harding	329.663	329.811	0.148	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.138
Steel City	South Dakota	Harding	329.811	329.975	0.164	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.144
Steel City	South Dakota	Harding	329.975	330.022	0.047	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.044
Steel City	South Dakota	Harding	330.022	330.090	0.068	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.060
Steel City	South Dakota	Harding	330.090	330.168	0.078	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.072
Steel City	South Dakota	Harding	330.168	330.667	0.500	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.440
Steel City	South Dakota	Harding	330.667	330.734	0.067	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.027
Steel City	South Dakota	Harding	330.734	330.757	0.023	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.022
Steel City	South Dakota	Harding	330.757	330.786	0.029	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.025
Steel City	South Dakota	Harding	330.786	330.957	0.171	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.161
Steel City	South Dakota	Harding	330.957	331.060	0.103	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.100
Steel City	South Dakota	Harding	331.060	331.183	0.123	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.116
Steel City	South Dakota	Harding	331.183	331.276	0.093	SD063	Cabbart loam, 6 to 60 percent slopes, extremely stony	0.086
Steel City	South Dakota	Harding	331.276	331.381	0.105	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.091
Steel City	South Dakota	Harding	331.381	331.867	0.486	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.428
Steel City	South Dakota	Harding	331.867	332.175	0.308	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.298
Steel City	South Dakota	Harding	332.175	332.587	0.412	SD063	Tanna-Rhoades complex, 2 to 9 percent slopes	0.412
Steel City	South Dakota	Harding	332.587	332.847	0.259	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.241
Steel City	South Dakota	Harding	332.847	332.931	0.085	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.082
Steel City	South Dakota	Harding	332.931	333.085	0.154	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.135

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	333.085	333.154	0.069	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.064
Steel City	South Dakota	Harding	333.154	333.284	0.130	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.114
Steel City	South Dakota	Harding	333.284	333.691	0.408	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.379
Steel City	South Dakota	Harding	333.691	333.945	0.254	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.221
Steel City	South Dakota	Harding	333.945	334.009	0.063	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.056
Steel City	South Dakota	Harding	334.009	334.099	0.090	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.078
Steel City	South Dakota	Harding	334.099	334.254	0.155	SD063	Marmarth-Twilight fine sandy loams, 9 to 15 percent slopes	0.098
Steel City	South Dakota	Harding	334.254	334.425	0.172	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.069
Steel City	South Dakota	Harding	334.425	334.523	0.098	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.063
Steel City	South Dakota	Harding	334.523	334.588	0.065	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.023
Steel City	South Dakota	Harding	334.588	334.742	0.154	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.136
Steel City	South Dakota	Harding	334.742	334.842	0.101	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.040
Steel City	South Dakota	Harding	334.842	334.890	0.048	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.044
Steel City	South Dakota	Harding	334.890	336.004	1.114	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.446
Steel City	South Dakota	Harding	336.004	336.100	0.096	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.019
Steel City	South Dakota	Harding	336.100	336.237	0.137	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.055
Steel City	South Dakota	Harding	336.237	336.383	0.146	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.029
Steel City	South Dakota	Harding	336.383	336.546	0.162	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.065
Steel City	South Dakota	Harding	336.546	336.663	0.118	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.109
Steel City	South Dakota	Harding	336.663	336.830	0.167	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.147
Steel City	South Dakota	Harding	336.830	337.057	0.226	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.045

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	337.057	337.122	0.066	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.026
Steel City	South Dakota	Harding	337.122	337.258	0.136	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.119
Steel City	South Dakota	Harding	337.258	337.365	0.107	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.100
Steel City	South Dakota	Harding	337.365	337.731	0.366	SD063	Marmarth-Parchin fine sandy loams, 2 to 6 percent slopes	0.318
Steel City	South Dakota	Harding	337.731	337.799	0.069	SD063	Marmarth-Twilight fine sandy loams, 6 to 9 percent slopes	0.045
Steel City	South Dakota	Harding	337.799	337.834	0.035	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.007
Steel City	South Dakota	Harding	337.834	337.909	0.074	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.074
Steel City	South Dakota	Harding	337.909	338.077	0.168	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.156
Steel City	South Dakota	Harding	338.077	338.136	0.059	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.052
Steel City	South Dakota	Harding	338.136	338.233	0.098	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.091
Steel City	South Dakota	Harding	338.233	338.519	0.286	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.286
Steel City	South Dakota	Harding	338.519	338.640	0.121	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.112
Steel City	South Dakota	Harding	338.640	338.864	0.224	SD063	Rhame fine sandy loam, 2 to 6 percent slopes	0.034
Steel City	South Dakota	Harding	338.864	338.920	0.056	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.020
Steel City	South Dakota	Harding	338.920	339.031	0.112	SD063	Cabbart-Delridge loams, 15 to 40 percent slopes	0.099
Steel City	South Dakota	Harding	339.031	339.194	0.162	SD063	Korchea loam, channeled	0.156
Steel City	South Dakota	Harding	339.194	339.366	0.172	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.151
Steel City	South Dakota	Harding	339.366	339.383	0.018	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.011
Steel City	South Dakota	Harding	339.383	339.444	0.060	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.021
Steel City	South Dakota	Harding	339.444	339.579	0.136	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.119
Steel City	South Dakota	Harding	339.579	339.813	0.233	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.233

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	339.813	339.940	0.127	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.127
Steel City	South Dakota	Harding	339.940	339.983	0.043	SD063	Assinniboine fine sandy loam, 0 to 3 percent slopes	0.043
Steel City	South Dakota	Harding	339.983	340.058	0.075	SD063	Havre-Harlake complex	0.071
Steel City	South Dakota	Harding	340.058	340.182	0.124	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.043
Steel City	South Dakota	Harding	340.182	340.463	0.281	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.281
Steel City	South Dakota	Harding	340.463	340.645	0.182	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.171
Steel City	South Dakota	Harding	340.645	340.895	0.250	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.243
Steel City	South Dakota	Harding	340.895	341.032	0.137	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.055
Steel City	South Dakota	Harding	341.032	341.065	0.033	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.031
Steel City	South Dakota	Harding	341.065	341.113	0.048	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.019
Steel City	South Dakota	Harding	341.113	341.173	0.061	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.056
Steel City	South Dakota	Harding	341.173	341.228	0.055	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.052
Steel City	South Dakota	Harding	341.228	341.336	0.108	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.100
Steel City	South Dakota	Harding	341.336	342.060	0.724	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.681
Steel City	South Dakota	Harding	342.060	342.119	0.059	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.059
Steel City	South Dakota	Harding	342.119	342.182	0.063	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.059
Steel City	South Dakota	Harding	342.182	342.285	0.103	SD063	Assinniboine fine sandy loam, 0 to 3 percent slopes	0.103
Steel City	South Dakota	Harding	342.285	342.446	0.161	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.152
Steel City	South Dakota	Harding	342.446	342.650	0.204	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.179
Steel City	South Dakota	Harding	342.650	342.851	0.201	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.195
Steel City	South Dakota	Harding	342.851	342.888	0.037	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.013

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	342.888	343.064	0.176	SD063	Gerdrum silt loam, 0 to 4 percent slopes	0.176
Steel City	South Dakota	Harding	343.064	343.173	0.108	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.105
Steel City	South Dakota	Harding	343.173	343.274	0.101	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.094
Steel City	South Dakota	Harding	343.274	343.321	0.047	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.042
Steel City	South Dakota	Harding	343.321	343.515	0.194	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.180
Steel City	South Dakota	Harding	343.515	343.733	0.218	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.026
Steel City	South Dakota	Harding	343.733	343.873	0.140	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.056
Steel City	South Dakota	Harding	343.873	344.024	0.150	SD063	Assinniboine-Archin fine sandy loams, 0 to 3 percent slopes	0.150
Steel City	South Dakota	Harding	344.024	344.140	0.117	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.041
Steel City	South Dakota	Harding	344.140	344.400	0.260	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.031
Steel City	South Dakota	Harding	344.400	344.564	0.164	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.145
Steel City	South Dakota	Harding	344.564	344.966	0.401	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.373
Steel City	South Dakota	Harding	344.966	345.060	0.094	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.038
Steel City	South Dakota	Harding	345.060	345.110	0.050	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.006
Steel City	South Dakota	Harding	345.110	345.415	0.305	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.107
Steel City	South Dakota	Harding	345.415	345.496	0.081	SD063	Twilight fine sandy loam, 6 to 9 percent slopes	0.010
Steel City	South Dakota	Harding	345.496	345.624	0.127	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.051
Steel City	South Dakota	Harding	345.624	345.789	0.166	SD063	Chinook fine sandy loam, 0 to 3 percent slopes	0.025
Steel City	South Dakota	Harding	345.789	345.906	0.116	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.047
Steel City	South Dakota	Harding	345.906	346.714	0.809	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.283
Steel City	South Dakota	Harding	346.714	346.766	0.052	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.046

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	346.766	346.790	0.024	SD063	Bullock-Slickspots complex, 0 to 4 percent slopes	0.023
Steel City	South Dakota	Harding	346.790	346.943	0.153	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.134
Steel City	South Dakota	Harding	346.943	347.078	0.135	SD063	Bullock-Slickspots complex, 0 to 4 percent slopes	0.130
Steel City	South Dakota	Harding	347.078	347.176	0.098	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.086
Steel City	South Dakota	Harding	347.176	347.219	0.044	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.017
Steel City	South Dakota	Harding	347.219	347.291	0.072	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.025
Steel City	South Dakota	Harding	347.291	347.312	0.021	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.008
Steel City	South Dakota	Harding	347.312	347.429	0.117	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.113
Steel City	South Dakota	Harding	347.429	347.490	0.062	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.012
Steel City	South Dakota	Harding	347.490	347.569	0.078	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.031
Steel City	South Dakota	Harding	347.569	347.586	0.018	SD063	Hanly loamy fine sand	0.002
Steel City	South Dakota	Harding	347.586	347.781	0.195	SD063	Sage loam	0.195
Steel City	South Dakota	Harding	347.781	347.884	0.103	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.021
Steel City	South Dakota	Harding	347.884	348.208	0.324	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.314
Steel City	South Dakota	Harding	348.208	348.328	0.120	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.024
Steel City	South Dakota	Harding	348.328	348.397	0.069	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.067
Steel City	South Dakota	Harding	348.397	348.479	0.082	SD063	Cabbart-Delridge loams, 15 to 40 percent slopes	0.073
Steel City	South Dakota	Harding	348.479	348.654	0.175	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.112
Steel City	South Dakota	Harding	348.654	348.799	0.146	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.137
Steel City	South Dakota	Harding	348.799	348.812	0.012	SD063	Chinook-Archin fine sandy loams, 0 to 3 percent slopes	0.006
Steel City	South Dakota	Harding	348.812	348.835	0.023	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.022

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	348.835	348.888	0.053	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.034
Steel City	South Dakota	Harding	348.888	348.970	0.082	SD063	Chinook-Archin fine sandy loams, 0 to 3 percent slopes	0.037
Steel City	South Dakota	Harding	348.970	349.276	0.306	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.287
Steel City	South Dakota	Harding	349.276	349.406	0.130	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.121
Steel City	South Dakota	Harding	349.406	349.434	0.029	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.011
Steel City	South Dakota	Harding	349.434	349.555	0.121	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.113
Steel City	South Dakota	Harding	349.555	349.578	0.022	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.009
Steel City	South Dakota	Harding	349.578	349.666	0.088	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.056
Steel City	South Dakota	Harding	349.666	349.886	0.220	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.205
Steel City	South Dakota	Harding	349.886	349.909	0.023	SD063	Trey-Parchin-Bullock complex, 2 to 9 percent slopes	0.011
Steel City	South Dakota	Harding	349.909	350.209	0.300	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.279
Steel City	South Dakota	Harding	350.209	350.307	0.098	SD063	Bullock fine sandy loam, 6 to 20 percent slopes, extremely stony	0.092
Steel City	South Dakota	Harding	350.307	350.346	0.038	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.015
Steel City	South Dakota	Harding	350.346	350.394	0.048	SD063	Cabbart loam, 6 to 60 percent slopes, extremely stony	0.044
Steel City	South Dakota	Harding	350.394	350.869	0.476	SD063	Twilight-Parchin fine sandy loams, 6 to 15 percent slopes	0.190
Steel City	South Dakota	Harding	350.869	350.978	0.109	SD063	Korchea-Archin complex	0.109
Steel City	South Dakota	Harding	350.978	351.009	0.031	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.020
Steel City	South Dakota	Harding	351.009	351.025	0.016	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.003
Steel City	South Dakota	Harding	351.025	351.200	0.175	SD063	Rhoades-Daglum loams, 2 to 9 percent slopes	0.169
Steel City	South Dakota	Harding	351.200	351.571	0.371	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.327
Steel City	South Dakota	Harding	351.571	351.743	0.171	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.060

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Harding	351.743	351.925	0.182	SD063	Bullock-Slickspots complex, 0 to 4 percent slopes	0.174
Steel City	South Dakota	Harding	351.925	351.957	0.033	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.030
Steel City	South Dakota	Harding	351.957	352.085	0.128	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.045
Steel City	South Dakota	Harding	352.085	352.247	0.162	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.143
Steel City	South Dakota	Harding	352.247	352.274	0.027	SD063	Parchin-Bullock fine sandy loams, 2 to 9 percent slopes	0.025
Steel City	South Dakota	Harding	352.274	352.352	0.077	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.068
Steel City	South Dakota	Harding	352.352	352.579	0.227	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.079
Steel City	South Dakota	Harding	352.579	352.761	0.182	SD063	Bullock-Parchin-Slickspots complex, 2 to 9 percent slopes	0.160
Steel City	South Dakota	Harding	352.761	353.065	0.304	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.106
Steel City	South Dakota	Harding	353.065	353.164	0.099	SD063	Cabbart-Rock outcrop complex, 15 to 40 percent slopes	0.063
Steel City	South Dakota	Harding	353.164	353.711	0.547	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.191
Steel City	South Dakota	Harding	353.711	353.865	0.154	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.150
Steel City	South Dakota	Harding	353.865	353.922	0.057	SD063	Trey-Fleak loamy fine sands, 2 to 15 percent slopes	0.010
Steel City	South Dakota	Harding	353.922	353.996	0.074	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.072
Steel City	South Dakota	Harding	353.996	354.031	0.035	SD063	Twilight-Blackhall fine sandy loams, 9 to 25 percent slopes	0.007
Steel City	South Dakota	Harding	354.031	354.069	0.038	SD063	Bullock-Cabbart complex, 6 to 25 percent slopes	0.037
Steel City	South Dakota	Harding	354.069	354.314	0.246	SD063	Rhame-Parchin fine sandy loams, 2 to 6 percent slopes	0.086
Steel City	South Dakota	Harding	354.314	354.339	0.025	SD063	Archin-Bullock fine sandy loams, 0 to 4 percent slopes	0.024
Steel City	South Dakota	Harding	354.339	354.361	0.022	SD063	Bullock-Slickspots complex, 0 to 4 percent slopes	0.021
Steel City	South Dakota	Butte	354.361	354.431	0.070	SD019	Absher-Slickspots complex, 0 to 9 percent slopes	0.067
Steel City	South Dakota	Butte	354.431	354.552	0.121	SD019	Zeona loamy fine sand, 0 to 6 percent slopes	0.024

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Butte	354.552	354.750	0.198	SD019	Absher-Slickspots complex, 0 to 9 percent slopes	0.190
Steel City	South Dakota	Butte	354.750	354.777	0.027	SD019	Zeona loamy fine sand, 0 to 6 percent slopes	0.005
Steel City	South Dakota	Butte	354.777	354.826	0.049	SD019	Absher-Slickspots complex, 0 to 9 percent slopes	0.047
Steel City	South Dakota	Butte	354.826	355.072	0.246	SD019	Zeona loamy fine sand, 0 to 6 percent slopes	0.049
Steel City	South Dakota	Butte	355.072	355.216	0.143	SD019	Badland	0.024
Steel City	South Dakota	Butte	355.216	355.405	0.189	SD019	Twilight fine sandy loam, 3 to 25 percent slopes	0.038
Steel City	South Dakota	Butte	355.405	355.696	0.292	SD019	Badland	0.050
Steel City	South Dakota	Butte	355.696	356.109	0.412	SD019	Sorum fine sandy loam, 0 to 6 percent slopes	0.371
Steel City	South Dakota	Butte	356.109	356.172	0.063	SD019	Archin-Slickspots complex, 0 to 3 percent slopes	0.061
Steel City	South Dakota	Butte	356.172	356.354	0.182	SD019	Twilight fine sandy loam, 3 to 25 percent slopes	0.036
Steel City	South Dakota	Butte	356.354	356.390	0.036	SD019	Parshall fine sandy loam, 0 to 3 percent slopes	0.004
Steel City	South Dakota	Butte	356.390	356.576	0.187	SD019	Sorum fine sandy loam, 0 to 6 percent slopes	0.168
Steel City	South Dakota	Butte	356.576	356.632	0.056	SD019	Chinook fine sandy loam, 0 to 3 percent slopes	0.006
Steel City	South Dakota	Butte	356.632	356.781	0.149	SD019	Sorum fine sandy loam, 0 to 6 percent slopes	0.134
Steel City	South Dakota	Butte	356.781	356.962	0.181	SD019	Hanly loamy fine sand,	0.018
Steel City	South Dakota	Butte	356.962	357.939	0.977	SD019	Zeona loamy fine sand, 0 to 6 percent slopes	0.195
Steel City	South Dakota	Butte	357.939	358.000	0.061	SD019	Archin-Slickspots complex, 0 to 3 percent slopes	0.059
Steel City	South Dakota	Butte	358.000	358.065	0.065	SD019	Badland	0.011
Steel City	South Dakota	Butte	358.065	358.096	0.030	SD019	Twilight fine sandy loam, 3 to 25 percent slopes	0.006
Steel City	South Dakota	Perkins	358.096	358.127	0.032	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.018
Steel City	South Dakota	Perkins	358.127	358.220	0.093	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.086

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Perkins	358.220	358.657	0.436	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.253
Steel City	South Dakota	Perkins	358.657	358.836	0.180	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.167
Steel City	South Dakota	Perkins	358.836	358.874	0.037	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.022
Steel City	South Dakota	Perkins	358.874	358.912	0.038	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.036
Steel City	South Dakota	Perkins	358.912	359.028	0.116	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.067
Steel City	South Dakota	Perkins	359.028	359.277	0.248	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.231
Steel City	South Dakota	Perkins	359.277	359.409	0.132	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.077
Steel City	South Dakota	Perkins	359.409	359.963	0.554	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.515
Steel City	South Dakota	Perkins	359.963	360.228	0.266	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.154
Steel City	South Dakota	Perkins	360.228	360.301	0.073	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.067
Steel City	South Dakota	Perkins	360.301	360.499	0.198	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.198
Steel City	South Dakota	Perkins	360.499	360.528	0.029	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.017
Steel City	South Dakota	Perkins	360.528	360.619	0.091	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.091
Steel City	South Dakota	Perkins	360.619	361.028	0.409	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.237
Steel City	South Dakota	Perkins	361.028	361.111	0.083	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.083
Steel City	South Dakota	Perkins	361.111	361.121	0.009	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.005
Steel City	South Dakota	Perkins	361.121	361.160	0.039	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.039
Steel City	South Dakota	Perkins	361.160	361.395	0.235	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.136
Steel City	South Dakota	Perkins	361.395	361.423	0.028	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.028
Steel City	South Dakota	Perkins	361.423	361.579	0.157	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.091
Steel City	South Dakota	Perkins	361.579	361.835	0.256	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.256

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Perkins	361.835	361.863	0.028	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.016
Steel City	South Dakota	Perkins	361.863	361.975	0.112	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.112
Steel City	South Dakota	Perkins	361.975	361.996	0.021	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.020
Steel City	South Dakota	Perkins	361.996	362.042	0.045	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.045
Steel City	South Dakota	Perkins	362.042	362.150	0.108	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.100
Steel City	South Dakota	Perkins	362.150	362.298	0.149	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.149
Steel City	South Dakota	Perkins	362.298	362.439	0.140	SD105	Shambo loam, channeled	0.010
Steel City	South Dakota	Perkins	362.439	362.713	0.274	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.274
Steel City	South Dakota	Perkins	362.713	362.898	0.185	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.107
Steel City	South Dakota	Perkins	362.898	363.125	0.227	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.227
Steel City	South Dakota	Perkins	363.125	363.224	0.099	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.092
Steel City	South Dakota	Perkins	363.224	363.313	0.089	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.089
Steel City	South Dakota	Perkins	363.313	363.354	0.041	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.038
Steel City	South Dakota	Perkins	363.354	363.562	0.208	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.208
Steel City	South Dakota	Perkins	363.562	363.804	0.243	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.226
Steel City	South Dakota	Perkins	363.804	364.301	0.497	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.497
Steel City	South Dakota	Perkins	364.525	364.760	0.235	SD105	Lohler-Trembles complex	0.164
Steel City	South Dakota	Perkins	364.984	365.142	0.159	SD105	Lohler-Trembles complex	0.111
Steel City	South Dakota	Perkins	365.142	365.552	0.410	SD105	Blackhall-Cabbart complex, 15 to 40 percent slopes	0.225
Steel City	South Dakota	Perkins	365.552	365.640	0.088	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.088
Steel City	South Dakota	Perkins	365.640	365.719	0.079	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.074

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Perkins	365.719	365.805	0.086	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.086
Steel City	South Dakota	Perkins	365.805	365.862	0.057	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.053
Steel City	South Dakota	Perkins	365.862	366.065	0.203	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.203
Steel City	South Dakota	Perkins	366.065	366.076	0.012	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.011
Steel City	South Dakota	Perkins	366.076	366.097	0.021	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.021
Steel City	South Dakota	Perkins	366.097	366.361	0.263	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.245
Steel City	South Dakota	Perkins	366.361	366.399	0.039	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.039
Steel City	South Dakota	Perkins	366.399	366.525	0.125	SD105	Trembles soils, channeled	0.005
Steel City	South Dakota	Perkins	366.525	366.735	0.210	SD105	Shambo loam	0.197
Steel City	South Dakota	Perkins	366.735	366.936	0.201	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.187
Steel City	South Dakota	Perkins	366.936	367.009	0.074	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.043
Steel City	South Dakota	Perkins	367.009	367.069	0.059	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.055
Steel City	South Dakota	Perkins	367.069	367.133	0.064	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.037
Steel City	South Dakota	Perkins	367.133	367.167	0.035	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.032
Steel City	South Dakota	Perkins	367.167	367.187	0.019	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.011
Steel City	South Dakota	Perkins	367.187	367.623	0.436	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.405
Steel City	South Dakota	Perkins	367.623	367.740	0.118	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.068
Steel City	South Dakota	Perkins	367.740	368.053	0.313	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.291
Steel City	South Dakota	Perkins	368.053	368.323	0.270	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.157
Steel City	South Dakota	Perkins	368.323	368.360	0.038	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.035
Steel City	South Dakota	Perkins	368.360	368.568	0.208	SD105	Rhoades-Rock outcrop complex, 6 to 20 percent slopes	0.123

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Perkins	368.568	368.602	0.034	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.034
Steel City	South Dakota	Perkins	368.602	368.645	0.044	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.041
Steel City	South Dakota	Perkins	368.645	368.735	0.090	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.090
Steel City	South Dakota	Perkins	368.735	368.930	0.195	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.181
Steel City	South Dakota	Perkins	368.930	369.012	0.082	SD105	Rhoades-Rock outcrop complex, 6 to 20 percent slopes	0.048
Steel City	South Dakota	Perkins	369.012	369.511	0.499	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.464
Steel City	South Dakota	Perkins	369.511	369.628	0.118	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.068
Steel City	South Dakota	Perkins	369.628	369.707	0.079	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.079
Steel City	South Dakota	Perkins	369.707	369.835	0.128	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.119
Steel City	South Dakota	Perkins	369.835	370.276	0.441	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.441
Steel City	South Dakota	Perkins	370.276	370.420	0.144	SD105	Blackhall-Cabbart complex, 15 to 40 percent slopes	0.079
Steel City	South Dakota	Perkins	370.420	370.518	0.098	SD105	Bullock-Slickspots complex, 0 to 15 percent slopes	0.091
Steel City	South Dakota	Perkins	370.518	370.704	0.187	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.108
Steel City	South Dakota	Perkins	370.704	370.976	0.272	SD105	Rhoades-Rock outcrop complex, 6 to 20 percent slopes	0.160
Steel City	South Dakota	Perkins	370.976	371.033	0.057	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.057
Steel City	South Dakota	Perkins	371.033	371.212	0.179	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.104
Steel City	South Dakota	Perkins	371.212	371.427	0.215	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.215
Steel City	South Dakota	Perkins	371.427	371.437	0.010	SD105	Blackhall-Cabbart complex, 15 to 40 percent slopes	0.006
Steel City	South Dakota	Perkins	371.437	371.653	0.216	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.125
Steel City	South Dakota	Perkins	371.653	371.740	0.087	SD105	Blackhall-Cabbart complex, 15 to 40 percent slopes	0.048
Steel City	South Dakota	Perkins	371.740	371.753	0.013	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.013

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Perkins	371.753	371.805	0.052	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.030
Steel City	South Dakota	Perkins	371.805	371.881	0.076	SD105	Bullock-Parchin loams, 0 to 9 percent slopes	0.076
Steel City	South Dakota	Perkins	371.881	372.276	0.395	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.229
Steel City	South Dakota	Perkins	372.276	372.610	0.333	SD105	Regent-Savage silty clay loams, 2 to 6 percent slopes	0.333
Steel City	South Dakota	Perkins	372.610	372.733	0.123	SD105	Twilight-Marmarth-Parchin association, gently rolling	0.072
Steel City	South Dakota	Perkins	372.733	373.045	0.312	SD105	Regent-Savage silty clay loams, 2 to 6 percent slopes	0.312
Steel City	South Dakota	Perkins	373.045	373.108	0.064	SD105	Marmarth loam, 2 to 6 percent slopes	0.059
Steel City	South Dakota	Perkins	373.108	373.213	0.104	SD105	Regent-Savage silty clay loams, 2 to 6 percent slopes	0.104
Steel City	South Dakota	Perkins	373.213	373.329	0.117	SD105	Marmarth loam, 2 to 6 percent slopes	0.108
Steel City	South Dakota	Perkins	373.329	373.355	0.026	SD105	Regent-Savage silty clay loams, 2 to 6 percent slopes	0.026
Steel City	South Dakota	Meade	373.355	373.383	0.028	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.028
Steel City	South Dakota	Meade	373.383	373.515	0.132	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.132
Steel City	South Dakota	Meade	373.515	373.705	0.190	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.179
Steel City	South Dakota	Meade	373.705	373.996	0.291	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.151
Steel City	South Dakota	Meade	373.996	374.234	0.238	SD601	Eapa-Delridge loams, 2 to 6 percent slopes	0.238
Steel City	South Dakota	Meade	374.234	374.337	0.103	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.103
Steel City	South Dakota	Meade	374.337	374.466	0.129	SD601	Gerdrum loam, 0 to 4 percent slopes	0.125
Steel City	South Dakota	Meade	374.466	374.761	0.294	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.294
Steel City	South Dakota	Meade	374.761	374.861	0.100	SD601	Gerdrum loam, 0 to 4 percent slopes	0.097
Steel City	South Dakota	Meade	374.861	374.991	0.131	SD601	Eapa-Delridge loams, 2 to 6 percent slopes	0.131
Steel City	South Dakota	Meade	374.991	375.164	0.172	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.155

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	375.164	375.294	0.130	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.130
Steel City	South Dakota	Meade	375.294	375.468	0.175	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.157
Steel City	South Dakota	Meade	375.468	375.657	0.188	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.188
Steel City	South Dakota	Meade	375.657	376.021	0.364	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.328
Steel City	South Dakota	Meade	376.021	376.071	0.049	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.026
Steel City	South Dakota	Meade	376.071	376.078	0.007	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.007
Steel City	South Dakota	Meade	376.078	376.623	0.545	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.284
Steel City	South Dakota	Meade	376.623	376.870	0.247	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.232
Steel City	South Dakota	Meade	376.870	376.895	0.025	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.023
Steel City	South Dakota	Meade	376.895	376.943	0.048	SD601	Bullock-Slickspots complex, 0 to 4 percent slopes	0.047
Steel City	South Dakota	Meade	376.943	377.459	0.516	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.464
Steel City	South Dakota	Meade	377.459	377.522	0.063	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.059
Steel City	South Dakota	Meade	377.522	377.615	0.093	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.084
Steel City	South Dakota	Meade	377.615	377.690	0.076	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.071
Steel City	South Dakota	Meade	377.690	377.849	0.159	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.143
Steel City	South Dakota	Meade	377.849	377.952	0.103	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.097
Steel City	South Dakota	Meade	377.952	378.188	0.236	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.212
Steel City	South Dakota	Meade	378.188	378.267	0.079	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.075
Steel City	South Dakota	Meade	378.267	378.403	0.136	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.071
Steel City	South Dakota	Meade	378.403	378.456	0.053	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.050
Steel City	South Dakota	Meade	378.456	378.533	0.077	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.040

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	378.533	378.689	0.156	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.147
Steel City	South Dakota	Meade	378.689	378.844	0.155	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.139
Steel City	South Dakota	Meade	378.844	379.189	0.345	SD601	Bullock-Slickspots complex, 0 to 4 percent slopes	0.338
Steel City	South Dakota	Meade	379.189	379.380	0.191	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.099
Steel City	South Dakota	Meade	379.380	379.506	0.125	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.113
Steel City	South Dakota	Meade	379.506	379.532	0.026	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.014
Steel City	South Dakota	Meade	379.532	379.636	0.104	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.098
Steel City	South Dakota	Meade	379.636	379.789	0.153	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.137
Steel City	South Dakota	Meade	379.789	380.043	0.254	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.239
Steel City	South Dakota	Meade	380.043	380.269	0.226	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.204
Steel City	South Dakota	Meade	380.269	380.454	0.185	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.173
Steel City	South Dakota	Meade	380.454	380.572	0.119	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.062
Steel City	South Dakota	Meade	380.572	380.610	0.037	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.035
Steel City	South Dakota	Meade	380.610	380.648	0.038	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.034
Steel City	South Dakota	Meade	380.648	380.713	0.065	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.061
Steel City	South Dakota	Meade	380.713	380.789	0.076	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.069
Steel City	South Dakota	Meade	380.789	380.974	0.184	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.173
Steel City	South Dakota	Meade	380.974	381.092	0.118	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.106
Steel City	South Dakota	Meade	381.092	381.187	0.095	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.089
Steel City	South Dakota	Meade	381.187	381.239	0.052	SD601	Bullock-Slickspots complex, 0 to 4 percent slopes	0.051
Steel City	South Dakota	Meade	381.239	381.275	0.035	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.033

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	381.275	381.380	0.105	SD601	Bullock-Slickspots complex, 0 to 4 percent slopes	0.103
Steel City	South Dakota	Meade	381.380	381.616	0.236	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.212
Steel City	South Dakota	Meade	381.616	381.659	0.043	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.040
Steel City	South Dakota	Meade	381.659	381.717	0.058	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.052
Steel City	South Dakota	Meade	381.717	381.766	0.049	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.046
Steel City	South Dakota	Meade	381.766	381.848	0.083	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.074
Steel City	South Dakota	Meade	381.848	382.091	0.243	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.228
Steel City	South Dakota	Meade	382.091	382.417	0.326	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.326
Steel City	South Dakota	Meade	382.417	382.679	0.262	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.246
Steel City	South Dakota	Meade	382.679	382.730	0.051	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.046
Steel City	South Dakota	Meade	382.730	383.528	0.798	SD601	Gerdrum loam, 0 to 4 percent slopes	0.774
Steel City	South Dakota	Meade	383.528	383.667	0.139	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.139
Steel City	South Dakota	Meade	383.667	383.756	0.089	SD601	Havre loam, channeled	0.089
Steel City	South Dakota	Meade	383.756	384.055	0.300	SD601	Gerdrum loam, 0 to 4 percent slopes	0.291
Steel City	South Dakota	Meade	384.055	384.297	0.242	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.242
Steel City	South Dakota	Meade	384.297	384.515	0.218	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.218
Steel City	South Dakota	Meade	384.515	384.571	0.056	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.035
Steel City	South Dakota	Meade	384.571	384.599	0.029	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.027
Steel City	South Dakota	Meade	384.599	384.631	0.032	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.020
Steel City	South Dakota	Meade	384.631	384.882	0.251	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.236
Steel City	South Dakota	Meade	384.882	384.949	0.067	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.060

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	384.949	385.026	0.077	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.072
Steel City	South Dakota	Meade	385.026	385.160	0.134	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.134
Steel City	South Dakota	Meade	385.160	385.362	0.202	SD601	Gerdrum loam, 0 to 4 percent slopes	0.196
Steel City	South Dakota	Meade	385.362	385.490	0.128	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.067
Steel City	South Dakota	Meade	385.490	385.504	0.014	SD601	Gerdrum loam, 0 to 4 percent slopes	0.013
Steel City	South Dakota	Meade	385.504	385.704	0.200	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.188
Steel City	South Dakota	Meade	385.704	385.846	0.142	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.074
Steel City	South Dakota	Meade	385.846	385.891	0.045	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.042
Steel City	South Dakota	Meade	385.891	385.982	0.091	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.047
Steel City	South Dakota	Meade	385.982	386.056	0.074	SD601	Parchin-Bullock fine sandy loams, 2 to 6 percent slopes	0.066
Steel City	South Dakota	Meade	386.056	386.123	0.067	SD601	Bullock-Slickspots complex, 0 to 4 percent slopes	0.065
Steel City	South Dakota	Meade	386.123	386.224	0.101	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.053
Steel City	South Dakota	Meade	386.224	386.362	0.138	SD601	Gerdrum loam, 0 to 4 percent slopes	0.134
Steel City	South Dakota	Meade	386.362	386.444	0.083	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.083
Steel City	South Dakota	Meade	386.444	386.490	0.045	SD601	Gerdrum loam, 0 to 4 percent slopes	0.044
Steel City	South Dakota	Meade	386.490	386.549	0.059	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.055
Steel City	South Dakota	Meade	386.549	386.630	0.081	SD601	Eapa loam, 2 to 6 percent slopes	0.081
Steel City	South Dakota	Meade	386.630	386.752	0.123	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.115
Steel City	South Dakota	Meade	386.752	386.814	0.062	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.032
Steel City	South Dakota	Meade	386.814	387.021	0.206	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.206
Steel City	South Dakota	Meade	387.021	387.074	0.053	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.028

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	387.074	387.157	0.083	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.083
Steel City	South Dakota	Meade	387.157	387.707	0.550	SD601	Eapa-Delridge loams, 2 to 6 percent slopes	0.550
Steel City	South Dakota	Meade	387.707	387.719	0.012	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.006
Steel City	South Dakota	Meade	387.719	387.894	0.174	SD601	Grail silt loam	0.174
Steel City	South Dakota	Meade	387.894	387.936	0.042	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.022
Steel City	South Dakota	Meade	387.936	387.972	0.036	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.036
Steel City	South Dakota	Meade	387.972	388.019	0.047	SD601	Grail silt loam	0.047
Steel City	South Dakota	Meade	388.019	388.325	0.306	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.306
Steel City	South Dakota	Meade	388.325	389.042	0.718	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.718
Steel City	South Dakota	Meade	389.042	389.239	0.197	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.102
Steel City	South Dakota	Meade	389.239	389.293	0.054	SD601	Loburn-Gerdrum loams, 0 to 3 percent slopes	0.054
Steel City	South Dakota	Meade	389.293	389.349	0.055	SD601	Twilight-Marmarth-Parchin fine sandy loams, 4 to 9 percent slopes	0.029
Steel City	South Dakota	Meade	389.349	390.095	0.746	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.746
Steel City	South Dakota	Meade	390.095	390.234	0.139	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.086
Steel City	South Dakota	Meade	390.234	390.489	0.255	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.255
Steel City	South Dakota	Meade	390.489	390.696	0.207	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.017
Steel City	South Dakota	Meade	390.696	390.862	0.166	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.166
Steel City	South Dakota	Meade	390.862	390.896	0.035	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.003
Steel City	South Dakota	Meade	390.896	391.006	0.109	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.109
Steel City	South Dakota	Meade	391.006	391.048	0.042	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.026
Steel City	South Dakota	Meade	391.048	391.083	0.035	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.035

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	391.083	391.154	0.071	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.044
Steel City	South Dakota	Meade	391.154	391.375	0.221	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.221
Steel City	South Dakota	Meade	391.375	391.736	0.360	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.223
Steel City	South Dakota	Meade	391.736	392.248	0.512	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.512
Steel City	South Dakota	Meade	392.248	392.254	0.006	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.004
Steel City	South Dakota	Meade	392.254	392.316	0.062	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.062
Steel City	South Dakota	Meade	392.316	392.466	0.149	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.092
Steel City	South Dakota	Meade	392.466	392.653	0.188	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.015
Steel City	South Dakota	Meade	392.653	392.933	0.280	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.280
Steel City	South Dakota	Meade	392.933	393.084	0.152	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.012
Steel City	South Dakota	Meade	393.084	393.170	0.086	SD601	Cabbart loam, 9 to 40 percent slopes	0.086
Steel City	South Dakota	Meade	393.170	393.198	0.028	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.002
Steel City	South Dakota	Meade	393.198	393.227	0.029	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.018
Steel City	South Dakota	Meade	393.227	393.441	0.214	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.017
Steel City	South Dakota	Meade	393.441	393.589	0.148	SD601	Assinniboine fine sandy loam, 6 to 9 percent slopes	0.140
Steel City	South Dakota	Meade	393.589	393.740	0.151	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.012
Steel City	South Dakota	Meade	393.740	393.904	0.164	SD601	Assinniboine fine sandy loam, 6 to 9 percent slopes	0.156
Steel City	South Dakota	Meade	393.904	393.936	0.033	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.033
Steel City	South Dakota	Meade	393.936	393.949	0.013	SD601	Assinniboine fine sandy loam, 6 to 9 percent slopes	0.012
Steel City	South Dakota	Meade	393.949	393.996	0.047	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.047
Steel City	South Dakota	Meade	393.996	394.116	0.120	SD601	Assinniboine fine sandy loam, 6 to 9 percent slopes	0.114

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	394.116	394.320	0.204	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.204
Steel City	South Dakota	Meade	394.320	394.439	0.119	SD601	Assinniboine fine sandy loam, 6 to 9 percent slopes	0.113
Steel City	South Dakota	Meade	394.439	394.599	0.160	SD601	Cabbart loam, 9 to 40 percent slopes	0.160
Steel City	South Dakota	Meade	394.599	394.736	0.137	SD601	Tanna-Delridge complex, 2 to 6 percent slopes	0.137
Steel City	South Dakota	Meade	394.736	394.979	0.243	SD601	Cabbart loam, 9 to 40 percent slopes	0.243
Steel City	South Dakota	Meade	394.979	395.067	0.088	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.088
Steel City	South Dakota	Meade	395.067	395.083	0.016	SD601	Cabbart loam, 9 to 40 percent slopes	0.016
Steel City	South Dakota	Meade	395.083	395.178	0.095	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.095
Steel City	South Dakota	Meade	395.178	395.215	0.037	SD601	Cabbart loam, 9 to 40 percent slopes	0.037
Steel City	South Dakota	Meade	395.215	395.353	0.138	SD601	Assinniboine fine sandy loam, 2 to 6 percent slopes	0.138
Steel City	South Dakota	Meade	395.353	395.414	0.061	SD601	Cabbart loam, 9 to 40 percent slopes	0.061
Steel City	South Dakota	Meade	395.414	395.538	0.124	SD601	Assinniboine-Twilight fine sandy loams, 6 to 9 percent slopes	0.077
Steel City	South Dakota	Meade	395.538	395.955	0.417	SD601	Cabbart loam, 9 to 40 percent slopes	0.417
Steel City	South Dakota	Meade	395.955	396.172	0.218	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.017
Steel City	South Dakota	Meade	396.292	396.428	0.136	SD601	Blackhall-Twilight fine sandy loams, 9 to 40 percent slopes	0.011
Steel City	South Dakota	Meade	396.428	396.631	0.202	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.202
Steel City	South Dakota	Meade	396.631	396.785	0.154	SD601	Eapa loam, 6 to 9 percent slopes	0.154
Steel City	South Dakota	Meade	396.785	397.250	0.465	SD601	Cabbart loam, 9 to 40 percent slopes	0.465
Steel City	South Dakota	Meade	397.250	397.308	0.058	SD601	Eapa-Delridge loams, 6 to 9 percent slopes	0.058
Steel City	South Dakota	Meade	397.308	397.908	0.600	SD601	Cabbart loam, 9 to 40 percent slopes	0.600
Steel City	South Dakota	Meade	397.908	397.931	0.022	SD601	Gerdrum loam, 0 to 4 percent slopes	0.022

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	397.931	397.959	0.029	SD601	Cabbart loam, 9 to 40 percent slopes	0.029
Steel City	South Dakota	Meade	397.959	398.316	0.356	SD601	Gerdrum loam, 0 to 4 percent slopes	0.346
Steel City	South Dakota	Meade	398.316	398.461	0.145	SD601	Cabbart loam, 9 to 40 percent slopes	0.145
Steel City	South Dakota	Meade	398.461	398.855	0.394	SD601	Gerdrum loam, 0 to 4 percent slopes	0.382
Steel City	South Dakota	Meade	398.855	399.139	0.284	SD601	Lohmiller silty clay loam	0.267
Steel City	South Dakota	Meade	399.139	399.218	0.079	SD601	Gerdrum loam, 0 to 4 percent slopes	0.076
Steel City	South Dakota	Meade	399.218	399.634	0.416	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.416
Steel City	South Dakota	Meade	399.634	399.683	0.050	SD601	Eapa loam, 2 to 6 percent slopes	0.050
Steel City	South Dakota	Meade	399.683	399.754	0.070	SD601	Havre loam	0.070
Steel City	South Dakota	Meade	399.754	399.967	0.214	SD601	Havre loam, channeled	0.214
Steel City	South Dakota	Meade	399.967	400.037	0.069	SD601	Eapa loam, 2 to 6 percent slopes	0.069
Steel City	South Dakota	Meade	400.037	400.158	0.122	SD601	Lawther silty clay, 2 to 6 percent slopes	0.122
Steel City	South Dakota	Meade	400.158	400.271	0.112	SD601	Eapa loam, 2 to 6 percent slopes	0.112
Steel City	South Dakota	Meade	400.271	400.456	0.186	SD601	Lawther silty clay, 2 to 6 percent slopes	0.186
Steel City	South Dakota	Meade	400.456	400.567	0.110	SD601	Eapa loam, 2 to 6 percent slopes	0.110
Steel City	South Dakota	Meade	400.567	400.773	0.207	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.207
Steel City	South Dakota	Meade	400.773	400.852	0.079	SD601	Cabbart loam, 9 to 40 percent slopes	0.079
Steel City	South Dakota	Meade	400.852	400.896	0.044	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.044
Steel City	South Dakota	Meade	400.896	401.433	0.537	SD601	Cabbart loam, 9 to 40 percent slopes	0.537
Steel City	South Dakota	Meade	401.433	402.232	0.798	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.798
Steel City	South Dakota	Meade	402.232	402.239	0.008	SD601	Eapa loam, 2 to 6 percent slopes	0.008

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	402.239	403.697	1.458	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	1.458
Steel City	South Dakota	Meade	403.697	403.956	0.259	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.259
Steel City	South Dakota	Meade	403.956	403.984	0.028	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.028
Steel City	South Dakota	Meade	403.984	404.047	0.063	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.063
Steel City	South Dakota	Meade	404.047	404.338	0.291	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.291
Steel City	South Dakota	Meade	404.338	405.077	0.739	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.739
Steel City	South Dakota	Meade	405.077	405.191	0.114	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.114
Steel City	South Dakota	Meade	405.191	405.227	0.036	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.036
Steel City	South Dakota	Meade	405.227	405.326	0.100	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.100
Steel City	South Dakota	Meade	405.326	405.391	0.064	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.064
Steel City	South Dakota	Meade	405.391	405.609	0.218	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.218
Steel City	South Dakota	Meade	405.609	406.347	0.738	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.738
Steel City	South Dakota	Meade	406.347	406.355	0.008	SD601	Cabbart loam, 9 to 40 percent slopes	0.008
Steel City	South Dakota	Meade	406.355	406.382	0.027	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.027
Steel City	South Dakota	Meade	406.382	406.444	0.062	SD601	Cabbart loam, 9 to 40 percent slopes	0.062
Steel City	South Dakota	Meade	406.444	406.479	0.036	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.036
Steel City	South Dakota	Meade	406.479	406.681	0.202	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.202
Steel City	South Dakota	Meade	406.681	406.967	0.286	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.286
Steel City	South Dakota	Meade	406.967	407.393	0.426	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.426
Steel City	South Dakota	Meade	407.393	407.494	0.101	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.101
Steel City	South Dakota	Meade	407.494	407.574	0.080	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.080

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	407.574	407.641	0.066	SD601	Eapa-Grail complex, 6 to 9 percent slopes	0.066
Steel City	South Dakota	Meade	407.641	407.762	0.121	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.121
Steel City	South Dakota	Meade	407.762	408.100	0.338	SD601	Eapa loam, 2 to 6 percent slopes	0.338
Steel City	South Dakota	Meade	408.100	408.198	0.098	SD601	Eapa loam, 0 to 2 percent slopes	0.098
Steel City	South Dakota	Meade	408.198	408.477	0.279	SD601	Eapa loam, 2 to 6 percent slopes	0.279
Steel City	South Dakota	Meade	408.477	408.636	0.159	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.149
Steel City	South Dakota	Meade	408.636	408.730	0.094	SD601	Havre loam	0.094
Steel City	South Dakota	Meade	408.730	408.891	0.161	SD601	Bullock-Parchin fine sandy loams, 0 to 4 percent slopes	0.152
Steel City	South Dakota	Meade	408.891	409.020	0.129	SD601	Lohmiller silty clay loam, channeled	0.129
Steel City	South Dakota	Meade	409.020	409.073	0.053	SD601	Cabbart loam, 9 to 40 percent slopes	0.053
Steel City	South Dakota	Meade	409.073	409.635	0.562	SD601	Eapa loam, 2 to 6 percent slopes	0.562
Steel City	South Dakota	Meade	409.635	409.757	0.123	SD601	Lohmiller silty clay loam	0.115
Steel City	South Dakota	Meade	409.757	409.890	0.133	SD601	Eapa-Grail complex, 2 to 6 percent slopes	0.133
Steel City	South Dakota	Meade	409.890	410.053	0.163	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.163
Steel City	South Dakota	Meade	410.053	410.163	0.110	SD601	Tanna-Delridge complex, 2 to 6 percent slopes	0.110
Steel City	South Dakota	Meade	410.163	410.404	0.241	SD601	Absher-Slickspots complex, 2 to 6 percent slopes	0.241
Steel City	South Dakota	Meade	410.404	410.463	0.059	SD601	Lawther silty clay, 2 to 6 percent slopes	0.059
Steel City	South Dakota	Meade	410.463	410.523	0.061	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.061
Steel City	South Dakota	Meade	410.523	410.625	0.102	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.102
Steel City	South Dakota	Meade	410.625	410.646	0.021	SD601	Abor silty clay, 2 to 6 percent slopes	0.021
Steel City	South Dakota	Meade	410.646	410.987	0.341	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.341

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	410.987	411.074	0.087	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.087
Steel City	South Dakota	Meade	411.074	411.153	0.079	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.079
Steel City	South Dakota	Meade	411.153	411.339	0.186	SD601	Lawther silty clay, 2 to 6 percent slopes	0.186
Steel City	South Dakota	Meade	411.339	411.385	0.046	SD601	Abor silty clay, 2 to 6 percent slopes	0.046
Steel City	South Dakota	Meade	411.385	411.586	0.201	SD601	Abor silty clay, 6 to 9 percent slopes	0.201
Steel City	South Dakota	Meade	411.586	411.605	0.019	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.019
Steel City	South Dakota	Meade	411.605	411.651	0.045	SD601	Abor silty clay, 6 to 9 percent slopes	0.045
Steel City	South Dakota	Meade	411.651	411.861	0.211	SD601	Abor silty clay, 2 to 6 percent slopes	0.211
Steel City	South Dakota	Meade	411.861	411.976	0.115	SD601	Tanna-Savo complex, 6 to 9 percent slopes	0.115
Steel City	South Dakota	Meade	411.976	412.062	0.086	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.086
Steel City	South Dakota	Meade	412.062	412.314	0.252	SD601	Abor silty clay, 6 to 9 percent slopes	0.252
Steel City	South Dakota	Meade	412.314	412.643	0.329	SD601	Abor silty clay, 2 to 6 percent slopes	0.329
Steel City	South Dakota	Meade	412.643	412.684	0.041	SD601	Abor silty clay, 6 to 9 percent slopes	0.041
Steel City	South Dakota	Meade	412.684	412.900	0.215	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.215
Steel City	South Dakota	Meade	412.900	413.433	0.534	SD601	Abor silty clay, 6 to 9 percent slopes	0.534
Steel City	South Dakota	Meade	413.433	413.545	0.112	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.112
Steel City	South Dakota	Meade	413.545	413.744	0.198	SD601	Abor silty clay, 6 to 9 percent slopes	0.198
Steel City	South Dakota	Meade	413.744	413.778	0.034	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.034
Steel City	South Dakota	Meade	413.778	414.048	0.270	SD601	Abor silty clay, 6 to 9 percent slopes	0.270
Steel City	South Dakota	Meade	414.048	414.087	0.039	SD601	Abor silty clay, 2 to 6 percent slopes	0.039
Steel City	South Dakota	Meade	414.087	415.067	0.980	SD601	Abor silty clay, 6 to 9 percent slopes	0.980

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	415.067	415.075	0.008	SD601	Yawdim silty clay loam, 6 to 9 percent slopes	0.008
Steel City	South Dakota	Meade	415.075	415.149	0.074	SD601	Abor silty clay, 6 to 9 percent slopes	0.074
Steel City	South Dakota	Meade	415.149	415.201	0.052	SD601	Yawdim silty clay loam, 6 to 9 percent slopes	0.052
Steel City	South Dakota	Meade	415.201	415.322	0.120	SD601	Abor silty clay, 6 to 9 percent slopes	0.120
Steel City	South Dakota	Meade	415.322	415.431	0.109	SD601	Lawther silty clay, 2 to 6 percent slopes	0.109
Steel City	South Dakota	Meade	415.431	415.543	0.112	SD601	Abor silty clay, 6 to 9 percent slopes	0.112
Steel City	South Dakota	Meade	415.543	415.581	0.039	SD601	Lawther silty clay, 2 to 6 percent slopes	0.039
Steel City	South Dakota	Meade	415.581	415.641	0.060	SD601	Tanna-Delridge complex, 2 to 6 percent slopes	0.060
Steel City	South Dakota	Meade	415.641	416.380	0.739	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.739
Steel City	South Dakota	Meade	416.380	416.487	0.107	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.107
Steel City	South Dakota	Meade	416.487	416.693	0.206	SD601	Delridge-Cabbart loams, 6 to 15 percent slopes	0.206
Steel City	South Dakota	Meade	416.693	417.441	0.748	SD601	Tanna-Delridge complex, 2 to 6 percent slopes	0.748
Steel City	South Dakota	Meade	417.441	417.496	0.055	SD601	Nunn clay loam, 2 to 6 percent slopes	0.055
Steel City	South Dakota	Meade	417.496	417.560	0.063	SD601	Tanna-Delridge complex, 2 to 6 percent slopes	0.063
Steel City	South Dakota	Meade	417.560	417.633	0.074	SD601	Samsil clay, 6 to 25 percent slopes	0.071
Steel City	South Dakota	Meade	417.633	417.724	0.090	SD601	Nunn clay loam, 2 to 6 percent slopes	0.090
Steel City	South Dakota	Meade	417.724	417.783	0.059	SD601	Pierre-Samsil clays, 6 to 15 percent slopes	0.056
Steel City	South Dakota	Meade	417.783	418.023	0.240	SD601	Nunn clay loam, 2 to 6 percent slopes	0.240
Steel City	South Dakota	Meade	418.023	418.145	0.122	SD601	Pierre-Samsil clays, 6 to 15 percent slopes	0.116
Steel City	South Dakota	Meade	418.145	418.245	0.100	SD601	Nunn clay loam, 2 to 6 percent slopes	0.100
Steel City	South Dakota	Meade	418.245	418.446	0.201	SD601	Tanna-Savo complex, 2 to 6 percent slopes	0.201

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	418.446	419.193	0.747	SD601	Samsil clay, 6 to 25 percent slopes	0.725
Steel City	South Dakota	Meade	419.193	419.235	0.042	SD601	Stetter clay	0.042
Steel City	South Dakota	Meade	419.235	419.584	0.349	SD601	Samsil clay, 6 to 25 percent slopes	0.338
Steel City	South Dakota	Meade	419.584	419.691	0.107	SD601	Samsil-Rock outcrop complex, 15 to 40 percent slopes	0.064
Steel City	South Dakota	Meade	419.691	420.022	0.331	SD601	Stetter clay	0.331
Steel City	South Dakota	Meade	420.022	420.341	0.320	SD601	Samsil clay, 6 to 25 percent slopes	0.310
Steel City	South Dakota	Meade	420.341	420.432	0.091	SD601	Stetter clay	0.091
Steel City	South Dakota	Meade	420.432	420.612	0.179	SD601	Samsil-Rock outcrop complex, 15 to 40 percent slopes	0.108
Steel City	South Dakota	Meade	420.612	420.857	0.245	SD601	Samsil clay, 6 to 25 percent slopes	0.238
Steel City	South Dakota	Meade	420.857	420.899	0.042	SD601	Samsil-Rock outcrop complex, 15 to 40 percent slopes	0.025
Steel City	South Dakota	Meade	420.899	420.987	0.089	SD601	Samsil clay, 6 to 25 percent slopes	0.086
Steel City	South Dakota	Meade	420.987	421.081	0.093	SD601	Pierre-Samsil clays, 6 to 15 percent slopes	0.089
Steel City	South Dakota	Meade	421.081	421.804	0.723	SD601	Samsil clay, 6 to 25 percent slopes	0.702
Steel City	South Dakota	Meade	421.804	421.887	0.083	SD601	Lohmiller silty clay loam, channeled	0.083
Steel City	South Dakota	Meade	421.887	421.980	0.093	SD601	Samsil clay, 6 to 25 percent slopes	0.090
Steel City	South Dakota	Meade	421.980	422.231	0.251	SD601	Lohmiller silty clay loam, channeled	0.251
Steel City	South Dakota	Meade	422.231	422.394	0.163	SD601	Lohmiller silty clay loam	0.153
Steel City	South Dakota	Meade	422.394	422.786	0.392	SD601	Samsil clay, 6 to 25 percent slopes	0.380
Steel City	South Dakota	Meade	422.786	422.878	0.092	SD601	Lohmiller silty clay loam, channeled	0.092
Steel City	South Dakota	Meade	422.878	423.080	0.202	SD601	Lohmiller silty clay loam	0.190
Steel City	South Dakota	Meade	423.080	423.410	0.331	SD601	Lohmiller silty clay loam, channeled	0.331

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Meade	423.410	423.457	0.046	SD601	Samsil clay, 6 to 25 percent slopes	0.045
Steel City	South Dakota	Meade	423.457	423.735	0.278	SD601	Lohmiller silty clay loam, channeled	0.278
Steel City	South Dakota	Meade	423.735	423.794	0.059	SD601	Pierre-Samsil clays, 6 to 15 percent slopes	0.056
Steel City	South Dakota	Meade	423.794	423.940	0.145	SD601	Kyle clay, 0 to 2 percent slopes	0.145
Steel City	South Dakota	Meade	423.940	423.957	0.018	SD601	Pierre-Samsil clays, 6 to 15 percent slopes	0.017
Steel City	South Dakota	Meade	423.957	424.187	0.230	SD601	Kyle clay, 2 to 6 percent slopes	0.230
Steel City	South Dakota	Meade	424.187	424.512	0.325	SD601	Pierre-Samsil clays, 6 to 15 percent slopes	0.309
Steel City	South Dakota	Meade	424.512	424.611	0.099	SD601	Pierre clay, 2 to 6 percent slopes	0.099
Steel City	South Dakota	Meade	424.611	424.701	0.089	SD601	Lohmiller silty clay loam, channeled	0.089
Steel City	South Dakota	Meade	424.701	425.055	0.355	SD601	Swanboy clay	0.355
Steel City	South Dakota	Meade	425.055	425.238	0.183	SD601	Kyle clay, 2 to 6 percent slopes	0.183
Steel City	South Dakota	Meade	425.238	425.332	0.093	SD601	Lohmiller silty clay loam	0.088
Steel City	South Dakota	Meade	425.332	425.389	0.057	SD601	Glenberg fine sandy loam	0.004
Steel City	South Dakota	Meade	425.389	425.447	0.059	SD601	Lohmiller silty clay loam	0.055
Steel City	South Dakota	Meade	425.447	425.556	0.109	SD601	Glenberg fine sandy loam	0.008
Steel City	South Dakota	Meade	425.556	425.732	0.176	SD601	Bankard loamy fine sand	0.009
Steel City	South Dakota	Meade	425.755	425.800	0.045	SD601	Bankard loamy fine sand	0.002
Steel City	South Dakota	Pennington	426.094	426.261	0.167	SD605	Lohmiller silty clay	0.167
Steel City	South Dakota	Pennington	426.261	426.265	0.004	SD605	Samsil-Pierre clays, 15 to 25 percent slopes	0.004
Steel City	South Dakota	Pennington	426.265	426.277	0.012	SD605	Samsil-Pierre clays, 15 to 25 percent slopes	0.011
Steel City	South Dakota	Haakon	426.277	426.694	0.416	SD055	Pierre-Samsil clays, 15 to 25 percent slopes	0.387

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	426.694	426.934	0.240	SD055	Samsil clay, 25 to 60 percent slopes	0.224
Steel City	South Dakota	Haakon	426.934	427.007	0.073	SD055	Schamber-Samsil complex, 6 to 60 percent slopes	0.034
Steel City	South Dakota	Haakon	427.007	427.889	0.882	SD055	Kirley clay loam, 0 to 2 percent slopes	0.882
Steel City	South Dakota	Haakon	427.889	428.236	0.347	SD055	Ree-Vivian complex, 6 to 15 percent slopes	0.243
Steel City	South Dakota	Haakon	428.236	428.280	0.045	SD055	Ree loam, 0 to 2 percent slopes	0.045
Steel City	South Dakota	Haakon	428.280	428.404	0.124	SD055	Schamber-Samsil complex, 6 to 60 percent slopes	0.057
Steel City	South Dakota	Haakon	428.404	428.655	0.251	SD055	Samsil clay, 25 to 60 percent slopes	0.233
Steel City	South Dakota	Haakon	428.655	428.873	0.218	SD055	Pierre-Samsil clays, 15 to 25 percent slopes	0.203
Steel City	South Dakota	Haakon	428.873	428.917	0.044	SD055	Kyle clay, 3 to 6 percent slopes	0.044
Steel City	South Dakota	Haakon	428.917	428.925	0.008	SD055	Pierre-Samsil clays, 15 to 25 percent slopes	0.007
Steel City	South Dakota	Haakon	428.925	429.053	0.128	SD055	Kyle clay, 3 to 6 percent slopes	0.128
Steel City	South Dakota	Haakon	429.053	429.138	0.085	SD055	Lohmiller silty clay, channeled	0.085
Steel City	South Dakota	Haakon	429.138	429.265	0.127	SD055	Kyle clay, 3 to 6 percent slopes	0.127
Steel City	South Dakota	Haakon	429.265	429.289	0.025	SD055	Lohmiller silty clay, channeled	0.025
Steel City	South Dakota	Haakon	429.289	429.329	0.040	SD055	Kyle clay, 3 to 6 percent slopes	0.040
Steel City	South Dakota	Haakon	429.329	429.751	0.421	SD055	Pierre-Samsil clays, 15 to 25 percent slopes	0.392
Steel City	South Dakota	Haakon	429.751	429.896	0.145	SD055	Samsil-Rock outcrop complex, 15 to 60 percent slopes	0.090
Steel City	South Dakota	Haakon	429.896	430.051	0.155	SD055	Schamber-Samsil complex, 6 to 60 percent slopes	0.071
Steel City	South Dakota	Haakon	430.051	430.196	0.145	SD055	Ree-Hoven complex	0.145
Steel City	South Dakota	Haakon	430.196	431.950	1.754	SD055	Ree loam, 0 to 2 percent slopes	1.754
Steel City	South Dakota	Haakon	431.950	432.139	0.189	SD055	Ree-Canning loams, 6 to 9 percent slopes	0.170

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	432.139	432.346	0.207	SD055	Ree loam, 2 to 6 percent slopes	0.207
Steel City	South Dakota	Haakon	432.346	433.164	0.817	SD055	Ree loam, 0 to 2 percent slopes	0.817
Steel City	South Dakota	Haakon	433.164	435.318	2.155	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	2.155
Steel City	South Dakota	Haakon	435.318	435.352	0.034	SD055	Samsil clay, 25 to 60 percent slopes	0.031
Steel City	South Dakota	Haakon	435.352	435.763	0.411	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	0.411
Steel City	South Dakota	Haakon	435.763	435.885	0.122	SD055	Kirley clay loam, 2 to 6 percent slopes	0.122
Steel City	South Dakota	Haakon	435.885	436.003	0.118	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.118
Steel City	South Dakota	Haakon	436.003	436.948	0.945	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	0.945
Steel City	South Dakota	Haakon	436.948	437.122	0.174	SD055	Capa silt loam, 0 to 6 percent slopes	0.174
Steel City	South Dakota	Haakon	437.122	437.340	0.218	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	0.218
Steel City	South Dakota	Haakon	437.340	437.425	0.085	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.085
Steel City	South Dakota	Haakon	437.425	437.517	0.092	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.092
Steel City	South Dakota	Haakon	437.517	437.783	0.266	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.266
Steel City	South Dakota	Haakon	437.783	438.010	0.227	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.227
Steel City	South Dakota	Haakon	438.010	438.111	0.101	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.101
Steel City	South Dakota	Haakon	438.111	438.196	0.085	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.085
Steel City	South Dakota	Haakon	438.196	438.556	0.360	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.360
Steel City	South Dakota	Haakon	438.556	438.771	0.215	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.215
Steel City	South Dakota	Haakon	438.771	439.140	0.369	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.369
Steel City	South Dakota	Haakon	439.140	439.481	0.341	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.341
Steel City	South Dakota	Haakon	439.481	440.444	0.963	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.963

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	440.444	440.799	0.355	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.355
Steel City	South Dakota	Haakon	440.799	441.065	0.266	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.266
Steel City	South Dakota	Haakon	441.065	441.094	0.030	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.030
Steel City	South Dakota	Haakon	441.094	441.204	0.110	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.110
Steel City	South Dakota	Haakon	441.204	441.245	0.041	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.041
Steel City	South Dakota	Haakon	441.245	441.337	0.092	SD055	Wendte-Herdcamp silty clays, channeled	0.092
Steel City	South Dakota	Haakon	441.337	441.369	0.032	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.032
Steel City	South Dakota	Haakon	441.369	441.418	0.049	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.049
Steel City	South Dakota	Haakon	441.418	442.928	1.510	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	1.510
Steel City	South Dakota	Haakon	442.928	442.988	0.060	SD055	Kolls clay	0.060
Steel City	South Dakota	Haakon	442.988	443.443	0.455	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.455
Steel City	South Dakota	Haakon	443.443	443.587	0.144	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.144
Steel City	South Dakota	Haakon	443.587	443.770	0.183	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.183
Steel City	South Dakota	Haakon	443.770	443.883	0.112	SD055	Wendte-Herdcamp silty clays, channeled	0.112
Steel City	South Dakota	Haakon	443.883	443.994	0.111	SD055	Pierre-Samsil clays, 15 to 25 percent slopes	0.103
Steel City	South Dakota	Haakon	443.994	444.188	0.194	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.194
Steel City	South Dakota	Haakon	444.188	444.208	0.020	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.020
Steel City	South Dakota	Haakon	444.208	444.228	0.020	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.020
Steel City	South Dakota	Haakon	444.228	444.542	0.314	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.314
Steel City	South Dakota	Haakon	444.542	444.969	0.428	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.428
Steel City	South Dakota	Haakon	444.969	445.181	0.212	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.212

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	445.181	445.279	0.098	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.098
Steel City	South Dakota	Haakon	445.279	446.433	1.154	SD055	Ottumwa silty clay, 3 to 6 percent slopes	1.154
Steel City	South Dakota	Haakon	446.433	446.473	0.040	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.040
Steel City	South Dakota	Haakon	446.473	446.964	0.491	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.491
Steel City	South Dakota	Haakon	446.964	447.419	0.456	SD055	Ottumwa-Razor-Savo complex, 6 to 15 percent slopes	0.456
Steel City	South Dakota	Haakon	447.419	447.538	0.119	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.119
Steel City	South Dakota	Haakon	447.538	447.608	0.069	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.069
Steel City	South Dakota	Haakon	447.608	447.818	0.211	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.211
Steel City	South Dakota	Haakon	447.818	448.071	0.253	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.253
Steel City	South Dakota	Haakon	448.071	448.345	0.274	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.274
Steel City	South Dakota	Haakon	448.345	448.396	0.051	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.051
Steel City	South Dakota	Haakon	448.396	448.462	0.065	SD055	Capa-Wendte, channeled, complex	0.065
Steel City	South Dakota	Haakon	448.462	448.535	0.073	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.073
Steel City	South Dakota	Haakon	448.535	448.813	0.278	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.278
Steel City	South Dakota	Haakon	448.813	448.832	0.019	SD055	Opal-Promise clays, 6 to 9 percent slopes	0.019
Steel City	South Dakota	Haakon	448.832	448.973	0.141	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.141
Steel City	South Dakota	Haakon	448.973	449.051	0.078	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.078
Steel City	South Dakota	Haakon	449.051	449.326	0.275	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.275
Steel City	South Dakota	Haakon	449.326	449.437	0.110	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.110
Steel City	South Dakota	Haakon	449.437	449.615	0.179	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.179
Steel City	South Dakota	Haakon	449.615	449.720	0.104	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.104

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	449.720	449.892	0.172	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.172
Steel City	South Dakota	Haakon	449.892	450.096	0.204	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.204
Steel City	South Dakota	Haakon	450.096	450.154	0.058	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.058
Steel City	South Dakota	Haakon	450.154	450.641	0.487	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.487
Steel City	South Dakota	Haakon	450.641	450.883	0.242	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.242
Steel City	South Dakota	Haakon	450.883	450.943	0.060	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.060
Steel City	South Dakota	Haakon	450.943	451.377	0.434	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.434
Steel City	South Dakota	Haakon	451.377	451.756	0.379	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	0.379
Steel City	South Dakota	Haakon	451.756	451.809	0.053	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.053
Steel City	South Dakota	Haakon	451.809	451.950	0.142	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.142
Steel City	South Dakota	Haakon	451.950	452.236	0.286	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.286
Steel City	South Dakota	Haakon	452.236	452.689	0.453	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.453
Steel City	South Dakota	Haakon	452.689	452.782	0.092	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.092
Steel City	South Dakota	Haakon	452.782	453.768	0.987	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	0.987
Steel City	South Dakota	Haakon	453.768	453.944	0.175	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.175
Steel City	South Dakota	Haakon	453.944	454.056	0.112	SD055	Kirley-Ottumwa complex, 2 to 6 percent slopes	0.112
Steel City	South Dakota	Haakon	454.056	454.233	0.177	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.177
Steel City	South Dakota	Haakon	454.233	454.692	0.459	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.459
Steel City	South Dakota	Haakon	454.692	454.862	0.170	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.170
Steel City	South Dakota	Haakon	454.862	455.129	0.267	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.267
Steel City	South Dakota	Haakon	455.129	455.303	0.173	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.173

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	455.303	455.418	0.116	SD055	Capa-Wendte, channeled, complex	0.116
Steel City	South Dakota	Haakon	455.418	455.457	0.039	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.039
Steel City	South Dakota	Haakon	455.457	455.542	0.085	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.085
Steel City	South Dakota	Haakon	455.542	455.872	0.330	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.330
Steel City	South Dakota	Haakon	455.872	455.974	0.103	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.103
Steel City	South Dakota	Haakon	455.974	456.198	0.224	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.224
Steel City	South Dakota	Haakon	456.198	456.320	0.122	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.122
Steel City	South Dakota	Haakon	456.320	456.420	0.100	SD055	Opal-Promise clays, 3 to 6 percent slopes	0.100
Steel City	South Dakota	Haakon	456.420	456.501	0.082	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.082
Steel City	South Dakota	Haakon	456.501	456.687	0.186	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.186
Steel City	South Dakota	Haakon	456.687	456.738	0.051	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.051
Steel City	South Dakota	Haakon	456.738	456.798	0.060	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.060
Steel City	South Dakota	Haakon	456.798	457.022	0.223	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.223
Steel City	South Dakota	Haakon	457.022	457.283	0.261	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.261
Steel City	South Dakota	Haakon	457.283	457.394	0.112	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.112
Steel City	South Dakota	Haakon	457.394	457.528	0.134	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.134
Steel City	South Dakota	Haakon	457.528	457.858	0.330	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.330
Steel City	South Dakota	Haakon	457.858	458.135	0.277	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.277
Steel City	South Dakota	Haakon	458.135	458.207	0.072	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.072
Steel City	South Dakota	Haakon	458.207	458.276	0.069	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.069
Steel City	South Dakota	Haakon	458.276	458.490	0.214	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.214

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	458.490	458.660	0.170	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.170
Steel City	South Dakota	Haakon	458.660	458.780	0.120	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.120
Steel City	South Dakota	Haakon	458.780	458.981	0.201	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.201
Steel City	South Dakota	Haakon	458.981	459.484	0.503	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.503
Steel City	South Dakota	Haakon	459.484	459.585	0.101	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.101
Steel City	South Dakota	Haakon	459.585	459.747	0.162	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.162
Steel City	South Dakota	Haakon	459.747	459.823	0.076	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.076
Steel City	South Dakota	Haakon	459.823	459.939	0.116	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.116
Steel City	South Dakota	Haakon	459.939	460.360	0.421	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.421
Steel City	South Dakota	Haakon	460.360	460.417	0.057	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.057
Steel City	South Dakota	Haakon	460.417	460.509	0.092	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.092
Steel City	South Dakota	Haakon	460.509	460.534	0.024	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.024
Steel City	South Dakota	Haakon	460.534	460.852	0.318	SD055	Kirley clay loam, 0 to 2 percent slopes	0.318
Steel City	South Dakota	Haakon	460.852	460.901	0.049	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.034
Steel City	South Dakota	Haakon	460.901	460.958	0.058	SD055	Capa-Wendte, channeled, complex	0.058
Steel City	South Dakota	Haakon	460.958	461.198	0.239	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.239
Steel City	South Dakota	Haakon	461.198	461.226	0.029	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.029
Steel City	South Dakota	Haakon	461.226	461.293	0.067	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.047
Steel City	South Dakota	Haakon	461.293	461.400	0.107	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.107
Steel City	South Dakota	Haakon	461.400	461.451	0.051	SD055	Kirley clay loam, 0 to 2 percent slopes	0.051
Steel City	South Dakota	Haakon	461.451	461.567	0.116	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.116

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	461.567	461.686	0.119	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.119
Steel City	South Dakota	Haakon	461.686	461.765	0.079	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.079
Steel City	South Dakota	Haakon	461.765	461.776	0.011	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.011
Steel City	South Dakota	Haakon	461.776	462.150	0.374	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.374
Steel City	South Dakota	Haakon	462.150	462.312	0.162	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.162
Steel City	South Dakota	Haakon	462.312	462.341	0.029	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.029
Steel City	South Dakota	Haakon	462.341	462.391	0.050	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.050
Steel City	South Dakota	Haakon	462.391	462.624	0.233	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.233
Steel City	South Dakota	Haakon	462.624	462.848	0.224	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.224
Steel City	South Dakota	Haakon	462.848	462.886	0.038	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.038
Steel City	South Dakota	Haakon	462.886	462.958	0.072	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.072
Steel City	South Dakota	Haakon	462.958	463.104	0.146	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.146
Steel City	South Dakota	Haakon	463.104	463.135	0.031	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.031
Steel City	South Dakota	Haakon	463.135	463.678	0.542	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.542
Steel City	South Dakota	Haakon	463.678	463.939	0.261	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.261
Steel City	South Dakota	Haakon	463.939	464.189	0.250	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.250
Steel City	South Dakota	Haakon	464.189	464.610	0.421	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.421
Steel City	South Dakota	Haakon	464.610	464.809	0.198	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.198
Steel City	South Dakota	Haakon	464.809	464.972	0.163	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.163
Steel City	South Dakota	Haakon	464.972	465.108	0.136	SD055	Egas silty clay loam	0.136
Steel City	South Dakota	Haakon	465.108	465.279	0.171	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.171

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	465.279	465.404	0.125	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.125
Steel City	South Dakota	Haakon	465.404	465.564	0.160	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.160
Steel City	South Dakota	Haakon	465.564	465.694	0.130	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.130
Steel City	South Dakota	Haakon	465.694	465.756	0.063	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.063
Steel City	South Dakota	Haakon	465.756	465.979	0.223	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.223
Steel City	South Dakota	Haakon	465.979	466.045	0.066	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.066
Steel City	South Dakota	Haakon	466.045	466.696	0.651	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.651
Steel City	South Dakota	Haakon	466.696	466.760	0.064	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.064
Steel City	South Dakota	Haakon	466.760	466.836	0.077	SD055	Ottumwa-Lakoma silty clays, 3 to 6 percent slopes	0.077
Steel City	South Dakota	Haakon	466.836	467.185	0.349	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.349
Steel City	South Dakota	Haakon	467.185	468.288	1.103	SD055	Ottumwa silty clay, 3 to 6 percent slopes	1.103
Steel City	South Dakota	Haakon	468.288	468.303	0.014	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.014
Steel City	South Dakota	Haakon	468.303	468.426	0.123	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.123
Steel City	South Dakota	Haakon	468.426	468.464	0.039	SD055	Capa-Wendte, channeled, complex	0.039
Steel City	South Dakota	Haakon	468.464	468.654	0.189	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.189
Steel City	South Dakota	Haakon	468.654	468.898	0.244	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.171
Steel City	South Dakota	Haakon	468.898	469.151	0.254	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.254
Steel City	South Dakota	Haakon	469.151	469.206	0.054	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.054
Steel City	South Dakota	Haakon	469.206	469.412	0.207	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.207
Steel City	South Dakota	Haakon	469.412	469.481	0.069	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.069
Steel City	South Dakota	Haakon	469.481	469.776	0.294	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.294

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	469.776	470.107	0.331	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.331
Steel City	South Dakota	Haakon	470.107	470.168	0.061	SD055	Ottumwa silty clay, 0 to 3 percent slopes	0.061
Steel City	South Dakota	Haakon	470.168	470.408	0.240	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.240
Steel City	South Dakota	Haakon	470.408	470.693	0.284	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.284
Steel City	South Dakota	Haakon	470.693	470.805	0.113	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.113
Steel City	South Dakota	Haakon	470.805	470.902	0.097	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.097
Steel City	South Dakota	Haakon	470.902	471.062	0.160	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.160
Steel City	South Dakota	Haakon	471.062	471.242	0.180	SD055	Lakoma silty clay, 6 to 9 percent slopes	0.180
Steel City	South Dakota	Haakon	471.242	471.517	0.275	SD055	Ottumwa silty clay, 3 to 6 percent slopes	0.275
Steel City	South Dakota	Haakon	471.517	471.593	0.076	SD055	Kirley-Ottumwa complex, 6 to 9 percent slopes	0.076
Steel City	South Dakota	Haakon	471.593	471.865	0.272	SD055	Kirley clay loam, 2 to 6 percent slopes	0.272
Steel City	South Dakota	Haakon	471.865	472.043	0.178	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.173
Steel City	South Dakota	Haakon	472.043	472.067	0.023	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.016
Steel City	South Dakota	Haakon	472.067	472.321	0.254	SD055	Kirley clay loam, 2 to 6 percent slopes	0.254
Steel City	South Dakota	Haakon	472.321	472.449	0.129	SD055	Kirley clay loam, 0 to 2 percent slopes	0.129
Steel City	South Dakota	Haakon	472.449	472.525	0.076	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.053
Steel City	South Dakota	Haakon	472.525	472.706	0.181	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.181
Steel City	South Dakota	Haakon	472.706	472.754	0.048	SD055	Capa-Wendte, channeled, complex	0.048
Steel City	South Dakota	Haakon	472.754	472.786	0.032	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.032
Steel City	South Dakota	Haakon	472.786	472.842	0.055	SD055	Ottumwa-Lakoma silty clays, 6 to 9 percent slopes	0.055
Steel City	South Dakota	Haakon	472.842	473.118	0.277	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.277

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	473.118	473.242	0.124	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.087
Steel City	South Dakota	Haakon	473.242	473.329	0.087	SD055	Kirley clay loam, 2 to 6 percent slopes	0.087
Steel City	South Dakota	Haakon	473.329	473.742	0.413	SD055	Kirley clay loam, 0 to 2 percent slopes	0.413
Steel City	South Dakota	Haakon	473.742	473.966	0.224	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.157
Steel City	South Dakota	Haakon	473.966	474.120	0.154	SD055	Pierre clay, 6 to 9 percent slopes	0.154
Steel City	South Dakota	Haakon	474.120	474.342	0.222	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.222
Steel City	South Dakota	Haakon	474.342	474.400	0.057	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.040
Steel City	South Dakota	Haakon	474.400	474.606	0.207	SD055	Kirley clay loam, 2 to 6 percent slopes	0.207
Steel City	South Dakota	Haakon	474.606	474.869	0.263	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.255
Steel City	South Dakota	Haakon	474.869	475.082	0.212	SD055	Kirley-Canning complex, 2 to 6 percent slopes	0.202
Steel City	South Dakota	Haakon	475.082	475.115	0.033	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.032
Steel City	South Dakota	Haakon	475.115	475.612	0.497	SD055	Kirley-Canning complex, 2 to 6 percent slopes	0.473
Steel City	South Dakota	Haakon	475.612	476.397	0.785	SD055	Kirley clay loam, 0 to 2 percent slopes	0.785
Steel City	South Dakota	Haakon	476.397	476.471	0.074	SD055	Kirley-Canning complex, 2 to 6 percent slopes	0.070
Steel City	South Dakota	Haakon	476.471	476.614	0.143	SD055	Kirley clay loam, 0 to 2 percent slopes	0.143
Steel City	South Dakota	Haakon	476.614	476.707	0.094	SD055	Kirley-Canning complex, 2 to 6 percent slopes	0.089
Steel City	South Dakota	Haakon	476.707	476.798	0.090	SD055	Kirley clay loam, 0 to 2 percent slopes	0.090
Steel City	South Dakota	Haakon	476.798	477.078	0.280	SD055	Kirley-Mosher complex, 0 to 2 percent slopes	0.280
Steel City	South Dakota	Haakon	477.078	477.220	0.142	SD055	Kirley-Canning complex, 2 to 6 percent slopes	0.135
Steel City	South Dakota	Haakon	477.220	477.362	0.142	SD055	Kirley clay loam, 0 to 2 percent slopes	0.142
Steel City	South Dakota	Haakon	477.362	477.539	0.178	SD055	Mosher silt loam	0.178

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	477.539	477.670	0.131	SD055	Kirley clay loam, 0 to 2 percent slopes	0.131
Steel City	South Dakota	Haakon	477.670	477.805	0.135	SD055	Hoven silt loam	0.135
Steel City	South Dakota	Haakon	477.805	478.205	0.400	SD055	Kirley clay loam, 0 to 2 percent slopes	0.400
Steel City	South Dakota	Haakon	478.205	478.516	0.312	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.218
Steel City	South Dakota	Haakon	478.516	478.813	0.297	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.208
Steel City	South Dakota	Haakon	478.813	478.990	0.177	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.177
Steel City	South Dakota	Haakon	478.990	479.100	0.110	SD055	Ottumwa-Capa complex, 0 to 3 percent slopes	0.110
Steel City	South Dakota	Haakon	479.100	479.283	0.183	SD055	Nimbro silty clay loam, channeled	0.183
Steel City	South Dakota	Haakon	479.283	479.319	0.036	SD055	Nimbro silty clay loam	0.036
Steel City	South Dakota	Haakon	479.319	479.452	0.133	SD055	Promise clay, 3 to 6 percent slopes	0.133
Steel City	South Dakota	Haakon	479.452	479.746	0.294	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.286
Steel City	South Dakota	Haakon	479.746	479.883	0.137	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.096
Steel City	South Dakota	Haakon	479.883	480.258	0.375	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.262
Steel City	South Dakota	Haakon	480.258	480.467	0.209	SD055	Schamber-Samsil complex, 6 to 60 percent slopes	0.096
Steel City	South Dakota	Haakon	480.467	480.894	0.427	SD055	Sansarc-0pal clays, 9 to 40 percent slopes	0.427
Steel City	South Dakota	Haakon	480.894	480.948	0.054	SD055	Albaton silty clay, depressional	0.054
Steel City	South Dakota	Haakon	480.948	481.051	0.102	SD055	Nimbro silty clay loam, channeled	0.102
Steel City	South Dakota	Haakon	481.051	481.485	0.434	SD055	Nimbro silty clay loam	0.434
Steel City	South Dakota	Haakon	481.485	481.543	0.059	SD055	Nimbro silty clay loam, channeled	0.059
Steel City	South Dakota	Haakon	481.543	481.743	0.199	SD055	Bullcreek clay, 0 to 6 percent slopes	0.199
Steel City	South Dakota	Haakon	481.743	482.207	0.465	SD055	Sansarc-0pal clays, 9 to 40 percent slopes	0.465

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Haakon	482.207	482.585	0.377	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.366
Steel City	South Dakota	Haakon	482.585	482.684	0.100	SD055	Kirley-Canning complex, 2 to 6 percent slopes	0.095
Steel City	South Dakota	Haakon	482.684	482.802	0.118	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.114
Steel City	South Dakota	Haakon	482.802	482.889	0.086	SD055	Lakoma silty clay, 6 to 15 percent slopes	0.086
Steel City	South Dakota	Haakon	482.889	482.900	0.011	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.011
Steel City	South Dakota	Haakon	482.900	482.996	0.096	SD055	Sansarc-0pal clays, 9 to 40 percent slopes	0.096
Steel City	South Dakota	Haakon	482.996	483.232	0.236	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.229
Steel City	South Dakota	Haakon	483.232	483.595	0.363	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.363
Steel City	South Dakota	Haakon	483.595	483.625	0.030	SD055	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.029
Steel City	South Dakota	Haakon	483.625	484.337	0.712	SD055	Lakoma silty clay, 3 to 6 percent slopes	0.712
Steel City	South Dakota	Haakon	484.337	484.446	0.110	SD055	Lakoma-Vivian complex, 9 to 25 percent slopes	0.077
Steel City	South Dakota	Haakon	484.446	484.502	0.055	SD055	Kirley clay loam, 2 to 6 percent slopes	0.055
Steel City	South Dakota	Haakon	484.502	484.554	0.052	SD055	Kirley clay loam, 6 to 15 percent slopes	0.052
Steel City	South Dakota	Haakon	484.554	484.685	0.131	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.092
Steel City	South Dakota	Haakon	484.685	484.998	0.313	SD055	Kirley clay loam, 2 to 6 percent slopes	0.313
Steel City	South Dakota	Haakon	484.998	485.075	0.076	SD055	Kirley clay loam, 6 to 15 percent slopes	0.076
Steel City	South Dakota	Haakon	485.075	485.132	0.057	SD055	Kirley-Vivian complex, 6 to 15 percent slopes	0.040
Steel City	South Dakota	Jones	485.132	485.154	0.023	SD075	Kirley-Vivian complex, 9 to 25 percent slopes	0.016
Steel City	South Dakota	Jones	485.154	485.293	0.139	SD075	Kirley-Mosher complex, 0 to 6 percent slopes	0.139
Steel City	South Dakota	Jones	485.293	485.333	0.040	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.039
Steel City	South Dakota	Jones	485.333	485.409	0.075	SD075	Kirley-Mosher complex, 0 to 6 percent slopes	0.075

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	485.409	485.848	0.439	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.417
Steel City	South Dakota	Jones	485.848	485.909	0.061	SD075	Kirley-Vivian complex, 9 to 25 percent slopes	0.043
Steel City	South Dakota	Jones	485.909	486.049	0.140	SD075	Kirley-Mosher complex, 0 to 6 percent slopes	0.140
Steel City	South Dakota	Jones	486.049	486.158	0.109	SD075	Kirley clay loam, 9 to 15 percent slopes	0.107
Steel City	South Dakota	Jones	486.158	486.267	0.109	SD075	Kirley-Mosher complex, 0 to 6 percent slopes	0.109
Steel City	South Dakota	Jones	486.267	486.439	0.172	SD075	Kirley clay loam, 9 to 15 percent slopes	0.169
Steel City	South Dakota	Jones	486.439	486.885	0.445	SD075	Okaton-Wendte-Bullcreek complex, 0 to 45 percent slopes	0.445
Steel City	South Dakota	Jones	486.885	487.031	0.146	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.139
Steel City	South Dakota	Jones	487.031	487.145	0.114	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.114
Steel City	South Dakota	Jones	487.145	487.436	0.291	SD075	Kirley clay loam, 2 to 6 percent slopes	0.291
Steel City	South Dakota	Jones	487.436	487.462	0.027	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.027
Steel City	South Dakota	Jones	487.462	487.632	0.170	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.170
Steel City	South Dakota	Jones	487.632	487.793	0.161	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.156
Steel City	South Dakota	Jones	487.793	487.917	0.123	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.117
Steel City	South Dakota	Jones	487.917	488.444	0.527	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.512
Steel City	South Dakota	Jones	488.444	489.365	0.921	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.875
Steel City	South Dakota	Jones	489.365	489.494	0.130	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.130
Steel City	South Dakota	Jones	489.494	489.664	0.170	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.161
Steel City	South Dakota	Jones	489.664	489.921	0.257	SD075	Kirley clay loam, 2 to 6 percent slopes	0.257
Steel City	South Dakota	Jones	489.921	489.937	0.016	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.016
Steel City	South Dakota	Jones	489.937	490.136	0.199	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.189

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	490.136	490.339	0.203	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.197
Steel City	South Dakota	Jones	490.339	490.744	0.405	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.385
Steel City	South Dakota	Jones	490.744	490.989	0.245	SD075	Kirley clay loam, 2 to 6 percent slopes	0.245
Steel City	South Dakota	Jones	490.989	491.067	0.078	SD075	Ree loam, 2 to 6 percent slopes	0.078
Steel City	South Dakota	Jones	491.067	491.205	0.138	SD075	Ree loam, 0 to 2 percent slopes	0.138
Steel City	South Dakota	Jones	491.205	491.412	0.206	SD075	Ree loam, 2 to 6 percent slopes	0.206
Steel City	South Dakota	Jones	491.412	491.421	0.010	SD075	Kirley-Vivian complex, 9 to 25 percent slopes	0.007
Steel City	South Dakota	Jones	491.421	491.465	0.043	SD075	Ree loam, 2 to 6 percent slopes	0.043
Steel City	South Dakota	Jones	491.465	491.658	0.194	SD075	Kirley-Vivian complex, 9 to 25 percent slopes	0.135
Steel City	South Dakota	Jones	491.658	492.048	0.390	SD075	Kirley clay loam, 9 to 15 percent slopes	0.382
Steel City	South Dakota	Jones	492.048	492.354	0.306	SD075	Opal clay loam, 6 to 15 percent slopes	0.306
Steel City	South Dakota	Jones	492.354	492.472	0.119	SD075	Opal clay loam, 6 to 9 percent slopes	0.119
Steel City	South Dakota	Jones	492.472	492.565	0.093	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.088
Steel City	South Dakota	Jones	492.565	492.656	0.091	SD075	Lakoma-Vivian complex, 9 to 25 percent slopes	0.064
Steel City	South Dakota	Jones	492.656	492.681	0.026	SD075	Opal clay loam, 6 to 9 percent slopes	0.026
Steel City	South Dakota	Jones	492.681	493.378	0.697	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.662
Steel City	South Dakota	Jones	493.378	493.669	0.291	SD075	Kirley clay loam, 0 to 2 percent slopes	0.291
Steel City	South Dakota	Jones	493.669	493.790	0.120	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.114
Steel City	South Dakota	Jones	493.790	493.835	0.045	SD075	Promise-Capa complex	0.045
Steel City	South Dakota	Jones	493.835	494.051	0.216	SD075	Okaton-Wendte-Bullcreek complex, 0 to 45 percent slopes	0.216
Steel City	South Dakota	Jones	494.051	494.160	0.108	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.103

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	494.160	494.188	0.028	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.027
Steel City	South Dakota	Jones	494.188	494.357	0.170	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.161
Steel City	South Dakota	Jones	494.357	494.463	0.106	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.106
Steel City	South Dakota	Jones	494.463	494.548	0.084	SD075	Mosher silt loam	0.084
Steel City	South Dakota	Jones	494.548	494.621	0.073	SD075	Kirley clay loam, 0 to 2 percent slopes	0.073
Steel City	South Dakota	Jones	494.621	494.756	0.135	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.128
Steel City	South Dakota	Jones	494.756	495.137	0.381	SD075	Kirley clay loam, 2 to 6 percent slopes	0.381
Steel City	South Dakota	Jones	495.137	495.335	0.199	SD075	Mosher-Capa silt loams	0.199
Steel City	South Dakota	Jones	495.335	495.373	0.038	SD075	Promise clay, 0 to 3 percent slopes	0.038
Steel City	South Dakota	Jones	495.373	495.446	0.073	SD075	Mosher-Capa silt loams	0.073
Steel City	South Dakota	Jones	495.446	495.742	0.296	SD075	Promise clay, 0 to 3 percent slopes	0.296
Steel City	South Dakota	Jones	495.742	495.960	0.218	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.218
Steel City	South Dakota	Jones	495.960	496.103	0.143	SD075	Promise clay, 3 to 6 percent slopes	0.143
Steel City	South Dakota	Jones	496.103	496.444	0.341	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.324
Steel City	South Dakota	Jones	496.444	496.565	0.121	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.121
Steel City	South Dakota	Jones	496.565	496.884	0.319	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.303
Steel City	South Dakota	Jones	496.884	496.998	0.114	SD075	Kirley clay loam, 2 to 6 percent slopes	0.114
Steel City	South Dakota	Jones	496.998	497.342	0.344	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.344
Steel City	South Dakota	Jones	497.342	497.490	0.148	SD075	Okaton-Wendte-Bullcreek complex, 0 to 45 percent slopes	0.148
Steel City	South Dakota	Jones	497.490	497.562	0.072	SD075	Kirley clay loam, 9 to 15 percent slopes	0.071
Steel City	South Dakota	Jones	497.562	497.961	0.399	SD075	Kirley-Vivian complex, 9 to 25 percent slopes	0.280

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	497.961	497.970	0.008	SD075	Kirley clay loam, 2 to 6 percent slopes	0.008
Steel City	South Dakota	Jones	497.970	498.505	0.535	SD075	Promise clay, 3 to 6 percent slopes	0.535
Steel City	South Dakota	Jones	498.505	498.670	0.165	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.156
Steel City	South Dakota	Jones	498.670	498.810	0.140	SD075	Kirley clay loam, 2 to 6 percent slopes	0.140
Steel City	South Dakota	Jones	498.810	498.986	0.176	SD075	Promise clay, 6 to 9 percent slopes	0.176
Steel City	South Dakota	Jones	498.986	499.027	0.040	SD075	Ree loam, 2 to 6 percent slopes	0.040
Steel City	South Dakota	Jones	499.027	499.260	0.233	SD075	Mosher silt loam	0.233
Steel City	South Dakota	Jones	499.260	499.347	0.088	SD075	Promise clay, 3 to 6 percent slopes	0.088
Steel City	South Dakota	Jones	499.347	499.629	0.282	SD075	Opal clay, 3 to 6 percent slopes	0.282
Steel City	South Dakota	Jones	499.629	499.956	0.327	SD075	Kirley clay loam, 2 to 6 percent slopes	0.327
Steel City	South Dakota	Jones	499.956	500.053	0.097	SD075	Witten silty clay	0.097
Steel City	South Dakota	Jones	500.053	500.458	0.405	SD075	Promise clay, 3 to 6 percent slopes	0.405
Steel City	South Dakota	Jones	500.458	500.564	0.106	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.101
Steel City	South Dakota	Jones	500.564	500.715	0.151	SD075	Promise clay, 3 to 6 percent slopes	0.151
Steel City	South Dakota	Jones	500.715	501.154	0.439	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.417
Steel City	South Dakota	Jones	501.154	501.267	0.113	SD075	Promise clay, 3 to 6 percent slopes	0.113
Steel City	South Dakota	Jones	501.267	501.453	0.186	SD075	Promise clay, 0 to 3 percent slopes	0.186
Steel City	South Dakota	Jones	501.453	501.602	0.149	SD075	Opal clay, 6 to 15 percent slopes	0.149
Steel City	South Dakota	Jones	501.602	501.700	0.098	SD075	Promise clay, 3 to 6 percent slopes	0.098
Steel City	South Dakota	Jones	501.700	501.830	0.130	SD075	Okaton-Wendte-Bullcreek complex, 0 to 45 percent slopes	0.130
Steel City	South Dakota	Jones	501.830	502.031	0.202	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.192

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	502.031	502.194	0.163	SD075	Promise clay, 6 to 9 percent slopes	0.163
Steel City	South Dakota	Jones	502.194	502.283	0.089	SD075	Promise clay, 3 to 6 percent slopes	0.089
Steel City	South Dakota	Jones	502.283	502.378	0.095	SD075	Sansarc-Opal clays, 9 to 40 percent slopes	0.093
Steel City	South Dakota	Jones	502.410	502.456	0.046	SD075	Sansarc-Opal clays, 9 to 40 percent slopes	0.045
Steel City	South Dakota	Jones	502.456	502.522	0.065	SD075	Promise clay, 0 to 3 percent slopes	0.065
Steel City	South Dakota	Jones	502.522	502.941	0.419	SD075	Promise clay, 3 to 6 percent slopes	0.419
Steel City	South Dakota	Jones	502.941	503.015	0.074	SD075	Opal clay, 6 to 15 percent slopes	0.074
Steel City	South Dakota	Jones	503.015	504.121	1.106	SD075	Lakoma silty clay, 6 to 15 percent slopes	1.051
Steel City	South Dakota	Jones	504.121	504.240	0.119	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.119
Steel City	South Dakota	Jones	504.240	505.096	0.856	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.813
Steel City	South Dakota	Jones	505.096	505.168	0.072	SD075	Opal clay, 6 to 15 percent slopes	0.072
Steel City	South Dakota	Jones	505.168	505.342	0.174	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.165
Steel City	South Dakota	Jones	505.342	505.613	0.271	SD075	Opal clay, 6 to 15 percent slopes	0.271
Steel City	South Dakota	Jones	505.613	505.637	0.024	SD075	Opal clay, 6 to 9 percent slopes	0.024
Steel City	South Dakota	Jones	505.637	505.902	0.264	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.264
Steel City	South Dakota	Jones	505.902	505.999	0.097	SD075	Opal clay, 6 to 15 percent slopes	0.097
Steel City	South Dakota	Jones	505.999	506.353	0.355	SD075	Opal clay, 6 to 9 percent slopes	0.355
Steel City	South Dakota	Jones	506.353	506.401	0.047	SD075	Opal clay, 6 to 15 percent slopes	0.047
Steel City	South Dakota	Jones	506.401	506.436	0.036	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.034
Steel City	South Dakota	Jones	506.436	506.460	0.024	SD075	Opal clay, 6 to 15 percent slopes	0.024
Steel City	South Dakota	Jones	506.460	506.625	0.164	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.156

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	506.625	506.790	0.165	SD075	Promise clay, 3 to 6 percent slopes	0.165
Steel City	South Dakota	Jones	506.790	506.844	0.054	SD075	Wendte silty clay, channeled	0.054
Steel City	South Dakota	Jones	506.844	506.894	0.050	SD075	Opal clay, 6 to 15 percent slopes	0.050
Steel City	South Dakota	Jones	506.894	507.097	0.203	SD075	Opal clay, 6 to 9 percent slopes	0.203
Steel City	South Dakota	Jones	507.097	507.393	0.296	SD075	Promise clay, 3 to 6 percent slopes	0.296
Steel City	South Dakota	Jones	507.393	507.490	0.097	SD075	Opal clay, 3 to 6 percent slopes	0.097
Steel City	South Dakota	Jones	507.490	507.596	0.106	SD075	Opal clay, 6 to 15 percent slopes	0.106
Steel City	South Dakota	Jones	507.596	507.720	0.124	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.117
Steel City	South Dakota	Jones	507.720	507.822	0.102	SD075	Opal clay, 3 to 6 percent slopes	0.102
Steel City	South Dakota	Jones	507.822	507.865	0.043	SD075	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.042
Steel City	South Dakota	Jones	507.865	507.916	0.051	SD075	Herdcamp-Bullcreek complex	0.051
Steel City	South Dakota	Jones	507.916	507.968	0.052	SD075	Opal clay, 6 to 15 percent slopes	0.052
Steel City	South Dakota	Jones	507.968	508.038	0.070	SD075	Opal clay, 3 to 6 percent slopes	0.070
Steel City	South Dakota	Jones	508.038	508.144	0.107	SD075	Opal clay, 6 to 15 percent slopes	0.107
Steel City	South Dakota	Jones	508.144	508.319	0.175	SD075	Opal clay, 6 to 9 percent slopes	0.175
Steel City	South Dakota	Jones	508.319	508.393	0.074	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.074
Steel City	South Dakota	Jones	508.393	508.492	0.099	SD075	Opal clay, 6 to 9 percent slopes	0.099
Steel City	South Dakota	Jones	508.492	508.668	0.176	SD075	Opal clay, 3 to 6 percent slopes	0.176
Steel City	South Dakota	Jones	508.668	508.742	0.075	SD075	Opal clay, 6 to 9 percent slopes	0.075
Steel City	South Dakota	Jones	508.742	509.071	0.329	SD075	Opal clay, 6 to 15 percent slopes	0.329
Steel City	South Dakota	Jones	509.071	509.547	0.476	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.452

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	509.547	509.829	0.282	SD075	Opal clay, 3 to 6 percent slopes	0.282
Steel City	South Dakota	Jones	509.829	510.080	0.252	SD075	Opal clay, 6 to 9 percent slopes	0.252
Steel City	South Dakota	Jones	510.080	510.140	0.060	SD075	Opal clay, 3 to 6 percent slopes	0.060
Steel City	South Dakota	Jones	510.140	510.549	0.409	SD075	Opal clay, 6 to 15 percent slopes	0.409
Steel City	South Dakota	Jones	510.549	510.649	0.099	SD075	Opal clay, 6 to 9 percent slopes	0.099
Steel City	South Dakota	Jones	510.649	511.066	0.418	SD075	Opal clay, 6 to 15 percent slopes	0.418
Steel City	South Dakota	Jones	511.066	512.181	1.114	SD075	Lakoma silty clay, 6 to 15 percent slopes	1.059
Steel City	South Dakota	Jones	512.181	512.222	0.042	SD075	Promise clay, 3 to 6 percent slopes	0.042
Steel City	South Dakota	Jones	512.222	512.309	0.086	SD075	Opal clay, 6 to 9 percent slopes	0.086
Steel City	South Dakota	Jones	512.309	512.499	0.190	SD075	Promise clay, 3 to 6 percent slopes	0.190
Steel City	South Dakota	Jones	512.499	512.577	0.079	SD075	Opal clay, 3 to 6 percent slopes	0.079
Steel City	South Dakota	Jones	512.577	512.717	0.139	SD075	Promise clay, 3 to 6 percent slopes	0.139
Steel City	South Dakota	Jones	512.717	512.856	0.140	SD075	Opal clay, 3 to 6 percent slopes	0.140
Steel City	South Dakota	Jones	512.856	513.070	0.213	SD075	Promise clay, 3 to 6 percent slopes	0.213
Steel City	South Dakota	Jones	513.070	513.130	0.061	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.061
Steel City	South Dakota	Jones	513.130	513.205	0.075	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.071
Steel City	South Dakota	Jones	513.205	513.580	0.374	SD075	Opal clay, 6 to 15 percent slopes	0.374
Steel City	South Dakota	Jones	513.580	513.763	0.184	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.184
Steel City	South Dakota	Jones	513.763	513.887	0.124	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.117
Steel City	South Dakota	Jones	513.887	513.985	0.098	SD075	Promise clay, 3 to 6 percent slopes	0.098
Steel City	South Dakota	Jones	513.985	514.101	0.116	SD075	Opal clay, 6 to 9 percent slopes	0.116

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	514.101	514.514	0.414	SD075	Opal clay, 6 to 15 percent slopes	0.414
Steel City	South Dakota	Jones	514.514	515.543	1.029	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.977
Steel City	South Dakota	Jones	515.543	515.892	0.349	SD075	Opal clay, 3 to 6 percent slopes	0.349
Steel City	South Dakota	Jones	515.892	516.005	0.112	SD075	Promise-Bullcreek clays	0.112
Steel City	South Dakota	Jones	516.005	516.282	0.277	SD075	Opal clay, 3 to 6 percent slopes	0.277
Steel City	South Dakota	Jones	516.282	516.337	0.055	SD075	Promise clay, 0 to 3 percent slopes	0.055
Steel City	South Dakota	Jones	516.337	516.392	0.055	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.055
Steel City	South Dakota	Jones	516.392	516.539	0.147	SD075	Opal clay, 3 to 6 percent slopes	0.147
Steel City	South Dakota	Jones	516.539	516.618	0.079	SD075	Promise clay, 0 to 3 percent slopes	0.079
Steel City	South Dakota	Jones	516.618	516.738	0.120	SD075	Opal clay, 3 to 6 percent slopes	0.120
Steel City	South Dakota	Jones	516.738	516.942	0.203	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.203
Steel City	South Dakota	Jones	516.942	517.199	0.257	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.257
Steel City	South Dakota	Jones	517.199	517.448	0.250	SD075	Opal clay, 3 to 6 percent slopes	0.250
Steel City	South Dakota	Jones	517.448	517.493	0.045	SD075	Herdcamp-Bullcreek complex	0.045
Steel City	South Dakota	Jones	517.493	517.583	0.090	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.085
Steel City	South Dakota	Jones	517.583	517.729	0.146	SD075	Opal clay, 6 to 9 percent slopes	0.146
Steel City	South Dakota	Jones	517.729	518.199	0.470	SD075	Opal clay, 3 to 6 percent slopes	0.470
Steel City	South Dakota	Jones	518.199	518.303	0.104	SD075	Promise clay, 3 to 6 percent slopes	0.104
Steel City	South Dakota	Jones	518.303	518.397	0.094	SD075	Opal clay, 3 to 6 percent slopes	0.094
Steel City	South Dakota	Jones	518.397	518.485	0.088	SD075	Lakoma silty clay, 6 to 9 percent slopes	0.088
Steel City	South Dakota	Jones	518.485	519.090	0.604	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.574

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	519.090	519.113	0.024	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.024
Steel City	South Dakota	Jones	519.113	519.593	0.480	SD075	Lakoma silty clay, 6 to 15 percent slopes	0.456
Steel City	South Dakota	Jones	519.593	519.819	0.226	SD075	Opal clay loam, 6 to 15 percent slopes	0.226
Steel City	South Dakota	Jones	519.819	520.159	0.340	SD075	Opal clay loam, 6 to 9 percent slopes	0.340
Steel City	South Dakota	Jones	520.159	520.257	0.098	SD075	Bullcreek clay, 0 to 6 percent slopes	0.098
Steel City	South Dakota	Jones	520.257	520.350	0.093	SD075	Promise clay, 0 to 3 percent slopes	0.093
Steel City	South Dakota	Jones	520.350	520.523	0.173	SD075	Opal clay loam, 6 to 9 percent slopes	0.173
Steel City	South Dakota	Jones	520.523	520.541	0.018	SD075	Promise clay, 0 to 3 percent slopes	0.018
Steel City	South Dakota	Jones	520.541	520.638	0.097	SD075	Promise-Bullcreek clays	0.097
Steel City	South Dakota	Jones	520.638	520.922	0.284	SD075	Promise clay, 0 to 3 percent slopes	0.284
Steel City	South Dakota	Jones	520.922	521.022	0.101	SD075	Bullcreek clay, 0 to 6 percent slopes	0.101
Steel City	South Dakota	Jones	521.022	521.414	0.391	SD075	Promise clay, 0 to 3 percent slopes	0.391
Steel City	South Dakota	Jones	521.414	521.645	0.231	SD075	Millboro silty clay loam, 3 to 6 percent slopes	0.231
Steel City	South Dakota	Jones	521.645	522.009	0.364	SD075	Millboro silty clay loam, 0 to 3 percent slopes	0.364
Steel City	South Dakota	Jones	522.009	522.219	0.210	SD075	Promise-Bullcreek clays	0.210
Steel City	South Dakota	Jones	522.219	522.301	0.083	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.083
Steel City	South Dakota	Jones	522.301	522.520	0.219	SD075	Bullcreek clay, 0 to 6 percent slopes	0.219
Steel City	South Dakota	Jones	522.520	522.755	0.235	SD075	Promise clay, 0 to 3 percent slopes	0.235
Steel City	South Dakota	Jones	522.755	522.808	0.053	SD075	Bullcreek clay, 0 to 6 percent slopes	0.053
Steel City	South Dakota	Jones	522.808	523.084	0.275	SD075	Millboro silty clay loam, 0 to 3 percent slopes	0.275
Steel City	South Dakota	Jones	523.084	523.223	0.140	SD075	Promise-Bullcreek clays	0.140

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Jones	523.223	523.305	0.082	SD075	Millboro silty clay loam, 0 to 3 percent slopes	0.082
Steel City	South Dakota	Jones	523.305	523.419	0.114	SD075	Lakoma silty clay, 3 to 6 percent slopes	0.114
Steel City	South Dakota	Jones	523.419	523.586	0.168	SD075	Millboro silty clay loam, 3 to 6 percent slopes	0.168
Steel City	South Dakota	Jones	523.586	523.607	0.021	SD075	Millboro silty clay loam, 0 to 3 percent slopes	0.021
Steel City	South Dakota	Jones	523.607	523.985	0.378	SD075	Witten silty clay	0.378
Steel City	South Dakota	Jones	523.985	524.102	0.118	SD075	Millboro silty clay loam, 3 to 6 percent slopes	0.118
Steel City	South Dakota	Jones	524.102	524.341	0.239	SD075	Millboro silty clay loam, 6 to 9 percent slopes	0.239
Steel City	South Dakota	Jones	524.341	524.821	0.480	SD075	Millboro silty clay loam, 3 to 6 percent slopes	0.480
Steel City	South Dakota	Jones	524.821	525.233	0.412	SD075	Promise clay, 0 to 3 percent slopes	0.412
Steel City	South Dakota	Lyman	525.233	525.878	0.645	SD085	Promise clay, 0 to 3 percent slopes	0.645
Steel City	South Dakota	Lyman	525.878	525.934	0.056	SD085	Millboro silty clay, 3 to 6 percent slopes	0.056
Steel City	South Dakota	Lyman	525.934	526.461	0.527	SD085	Millboro silty clay, 0 to 3 percent slopes	0.527
Steel City	South Dakota	Lyman	526.461	526.515	0.054	SD085	Millboro silty clay, 3 to 6 percent slopes	0.054
Steel City	South Dakota	Lyman	526.515	526.595	0.080	SD085	Millboro silty clay, 0 to 3 percent slopes	0.080
Steel City	South Dakota	Lyman	526.595	526.703	0.108	SD085	Millboro silty clay, 3 to 6 percent slopes	0.108
Steel City	South Dakota	Lyman	526.703	526.703	0.000	SD085	Witten silty clay	0.000
Steel City	South Dakota	Lyman	526.703	526.816	0.113	SD085	Kolls silty clay	0.113
Steel City	South Dakota	Lyman	526.816	526.930	0.114	SD085	Millboro silty clay, 3 to 6 percent slopes	0.114
Steel City	South Dakota	Lyman	526.930	527.224	0.294	SD085	Witten silty clay	0.294
Steel City	South Dakota	Lyman	527.224	527.466	0.242	SD085	Millboro silty clay, 3 to 6 percent slopes	0.242
Steel City	South Dakota	Lyman	527.466	527.740	0.274	SD085	Witten silty clay	0.274

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Lyman	527.740	528.371	0.631	SD085	Millboro silty clay, 3 to 6 percent slopes	0.631
Steel City	South Dakota	Lyman	528.371	528.450	0.079	SD085	Promise clay, 0 to 3 percent slopes	0.079
Steel City	South Dakota	Lyman	528.450	528.461	0.011	SD085	Witten silty clay	0.011
Steel City	South Dakota	Lyman	528.461	528.860	0.399	SD085	Millboro silty clay, 3 to 6 percent slopes	0.399
Steel City	South Dakota	Lyman	528.860	529.011	0.151	SD085	Millboro-Boro silty clays, 6 to 9 percent slopes	0.151
Steel City	South Dakota	Lyman	529.011	529.912	0.901	SD085	Millboro silty clay, 3 to 6 percent slopes	0.901
Steel City	South Dakota	Lyman	529.912	530.047	0.135	SD085	Millboro-Boro silty clays, 6 to 9 percent slopes	0.135
Steel City	South Dakota	Lyman	530.047	530.164	0.116	SD085	Bullcreek clay, 0 to 6 percent slopes	0.116
Steel City	South Dakota	Lyman	530.164	530.826	0.662	SD085	Millboro silty clay, 3 to 6 percent slopes	0.662
Steel City	South Dakota	Lyman	530.826	530.937	0.111	SD085	Bullcreek clay, 0 to 6 percent slopes	0.111
Steel City	South Dakota	Lyman	530.937	530.968	0.031	SD085	Lakoma silty clay, 6 to 9 percent slopes	0.031
Steel City	South Dakota	Lyman	530.968	531.537	0.569	SD085	Millboro silty clay, 3 to 6 percent slopes	0.569
Steel City	South Dakota	Lyman	531.537	531.752	0.215	SD085	Millboro silty clay, 0 to 3 percent slopes	0.215
Steel City	South Dakota	Lyman	531.752	532.242	0.490	SD085	Millboro silty clay, 3 to 6 percent slopes	0.490
Steel City	South Dakota	Lyman	532.242	532.634	0.393	SD085	Millboro silty clay, 0 to 3 percent slopes	0.393
Steel City	South Dakota	Lyman	532.634	532.772	0.137	SD085	Millboro silty clay, 3 to 6 percent slopes	0.137
Steel City	South Dakota	Lyman	532.772	533.001	0.229	SD085	Millboro-Boro silty clays, 6 to 9 percent slopes	0.229
Steel City	South Dakota	Lyman	533.001	533.180	0.179	SD085	Sansarc-Opal clays, 9 to 40 percent slopes	0.174
Steel City	South Dakota	Lyman	533.180	533.257	0.077	SD085	Bullcreek clay, 0 to 6 percent slopes	0.077
Steel City	South Dakota	Lyman	533.257	533.431	0.174	SD085	Sansarc-Opal clays, 9 to 40 percent slopes	0.169
Steel City	South Dakota	Lyman	533.431	533.659	0.228	SD085	Lakoma-Okaton silty clays, 6 to 15 percent slopes	0.228

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Lyman	533.659	533.897	0.238	SD085	Millboro-Boro silty clays, 6 to 9 percent slopes	0.238
Steel City	South Dakota	Lyman	533.897	533.954	0.057	SD085	Millboro silty clay, 3 to 6 percent slopes	0.057
Steel City	South Dakota	Lyman	533.954	534.079	0.125	SD085	Sansarc-Opal clays, 9 to 40 percent slopes	0.121
Steel City	South Dakota	Lyman	534.079	534.211	0.133	SD085	Lakoma-Okaton silty clays, 6 to 15 percent slopes	0.133
Steel City	South Dakota	Lyman	534.211	534.339	0.128	SD085	Millboro-Boro silty clays, 6 to 9 percent slopes	0.128
Steel City	South Dakota	Lyman	534.339	534.499	0.159	SD085	Lakoma-Okaton silty clays, 6 to 15 percent slopes	0.159
Steel City	South Dakota	Lyman	534.499	534.866	0.368	SD085	Millboro-Boro silty clays, 6 to 9 percent slopes	0.368
Steel City	South Dakota	Lyman	534.866	535.461	0.595	SD085	Millboro silty clay, 3 to 6 percent slopes	0.595
Steel City	South Dakota	Lyman	535.461	535.716	0.254	SD085	Capa silt loam, 0 to 6 percent slopes	0.254
Steel City	South Dakota	Lyman	535.716	535.802	0.086	SD085	Millboro silty clay, 3 to 6 percent slopes	0.086
Steel City	South Dakota	Lyman	535.802	535.990	0.188	SD085	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.179
Steel City	South Dakota	Lyman	535.990	536.037	0.047	SD085	Sansarc-Opal clays, 9 to 40 percent slopes	0.046
Steel City	South Dakota	Lyman	536.037	536.050	0.013	SD085	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.013
Steel City	South Dakota	Lyman	536.050	536.142	0.092	SD085	Sansarc-Opal clays, 9 to 40 percent slopes	0.089
Steel City	South Dakota	Lyman	536.142	536.240	0.099	SD085	Okaton-Lakoma silty clays, 15 to 40 percent slopes	0.094
Steel City	South Dakota	Lyman	536.240	536.828	0.587	SD085	Sansarc-Opal clays, 9 to 40 percent slopes	0.570
Steel City	South Dakota	Lyman	536.828	536.883	0.055	SD085	Bullcreek clay, 0 to 6 percent slopes	0.055
Steel City	South Dakota	Lyman	536.883	536.964	0.081	SD085	Promise clay, 0 to 3 percent slopes	0.081
Steel City	South Dakota	Lyman	536.964	537.030	0.065	SD085	Hilmoe silty clay	0.063
Steel City	South Dakota	Lyman	537.030	537.061	0.031	SD085	Bigbend silt loam	0.028
Steel City	South Dakota	Lyman	537.061	537.090	0.030	SD085	Munjor fine sandy loam	0.003

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	537.187	537.375	0.188	SD123	Munjor fine sandy loam	0.009
Steel City	South Dakota	Tripp	537.375	537.542	0.167	SD123	Bigbend soils	0.152
Steel City	South Dakota	Tripp	537.542	537.564	0.022	SD123	Hilmoe clay, 0 to 2 percent slopes	0.022
Steel City	South Dakota	Tripp	537.564	537.830	0.266	SD123	Opal-Sansarc clays, 9 to 25 percent slopes	0.266
Steel City	South Dakota	Tripp	537.830	537.974	0.145	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.135
Steel City	South Dakota	Tripp	537.974	537.999	0.025	SD123	Westover loam, 9 to 25 percent slopes	0.002
Steel City	South Dakota	Tripp	537.999	538.140	0.141	SD123	Lowry silt loam, 0 to 4 percent slopes	0.014
Steel City	South Dakota	Tripp	538.140	538.234	0.094	SD123	Westover loam, 9 to 25 percent slopes	0.008
Steel City	South Dakota	Tripp	538.234	538.391	0.157	SD123	Ree loam, 3 to 6 percent slopes	0.157
Steel City	South Dakota	Tripp	538.391	538.426	0.035	SD123	Westover loam, 9 to 25 percent slopes	0.003
Steel City	South Dakota	Tripp	538.426	538.468	0.042	SD123	Ree loam, 3 to 6 percent slopes	0.042
Steel City	South Dakota	Tripp	538.468	538.644	0.176	SD123	Lowry silt loam, 0 to 4 percent slopes	0.018
Steel City	South Dakota	Tripp	538.644	538.983	0.339	SD123	Ree loam, 3 to 6 percent slopes	0.339
Steel City	South Dakota	Tripp	538.983	539.142	0.159	SD123	Westover loam, 9 to 25 percent slopes	0.014
Steel City	South Dakota	Tripp	539.142	539.181	0.039	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.038
Steel City	South Dakota	Tripp	539.181	539.283	0.102	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.095
Steel City	South Dakota	Tripp	539.283	539.400	0.117	SD123	Bullcreek clay	0.117
Steel City	South Dakota	Tripp	539.400	540.205	0.806	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.749
Steel City	South Dakota	Tripp	540.205	540.442	0.236	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.232
Steel City	South Dakota	Tripp	540.442	540.522	0.081	SD123	Schamber-Murdo complex, 15 to 40 percent slopes	0.044
Steel City	South Dakota	Tripp	540.522	540.561	0.038	SD123	Westover loam, 9 to 25 percent slopes	0.003

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	540.561	541.261	0.700	SD123	Ree loam, 0 to 3 percent slopes	0.700
Steel City	South Dakota	Tripp	541.261	541.306	0.046	SD123	Westover loam, 9 to 25 percent slopes	0.004
Steel City	South Dakota	Tripp	541.306	541.846	0.540	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.529
Steel City	South Dakota	Tripp	541.846	542.351	0.505	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.470
Steel City	South Dakota	Tripp	542.351	542.403	0.052	SD123	Bullcreek clay	0.052
Steel City	South Dakota	Tripp	542.403	542.550	0.146	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.136
Steel City	South Dakota	Tripp	542.550	542.612	0.063	SD123	Bullcreek clay	0.063
Steel City	South Dakota	Tripp	542.612	542.887	0.275	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.255
Steel City	South Dakota	Tripp	542.887	543.186	0.299	SD123	Bullcreek clay	0.299
Steel City	South Dakota	Tripp	543.186	543.276	0.090	SD123	Opal clay, 3 to 9 percent slopes	0.090
Steel City	South Dakota	Tripp	543.276	543.413	0.137	SD123	Bullcreek clay	0.137
Steel City	South Dakota	Tripp	543.413	543.676	0.264	SD123	Sansarc-Opal association, 15 to 40 percent slopes	0.245
Steel City	South Dakota	Tripp	543.676	544.131	0.455	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.446
Steel City	South Dakota	Tripp	544.131	544.283	0.151	SD123	Ree loam, 6 to 9 percent slopes	0.151
Steel City	South Dakota	Tripp	544.283	544.427	0.144	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.141
Steel City	South Dakota	Tripp	544.427	544.974	0.547	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.525
Steel City	South Dakota	Tripp	544.974	545.079	0.105	SD123	Ree loam, 6 to 9 percent slopes	0.105
Steel City	South Dakota	Tripp	545.079	545.139	0.060	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.058
Steel City	South Dakota	Tripp	545.139	545.316	0.177	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.174
Steel City	South Dakota	Tripp	545.316	545.425	0.109	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.105
Steel City	South Dakota	Tripp	545.425	546.224	0.799	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.783

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	546.224	546.265	0.040	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.040
Steel City	South Dakota	Tripp	546.265	546.266	0.001	SD123	Okaton-Lakoma association, 15 to 40 percent slopes	0.001
Steel City	South Dakota	Tripp	546.266	546.835	0.569	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.569
Steel City	South Dakota	Tripp	546.835	547.027	0.191	SD123	Millboro silty clay, 3 to 6 percent slopes	0.190
Steel City	South Dakota	Tripp	547.027	547.177	0.150	SD123	Mosher silt loam	0.150
Steel City	South Dakota	Tripp	547.177	547.304	0.127	SD123	Millboro silty clay, 0 to 3 percent slopes	0.127
Steel City	South Dakota	Tripp	547.304	547.419	0.116	SD123	Mosher silt loam	0.116
Steel City	South Dakota	Tripp	547.419	547.658	0.239	SD123	Millboro silty clay, 0 to 3 percent slopes	0.239
Steel City	South Dakota	Tripp	547.658	547.756	0.098	SD123	Millboro silty clay, 3 to 6 percent slopes	0.097
Steel City	South Dakota	Tripp	547.756	547.862	0.106	SD123	Boro-Millboro silty clays, 5 to 9 percent slopes	0.106
Steel City	South Dakota	Tripp	547.862	548.395	0.533	SD123	Millboro silty clay, 3 to 6 percent slopes	0.527
Steel City	South Dakota	Tripp	548.395	548.487	0.092	SD123	Witten silty clay	0.092
Steel City	South Dakota	Tripp	548.487	548.616	0.129	SD123	Millboro silty clay, 3 to 6 percent slopes	0.128
Steel City	South Dakota	Tripp	548.616	548.633	0.017	SD123	Boro-Millboro silty clays, 5 to 9 percent slopes	0.017
Steel City	South Dakota	Tripp	548.633	548.636	0.003	SD123	Ree loam, 3 to 6 percent slopes	0.003
Steel City	South Dakota	Tripp	548.636	548.813	0.178	SD123	Boro-Millboro silty clays, 5 to 9 percent slopes	0.178
Steel City	South Dakota	Tripp	548.813	548.849	0.036	SD123	Ree loam, 3 to 6 percent slopes	0.036
Steel City	South Dakota	Tripp	548.849	549.032	0.182	SD123	Reliance silty clay loam, 3 to 6 percent slopes	0.177
Steel City	South Dakota	Tripp	549.032	549.615	0.583	SD123	Reliance silty clay loam, 6 to 9 percent slopes	0.578
Steel City	South Dakota	Tripp	549.615	549.875	0.260	SD123	Reliance silty clay loam, 3 to 6 percent slopes	0.253
Steel City	South Dakota	Tripp	549.875	550.023	0.148	SD123	Onita silt loam	0.148

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	550.023	550.402	0.379	SD123	Reliance silty clay loam, 3 to 6 percent slopes	0.367
Steel City	South Dakota	Tripp	550.402	550.504	0.102	SD123	Kolls clay	0.102
Steel City	South Dakota	Tripp	550.504	551.067	0.563	SD123	Reliance silty clay loam, 3 to 6 percent slopes	0.546
Steel City	South Dakota	Tripp	551.067	551.230	0.163	SD123	Millboro silty clay, 6 to 9 percent slopes	0.160
Steel City	South Dakota	Tripp	551.230	551.292	0.062	SD123	Millboro silty clay, 3 to 6 percent slopes	0.061
Steel City	South Dakota	Tripp	551.292	551.512	0.220	SD123	Carter silty clay loam	0.220
Steel City	South Dakota	Tripp	551.512	551.570	0.058	SD123	Millboro silty clay, 0 to 3 percent slopes	0.058
Steel City	South Dakota	Tripp	551.570	551.727	0.157	SD123	Carter silty clay loam	0.157
Steel City	South Dakota	Tripp	551.727	551.818	0.090	SD123	Millboro silty clay, 3 to 6 percent slopes	0.089
Steel City	South Dakota	Tripp	551.818	551.998	0.181	SD123	Millboro silty clay, 0 to 3 percent slopes	0.181
Steel City	South Dakota	Tripp	551.998	552.178	0.180	SD123	Millboro silty clay, 3 to 6 percent slopes	0.178
Steel City	South Dakota	Tripp	552.178	552.378	0.201	SD123	Millboro silty clay, 0 to 3 percent slopes	0.201
Steel City	South Dakota	Tripp	552.378	552.610	0.232	SD123	Millboro silty clay, 3 to 6 percent slopes	0.229
Steel City	South Dakota	Tripp	552.610	552.662	0.052	SD123	Witten silty clay	0.052
Steel City	South Dakota	Tripp	552.662	552.742	0.080	SD123	Boro-Millboro silty clays, 5 to 9 percent slopes	0.080
Steel City	South Dakota	Tripp	552.742	552.917	0.175	SD123	Millboro silty clay, 3 to 6 percent slopes	0.174
Steel City	South Dakota	Tripp	552.917	553.252	0.335	SD123	Boro-Millboro silty clays, 5 to 9 percent slopes	0.335
Steel City	South Dakota	Tripp	553.252	553.330	0.078	SD123	Carter silty clay loam	0.078
Steel City	South Dakota	Tripp	553.330	554.593	1.262	SD123	Millboro silty clay, 3 to 6 percent slopes	1.250
Steel City	South Dakota	Tripp	554.593	554.812	0.219	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.219
Steel City	South Dakota	Tripp	554.812	554.873	0.061	SD123	Millboro silty clay, 3 to 6 percent slopes	0.061

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	554.873	555.023	0.151	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.151
Steel City	South Dakota	Tripp	555.023	555.158	0.134	SD123	Canning-Murdo loams, 6 to 15 percent slopes	0.126
Steel City	South Dakota	Tripp	555.158	555.248	0.090	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.090
Steel City	South Dakota	Tripp	555.248	555.265	0.018	SD123	Canning-Murdo loams, 6 to 15 percent slopes	0.017
Steel City	South Dakota	Tripp	555.265	555.414	0.149	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.149
Steel City	South Dakota	Tripp	555.414	555.544	0.130	SD123	Millboro silty clay, 3 to 6 percent slopes	0.129
Steel City	South Dakota	Tripp	555.544	555.711	0.166	SD123	Witten silty clay	0.166
Steel City	South Dakota	Tripp	555.711	556.535	0.825	SD123	Millboro silty clay, 3 to 6 percent slopes	0.816
Steel City	South Dakota	Tripp	556.535	556.883	0.348	SD123	Witten silty clay	0.348
Steel City	South Dakota	Tripp	556.883	557.209	0.326	SD123	Millboro silty clay, 0 to 3 percent slopes	0.326
Steel City	South Dakota	Tripp	557.209	557.257	0.048	SD123	Witten silty clay	0.048
Steel City	South Dakota	Tripp	557.257	557.366	0.109	SD123	Erd clay	0.109
Steel City	South Dakota	Tripp	557.366	557.572	0.206	SD123	Erd-Capa complex	0.204
Steel City	South Dakota	Tripp	557.572	557.886	0.314	SD123	Millboro silty clay, 3 to 6 percent slopes	0.311
Steel City	South Dakota	Tripp	557.886	557.944	0.058	SD123	Carter silty clay loam	0.058
Steel City	South Dakota	Tripp	557.944	558.099	0.154	SD123	Millboro silty clay, 3 to 6 percent slopes	0.153
Steel City	South Dakota	Tripp	558.099	558.227	0.128	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.128
Steel City	South Dakota	Tripp	558.227	558.526	0.299	SD123	Millboro silty clay, 0 to 3 percent slopes	0.299
Steel City	South Dakota	Tripp	558.526	558.592	0.066	SD123	Millboro silty clay, 3 to 6 percent slopes	0.066
Steel City	South Dakota	Tripp	558.592	558.685	0.093	SD123	Witten silty clay	0.093
Steel City	South Dakota	Tripp	558.685	558.874	0.189	SD123	Millboro silty clay, 0 to 3 percent slopes	0.189

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	558.874	558.942	0.068	SD123	Witten silty clay	0.068
Steel City	South Dakota	Tripp	558.942	559.306	0.364	SD123	Millboro silty clay, 0 to 3 percent slopes	0.364
Steel City	South Dakota	Tripp	559.306	559.454	0.148	SD123	Witten silty clay	0.148
Steel City	South Dakota	Tripp	559.454	560.345	0.891	SD123	Millboro silty clay, 0 to 3 percent slopes	0.891
Steel City	South Dakota	Tripp	560.345	560.476	0.131	SD123	Erd-Capa complex	0.129
Steel City	South Dakota	Tripp	560.476	560.571	0.096	SD123	Millboro silty clay, 0 to 3 percent slopes	0.096
Steel City	South Dakota	Tripp	560.571	560.670	0.099	SD123	Erd-Capa complex	0.098
Steel City	South Dakota	Tripp	560.670	561.168	0.499	SD123	Millboro silty clay, 0 to 3 percent slopes	0.499
Steel City	South Dakota	Tripp	561.168	561.262	0.094	SD123	Millboro silty clay, 3 to 6 percent slopes	0.093
Steel City	South Dakota	Tripp	561.262	561.442	0.180	SD123	Millboro silty clay, 6 to 9 percent slopes	0.176
Steel City	South Dakota	Tripp	561.442	561.654	0.211	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.203
Steel City	South Dakota	Tripp	561.654	561.858	0.205	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.205
Steel City	South Dakota	Tripp	561.858	562.200	0.342	SD123	Millboro silty clay, 6 to 9 percent slopes	0.335
Steel City	South Dakota	Tripp	562.200	562.271	0.071	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.071
Steel City	South Dakota	Tripp	562.271	562.733	0.462	SD123	Millboro silty clay, 6 to 9 percent slopes	0.453
Steel City	South Dakota	Tripp	562.733	562.855	0.121	SD123	Witten silty clay	0.121
Steel City	South Dakota	Tripp	562.855	563.086	0.231	SD123	Millboro silty clay, 3 to 6 percent slopes	0.229
Steel City	South Dakota	Tripp	563.086	563.171	0.085	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.085
Steel City	South Dakota	Tripp	563.171	563.252	0.080	SD123	Millboro silty clay, 0 to 3 percent slopes	0.080
Steel City	South Dakota	Tripp	563.252	563.313	0.062	SD123	Witten silty clay	0.062
Steel City	South Dakota	Tripp	563.313	563.502	0.188	SD123	Millboro silty clay, 0 to 3 percent slopes	0.188

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	563.502	563.997	0.495	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.495
Steel City	South Dakota	Tripp	563.997	564.016	0.020	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.019
Steel City	South Dakota	Tripp	564.016	564.115	0.099	SD123	Canning-Murdo loams, 6 to 15 percent slopes	0.093
Steel City	South Dakota	Tripp	564.115	564.190	0.075	SD123	Canning loam, 2 to 5 percent slopes	0.074
Steel City	South Dakota	Tripp	564.190	564.199	0.008	SD123	Canning-Murdo loams, 6 to 15 percent slopes	0.008
Steel City	South Dakota	Tripp	564.199	564.220	0.021	SD123	Canning loam, 2 to 5 percent slopes	0.021
Steel City	South Dakota	Tripp	564.220	564.288	0.068	SD123	Canning-Murdo loams, 6 to 15 percent slopes	0.064
Steel City	South Dakota	Tripp	564.288	564.538	0.251	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.240
Steel City	South Dakota	Tripp	564.538	564.771	0.233	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.233
Steel City	South Dakota	Tripp	564.771	564.804	0.033	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.031
Steel City	South Dakota	Tripp	564.804	564.857	0.053	SD123	Canning-Murdo loams, 6 to 15 percent slopes	0.050
Steel City	South Dakota	Tripp	564.857	564.996	0.139	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.134
Steel City	South Dakota	Tripp	564.996	565.094	0.098	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.098
Steel City	South Dakota	Tripp	565.094	565.285	0.191	SD123	Millboro silty clay, 3 to 6 percent slopes	0.189
Steel City	South Dakota	Tripp	565.285	565.536	0.250	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.250
Steel City	South Dakota	Tripp	565.536	565.631	0.096	SD123	Millboro silty clay, 3 to 6 percent slopes	0.095
Steel City	South Dakota	Tripp	565.631	565.689	0.058	SD123	Millboro silty clay, 0 to 3 percent slopes	0.058
Steel City	South Dakota	Tripp	565.689	565.790	0.101	SD123	Millboro silty clay, 3 to 6 percent slopes	0.100
Steel City	South Dakota	Tripp	565.790	565.860	0.070	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.070
Steel City	South Dakota	Tripp	565.860	565.958	0.098	SD123	Inavale complex, channeled	0.008
Steel City	South Dakota	Tripp	565.958	566.320	0.362	SD123	Bridgeport complex	0.355

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	566.320	566.345	0.025	SD123	Anselmo-Vetal fine sandy loams, 0 to 3 percent slopes	0.001
Steel City	South Dakota	Tripp	566.345	566.481	0.136	SD123	Bridgeport complex	0.134
Steel City	South Dakota	Tripp	566.481	566.734	0.252	SD123	Anselmo-Vetal fine sandy loams, 0 to 3 percent slopes	0.005
Steel City	South Dakota	Tripp	566.734	566.984	0.251	SD123	Bridgeport complex	0.246
Steel City	South Dakota	Tripp	566.984	567.135	0.150	SD123	Witten silty clay	0.150
Steel City	South Dakota	Tripp	567.135	567.759	0.624	SD123	Millboro silty clay, 0 to 3 percent slopes	0.624
Steel City	South Dakota	Tripp	567.759	567.876	0.118	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.118
Steel City	South Dakota	Tripp	567.876	568.026	0.149	SD123	Millboro silty clay, 0 to 3 percent slopes	0.149
Steel City	South Dakota	Tripp	568.026	568.267	0.242	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.242
Steel City	South Dakota	Tripp	568.267	568.842	0.575	SD123	Lakoma-Okaton silty clays, 9 to 15 percent slopes	0.552
Steel City	South Dakota	Tripp	568.842	569.505	0.663	SD123	Ree loam, 6 to 9 percent slopes	0.663
Steel City	South Dakota	Tripp	569.505	569.587	0.082	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.082
Steel City	South Dakota	Tripp	569.587	569.771	0.185	SD123	Ree loam, 6 to 9 percent slopes	0.185
Steel City	South Dakota	Tripp	569.771	569.873	0.101	SD123	Ree loam, 9 to 15 percent slopes	0.092
Steel City	South Dakota	Tripp	569.873	570.027	0.154	SD123	Ree loam, 6 to 9 percent slopes	0.154
Steel City	South Dakota	Tripp	570.027	570.169	0.143	SD123	Promise clay, 6 to 9 percent slopes	0.143
Steel City	South Dakota	Tripp	570.169	570.242	0.073	SD123	Millboro silty clay, 6 to 9 percent slopes	0.071
Steel City	South Dakota	Tripp	570.327	570.744	0.418	SD123	Ree loam, 6 to 9 percent slopes	0.418
Steel City	South Dakota	Tripp	570.744	570.867	0.123	SD123	Manter fine sandy loam, 3 to 9 percent slopes	0.001
Steel City	South Dakota	Tripp	570.867	570.958	0.091	SD123	Manter fine sandy loam, 0 to 3 percent slopes	0.001
Steel City	South Dakota	Tripp	570.958	571.108	0.150	SD123	Manter fine sandy loam, 3 to 9 percent slopes	0.002

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	571.319	571.423	0.104	SD123	Anselmo-Vetal fine sandy loams, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	571.423	571.551	0.129	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	571.554	571.616	0.062	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	572.407	572.467	0.060	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	572.580	572.767	0.187	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.006
Steel City	South Dakota	Tripp	572.767	572.883	0.116	SD123	Lakoma-Millboro silty clays, 5 to 9 percent slopes	0.116
Steel City	South Dakota	Tripp	572.883	573.309	0.426	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.387
Steel City	South Dakota	Tripp	573.464	574.063	0.599	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.018
Steel City	South Dakota	Tripp	574.161	574.296	0.135	SD123	Elsmere fine sandy loam	0.007
Steel City	South Dakota	Tripp	574.470	574.541	0.071	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	574.612	574.773	0.160	SD123	Elsmere fine sandy loam	0.008
Steel City	South Dakota	Tripp	574.839	574.912	0.073	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	575.974	576.179	0.205	SD123	Ronson-Longpine fine sandy loams, 0 to 6 percent slopes	0.002
Steel City	South Dakota	Tripp	576.450	576.632	0.182	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.005
Steel City	South Dakota	Tripp	576.632	576.670	0.038	SD123	Elsmere fine sandy loam	0.002
Steel City	South Dakota	Tripp	576.670	576.768	0.098	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.003
Steel City	South Dakota	Tripp	576.768	576.845	0.077	SD123	Elsmere fine sandy loam	0.004
Steel City	South Dakota	Tripp	576.845	577.004	0.159	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.005
Steel City	South Dakota	Tripp	577.108	577.242	0.135	SD123	Ronson fine sandy loam, 0 to 4 percent slopes	0.004
Steel City	South Dakota	Tripp	577.420	577.512	0.092	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	577.601	577.804	0.203	SD123	Elsmere fine sandy loam	0.010

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	577.806	577.833	0.027	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.000
Steel City	South Dakota	Tripp	578.072	578.116	0.043	SD123	Vetal fine sandy loam	0.002
Steel City	South Dakota	Tripp	578.116	578.206	0.090	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	578.984	579.078	0.094	SD123	Whitelake fine sandy loam	0.085
Steel City	South Dakota	Tripp	579.078	579.200	0.122	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	579.200	579.383	0.182	SD123	Whitelake fine sandy loam	0.166
Steel City	South Dakota	Tripp	579.383	579.529	0.146	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	579.529	579.597	0.069	SD123	Whitelake-Lute fine sandy loams	0.055
Steel City	South Dakota	Tripp	579.969	580.187	0.217	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.198
Steel City	South Dakota	Tripp	580.187	580.245	0.058	SD123	Anselmo-Vetal fine sandy loams, 0 to 3 percent slopes	0.001
Steel City	South Dakota	Tripp	580.245	580.488	0.243	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.221
Steel City	South Dakota	Tripp	580.488	580.641	0.153	SD123	Wewela fine sandy loam, 0 to 3 percent slopes	0.136
Steel City	South Dakota	Tripp	580.641	580.673	0.032	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.029
Steel City	South Dakota	Tripp	580.725	580.836	0.111	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	580.836	581.022	0.186	SD123	Whitelake fine sandy loam	0.169
Steel City	South Dakota	Tripp	581.022	581.166	0.144	SD123	Whitelake-Lute fine sandy loams	0.115
Steel City	South Dakota	Tripp	581.166	581.203	0.037	SD123	Whitelake fine sandy loam	0.033
Steel City	South Dakota	Tripp	581.203	581.229	0.026	SD123	Whitelake-Lute fine sandy loams	0.021
Steel City	South Dakota	Tripp	581.229	581.431	0.202	SD123	Whitelake fine sandy loam	0.184
Steel City	South Dakota	Tripp	581.431	581.524	0.093	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	582.047	582.132	0.084	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	582.176	582.290	0.114	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	582.409	582.461	0.052	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	582.838	582.875	0.037	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.001
Steel City	South Dakota	Tripp	582.958	583.046	0.088	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.003
Steel City	South Dakota	Tripp	583.207	583.226	0.019	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.000
Steel City	South Dakota	Tripp	583.302	583.475	0.173	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.002
Steel City	South Dakota	Tripp	583.758	583.840	0.082	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	584.044	584.088	0.044	SD123	Ronson fine sandy loam, 0 to 4 percent slopes	0.001
Steel City	South Dakota	Tripp	584.092	584.486	0.394	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.004
Steel City	South Dakota	Tripp	584.486	584.605	0.119	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.004
Steel City	South Dakota	Tripp	584.869	585.048	0.178	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.002
Steel City	South Dakota	Tripp	585.211	585.499	0.289	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.263
Steel City	South Dakota	Tripp	585.499	585.502	0.002	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.000
Steel City	South Dakota	Tripp	585.603	585.604	0.002	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.000
Steel City	South Dakota	Tripp	585.737	585.840	0.103	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.001
Steel City	South Dakota	Tripp	585.840	585.909	0.069	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	586.369	586.574	0.205	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.002
Steel City	South Dakota	Tripp	586.827	587.320	0.492	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.005
Steel City	South Dakota	Tripp	588.391	588.409	0.018	SD123	Doger loamy fine sand, 0 to 6 percent slopes	0.000
Steel City	South Dakota	Tripp	588.409	588.524	0.115	SD123	Doger-Elsmere complex, 0 to 3 percent slopes	0.003
Steel City	South Dakota	Tripp	588.612	588.820	0.208	SD123	Ronson-Longpine fine sandy loams, 0 to 6 percent slopes	0.002

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	588.820	588.944	0.124	SD123	Ronson fine sandy loam, 0 to 4 percent slopes	0.004
Steel City	South Dakota	Tripp	588.983	589.245	0.262	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.029
Steel City	South Dakota	Tripp	589.748	590.212	0.464	SD123	Manter fine sandy loam, 3 to 9 percent slopes	0.005
Steel City	South Dakota	Tripp	590.383	590.528	0.144	SD123	Manter fine sandy loam, 3 to 9 percent slopes	0.001
Steel City	South Dakota	Tripp	590.528	590.689	0.161	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.147
Steel City	South Dakota	Tripp	590.689	590.755	0.066	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.007
Steel City	South Dakota	Tripp	590.755	590.950	0.195	SD123	Manter fine sandy loam, 3 to 9 percent slopes	0.002
Steel City	South Dakota	Tripp	590.950	591.060	0.110	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.012
Steel City	South Dakota	Tripp	591.060	591.116	0.055	SD123	Wann fine sandy loam	0.047
Steel City	South Dakota	Tripp	591.116	591.300	0.185	SD123	Wewela fine sandy loam, 3 to 6 percent slopes	0.168
Steel City	South Dakota	Tripp	591.300	591.374	0.074	SD123	Boyd clay, 5 to 9 percent slopes	0.072
Steel City	South Dakota	Tripp	591.374	591.416	0.042	SD123	Wann fine sandy loam	0.036
Steel City	South Dakota	Tripp	591.416	591.681	0.264	SD123	Boyd clay, 5 to 9 percent slopes	0.257
Steel City	South Dakota	Tripp	591.681	591.734	0.054	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.006
Steel City	South Dakota	Tripp	591.734	591.922	0.188	SD123	Manter fine sandy loam, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	591.922	592.041	0.119	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.013
Steel City	South Dakota	Tripp	592.041	592.501	0.459	SD123	Boyd-Okaton association, 9 to 25 percent slopes	0.427
Steel City	South Dakota	Tripp	592.906	592.925	0.019	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.002
Steel City	South Dakota	Tripp	593.033	593.115	0.081	SD123	Boyd-Okaton association, 9 to 25 percent slopes	0.076
Steel City	South Dakota	Tripp	593.307	593.421	0.114	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.013
Steel City	South Dakota	Tripp	593.523	593.645	0.123	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.013

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	South Dakota	Tripp	593.684	593.840	0.156	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.017
Steel City	South Dakota	Tripp	594.391	594.627	0.236	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.026
Steel City	South Dakota	Tripp	594.627	594.727	0.101	SD123	Ree loam, 3 to 6 percent slopes	0.101
Steel City	South Dakota	Tripp	594.727	594.843	0.116	SD123	Manter fine sandy loam, 0 to 3 percent slopes	0.001
Steel City	South Dakota	Tripp	594.843	594.849	0.005	SD123	Ree loam, 3 to 6 percent slopes	0.005
Steel City	South Dakota	Tripp	594.849	594.873	0.024	SD123	Manter fine sandy loam, 0 to 3 percent slopes	0.000
Steel City	South Dakota	Tripp	594.873	594.909	0.037	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.004
Steel City	South Dakota	Tripp	594.909	595.337	0.428	SD123	Boyd-Okaton association, 9 to 25 percent slopes	0.398
Steel City	South Dakota	Tripp	595.337	595.480	0.143	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.016
Steel City	South Dakota	Tripp	595.480	595.705	0.225	SD123	Boyd-Okaton association, 9 to 25 percent slopes	0.209
Steel City	South Dakota	Tripp	595.705	595.782	0.078	SD123	Promise clay, 3 to 6 percent slopes	0.078
Steel City	South Dakota	Tripp	595.782	595.916	0.133	SD123	Bridgeport complex, channeled	0.108
Steel City	South Dakota	Tripp	595.916	596.054	0.138	SD123	Bridgeport complex	0.135
Steel City	South Dakota	Tripp	596.054	596.117	0.063	SD123	Promise clay, 3 to 6 percent slopes	0.063
Steel City	South Dakota	Tripp	596.273	596.396	0.124	SD123	Anselmo-Vetal fine sandy loams, 0 to 3 percent slopes	0.002
Steel City	South Dakota	Tripp	596.426	596.684	0.258	SD123	Anselmo-Vetal fine sandy loams, 0 to 3 percent slopes	0.005
Steel City	South Dakota	Tripp	596.684	596.804	0.120	SD123	Manter-Anselmo fine sandy loams, 15 to 30 percent slopes	0.013
Steel City	South Dakota	Tripp	596.804	596.839	0.035	SD123	Boyd-Okaton association, 9 to 25 percent slopes	0.033
Steel City	Nebraska	Keya Paha	596.839	596.939	0.100	NE103	Labu silty clay, 6 to 11 percent slopes	0.099
Steel City	Nebraska	Keya Paha	596.939	596.974	0.035	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.035
Steel City	Nebraska	Keya Paha	596.974	597.045	0.071	NE103	Labu silty clay, 6 to 11 percent slopes	0.070
Steel City	Nebraska	Keya Paha	597.045	597.085	0.040	NE103	Verdel silty clay loam, 0 to 2 percent slopes	0.040

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Keya Paha	597.085	597.112	0.027	NE103	Labu silty clay, 6 to 11 percent slopes	0.026
Steel City	Nebraska	Keya Paha	597.112	597.153	0.041	NE103	Verdel silty clay loam, 0 to 2 percent slopes	0.041
Steel City	Nebraska	Keya Paha	597.153	597.155	0.002	NE103	Labu silty clay, 6 to 11 percent slopes	0.002
Steel City	Nebraska	Keya Paha	597.155	597.226	0.071	NE103	Verdel silty clay loam, 0 to 2 percent slopes	0.071
Steel City	Nebraska	Keya Paha	597.226	597.232	0.006	NE103	Labu silty clay, 6 to 11 percent slopes	0.006
Steel City	Nebraska	Keya Paha	597.232	597.567	0.335	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.335
Steel City	Nebraska	Keya Paha	597.567	597.608	0.041	NE103	Labu silty clay, 6 to 11 percent slopes	0.040
Steel City	Nebraska	Keya Paha	597.667	597.720	0.053	NE103	Labu silty clay, 6 to 11 percent slopes	0.053
Steel City	Nebraska	Keya Paha	597.720	597.828	0.107	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.107
Steel City	Nebraska	Keya Paha	597.875	597.943	0.067	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.067
Steel City	Nebraska	Keya Paha	597.983	598.032	0.049	NE103	Verdel silty clay loam, 0 to 2 percent slopes	0.049
Steel City	Nebraska	Keya Paha	598.032	598.176	0.144	NE103	Labu silty clay, 6 to 11 percent slopes	0.142
Steel City	Nebraska	Keya Paha	598.176	598.219	0.043	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.043
Steel City	Nebraska	Keya Paha	598.219	598.307	0.088	NE103	Labu silty clay, 6 to 11 percent slopes	0.087
Steel City	Nebraska	Keya Paha	598.307	598.341	0.035	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.035
Steel City	Nebraska	Keya Paha	598.341	598.388	0.046	NE103	Labu silty clay, 6 to 11 percent slopes	0.046
Steel City	Nebraska	Keya Paha	598.388	599.091	0.703	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.703
Steel City	Nebraska	Keya Paha	599.091	599.187	0.096	NE103	Labu silty clay, 6 to 11 percent slopes	0.095
Steel City	Nebraska	Keya Paha	599.187	599.257	0.070	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.070
Steel City	Nebraska	Keya Paha	599.257	599.321	0.064	NE103	Labu silty clay, 6 to 11 percent slopes	0.064
Steel City	Nebraska	Keya Paha	599.321	599.398	0.077	NE103	Verdel silty clay loam, 0 to 2 percent slopes	0.077
Steel City	Nebraska	Keya Paha	600.134	600.200	0.065	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.039
Steel City	Nebraska	Keya Paha	601.070	601.153	0.084	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.049
Steel City	Nebraska	Keya Paha	601.425	601.469	0.044	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.026
Steel City	Nebraska	Keya Paha	601.495	601.532	0.037	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.022
Steel City	Nebraska	Keya Paha	601.715	601.851	0.136	NE103	Wewela fine sandy loam, 2 to 6 percent slopes	0.136
Steel City	Nebraska	Keya Paha	601.851	601.984	0.134	NE103	Wewela fine sandy loam, 0 to 2 percent slopes	0.132
Steel City	Nebraska	Keya Paha	601.984	602.055	0.070	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.042

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Keya Paha	602.508	602.641	0.134	NE103	Wewela fine sandy loam, 0 to 2 percent slopes	0.132
Steel City	Nebraska	Keya Paha	602.641	602.678	0.037	NE103	Wewela fine sandy loam, 2 to 6 percent slopes	0.037
Steel City	Nebraska	Keya Paha	602.678	602.723	0.045	NE103	Wewela fine sandy loam, 0 to 2 percent slopes	0.044
Steel City	Nebraska	Keya Paha	604.120	604.167	0.047	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.028
Steel City	Nebraska	Keya Paha	604.217	604.249	0.032	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.019
Steel City	Nebraska	Keya Paha	604.498	604.542	0.044	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.026
Steel City	Nebraska	Keya Paha	614.475	614.607	0.132	NE103	Valentine-Wewela loamy fine sands, 3 to 6 percent slopes	0.078
Steel City	Nebraska	Keya Paha	614.607	614.729	0.123	NE103	Labu-Sansarc silty clays, 11 to 30 percent slopes	0.123
Steel City	Nebraska	Keya Paha	614.824	614.881	0.057	NE103	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	0.034
Steel City	Nebraska	Rock	615.651	615.844	0.193	NE149	Labu-Sansarc silty clays, 11 to 40 percent slopes	0.191
Steel City	Nebraska	Rock	617.967	618.120	0.153	NE149	Wewela fine sandy loam, 2 to 6 percent slopes	0.153
Steel City	Nebraska	Holt	626.760	626.875	0.115	NE089	Boelus loamy sand, 0 to 3 percent slopes	0.114
Steel City	Nebraska	Holt	626.920	626.972	0.052	NE089	Boelus loamy sand, 0 to 3 percent slopes	0.052
Steel City	Nebraska	Holt	627.040	627.071	0.031	NE089	Boelus loamy sand, 0 to 3 percent slopes	0.031
Steel City	Nebraska	Holt	627.229	627.328	0.098	NE089	Boelus loamy sand, 0 to 3 percent slopes	0.097
Steel City	Nebraska	Holt	627.407	627.849	0.441	NE089	Boelus loamy sand, 0 to 3 percent slopes	0.437
Steel City	Nebraska	Holt	628.796	628.819	0.023	NE089	Barney-Boel-Calamus complex, channeled	0.001
Steel City	Nebraska	Holt	628.912	628.949	0.036	NE089	Barney-Boel-Calamus complex, channeled	0.001
Steel City	Nebraska	Holt	629.575	629.658	0.082	NE089	Ord-Lute fine sandy loams, rarely flooded	0.033
Steel City	Nebraska	Holt	629.876	629.933	0.057	NE089	Ord-Lute fine sandy loams, rarely flooded	0.023
Steel City	Nebraska	Holt	630.135	630.225	0.090	NE089	Barney-Boel-Calamus complex, channeled	0.003
Steel City	Nebraska	Holt	630.452	630.489	0.037	NE089	Barney-Boel-Calamus complex, channeled	0.001
Steel City	Nebraska	Holt	630.546	630.625	0.079	NE089	Ord-Lute fine sandy loams, rarely flooded	0.031
Steel City	Nebraska	Holt	630.662	630.712	0.049	NE089	Barney-Boel-Calamus complex, channeled	0.001
Steel City	Nebraska	Holt	630.735	630.813	0.077	NE089	Ord-Lute fine sandy loams, rarely flooded	0.031
Steel City	Nebraska	Holt	630.839	630.943	0.104	NE089	Ord-Lute fine sandy loams, rarely flooded	0.042
Steel City	Nebraska	Holt	631.020	631.058	0.037	NE089	Ord-Lute fine sandy loams, rarely flooded	0.015
Steel City	Nebraska	Holt	631.267	631.591	0.323	NE089	Ord-Lute fine sandy loams, rarely flooded	0.129

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Holt	631.611	631.668	0.057	NE089	Ord-Lute fine sandy loams, rarely flooded	0.023
Steel City	Nebraska	Holt	631.730	631.836	0.106	NE089	Ord-Lute fine sandy loams, rarely flooded	0.042
Steel City	Nebraska	Holt	631.937	631.971	0.034	NE089	Ord-Lute fine sandy loams, rarely flooded	0.014
Steel City	Nebraska	Holt	632.003	632.105	0.102	NE089	Ord-Lute fine sandy loams, rarely flooded	0.041
Steel City	Nebraska	Holt	632.210	632.324	0.113	NE089	Ord-Lute fine sandy loams, rarely flooded	0.045
Steel City	Nebraska	Holt	632.418	632.444	0.025	NE089	Libory loamy fine sand, 0 to 3 percent slopes	0.025
Steel City	Nebraska	Holt	632.489	632.499	0.010	NE089	Libory loamy fine sand, 0 to 3 percent slopes	0.010
Steel City	Nebraska	Holt	633.551	633.827	0.276	NE089	Ord-Lute fine sandy loams, rarely flooded	0.110
Steel City	Nebraska	Holt	636.310	636.358	0.048	NE089	Barney-Boel-Calamus complex, channeled	0.001
Steel City	Nebraska	Holt	637.114	637.168	0.054	NE089	Libory loamy fine sand, 0 to 3 percent slopes	0.054
Steel City	Nebraska	Holt	647.303	647.591	0.288	NE089	Barney-Boel-Calamus complex, channeled	0.009
Steel City	Nebraska	Wheeler	680.340	680.400	0.060	NE183	Loretto loam, 0 to 2 percent slopes	0.060
Steel City	Nebraska	Wheeler	680.540	680.646	0.106	NE183	Boelus loamy sand, 0 to 3 percent slopes	0.106
Steel City	Nebraska	Wheeler	693.903	693.935	0.031	NE183	Boelus loamy sand, 0 to 3 percent slopes	0.031
Steel City	Nebraska	Wheeler	697.420	697.675	0.255	NE183	Libory loamy fine sand, 0 to 3 percent slopes	0.255
Steel City	Nebraska	Greeley	710.189	710.334	0.146	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.087
Steel City	Nebraska	Greeley	710.334	710.589	0.255	NE077	Hord silt loam, 1 to 3 percent slopes	0.252
Steel City	Nebraska	Greeley	710.639	710.669	0.030	NE077	Hord silt loam, 1 to 3 percent slopes	0.030
Steel City	Nebraska	Greeley	710.669	710.939	0.270	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.108
Steel City	Nebraska	Greeley	710.939	711.110	0.171	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.103
Steel City	Nebraska	Greeley	711.110	711.170	0.060	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.024
Steel City	Nebraska	Greeley	711.170	711.218	0.048	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.026
Steel City	Nebraska	Greeley	711.218	711.238	0.020	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.008
Steel City	Nebraska	Greeley	711.238	711.268	0.030	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.018
Steel City	Nebraska	Greeley	711.268	711.279	0.011	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.004
Steel City	Nebraska	Greeley	711.279	711.338	0.059	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.033
Steel City	Nebraska	Greeley	711.338	711.530	0.191	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.115
Steel City	Nebraska	Greeley	711.530	711.563	0.033	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.018

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Greeley	711.563	711.573	0.010	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.006
Steel City	Nebraska	Greeley	711.573	711.764	0.191	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.105
Steel City	Nebraska	Greeley	711.764	712.164	0.400	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.240
Steel City	Nebraska	Greeley	712.164	712.261	0.098	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.039
Steel City	Nebraska	Greeley	712.261	712.363	0.102	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.056
Steel City	Nebraska	Greeley	712.363	712.433	0.070	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	Greeley	712.433	712.491	0.058	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.032
Steel City	Nebraska	Greeley	712.491	712.506	0.014	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.009
Steel City	Nebraska	Greeley	712.506	712.536	0.030	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.016
Steel City	Nebraska	Greeley	712.536	712.592	0.056	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.034
Steel City	Nebraska	Greeley	712.592	712.669	0.077	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.042
Steel City	Nebraska	Greeley	712.669	712.704	0.035	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.021
Steel City	Nebraska	Greeley	712.704	713.060	0.356	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.196
Steel City	Nebraska	Greeley	713.060	713.141	0.081	NE077	Holdrege silty clay loam, 3 to 7 percent slopes, eroded	0.081
Steel City	Nebraska	Greeley	713.141	713.173	0.032	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.018
Steel City	Nebraska	Greeley	713.173	713.243	0.071	NE077	Holdrege silty clay loam, 3 to 7 percent slopes, eroded	0.071
Steel City	Nebraska	Greeley	713.243	713.307	0.063	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.035
Steel City	Nebraska	Greeley	713.307	713.406	0.099	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.040
Steel City	Nebraska	Greeley	713.406	713.422	0.016	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.009
Steel City	Nebraska	Greeley	713.422	713.476	0.054	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.022
Steel City	Nebraska	Greeley	713.476	713.818	0.341	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.188
Steel City	Nebraska	Greeley	713.818	713.891	0.073	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.029
Steel City	Nebraska	Greeley	713.891	714.128	0.238	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.131
Steel City	Nebraska	Greeley	714.128	714.208	0.080	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.080
Steel City	Nebraska	Greeley	714.208	714.211	0.003	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.001
Steel City	Nebraska	Greeley	714.211	714.271	0.060	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.060
Steel City	Nebraska	Greeley	714.271	714.470	0.199	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.109
Steel City	Nebraska	Greeley	714.470	714.594	0.124	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.124

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Greeley	714.594	714.726	0.132	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.073
Steel City	Nebraska	Greeley	714.726	714.799	0.073	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.073
Steel City	Nebraska	Greeley	714.799	715.030	0.230	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.127
Steel City	Nebraska	Greeley	715.030	715.089	0.059	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.059
Steel City	Nebraska	Greeley	715.089	715.149	0.060	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.033
Steel City	Nebraska	Greeley	715.149	715.327	0.178	NE077	Hall silt loam, 1 to 3 percent slopes	0.178
Steel City	Nebraska	Greeley	715.327	715.380	0.053	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.029
Steel City	Nebraska	Greeley	715.380	715.430	0.049	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.049
Steel City	Nebraska	Greeley	715.430	715.593	0.163	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.090
Steel City	Nebraska	Greeley	715.593	715.628	0.035	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.035
Steel City	Nebraska	Greeley	715.628	715.665	0.036	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.020
Steel City	Nebraska	Greeley	715.665	715.709	0.044	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.044
Steel City	Nebraska	Greeley	715.709	715.829	0.120	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.066
Steel City	Nebraska	Greeley	715.829	716.003	0.174	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.174
Steel City	Nebraska	Greeley	716.003	716.052	0.049	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.027
Steel City	Nebraska	Greeley	716.052	716.122	0.070	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	Greeley	716.122	716.236	0.113	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.045
Steel City	Nebraska	Greeley	716.236	716.278	0.042	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	Greeley	716.278	716.358	0.080	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.044
Steel City	Nebraska	Greeley	716.358	716.403	0.045	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.045
Steel City	Nebraska	Greeley	716.403	716.500	0.097	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.053
Steel City	Nebraska	Greeley	716.500	716.529	0.029	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.017
Steel City	Nebraska	Greeley	716.529	716.612	0.083	NE077	Hall silt loam, 1 to 3 percent slopes	0.083
Steel City	Nebraska	Greeley	716.612	716.680	0.068	NE077	Uly silt loam, 11 to 17 percent slopes, eroded	0.068
Steel City	Nebraska	Greeley	716.680	716.790	0.109	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.060
Steel City	Nebraska	Greeley	716.790	716.844	0.055	NE077	Holdrege silt loam, 3 to 7 percent slopes	0.055
Steel City	Nebraska	Greeley	716.844	717.080	0.235	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.130
Steel City	Nebraska	Greeley	717.080	717.181	0.101	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.041

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Greeley	717.181	717.280	0.099	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.054
Steel City	Nebraska	Greeley	717.280	717.334	0.054	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.022
Steel City	Nebraska	Greeley	717.334	717.386	0.052	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.029
Steel City	Nebraska	Greeley	717.386	717.425	0.040	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.024
Steel City	Nebraska	Greeley	717.425	717.460	0.035	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.019
Steel City	Nebraska	Greeley	717.460	717.489	0.029	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.018
Steel City	Nebraska	Greeley	717.489	717.545	0.055	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.030
Steel City	Nebraska	Greeley	717.545	717.591	0.047	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.028
Steel City	Nebraska	Greeley	717.591	717.660	0.069	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.038
Steel City	Nebraska	Greeley	717.660	717.744	0.084	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.034
Steel City	Nebraska	Greeley	717.744	717.815	0.071	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.039
Steel City	Nebraska	Greeley	717.815	717.846	0.031	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.012
Steel City	Nebraska	Greeley	717.846	717.894	0.048	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.026
Steel City	Nebraska	Greeley	717.894	717.944	0.050	NE077	Uly silt loam, 11 to 17 percent slopes, eroded	0.050
Steel City	Nebraska	Greeley	717.944	717.980	0.036	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.036
Steel City	Nebraska	Greeley	717.980	718.061	0.081	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.044
Steel City	Nebraska	Greeley	718.061	718.154	0.093	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.093
Steel City	Nebraska	Greeley	718.154	718.300	0.145	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.080
Steel City	Nebraska	Greeley	718.300	718.392	0.092	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.037
Steel City	Nebraska	Greeley	718.392	718.446	0.055	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.033
Steel City	Nebraska	Greeley	718.446	718.635	0.189	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.075
Steel City	Nebraska	Greeley	718.635	718.735	0.100	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.060
Steel City	Nebraska	Greeley	718.821	718.945	0.124	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.124
Steel City	Nebraska	Greeley	718.945	718.977	0.032	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.013
Steel City	Nebraska	Greeley	718.977	719.074	0.097	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.097
Steel City	Nebraska	Greeley	719.074	719.168	0.094	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.038
Steel City	Nebraska	Greeley	719.168	719.205	0.037	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.022
Steel City	Nebraska	Greeley	719.205	719.281	0.076	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.030

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Greeley	719.281	719.332	0.052	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.031
Steel City	Nebraska	Greeley	719.332	719.394	0.062	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.025
Steel City	Nebraska	Greeley	719.394	719.442	0.048	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.029
Steel City	Nebraska	Greeley	719.442	719.494	0.052	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.021
Steel City	Nebraska	Greeley	719.494	719.545	0.051	NE077	Uly silt loam, 6 to 11 percent slopes, eroded	0.051
Steel City	Nebraska	Greeley	719.545	719.651	0.106	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.042
Steel City	Nebraska	Greeley	719.651	719.699	0.048	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.029
Steel City	Nebraska	Greeley	719.699	719.760	0.060	NE077	Holdrege silty clay loam, 3 to 7 percent slopes, eroded	0.060
Steel City	Nebraska	Greeley	719.760	719.834	0.074	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.045
Steel City	Nebraska	Greeley	719.834	719.870	0.036	NE077	Holdrege silty clay loam, 3 to 7 percent slopes, eroded	0.036
Steel City	Nebraska	Greeley	719.870	720.041	0.171	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.103
Steel City	Nebraska	Greeley	720.041	720.345	0.304	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.122
Steel City	Nebraska	Greeley	720.345	720.510	0.164	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.099
Steel City	Nebraska	Greeley	720.510	720.604	0.094	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.052
Steel City	Nebraska	Greeley	720.604	720.805	0.201	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.121
Steel City	Nebraska	Greeley	720.805	720.831	0.025	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.010
Steel City	Nebraska	Greeley	720.831	721.316	0.485	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.291
Steel City	Nebraska	Greeley	721.316	721.479	0.163	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.065
Steel City	Nebraska	Greeley	721.479	721.560	0.081	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.045
Steel City	Nebraska	Greeley	721.577	721.597	0.020	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.011
Steel City	Nebraska	Greeley	721.597	721.704	0.108	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.043
Steel City	Nebraska	Greeley	721.704	721.853	0.149	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.082
Steel City	Nebraska	Greeley	721.853	721.956	0.103	NE077	Coly-Uly silt loams, 11 to 17 percent slopes, eroded	0.041
Steel City	Nebraska	Greeley	721.956	721.995	0.039	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.024
Steel City	Nebraska	Greeley	721.995	722.018	0.024	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.013
Steel City	Nebraska	Greeley	722.018	722.062	0.044	NE077	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.026
Steel City	Nebraska	Greeley	722.062	722.293	0.230	NE077	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.127
Steel City	Nebraska	Boone	722.293	722.308	0.015	NE011	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.008

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Boone	722.308	722.372	0.064	NE011	Uly-Coly silt loams, 6 to 11 percent slopes, eroded	0.038
Steel City	Nebraska	Boone	722.372	722.425	0.053	NE011	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.029
Steel City	Nebraska	Boone	722.425	722.497	0.072	NE011	Nora silt loam, 6 to 11 percent slopes	0.072
Steel City	Nebraska	Boone	722.497	722.575	0.079	NE011	Uly-Coly silt loams, 17 to 30 percent slopes, eroded	0.043
Steel City	Nebraska	Boone	722.575	722.740	0.165	NE011	Nora silt loam, 6 to 11 percent slopes	0.165
Steel City	Nebraska	Boone	722.740	722.740	0.000	NE011	Crofton-Nora silt loams, 17 to 30 percent slopes	0.000
Steel City	Nebraska	Boone	722.740	722.794	0.054	NE011	Nora silt loam, 6 to 11 percent slopes	0.054
Steel City	Nebraska	Boone	722.794	722.892	0.098	NE011	Crofton-Nora silt loams, 17 to 30 percent slopes	0.039
Steel City	Nebraska	Boone	722.892	723.016	0.124	NE011	Nora silt loam, 6 to 11 percent slopes	0.124
Steel City	Nebraska	Boone	723.016	723.284	0.268	NE011	Moody silty clay loam, 2 to 6 percent slopes, eroded	0.268
Steel City	Nebraska	Boone	723.284	723.355	0.071	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.071
Steel City	Nebraska	Boone	723.355	723.392	0.037	NE011	Crofton-Nora silt loams, 11 to 17 percent slopes, eroded	0.015
Steel City	Nebraska	Boone	723.392	723.443	0.051	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.051
Steel City	Nebraska	Boone	723.443	723.462	0.019	NE011	Crofton-Nora silt loams, 11 to 17 percent slopes, eroded	0.008
Steel City	Nebraska	Boone	723.462	723.488	0.026	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.026
Steel City	Nebraska	Boone	723.488	723.514	0.025	NE011	Crofton-Nora silt loams, 11 to 17 percent slopes, eroded	0.010
Steel City	Nebraska	Boone	723.514	723.531	0.017	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.017
Steel City	Nebraska	Boone	723.531	723.551	0.020	NE011	Crofton-Nora silt loams, 11 to 17 percent slopes, eroded	0.008
Steel City	Nebraska	Boone	723.598	723.623	0.025	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.025
Steel City	Nebraska	Boone	723.707	723.762	0.055	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.055
Steel City	Nebraska	Boone	723.810	723.856	0.046	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.046
Steel City	Nebraska	Boone	723.856	723.878	0.022	NE011	Moody silty clay loam, 2 to 6 percent slopes, eroded	0.022
Steel City	Nebraska	Boone	723.878	723.911	0.033	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.033
Steel City	Nebraska	Boone	723.911	724.097	0.186	NE011	Crofton-Nora silt loams, 17 to 30 percent slopes	0.074
Steel City	Nebraska	Boone	724.165	724.246	0.081	NE011	Crofton-Nora silt loams, 6 to 11 percent slopes, eroded	0.032
Steel City	Nebraska	Boone	724.246	724.446	0.199	NE011	Hord silt loam, 1 to 3 percent slopes	0.199
Steel City	Nebraska	Boone	724.446	724.498	0.053	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.053
Steel City	Nebraska	Boone	724.498	724.566	0.068	NE011	Hord silt loam, 1 to 3 percent slopes	0.068

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Boone	724.566	724.888	0.321	NE011	Hord silt loam, 0 to 1 percent slopes	0.321
Steel City	Nebraska	Boone	724.888	724.912	0.024	NE011	Nora silt loam, 6 to 11 percent slopes	0.024
Steel City	Nebraska	Boone	724.912	724.966	0.054	NE011	Crofton-Nora silt loams, 17 to 30 percent slopes	0.022
Steel City	Nebraska	Boone	724.966	724.988	0.022	NE011	Nora silt loam, 6 to 11 percent slopes	0.022
Steel City	Nebraska	Boone	724.988	725.103	0.115	NE011	Holdrege silt loam, 0 to 1 percent slopes	0.115
Steel City	Nebraska	Boone	725.103	725.135	0.032	NE011	Nora silt loam, 6 to 11 percent slopes, eroded	0.032
Steel City	Nebraska	Boone	725.135	725.416	0.281	NE011	Coly silt loam, 11 to 30 percent slopes	0.006
Steel City	Nebraska	Boone	725.416	725.437	0.021	NE011	Crofton-Nora silt loams, 6 to 11 percent slopes, eroded	0.008
Steel City	Nebraska	Boone	725.437	725.501	0.064	NE011	Holdrege silt loam, 0 to 1 percent slopes	0.064
Steel City	Nebraska	Boone	725.501	725.545	0.044	NE011	Crofton-Nora silt loams, 6 to 11 percent slopes, eroded	0.018
Steel City	Nebraska	Boone	725.545	725.551	0.006	NE011	Holdrege silt loam, 0 to 1 percent slopes	0.006
Steel City	Nebraska	Boone	725.551	725.585	0.035	NE011	Crofton-Nora silt loams, 6 to 11 percent slopes, eroded	0.014
Steel City	Nebraska	Boone	725.585	725.631	0.046	NE011	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Boone	725.631	725.636	0.005	NE011	Crofton-Nora silt loams, 6 to 11 percent slopes, eroded	0.002
Steel City	Nebraska	Boone	725.636	725.693	0.057	NE011	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	725.693	725.726	0.032	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	725.726	725.748	0.023	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.023
Steel City	Nebraska	Nance	725.748	725.801	0.052	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	725.801	725.812	0.012	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.012
Steel City	Nebraska	Nance	725.812	725.852	0.040	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	725.852	725.874	0.022	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.022
Steel City	Nebraska	Nance	725.874	725.914	0.040	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	725.914	726.019	0.106	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.106
Steel City	Nebraska	Nance	726.019	726.050	0.030	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	726.050	726.284	0.235	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.235
Steel City	Nebraska	Nance	726.284	726.308	0.024	NE125	Coly silt loam, 11 to 30 percent slopes	0.000
Steel City	Nebraska	Nance	726.308	726.799	0.490	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.490
Steel City	Nebraska	Nance	726.799	726.818	0.019	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.006

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Nance	726.818	726.851	0.033	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	726.851	726.985	0.134	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.040
Steel City	Nebraska	Nance	726.985	727.018	0.033	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	727.018	727.072	0.054	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.016
Steel City	Nebraska	Nance	727.072	727.234	0.162	NE125	Holdrege silty clay loam, 3 to 7 percent slopes, eroded	0.162
Steel City	Nebraska	Nance	727.234	727.386	0.152	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.045
Steel City	Nebraska	Nance	727.386	727.441	0.056	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	727.441	727.573	0.132	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.040
Steel City	Nebraska	Nance	727.573	727.682	0.109	NE125	Coly silt loam, 11 to 30 percent slopes	0.002
Steel City	Nebraska	Nance	727.682	727.872	0.190	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.190
Steel City	Nebraska	Nance	727.872	728.002	0.130	NE125	Coly silt loam, 11 to 30 percent slopes	0.003
Steel City	Nebraska	Nance	728.002	728.280	0.278	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.083
Steel City	Nebraska	Nance	728.280	728.292	0.011	NE125	Hord-Uly complex, 0 to 6 percent slopes	0.011
Steel City	Nebraska	Nance	728.292	728.354	0.063	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.019
Steel City	Nebraska	Nance	728.354	728.410	0.055	NE125	Hall silt loam, 0 to 1 percent slopes	0.055
Steel City	Nebraska	Nance	728.410	728.447	0.038	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.011
Steel City	Nebraska	Nance	728.447	728.493	0.045	NE125	Hall silt loam, 0 to 1 percent slopes	0.045
Steel City	Nebraska	Nance	728.493	728.608	0.116	NE125	Hobbs silt loam, frequently flooded	0.114
Steel City	Nebraska	Nance	728.608	728.636	0.028	NE125	Hall silt loam, 1 to 3 percent slopes	0.028
Steel City	Nebraska	Nance	728.636	728.675	0.038	NE125	Hobbs silt loam, frequently flooded	0.038
Steel City	Nebraska	Nance	728.675	728.704	0.030	NE125	Hall silt loam, 1 to 3 percent slopes	0.030
Steel City	Nebraska	Nance	728.704	728.776	0.072	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.022
Steel City	Nebraska	Nance	728.776	728.815	0.039	NE125	Hall silt loam, 1 to 3 percent slopes	0.039
Steel City	Nebraska	Nance	728.815	728.866	0.051	NE125	Hobbs silt loam, frequently flooded	0.051
Steel City	Nebraska	Nance	728.866	729.012	0.145	NE125	Hall silt loam, 0 to 1 percent slopes	0.145
Steel City	Nebraska	Nance	729.012	729.247	0.235	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.071
Steel City	Nebraska	Nance	729.247	729.326	0.079	NE125	Coly silt loam, 11 to 30 percent slopes	0.002
Steel City	Nebraska	Nance	729.326	729.352	0.026	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.008

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Nance	729.352	729.485	0.133	NE125	Coly silt loam, 11 to 30 percent slopes	0.003
Steel City	Nebraska	Nance	729.485	729.508	0.023	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.023
Steel City	Nebraska	Nance	729.508	729.519	0.011	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.003
Steel City	Nebraska	Nance	729.519	729.543	0.025	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.025
Steel City	Nebraska	Nance	729.543	729.598	0.055	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	729.598	729.664	0.065	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.065
Steel City	Nebraska	Nance	729.664	729.805	0.142	NE125	Coly silt loam, 11 to 30 percent slopes	0.003
Steel City	Nebraska	Nance	729.805	729.936	0.130	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.039
Steel City	Nebraska	Nance	729.936	730.002	0.066	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	730.002	730.202	0.200	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.060
Steel City	Nebraska	Nance	730.202	730.256	0.054	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	730.256	730.331	0.075	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.023
Steel City	Nebraska	Nance	730.331	730.339	0.008	NE125	Coly silt loam, 11 to 30 percent slopes	0.000
Steel City	Nebraska	Nance	730.339	730.398	0.058	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.018
Steel City	Nebraska	Nance	730.398	730.762	0.364	NE125	Coly silt loam, 11 to 30 percent slopes	0.007
Steel City	Nebraska	Nance	730.762	730.793	0.031	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.009
Steel City	Nebraska	Nance	730.793	730.810	0.017	NE125	Coly silt loam, 11 to 30 percent slopes	0.000
Steel City	Nebraska	Nance	730.810	731.003	0.194	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.058
Steel City	Nebraska	Nance	731.003	731.110	0.107	NE125	Coly silt loam, 11 to 17 percent slopes, eroded	0.016
Steel City	Nebraska	Nance	731.110	731.265	0.156	NE125	Coly silt loam, 11 to 30 percent slopes	0.003
Steel City	Nebraska	Nance	731.265	731.313	0.048	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.048
Steel City	Nebraska	Nance	731.313	731.555	0.242	NE125	Coly silt loam, 11 to 30 percent slopes	0.005
Steel City	Nebraska	Nance	731.555	731.627	0.072	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.022
Steel City	Nebraska	Nance	731.627	731.639	0.012	NE125	Coly silt loam, 11 to 30 percent slopes	0.000
Steel City	Nebraska	Nance	731.639	731.779	0.140	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	Nance	731.779	731.869	0.089	NE125	Coly silt loam, 11 to 30 percent slopes	0.002
Steel City	Nebraska	Nance	731.869	731.886	0.017	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.005
Steel City	Nebraska	Nance	731.886	732.012	0.126	NE125	Coly silt loam, 11 to 30 percent slopes	0.003

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Nance	732.012	732.057	0.045	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.013
Steel City	Nebraska	Nance	732.057	732.211	0.154	NE125	Coly silt loam, 11 to 30 percent slopes	0.003
Steel City	Nebraska	Nance	732.211	732.245	0.033	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.010
Steel City	Nebraska	Nance	732.245	732.269	0.024	NE125	Holdrege silty clay loam, 3 to 7 percent slopes, eroded	0.024
Steel City	Nebraska	Nance	732.269	732.289	0.020	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.006
Steel City	Nebraska	Nance	732.289	732.309	0.020	NE125	Coly silt loam, 11 to 30 percent slopes	0.000
Steel City	Nebraska	Nance	732.309	732.631	0.322	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.096
Steel City	Nebraska	Nance	732.631	732.659	0.028	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	732.659	732.686	0.027	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.008
Steel City	Nebraska	Nance	732.686	732.907	0.221	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.221
Steel City	Nebraska	Nance	732.907	733.084	0.177	NE125	Coly silt loam, 11 to 30 percent slopes	0.004
Steel City	Nebraska	Nance	733.084	733.207	0.123	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.123
Steel City	Nebraska	Nance	733.207	733.804	0.597	NE125	Coly silt loam, 11 to 30 percent slopes	0.012
Steel City	Nebraska	Nance	733.804	733.883	0.079	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.024
Steel City	Nebraska	Nance	733.883	734.005	0.122	NE125	Coly silt loam, 11 to 30 percent slopes	0.002
Steel City	Nebraska	Nance	734.005	734.170	0.165	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.050
Steel City	Nebraska	Nance	734.170	734.224	0.054	NE125	Coly silt loam, 11 to 17 percent slopes, eroded	0.008
Steel City	Nebraska	Nance	734.224	734.299	0.075	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.023
Steel City	Nebraska	Nance	734.299	734.322	0.023	NE125	Coly silt loam, 11 to 17 percent slopes, eroded	0.003
Steel City	Nebraska	Nance	734.322	734.679	0.357	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.107
Steel City	Nebraska	Nance	734.679	734.746	0.067	NE125	Coly silt loam, 11 to 17 percent slopes, eroded	0.010
Steel City	Nebraska	Nance	734.746	734.809	0.063	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.019
Steel City	Nebraska	Nance	734.809	734.883	0.074	NE125	Holdrege silt loam, 0 to 1 percent slopes	0.074
Steel City	Nebraska	Nance	734.883	734.963	0.080	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.024
Steel City	Nebraska	Nance	734.963	735.731	0.769	NE125	Coly silt loam, 11 to 30 percent slopes	0.015
Steel City	Nebraska	Nance	735.731	736.129	0.397	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.397
Steel City	Nebraska	Nance	736.129	736.223	0.094	NE125	Coly silt loam, 11 to 30 percent slopes	0.002
Steel City	Nebraska	Nance	736.223	736.252	0.029	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.029

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Nance	736.252	736.296	0.044	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	736.296	736.458	0.162	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.162
Steel City	Nebraska	Nance	736.458	736.664	0.206	NE125	Coly silt loam, 11 to 30 percent slopes	0.004
Steel City	Nebraska	Nance	736.664	736.834	0.170	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.170
Steel City	Nebraska	Nance	736.834	736.870	0.036	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	736.870	737.404	0.534	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.534
Steel City	Nebraska	Nance	737.404	737.438	0.035	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	737.438	737.468	0.030	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.030
Steel City	Nebraska	Nance	737.468	737.497	0.029	NE125	Coly silt loam, 11 to 30 percent slopes	0.001
Steel City	Nebraska	Nance	737.497	737.545	0.048	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.048
Steel City	Nebraska	Nance	737.545	737.555	0.010	NE125	Coly silt loam, 11 to 30 percent slopes	0.000
Steel City	Nebraska	Nance	737.555	737.690	0.135	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.135
Steel City	Nebraska	Nance	737.690	738.244	0.554	NE125	Coly silt loam, 11 to 30 percent slopes	0.011
Steel City	Nebraska	Nance	738.244	738.277	0.034	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.034
Steel City	Nebraska	Nance	738.277	738.354	0.077	NE125	Coly silt loam, 11 to 30 percent slopes	0.002
Steel City	Nebraska	Nance	738.354	738.528	0.174	NE125	Uly-Holdrege silt loams, 7 to 11 percent slopes, eroded	0.174
Steel City	Nebraska	Nance	738.528	738.620	0.092	NE125	Coly silt loam, 6 to 11 percent slopes, eroded	0.028
Steel City	Nebraska	Nance	738.620	738.734	0.114	NE125	Holdrege silt loam, 1 to 3 percent slopes	0.114
Steel City	Nebraska	Nance	738.734	738.878	0.144	NE125	Hall silt loam, 0 to 1 percent slopes	0.144
Steel City	Nebraska	Nance	738.878	739.202	0.324	NE125	Muir silt loam, 1 to 3 percent slopes	0.324
Steel City	Nebraska	Nance	739.202	740.489	1.287	NE125	Hall silt loam, 0 to 1 percent slopes	1.287
Steel City	Nebraska	Nance	741.844	741.912	0.068	NE125	Obert soils, occasionally flooded	0.068
Steel City	Nebraska	Nance	742.101	742.229	0.128	NE125	Wann loam, occasionally flooded	0.126
Steel City	Nebraska	Nance	742.229	742.632	0.403	NE125	Obert silt loam, occasionally flooded	0.403
Steel City	Nebraska	Nance	742.632	742.692	0.060	NE125	Wann loam, occasionally flooded	0.059
Steel City	Nebraska	Nance	742.692	742.828	0.136	NE125	Obert silt loam, occasionally flooded	0.136
Steel City	Nebraska	Merrick	742.828	743.481	0.653	NE121	Obert silt loam, occasionally flooded	0.653
Steel City	Nebraska	Merrick	743.481	743.566	0.085	NE121	Wann loam, occasionally flooded	0.084

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Merrick	743.767	743.923	0.156	NE121	Valentine-Boelus loamy fine sands, 3 to 9 percent slopes	0.047
Steel City	Nebraska	Merrick	743.923	744.448	0.525	NE121	Valentine-Boelus loamy fine sands, 0 to 3 percent slopes	0.236
Steel City	Nebraska	Merrick	744.448	744.482	0.034	NE121	Valentine-Boelus loamy fine sands, 3 to 9 percent slopes	0.010
Steel City	Nebraska	Merrick	744.482	744.604	0.122	NE121	Valentine-Boelus loamy fine sands, 0 to 3 percent slopes	0.055
Steel City	Nebraska	Merrick	744.604	745.293	0.689	NE121	Valentine-Boelus loamy fine sands, 3 to 9 percent slopes	0.207
Steel City	Nebraska	Merrick	745.475	745.811	0.336	NE121	Valentine-Boelus loamy fine sands, 3 to 9 percent slopes	0.101
Steel City	Nebraska	Merrick	746.052	746.167	0.114	NE121	Valentine-Boelus loamy fine sands, 3 to 9 percent slopes	0.034
Steel City	Nebraska	Merrick	746.248	746.426	0.178	NE121	Valentine-Boelus loamy fine sands, 3 to 9 percent slopes	0.053
Steel City	Nebraska	Merrick	746.426	746.800	0.375	NE121	Libory loamy fine sand, 0 to 3 percent slopes	0.371
Steel City	Nebraska	Merrick	747.183	747.225	0.043	NE121	Wann loam, occasionally flooded	0.042
Steel City	Nebraska	Merrick	747.650	747.694	0.044	NE121	Lex clay loam, occasionally flooded	0.043
Steel City	Nebraska	Merrick	749.622	749.868	0.246	NE121	Wann loam, occasionally flooded	0.244
Steel City	Nebraska	Merrick	749.868	749.994	0.126	NE121	Gibbon loam, occasionally flooded	0.120
Steel City	Nebraska	Merrick	749.994	750.025	0.030	NE121	Lamo-Saltine complex, occasionally flooded	0.030
Steel City	Nebraska	Merrick	750.025	750.135	0.110	NE121	Gayville-Caruso complex, occasionally flooded	0.109
Steel City	Nebraska	Merrick	750.135	750.137	0.002	NE121	Caruso-Gayville complex, 0 to 1 percent slopes	0.002
Steel City	Nebraska	Merrick	750.341	750.511	0.170	NE121	Gibbon loam, occasionally flooded	0.162
Steel City	Nebraska	Merrick	750.511	750.608	0.096	NE121	Caruso-Gayville complex, 0 to 1 percent slopes	0.095
Steel City	Nebraska	Merrick	750.608	750.620	0.013	NE121	Gibbon loam, occasionally flooded	0.012
Steel City	Nebraska	Merrick	750.732	750.732	0.001	NE121	Gibbon loam, occasionally flooded	0.001
Steel City	Nebraska	Merrick	750.876	750.932	0.055	NE121	Caruso-Gayville complex, 0 to 1 percent slopes	0.055
Steel City	Nebraska	Merrick	750.932	751.228	0.297	NE121	Gibbon loam, occasionally flooded	0.282
Steel City	Nebraska	Merrick	751.228	751.458	0.230	NE121	Lamo clay loam, sandy substratum, 0 to 1 percent slopes	0.228
Steel City	Nebraska	Merrick	751.828	751.939	0.112	NE121	Lex clay loam, occasionally flooded	0.111
Steel City	Nebraska	Merrick	753.875	753.915	0.040	NE121	Libory loamy fine sand, 0 to 3 percent slopes	0.039
Steel City	Nebraska	Merrick	753.915	754.164	0.250	NE121	Lawet variant fine sandy loam, frequently flooded	0.250
Steel City	Nebraska	Merrick	754.781	754.871	0.090	NE121	Gibbon loam, occasionally flooded	0.085
Steel City	Nebraska	Merrick	754.871	755.335	0.464	NE121	Lamo clay loam, sandy substratum, 0 to 1 percent slopes	0.459

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Merrick	757.264	757.268	0.004	NE121	Wann sandy loam, occasionally flooded	0.004
Steel City	Nebraska	Merrick	757.268	757.376	0.108	NE121	Lex loam, occasionally flooded	0.107
Steel City	Nebraska	Hamilton	758.689	758.977	0.288	NE081	Hord silt loam, rarely flooded	0.288
Steel City	Nebraska	Hamilton	759.319	759.390	0.071	NE081	Uly silt loam, 3 to 6 percent slopes	0.071
Steel City	Nebraska	Hamilton	759.610	759.697	0.086	NE081	Hastings silt loam, 0 to 1 percent slopes	0.086
Steel City	Nebraska	Hamilton	759.804	760.318	0.514	NE081	Hastings silt loam, 0 to 1 percent slopes	0.514
Steel City	Nebraska	Hamilton	760.318	760.334	0.016	NE081	Hastings silt loam, 1 to 3 percent slopes	0.016
Steel City	Nebraska	Hamilton	760.334	761.441	1.107	NE081	Hastings silt loam, 0 to 1 percent slopes	1.107
Steel City	Nebraska	Hamilton	761.441	761.774	0.333	NE081	Butler silt loam, 0 to 1 percent slopes	0.333
Steel City	Nebraska	Hamilton	761.774	761.840	0.066	NE081	Hastings silt loam, 1 to 3 percent slopes	0.066
Steel City	Nebraska	Hamilton	761.840	764.262	2.422	NE081	Hastings silt loam, 0 to 1 percent slopes	2.422
Steel City	Nebraska	Hamilton	764.262	764.356	0.094	NE081	Hastings silt loam, 1 to 3 percent slopes	0.094
Steel City	Nebraska	Hamilton	764.356	764.679	0.323	NE081	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.323
Steel City	Nebraska	Hamilton	764.679	764.783	0.104	NE081	Hord silt loam, rarely flooded	0.104
Steel City	Nebraska	Hamilton	764.783	764.872	0.089	NE081	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.089
Steel City	Nebraska	Hamilton	764.872	764.950	0.078	NE081	Hastings silt loam, 1 to 3 percent slopes	0.078
Steel City	Nebraska	York	764.950	765.136	0.186	NE185	Hastings silt loam, 1 to 3 percent slopes	0.186
Steel City	Nebraska	York	765.136	765.247	0.112	NE185	Hord silt loam, 0 to 1 percent slopes	0.112
Steel City	Nebraska	York	765.247	765.272	0.025	NE185	Hobbs silt loam, channeled, frequently flooded	0.025
Steel City	Nebraska	York	765.272	765.475	0.202	NE185	Hord silt loam, 0 to 1 percent slopes	0.202
Steel City	Nebraska	York	765.475	765.527	0.053	NE185	Hobbs silt loam, channeled, frequently flooded	0.053
Steel City	Nebraska	York	765.527	765.635	0.108	NE185	Hord silt loam, 1 to 3 percent slopes	0.108
Steel City	Nebraska	York	765.635	765.765	0.131	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.131
Steel City	Nebraska	York	765.765	766.983	1.217	NE185	Hastings silt loam, 0 to 1 percent slopes	1.217
Steel City	Nebraska	York	766.983	767.108	0.125	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.125
Steel City	Nebraska	York	767.177	767.226	0.049	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.049
Steel City	Nebraska	York	767.226	767.267	0.041	NE185	Hastings silt loam, 0 to 1 percent slopes	0.041
Steel City	Nebraska	York	767.267	767.961	0.694	NE185	Hastings silt loam, 1 to 3 percent slopes	0.694

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	767.961	768.039	0.078	NE185	Hastings silt loam, 0 to 1 percent slopes	0.078
Steel City	Nebraska	York	768.039	768.165	0.127	NE185	Fillmore silt loam, occasionally ponded	0.127
Steel City	Nebraska	York	768.165	768.194	0.029	NE185	Hastings silt loam, 1 to 3 percent slopes	0.029
Steel City	Nebraska	York	768.194	768.493	0.298	NE185	Fillmore silt loam, occasionally ponded	0.298
Steel City	Nebraska	York	768.493	768.597	0.104	NE185	Hastings silt loam, 1 to 3 percent slopes	0.104
Steel City	Nebraska	York	768.597	768.921	0.325	NE185	Hastings silt loam, 0 to 1 percent slopes	0.325
Steel City	Nebraska	York	768.921	768.980	0.059	NE185	Hastings silt loam, 1 to 3 percent slopes	0.059
Steel City	Nebraska	York	768.980	769.054	0.074	NE185	Hastings silt loam, 3 to 7 percent slopes	0.074
Steel City	Nebraska	York	769.054	769.150	0.096	NE185	Hord silt loam, 1 to 3 percent slopes	0.096
Steel City	Nebraska	York	769.150	769.382	0.232	NE185	Butler silt loam, 0 to 1 percent slopes	0.232
Steel City	Nebraska	York	769.382	769.638	0.256	NE185	Crete silt loam, 0 to 1 percent slopes	0.256
Steel City	Nebraska	York	769.638	769.670	0.032	NE185	Fillmore silt loam, occasionally ponded	0.032
Steel City	Nebraska	York	769.670	769.770	0.100	NE185	Crete silt loam, 0 to 1 percent slopes	0.100
Steel City	Nebraska	York	769.770	769.862	0.092	NE185	Fillmore silt loam, occasionally ponded	0.092
Steel City	Nebraska	York	769.862	770.010	0.148	NE185	Crete silt loam, 0 to 1 percent slopes	0.148
Steel City	Nebraska	York	770.010	770.093	0.083	NE185	Hastings silt loam, 1 to 3 percent slopes	0.083
Steel City	Nebraska	York	770.093	770.162	0.069	NE185	Crete silt loam, 0 to 1 percent slopes	0.069
Steel City	Nebraska	York	770.162	770.177	0.014	NE185	Hord silt loam, 1 to 3 percent slopes	0.014
Steel City	Nebraska	York	770.177	770.273	0.096	NE185	Fillmore silt loam, occasionally ponded	0.096
Steel City	Nebraska	York	770.273	770.418	0.146	NE185	Hord silt loam, 1 to 3 percent slopes	0.146
Steel City	Nebraska	York	770.418	770.587	0.169	NE185	Hastings silt loam, 1 to 3 percent slopes	0.169
Steel City	Nebraska	York	770.587	771.163	0.576	NE185	Hastings silt loam, 0 to 1 percent slopes	0.576
Steel City	Nebraska	York	771.163	771.352	0.189	NE185	Hastings silt loam, 1 to 3 percent slopes	0.189
Steel City	Nebraska	York	771.352	771.527	0.175	NE185	Hastings silt loam, 0 to 1 percent slopes	0.175
Steel City	Nebraska	York	771.527	771.629	0.101	NE185	Butler silt loam, 0 to 1 percent slopes	0.101
Steel City	Nebraska	York	771.629	771.729	0.100	NE185	Hastings silt loam, 0 to 1 percent slopes	0.100
Steel City	Nebraska	York	771.729	771.847	0.118	NE185	Hastings silt loam, 1 to 3 percent slopes	0.118
Steel City	Nebraska	York	771.847	773.319	1.472	NE185	Hastings silt loam, 0 to 1 percent slopes	1.472

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	773.319	773.358	0.039	NE185	Butler silt loam, 0 to 1 percent slopes	0.039
Steel City	Nebraska	York	773.358	774.403	1.045	NE185	Hastings silt loam, 0 to 1 percent slopes	1.045
Steel City	Nebraska	York	774.403	774.430	0.027	NE185	Hastings silt loam, 1 to 3 percent slopes	0.027
Steel City	Nebraska	York	774.430	774.602	0.173	NE185	Hastings silt loam, 3 to 7 percent slopes	0.173
Steel City	Nebraska	York	774.602	774.716	0.113	NE185	Hord silt loam, 1 to 3 percent slopes	0.113
Steel City	Nebraska	York	774.716	774.909	0.193	NE185	Hord silt loam, 0 to 1 percent slopes	0.193
Steel City	Nebraska	York	774.909	775.058	0.149	NE185	Hobbs silt loam, channeled, frequently flooded	0.149
Steel City	Nebraska	York	775.058	775.176	0.119	NE185	Hastings silt loam, 3 to 7 percent slopes	0.119
Steel City	Nebraska	York	775.176	775.301	0.125	NE185	Uly-Hobbs silt loams, 11 to 30 percent slopes	0.069
Steel City	Nebraska	York	775.301	775.368	0.067	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.067
Steel City	Nebraska	York	775.368	775.423	0.055	NE185	Hastings silt loam, 0 to 1 percent slopes	0.055
Steel City	Nebraska	York	775.423	775.460	0.038	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.038
Steel City	Nebraska	York	775.460	775.507	0.046	NE185	Hastings silt loam, 0 to 1 percent slopes	0.046
Steel City	Nebraska	York	775.507	775.533	0.027	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.027
Steel City	Nebraska	York	775.533	775.789	0.256	NE185	Hastings silt loam, 0 to 1 percent slopes	0.256
Steel City	Nebraska	York	775.789	775.910	0.120	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.120
Steel City	Nebraska	York	775.910	776.016	0.106	NE185	Hastings silt loam, 0 to 1 percent slopes	0.106
Steel City	Nebraska	York	776.016	776.090	0.075	NE185	Fillmore silt loam, occasionally ponded	0.075
Steel City	Nebraska	York	776.090	776.207	0.117	NE185	Hastings silt loam, 0 to 1 percent slopes	0.117
Steel City	Nebraska	York	776.207	776.276	0.069	NE185	Hastings silt loam, 1 to 3 percent slopes	0.069
Steel City	Nebraska	York	776.276	777.908	1.632	NE185	Hastings silt loam, 0 to 1 percent slopes	1.632
Steel City	Nebraska	York	777.908	777.956	0.048	NE185	Hastings silt loam, 3 to 7 percent slopes	0.048
Steel City	Nebraska	York	777.956	777.994	0.038	NE185	Hastings silt loam, 7 to 11 percent slopes	0.038
Steel City	Nebraska	York	777.994	778.041	0.047	NE185	Hobbs silt loam, frequently flooded	0.046
Steel City	Nebraska	York	778.041	778.083	0.042	NE185	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	York	778.083	778.310	0.227	NE185	Hastings silt loam, 0 to 1 percent slopes	0.227
Steel City	Nebraska	York	778.310	778.446	0.136	NE185	Butler silt loam, 0 to 1 percent slopes	0.136
Steel City	Nebraska	York	778.446	779.302	0.857	NE185	Hastings silt loam, 0 to 1 percent slopes	0.857

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	779.302	779.374	0.071	NE185	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.071
Steel City	Nebraska	York	779.374	779.559	0.185	NE185	Hastings silt loam, 0 to 1 percent slopes	0.185
Steel City	Nebraska	York	779.559	779.672	0.114	NE185	Hastings silt loam, 3 to 7 percent slopes	0.114
Steel City	Nebraska	York	779.672	779.857	0.184	NE185	Hord silt loam, 1 to 3 percent slopes	0.184
Steel City	Nebraska	York	779.857	780.158	0.301	NE185	Crete silt loam, 0 to 1 percent slopes	0.301
Steel City	Nebraska	York	780.158	780.187	0.029	NE185	Hord silt loam, 1 to 3 percent slopes	0.029
Steel City	Nebraska	York	780.187	780.270	0.083	NE185	Hobbs silt loam, channeled, frequently flooded	0.083
Steel City	Nebraska	York	780.270	780.347	0.077	NE185	Hord silt loam, 0 to 1 percent slopes	0.077
Steel City	Nebraska	York	780.347	780.415	0.067	NE185	Hord silt loam, 1 to 3 percent slopes	0.067
Steel City	Nebraska	York	780.415	780.782	0.368	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.368
Steel City	Nebraska	York	780.782	781.799	1.017	NE185	Hastings silt loam, 0 to 1 percent slopes	1.017
Steel City	Nebraska	York	781.799	781.858	0.059	NE185	Hastings silt loam, 3 to 7 percent slopes	0.059
Steel City	Nebraska	York	781.858	781.928	0.069	NE185	Hord silt loam, 1 to 3 percent slopes	0.069
Steel City	Nebraska	York	781.928	782.059	0.131	NE185	Fillmore silt loam, occasionally ponded	0.131
Steel City	Nebraska	York	782.059	782.131	0.073	NE185	Scott silt loam, frequently ponded	0.073
Steel City	Nebraska	York	782.131	782.162	0.031	NE185	Fillmore silt loam, occasionally ponded	0.031
Steel City	Nebraska	York	782.162	782.228	0.066	NE185	Hastings silt loam, 3 to 7 percent slopes	0.066
Steel City	Nebraska	York	782.228	782.356	0.128	NE185	Hastings silt loam, 0 to 1 percent slopes	0.128
Steel City	Nebraska	York	782.356	782.385	0.029	NE185	Fillmore silt loam, occasionally ponded	0.029
Steel City	Nebraska	York	782.385	782.409	0.024	NE185	Hord silt loam, 0 to 1 percent slopes	0.024
Steel City	Nebraska	York	782.409	782.505	0.096	NE185	Hastings silt loam, 1 to 3 percent slopes	0.096
Steel City	Nebraska	York	782.505	782.533	0.028	NE185	Hastings silt loam, 0 to 1 percent slopes	0.028
Steel City	Nebraska	York	782.533	782.579	0.046	NE185	Butler silt loam, 0 to 1 percent slopes	0.046
Steel City	Nebraska	York	782.579	782.595	0.015	NE185	Hastings silt loam, 0 to 1 percent slopes	0.015
Steel City	Nebraska	York	782.595	782.684	0.089	NE185	Hastings silt loam, 1 to 3 percent slopes	0.089
Steel City	Nebraska	York	782.684	782.754	0.070	NE185	Fillmore silt loam, occasionally ponded	0.070
Steel City	Nebraska	York	782.754	782.813	0.059	NE185	Hastings silt loam, 0 to 1 percent slopes	0.059
Steel City	Nebraska	York	782.813	782.836	0.023	NE185	Butler silt loam, 0 to 1 percent slopes	0.023

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	782.836	782.898	0.062	NE185	Fillmore silt loam, occasionally ponded	0.062
Steel City	Nebraska	York	782.898	782.929	0.031	NE185	Butler silt loam, 0 to 1 percent slopes	0.031
Steel City	Nebraska	York	782.929	783.000	0.071	NE185	Crete silt loam, 0 to 1 percent slopes	0.071
Steel City	Nebraska	York	783.000	783.086	0.086	NE185	Hastings silt loam, 0 to 1 percent slopes	0.086
Steel City	Nebraska	York	783.086	783.262	0.176	NE185	Hastings silt loam, 3 to 7 percent slopes	0.176
Steel City	Nebraska	York	783.262	783.301	0.040	NE185	Hastings silt loam, 1 to 3 percent slopes	0.040
Steel City	Nebraska	York	783.301	783.695	0.394	NE185	Hastings silt loam, 0 to 1 percent slopes	0.394
Steel City	Nebraska	York	783.695	783.802	0.107	NE185	Butler silt loam, 0 to 1 percent slopes	0.107
Steel City	Nebraska	York	783.802	784.566	0.764	NE185	Hastings silt loam, 0 to 1 percent slopes	0.764
Steel City	Nebraska	York	784.566	784.655	0.088	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.088
Steel City	Nebraska	York	784.655	784.696	0.041	NE185	Hastings silt loam, 0 to 1 percent slopes	0.041
Steel City	Nebraska	York	784.696	784.772	0.076	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.076
Steel City	Nebraska	York	784.772	785.421	0.650	NE185	Hastings silt loam, 0 to 1 percent slopes	0.650
Steel City	Nebraska	York	785.421	785.499	0.077	NE185	Butler silt loam, 0 to 1 percent slopes	0.077
Steel City	Nebraska	York	785.499	786.073	0.574	NE185	Hastings silt loam, 0 to 1 percent slopes	0.574
Steel City	Nebraska	York	786.073	786.111	0.038	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.038
Steel City	Nebraska	York	786.111	786.168	0.057	NE185	Uly-Hobbs silt loams, 11 to 30 percent slopes	0.031
Steel City	Nebraska	York	786.168	786.206	0.037	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.037
Steel City	Nebraska	York	786.206	786.298	0.093	NE185	Uly-Hobbs silt loams, 11 to 30 percent slopes	0.051
Steel City	Nebraska	York	786.298	786.368	0.070	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.070
Steel City	Nebraska	York	786.368	786.425	0.056	NE185	Hastings silt loam, 1 to 3 percent slopes	0.056
Steel City	Nebraska	York	786.425	786.508	0.083	NE185	Hastings silt loam, 0 to 1 percent slopes	0.083
Steel City	Nebraska	York	786.508	786.568	0.060	NE185	Hastings silt loam, 1 to 3 percent slopes	0.060
Steel City	Nebraska	York	786.568	786.864	0.296	NE185	Hastings silt loam, 0 to 1 percent slopes	0.296
Steel City	Nebraska	York	786.864	786.944	0.080	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.080
Steel City	Nebraska	York	786.944	786.994	0.050	NE185	Uly-Hobbs silt loams, 11 to 30 percent slopes	0.027
Steel City	Nebraska	York	786.994	787.138	0.144	NE185	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.072
Steel City	Nebraska	York	787.138	787.276	0.138	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.138

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	787.276	787.409	0.132	NE185	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.066
Steel City	Nebraska	York	787.409	787.415	0.007	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.007
Steel City	Nebraska	York	787.415	787.485	0.070	NE185	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.035
Steel City	Nebraska	York	787.485	787.522	0.037	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.037
Steel City	Nebraska	York	787.522	787.678	0.156	NE185	Hastings silt loam, 0 to 1 percent slopes	0.156
Steel City	Nebraska	York	787.678	787.730	0.052	NE185	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.026
Steel City	Nebraska	York	787.730	787.984	0.253	NE185	Hastings silt loam, 0 to 1 percent slopes	0.253
Steel City	Nebraska	York	787.984	788.006	0.023	NE185	Hastings silt loam, 3 to 7 percent slopes	0.023
Steel City	Nebraska	York	788.006	788.207	0.201	NE185	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.100
Steel City	Nebraska	York	788.207	788.352	0.145	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.145
Steel City	Nebraska	York	788.352	788.537	0.185	NE185	Hastings silt loam, 0 to 1 percent slopes	0.185
Steel City	Nebraska	York	788.537	788.642	0.105	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.105
Steel City	Nebraska	York	788.642	788.760	0.117	NE185	Hastings silt loam, 0 to 1 percent slopes	0.117
Steel City	Nebraska	York	788.760	788.804	0.044	NE185	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.044
Steel City	Nebraska	York	788.804	788.829	0.026	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.026
Steel City	Nebraska	York	788.829	788.992	0.163	NE185	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.081
Steel City	Nebraska	York	788.992	789.221	0.229	NE185	Geary silty clay loam, 3 to 7 percent slopes, eroded	0.229
Steel City	Nebraska	York	789.221	789.365	0.144	NE185	Hord silt loam, 1 to 3 percent slopes	0.144
Steel City	Nebraska	York	789.365	789.482	0.116	NE185	Hord silt loam, 0 to 1 percent slopes	0.116
Steel City	Nebraska	York	789.536	789.554	0.018	NE185	Hobbs silt loam, frequently flooded	0.018
Steel City	Nebraska	York	789.569	789.641	0.072	NE185	Hobbs silt loam, frequently flooded	0.071
Steel City	Nebraska	York	789.701	789.788	0.087	NE185	Hord silt loam, 0 to 1 percent slopes	0.087
Steel City	Nebraska	York	789.788	789.883	0.095	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.095
Steel City	Nebraska	York	789.883	789.995	0.112	NE185	Hord silt loam, 0 to 1 percent slopes	0.112
Steel City	Nebraska	York	789.995	790.050	0.055	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.055
Steel City	Nebraska	York	790.050	790.219	0.169	NE185	Crete silt loam, 0 to 1 percent slopes	0.169
Steel City	Nebraska	York	790.219	790.298	0.079	NE185	Butler silt loam, 0 to 1 percent slopes	0.079
Steel City	Nebraska	York	790.298	790.398	0.099	NE185	Crete silt loam, 0 to 1 percent slopes	0.099

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	790.398	790.447	0.049	NE185	Butler silt loam, 0 to 1 percent slopes	0.049
Steel City	Nebraska	York	790.447	790.504	0.057	NE185	Hastings silt loam, 0 to 1 percent slopes	0.057
Steel City	Nebraska	York	790.504	790.538	0.035	NE185	Hastings silt loam, 1 to 3 percent slopes	0.035
Steel City	Nebraska	York	790.538	790.636	0.098	NE185	Hastings silt loam, 0 to 1 percent slopes	0.098
Steel City	Nebraska	York	790.636	790.755	0.118	NE185	Butler silt loam, 0 to 1 percent slopes	0.118
Steel City	Nebraska	York	790.755	790.763	0.009	NE185	Hastings silt loam, 0 to 1 percent slopes	0.009
Steel City	Nebraska	York	790.763	790.889	0.126	NE185	Hord silt loam, 1 to 3 percent slopes	0.126
Steel City	Nebraska	York	790.889	791.007	0.117	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.117
Steel City	Nebraska	York	791.007	791.165	0.158	NE185	Hastings silt loam, 0 to 1 percent slopes	0.158
Steel City	Nebraska	York	791.165	791.477	0.312	NE185	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.312
Steel City	Nebraska	York	791.477	791.496	0.019	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.019
Steel City	Nebraska	York	791.496	791.517	0.022	NE185	Hastings silt loam, 1 to 3 percent slopes	0.022
Steel City	Nebraska	York	791.517	791.552	0.034	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.034
Steel City	Nebraska	York	791.552	791.728	0.177	NE185	Hastings silt loam, 1 to 3 percent slopes	0.177
Steel City	Nebraska	York	791.728	791.789	0.061	NE185	Hastings silt loam, 3 to 7 percent slopes	0.061
Steel City	Nebraska	York	791.789	791.853	0.064	NE185	Hastings silt loam, 1 to 3 percent slopes	0.064
Steel City	Nebraska	York	791.853	791.890	0.037	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.037
Steel City	Nebraska	York	791.890	791.937	0.047	NE185	Hastings silt loam, 1 to 3 percent slopes	0.047
Steel City	Nebraska	York	791.937	792.003	0.066	NE185	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.066
Steel City	Nebraska	York	792.003	792.037	0.035	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.035
Steel City	Nebraska	York	792.037	792.063	0.026	NE185	Hastings silt loam, 1 to 3 percent slopes	0.026
Steel City	Nebraska	York	792.063	792.104	0.040	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.040
Steel City	Nebraska	York	792.104	792.119	0.016	NE185	Hastings silt loam, 1 to 3 percent slopes	0.016
Steel City	Nebraska	York	792.119	792.178	0.059	NE185	Hastings silt loam, 3 to 7 percent slopes	0.059
Steel City	Nebraska	York	792.178	792.221	0.043	NE185	Hastings silt loam, 1 to 3 percent slopes	0.043
Steel City	Nebraska	York	792.221	792.277	0.056	NE185	Hastings silt loam, 3 to 7 percent slopes	0.056
Steel City	Nebraska	York	792.277	792.322	0.045	NE185	Hastings silt loam, 1 to 3 percent slopes	0.045
Steel City	Nebraska	York	792.322	792.451	0.130	NE185	Hastings silt loam, 3 to 7 percent slopes	0.130

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	York	792.451	792.594	0.142	NE185	Hastings silt loam, 1 to 3 percent slopes	0.142
Steel City	Nebraska	York	792.594	792.716	0.122	NE185	Butler silt loam, 0 to 1 percent slopes	0.122
Steel City	Nebraska	York	792.716	792.870	0.154	NE185	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.154
Steel City	Nebraska	York	792.870	793.042	0.172	NE185	Butler silt loam, 0 to 1 percent slopes	0.172
Steel City	Nebraska	York	793.042	793.061	0.019	NE185	Hastings silt loam, 3 to 7 percent slopes	0.019
Steel City	Nebraska	York	793.061	793.275	0.214	NE185	Hastings silt loam, 1 to 3 percent slopes	0.214
Steel City	Nebraska	York	793.275	793.612	0.337	NE185	Hastings silt loam, 3 to 7 percent slopes	0.337
Steel City	Nebraska	York	793.612	793.632	0.021	NE185	Hastings silt loam, 1 to 3 percent slopes	0.021
Steel City	Nebraska	York	793.632	793.692	0.060	NE185	Butler silt loam, 0 to 1 percent slopes	0.060
Steel City	Nebraska	York	793.692	793.729	0.037	NE185	Hastings silt loam, 1 to 3 percent slopes	0.037
Steel City	Nebraska	York	793.729	794.004	0.275	NE185	Hastings silt loam, 3 to 7 percent slopes	0.275
Steel City	Nebraska	York	794.004	794.041	0.037	NE185	Hord silt loam, 1 to 3 percent slopes	0.037
Steel City	Nebraska	York	794.041	794.170	0.129	NE185	Hastings silt loam, 3 to 7 percent slopes	0.129
Steel City	Nebraska	York	794.170	794.240	0.071	NE185	Hastings silt loam, 1 to 3 percent slopes	0.071
Steel City	Nebraska	York	794.240	794.388	0.148	NE185	Butler silt loam, 0 to 1 percent slopes	0.148
Steel City	Nebraska	York	794.388	794.419	0.031	NE185	Hastings silt loam, 3 to 7 percent slopes	0.031
Steel City	Nebraska	York	794.419	794.480	0.061	NE185	Hastings silt loam, 1 to 3 percent slopes	0.061
Steel City	Nebraska	Fillmore	794.480	794.491	0.011	NE059	Hastings silt loam, 1 to 3 percent slopes	0.011
Steel City	Nebraska	Fillmore	794.491	794.556	0.066	NE059	Fillmore silt loam, occasionally ponded	0.066
Steel City	Nebraska	Fillmore	794.556	794.900	0.344	NE059	Hastings silt loam, 3 to 7 percent slopes	0.344
Steel City	Nebraska	Fillmore	794.900	794.989	0.089	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.089
Steel City	Nebraska	Fillmore	794.989	795.094	0.105	NE059	Hobbs silt loam, occasionally flooded	0.104
Steel City	Nebraska	Fillmore	795.094	795.155	0.061	NE059	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.061
Steel City	Nebraska	Fillmore	795.155	795.163	0.008	NE059	Hastings silt loam, 1 to 3 percent slopes	0.008
Steel City	Nebraska	Fillmore	795.163	795.367	0.204	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.204
Steel City	Nebraska	Fillmore	795.367	795.405	0.038	NE059	Hastings silt loam, 1 to 3 percent slopes	0.038
Steel City	Nebraska	Fillmore	795.405	795.548	0.143	NE059	Crete silt loam, 0 to 1 percent slopes	0.143
Steel City	Nebraska	Fillmore	795.548	795.848	0.300	NE059	Butler silt loam, 0 to 1 percent slopes	0.300

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Fillmore	795.848	795.917	0.069	NE059	Crete silt loam, 0 to 1 percent slopes	0.069
Steel City	Nebraska	Fillmore	795.917	795.972	0.055	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.055
Steel City	Nebraska	Fillmore	795.972	796.287	0.315	NE059	Hastings silt loam, 1 to 3 percent slopes	0.315
Steel City	Nebraska	Fillmore	796.287	796.335	0.048	NE059	Crete silt loam, 0 to 1 percent slopes	0.048
Steel City	Nebraska	Fillmore	796.335	796.397	0.063	NE059	Butler silt loam, 0 to 1 percent slopes	0.063
Steel City	Nebraska	Fillmore	796.397	796.675	0.277	NE059	Crete silt loam, 0 to 1 percent slopes	0.277
Steel City	Nebraska	Fillmore	796.675	796.812	0.138	NE059	Butler silt loam, 0 to 1 percent slopes	0.138
Steel City	Nebraska	Fillmore	796.812	796.855	0.043	NE059	Crete silt loam, 0 to 1 percent slopes	0.043
Steel City	Nebraska	Fillmore	796.855	796.928	0.073	NE059	Butler silt loam, 0 to 1 percent slopes	0.073
Steel City	Nebraska	Fillmore	796.928	797.275	0.347	NE059	Crete silt loam, 0 to 1 percent slopes	0.347
Steel City	Nebraska	Fillmore	797.275	797.334	0.059	NE059	Hastings silt loam, 1 to 3 percent slopes	0.059
Steel City	Nebraska	Fillmore	797.334	797.407	0.074	NE059	Crete silt loam, 0 to 1 percent slopes	0.074
Steel City	Nebraska	Fillmore	797.407	797.456	0.048	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.048
Steel City	Nebraska	Fillmore	797.456	797.610	0.154	NE059	Hastings silt loam, 1 to 3 percent slopes	0.154
Steel City	Nebraska	Fillmore	797.610	797.614	0.004	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.004
Steel City	Nebraska	Fillmore	797.614	797.699	0.085	NE059	Hastings silt loam, 1 to 3 percent slopes	0.085
Steel City	Nebraska	Fillmore	797.699	797.760	0.061	NE059	Crete silt loam, 0 to 1 percent slopes	0.061
Steel City	Nebraska	Fillmore	797.760	797.950	0.190	NE059	Butler silt loam, 0 to 1 percent slopes	0.190
Steel City	Nebraska	Fillmore	797.950	798.025	0.075	NE059	Fillmore silt loam, occasionally ponded	0.075
Steel City	Nebraska	Fillmore	798.025	798.098	0.073	NE059	Butler silt loam, 0 to 1 percent slopes	0.073
Steel City	Nebraska	Fillmore	798.098	798.319	0.222	NE059	Crete silt loam, 0 to 1 percent slopes	0.222
Steel City	Nebraska	Fillmore	798.319	798.402	0.083	NE059	Fillmore silt loam, occasionally ponded	0.083
Steel City	Nebraska	Fillmore	798.402	798.437	0.036	NE059	Crete silt loam, 1 to 3 percent slopes	0.036
Steel City	Nebraska	Fillmore	798.437	798.791	0.353	NE059	Crete silt loam, 0 to 1 percent slopes	0.353
Steel City	Nebraska	Fillmore	798.791	799.055	0.264	NE059	Butler silt loam, 0 to 1 percent slopes	0.264
Steel City	Nebraska	Fillmore	799.055	799.134	0.079	NE059	Crete silt loam, 0 to 1 percent slopes	0.079
Steel City	Nebraska	Fillmore	799.134	799.162	0.027	NE059	Butler silt loam, 0 to 1 percent slopes	0.027
Steel City	Nebraska	Fillmore	799.162	799.212	0.050	NE059	Crete silt loam, 0 to 1 percent slopes	0.050

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Fillmore	799.212	799.483	0.272	NE059	Butler silt loam, 0 to 1 percent slopes	0.272
Steel City	Nebraska	Fillmore	799.483	799.520	0.036	NE059	Fillmore silt loam, occasionally ponded	0.036
Steel City	Nebraska	Fillmore	799.520	800.216	0.696	NE059	Olbut-Butler silt loams, 0 to 1 percent slopes	0.696
Steel City	Nebraska	Fillmore	800.216	800.316	0.100	NE059	Crete silt loam, 1 to 3 percent slopes	0.100
Steel City	Nebraska	Fillmore	800.316	800.456	0.140	NE059	Olbut-Butler silt loams, 0 to 1 percent slopes	0.140
Steel City	Nebraska	Fillmore	800.456	800.505	0.049	NE059	Crete silt loam, 0 to 1 percent slopes	0.049
Steel City	Nebraska	Fillmore	800.505	801.434	0.929	NE059	Olbut-Butler silt loams, 0 to 1 percent slopes	0.929
Steel City	Nebraska	Fillmore	801.434	801.642	0.208	NE059	Scott silty clay loam, drained, frequently ponded	0.208
Steel City	Nebraska	Fillmore	801.642	801.755	0.112	NE059	Olbut-Butler silt loams, 0 to 1 percent slopes	0.112
Steel City	Nebraska	Fillmore	801.755	801.800	0.045	NE059	Crete silt loam, 0 to 1 percent slopes	0.045
Steel City	Nebraska	Fillmore	801.800	801.838	0.039	NE059	Scott silty clay loam, drained, frequently ponded	0.039
Steel City	Nebraska	Fillmore	801.838	801.948	0.109	NE059	Butler silt loam, 0 to 1 percent slopes	0.109
Steel City	Nebraska	Fillmore	801.948	802.015	0.067	NE059	Scott silty clay loam, drained, frequently ponded	0.067
Steel City	Nebraska	Fillmore	802.015	802.055	0.041	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.041
Steel City	Nebraska	Fillmore	802.055	802.144	0.088	NE059	Crete silt loam, 1 to 3 percent slopes	0.088
Steel City	Nebraska	Fillmore	802.144	802.492	0.348	NE059	Butler silt loam, 0 to 1 percent slopes	0.348
Steel City	Nebraska	Fillmore	802.492	802.580	0.089	NE059	Crete silty clay loam, 1 to 3 percent slopes	0.089
Steel City	Nebraska	Fillmore	802.580	802.676	0.096	NE059	Crete silt loam, 0 to 1 percent slopes	0.096
Steel City	Nebraska	Fillmore	802.676	802.788	0.112	NE059	Crete silty clay loam, 1 to 3 percent slopes	0.112
Steel City	Nebraska	Fillmore	802.788	802.962	0.174	NE059	Crete silt loam, 0 to 1 percent slopes	0.174
Steel City	Nebraska	Fillmore	802.962	803.014	0.052	NE059	Crete silty clay loam, 1 to 3 percent slopes	0.052
Steel City	Nebraska	Fillmore	803.014	803.087	0.073	NE059	Crete silt loam, 0 to 1 percent slopes	0.073
Steel City	Nebraska	Fillmore	803.087	803.153	0.066	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.066
Steel City	Nebraska	Fillmore	803.153	803.302	0.149	NE059	Crete silt loam, 0 to 1 percent slopes	0.149
Steel City	Nebraska	Fillmore	803.302	803.348	0.046	NE059	Crete silty clay loam, 1 to 3 percent slopes	0.046
Steel City	Nebraska	Fillmore	803.348	803.417	0.069	NE059	Crete silt loam, 0 to 1 percent slopes	0.069
Steel City	Nebraska	Fillmore	803.417	803.523	0.106	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.106
Steel City	Nebraska	Fillmore	803.523	803.634	0.111	NE059	Crete silt loam, 0 to 1 percent slopes	0.111

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Fillmore	803.634	803.696	0.061	NE059	Fillmore silt loam, occasionally ponded	0.061
Steel City	Nebraska	Fillmore	803.696	803.729	0.033	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.033
Steel City	Nebraska	Fillmore	803.729	803.778	0.049	NE059	Crete silt loam, 0 to 1 percent slopes	0.049
Steel City	Nebraska	Fillmore	803.778	803.920	0.142	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.142
Steel City	Nebraska	Fillmore	803.920	804.174	0.255	NE059	Crete silt loam, 0 to 1 percent slopes	0.255
Steel City	Nebraska	Fillmore	804.174	804.218	0.044	NE059	Butler silt loam, 0 to 1 percent slopes	0.044
Steel City	Nebraska	Fillmore	804.218	804.299	0.081	NE059	Crete silt loam, 0 to 1 percent slopes	0.081
Steel City	Nebraska	Fillmore	804.299	804.395	0.096	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.096
Steel City	Nebraska	Fillmore	804.395	804.432	0.037	NE059	Crete silt loam, 0 to 1 percent slopes	0.037
Steel City	Nebraska	Fillmore	804.432	804.531	0.100	NE059	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.100
Steel City	Nebraska	Fillmore	804.531	804.558	0.027	NE059	Crete silt loam, 0 to 1 percent slopes	0.027
Steel City	Nebraska	Fillmore	804.558	804.619	0.061	NE059	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.061
Steel City	Nebraska	Fillmore	804.619	804.705	0.086	NE059	Crete silt loam, 0 to 1 percent slopes	0.086
Steel City	Nebraska	Fillmore	804.705	804.798	0.093	NE059	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.093
Steel City	Nebraska	Fillmore	804.798	804.808	0.010	NE059	Crete silt loam, 0 to 1 percent slopes	0.010
Steel City	Nebraska	Fillmore	804.808	804.852	0.044	NE059	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.044
Steel City	Nebraska	Fillmore	804.852	805.091	0.239	NE059	Crete silt loam, 0 to 1 percent slopes	0.239
Steel City	Nebraska	Fillmore	805.091	805.164	0.073	NE059	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.073
Steel City	Nebraska	Fillmore	805.164	805.212	0.048	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.048
Steel City	Nebraska	Fillmore	805.212	805.403	0.191	NE059	Crete silt loam, 0 to 1 percent slopes	0.191
Steel City	Nebraska	Fillmore	805.403	805.494	0.091	NE059	Fillmore silt loam, drained, 0 to 1 percent slopes	0.091
Steel City	Nebraska	Fillmore	805.494	805.660	0.167	NE059	Crete silt loam, 0 to 1 percent slopes	0.167
Steel City	Nebraska	Fillmore	805.660	805.695	0.035	NE059	Crete silt loam, 1 to 3 percent slopes	0.035
Steel City	Nebraska	Fillmore	805.695	805.796	0.101	NE059	Crete silt loam, 0 to 1 percent slopes	0.101
Steel City	Nebraska	Fillmore	805.796	805.904	0.108	NE059	Crete silt loam, 1 to 3 percent slopes	0.108
Steel City	Nebraska	Fillmore	805.904	806.026	0.122	NE059	Crete silt loam, 0 to 1 percent slopes	0.122
Steel City	Nebraska	Fillmore	806.026	806.180	0.153	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.153
Steel City	Nebraska	Fillmore	806.180	806.336	0.157	NE059	Crete silt loam, 1 to 3 percent slopes	0.157

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Fillmore	806.336	806.417	0.080	NE059	Uly-Hobbs silt loams, 0 to 30 percent slopes	0.080
Steel City	Nebraska	Fillmore	806.417	806.503	0.087	NE059	Crete silt loam, 1 to 3 percent slopes	0.087
Steel City	Nebraska	Fillmore	806.503	806.719	0.216	NE059	Crete silt loam, 0 to 1 percent slopes	0.216
Steel City	Nebraska	Fillmore	806.719	806.734	0.014	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.014
Steel City	Nebraska	Fillmore	806.734	807.201	0.467	NE059	Crete silt loam, 0 to 1 percent slopes	0.467
Steel City	Nebraska	Fillmore	807.201	807.289	0.088	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.088
Steel City	Nebraska	Fillmore	807.289	807.355	0.067	NE059	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.067
Steel City	Nebraska	Fillmore	807.355	807.449	0.094	NE059	Geary silty clay loam, 7 to 11 percent slopes, eroded	0.094
Steel City	Nebraska	Fillmore	807.449	807.570	0.121	NE059	Hobbs silt loam, channeled, frequently flooded	0.121
Steel City	Nebraska	Fillmore	807.570	807.572	0.002	NE059	Geary silty clay loam, 7 to 11 percent slopes, eroded	0.002
Steel City	Nebraska	Fillmore	807.572	807.608	0.036	NE059	Geary silty clay loam, 3 to 7 percent slopes, eroded	0.036
Steel City	Nebraska	Fillmore	807.608	807.641	0.033	NE059	Geary silty clay loam, 7 to 11 percent slopes, eroded	0.033
Steel City	Nebraska	Fillmore	807.641	807.700	0.059	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.059
Steel City	Nebraska	Fillmore	807.700	807.852	0.152	NE059	Geary silty clay loam, 7 to 11 percent slopes, eroded	0.152
Steel City	Nebraska	Fillmore	807.852	807.920	0.067	NE059	Muir silt loam, 1 to 3 percent slopes	0.067
Steel City	Nebraska	Fillmore	807.920	808.130	0.210	NE059	Muir silt loam, rarely flooded	0.208
Steel City	Nebraska	Fillmore	808.130	808.268	0.138	NE059	Butler silt loam, 0 to 1 percent slopes	0.138
Steel City	Nebraska	Fillmore	808.268	808.443	0.175	NE059	Muir silt loam, rarely flooded	0.173
Steel City	Nebraska	Fillmore	808.443	808.483	0.040	NE059	Muir silt loam, 3 to 7 percent slopes	0.040
Steel City	Nebraska	Fillmore	808.483	808.522	0.040	NE059	Hobbs silt loam, occasionally flooded	0.039
Steel City	Nebraska	Fillmore	808.522	808.635	0.113	NE059	Hobbs silt loam, channeled, frequently flooded	0.113
Steel City	Nebraska	Fillmore	808.635	808.758	0.123	NE059	Muir silt loam, rarely flooded	0.122
Steel City	Nebraska	Fillmore	808.758	808.840	0.082	NE059	Geary silty clay loam, 7 to 11 percent slopes, eroded	0.082
Steel City	Nebraska	Fillmore	808.840	808.966	0.126	NE059	Geary-Hobbs silt loams, 0 to 30 percent slopes	0.126
Steel City	Nebraska	Fillmore	808.966	809.024	0.058	NE059	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.058
Steel City	Nebraska	Fillmore	809.024	809.161	0.137	NE059	Crete silt loam, 1 to 3 percent slopes	0.137
Steel City	Nebraska	Saline	809.161	809.205	0.044	NE151	Crete silt loam, 1 to 3 percent slopes	0.044
Steel City	Nebraska	Saline	809.205	809.265	0.060	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.060

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	809.265	809.436	0.171	NE151	Crete silt loam, 1 to 3 percent slopes	0.171
Steel City	Nebraska	Saline	809.436	809.635	0.199	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.199
Steel City	Nebraska	Saline	809.635	809.738	0.103	NE151	Crete silt loam, 1 to 3 percent slopes	0.103
Steel City	Nebraska	Saline	809.738	809.805	0.068	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.068
Steel City	Nebraska	Saline	809.805	810.032	0.227	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.227
Steel City	Nebraska	Saline	810.032	810.067	0.035	NE151	Muir silt loam, 1 to 3 percent slopes	0.035
Steel City	Nebraska	Saline	810.067	810.115	0.048	NE151	Hobbs silt loam, channeled, frequently flooded	0.047
Steel City	Nebraska	Saline	810.115	810.193	0.078	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.078
Steel City	Nebraska	Saline	810.193	810.393	0.200	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.200
Steel City	Nebraska	Saline	810.393	810.420	0.027	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.027
Steel City	Nebraska	Saline	810.420	810.550	0.130	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.130
Steel City	Nebraska	Saline	810.550	810.729	0.179	NE151	Crete silt loam, 1 to 3 percent slopes	0.179
Steel City	Nebraska	Saline	810.729	811.011	0.282	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.282
Steel City	Nebraska	Saline	811.011	811.024	0.013	NE151	Crete silt loam, 1 to 3 percent slopes	0.013
Steel City	Nebraska	Saline	811.024	811.139	0.115	NE151	Crete silt loam, 0 to 1 percent slopes	0.115
Steel City	Nebraska	Saline	811.139	811.354	0.216	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.216
Steel City	Nebraska	Saline	811.354	811.418	0.064	NE151	Crete silt loam, 1 to 3 percent slopes	0.064
Steel City	Nebraska	Saline	811.418	811.560	0.142	NE151	Crete silt loam, 0 to 1 percent slopes	0.142
Steel City	Nebraska	Saline	811.560	811.617	0.057	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.057
Steel City	Nebraska	Saline	811.617	811.744	0.127	NE151	Crete silt loam, 0 to 1 percent slopes	0.127
Steel City	Nebraska	Saline	811.744	811.944	0.200	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.200
Steel City	Nebraska	Saline	811.944	812.008	0.064	NE151	Crete silt loam, 0 to 1 percent slopes	0.064
Steel City	Nebraska	Saline	812.008	812.175	0.167	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.167
Steel City	Nebraska	Saline	812.175	812.423	0.248	NE151	Crete silt loam, 0 to 1 percent slopes	0.248
Steel City	Nebraska	Saline	812.423	812.605	0.182	NE151	Butler silt loam, 0 to 1 percent slopes	0.182
Steel City	Nebraska	Saline	812.605	813.112	0.507	NE151	Crete silt loam, 0 to 1 percent slopes	0.507
Steel City	Nebraska	Saline	813.112	813.207	0.095	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.095
Steel City	Nebraska	Saline	813.207	813.387	0.180	NE151	Crete silt loam, 1 to 3 percent slopes	0.180

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	813.387	813.464	0.077	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.077
Steel City	Nebraska	Saline	813.464	813.525	0.062	NE151	Crete silt loam, 0 to 1 percent slopes	0.062
Steel City	Nebraska	Saline	813.525	813.745	0.220	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.220
Steel City	Nebraska	Saline	813.745	813.887	0.141	NE151	Crete silt loam, 1 to 3 percent slopes	0.141
Steel City	Nebraska	Saline	813.887	814.019	0.132	NE151	Crete silt loam, 0 to 1 percent slopes	0.132
Steel City	Nebraska	Saline	814.019	814.055	0.036	NE151	Crete silt loam, 1 to 3 percent slopes	0.036
Steel City	Nebraska	Saline	814.055	814.089	0.034	NE151	Crete silt loam, 0 to 1 percent slopes	0.034
Steel City	Nebraska	Saline	814.089	814.131	0.042	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.042
Steel City	Nebraska	Saline	814.131	814.201	0.071	NE151	Crete silt loam, 0 to 1 percent slopes	0.071
Steel City	Nebraska	Saline	814.201	814.264	0.063	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.063
Steel City	Nebraska	Saline	814.264	814.332	0.068	NE151	Crete silt loam, 1 to 3 percent slopes	0.068
Steel City	Nebraska	Saline	814.332	814.419	0.087	NE151	Crete silt loam, 0 to 1 percent slopes	0.087
Steel City	Nebraska	Saline	814.419	814.459	0.041	NE151	Crete silt loam, 1 to 3 percent slopes	0.041
Steel City	Nebraska	Saline	814.459	814.500	0.040	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.040
Steel City	Nebraska	Saline	814.500	814.548	0.048	NE151	Crete silt loam, 1 to 3 percent slopes	0.048
Steel City	Nebraska	Saline	814.548	814.589	0.041	NE151	Crete silt loam, 0 to 1 percent slopes	0.041
Steel City	Nebraska	Saline	814.589	814.619	0.030	NE151	Crete silt loam, 1 to 3 percent slopes	0.030
Steel City	Nebraska	Saline	814.619	814.664	0.045	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.045
Steel City	Nebraska	Saline	814.664	814.856	0.192	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.192
Steel City	Nebraska	Saline	814.856	814.976	0.120	NE151	Malmo silty clay loam, 6 to 11 percent slopes, eroded	0.120
Steel City	Nebraska	Saline	814.976	815.065	0.088	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.088
Steel City	Nebraska	Saline	815.065	815.201	0.136	NE151	Hobbs silt loam, channeled, frequently flooded	0.134
Steel City	Nebraska	Saline	815.201	815.243	0.042	NE151	Malmo silty clay loam, 6 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	Saline	815.243	815.283	0.040	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.040
Steel City	Nebraska	Saline	815.283	815.368	0.085	NE151	Malmo silty clay loam, 6 to 11 percent slopes, eroded	0.085
Steel City	Nebraska	Saline	815.368	815.446	0.079	NE151	Burchard clay loam, 6 to 11 percent slopes, eroded	0.079
Steel City	Nebraska	Saline	815.446	815.507	0.060	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.060
Steel City	Nebraska	Saline	815.507	815.539	0.032	NE151	Burchard clay loam, 6 to 11 percent slopes, eroded	0.032

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	815.539	815.603	0.064	NE151	Burchard-Steinauer clay loams, 11 to 30 percent slopes	0.064
Steel City	Nebraska	Saline	815.603	815.610	0.007	NE151	Burchard clay loam, 6 to 11 percent slopes, eroded	0.007
Steel City	Nebraska	Saline	815.610	815.647	0.037	NE151	Malmo silty clay loam, 3 to 6 percent slopes, eroded	0.037
Steel City	Nebraska	Saline	815.647	815.760	0.113	NE151	Crete silt loam, 1 to 3 percent slopes	0.113
Steel City	Nebraska	Saline	815.760	815.789	0.029	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.029
Steel City	Nebraska	Saline	815.789	815.853	0.064	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.064
Steel City	Nebraska	Saline	815.853	815.963	0.110	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.110
Steel City	Nebraska	Saline	815.963	816.073	0.110	NE151	Crete silt loam, 1 to 3 percent slopes	0.110
Steel City	Nebraska	Saline	816.073	816.157	0.085	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.085
Steel City	Nebraska	Saline	816.157	816.192	0.035	NE151	Burchard clay loam, 6 to 11 percent slopes	0.035
Steel City	Nebraska	Saline	816.192	816.297	0.105	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.105
Steel City	Nebraska	Saline	816.297	816.328	0.031	NE151	Burchard clay loam, 6 to 11 percent slopes	0.031
Steel City	Nebraska	Saline	816.328	816.478	0.151	NE151	Burchard-Steinauer clay loams, 11 to 30 percent slopes	0.151
Steel City	Nebraska	Saline	816.478	816.590	0.112	NE151	Malmo silty clay loam, 3 to 6 percent slopes, eroded	0.112
Steel City	Nebraska	Saline	816.590	816.795	0.205	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.205
Steel City	Nebraska	Saline	816.795	816.829	0.034	NE151	Crete silt loam, 1 to 3 percent slopes	0.034
Steel City	Nebraska	Saline	816.829	816.897	0.068	NE151	Crete silt loam, 0 to 1 percent slopes	0.068
Steel City	Nebraska	Saline	816.897	816.910	0.013	NE151	Crete silt loam, 1 to 3 percent slopes	0.013
Steel City	Nebraska	Saline	816.910	817.210	0.301	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.301
Steel City	Nebraska	Saline	817.210	817.273	0.062	NE151	Crete silt loam, 0 to 1 percent slopes	0.062
Steel City	Nebraska	Saline	817.273	817.352	0.079	NE151	Crete silt loam, 1 to 3 percent slopes	0.079
Steel City	Nebraska	Saline	817.352	817.375	0.023	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.023
Steel City	Nebraska	Saline	817.375	817.502	0.128	NE151	Crete silt loam, 1 to 3 percent slopes	0.128
Steel City	Nebraska	Saline	817.502	817.692	0.190	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.190
Steel City	Nebraska	Saline	817.692	817.857	0.165	NE151	Crete silt loam, 1 to 3 percent slopes	0.165
Steel City	Nebraska	Saline	817.857	817.904	0.047	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.047
Steel City	Nebraska	Saline	817.904	818.094	0.190	NE151	Crete silt loam, 1 to 3 percent slopes	0.190
Steel City	Nebraska	Saline	818.094	818.155	0.061	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.061

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	818.155	818.191	0.036	NE151	Crete silt loam, 0 to 1 percent slopes	0.036
Steel City	Nebraska	Saline	818.191	818.220	0.029	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.029
Steel City	Nebraska	Saline	818.220	818.290	0.070	NE151	Crete silt loam, 0 to 1 percent slopes	0.070
Steel City	Nebraska	Saline	818.290	818.326	0.037	NE151	Butler silt loam, 0 to 1 percent slopes	0.037
Steel City	Nebraska	Saline	818.326	818.497	0.170	NE151	Crete silt loam, 0 to 1 percent slopes	0.170
Steel City	Nebraska	Saline	818.497	818.537	0.040	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.040
Steel City	Nebraska	Saline	818.537	818.601	0.064	NE151	Longford silty clay loam, 7 to 11 percent slopes, eroded	0.064
Steel City	Nebraska	Saline	818.601	818.716	0.116	NE151	Hastings silt loam, 3 to 7 percent slopes	0.116
Steel City	Nebraska	Saline	818.716	818.750	0.033	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.033
Steel City	Nebraska	Saline	818.750	818.822	0.072	NE151	Hastings silt loam, 3 to 7 percent slopes	0.072
Steel City	Nebraska	Saline	818.822	818.933	0.111	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.111
Steel City	Nebraska	Saline	818.933	819.006	0.072	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.072
Steel City	Nebraska	Saline	819.006	819.066	0.060	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.060
Steel City	Nebraska	Saline	819.066	819.118	0.052	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.052
Steel City	Nebraska	Saline	819.118	819.178	0.060	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.060
Steel City	Nebraska	Saline	819.178	819.302	0.124	NE151	Longford silty clay loam, 7 to 11 percent slopes, eroded	0.124
Steel City	Nebraska	Saline	819.302	819.433	0.131	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.131
Steel City	Nebraska	Saline	819.433	819.489	0.056	NE151	Crete silt loam, 1 to 3 percent slopes	0.056
Steel City	Nebraska	Saline	819.489	819.554	0.065	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.065
Steel City	Nebraska	Saline	819.554	819.627	0.073	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.073
Steel City	Nebraska	Saline	819.627	819.667	0.039	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.039
Steel City	Nebraska	Saline	819.667	819.708	0.042	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.042
Steel City	Nebraska	Saline	819.708	819.772	0.064	NE151	Malmo silty clay loam, 6 to 11 percent slopes, eroded	0.064
Steel City	Nebraska	Saline	819.772	819.872	0.100	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.100
Steel City	Nebraska	Saline	819.872	819.945	0.072	NE151	Malmo silty clay loam, 6 to 11 percent slopes, eroded	0.072
Steel City	Nebraska	Saline	819.945	819.987	0.042	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.042
Steel City	Nebraska	Saline	819.987	820.123	0.136	NE151	Crete silt loam, 0 to 1 percent slopes	0.136
Steel City	Nebraska	Saline	820.123	820.158	0.035	NE151	Butler silt loam, 0 to 1 percent slopes	0.035

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	820.158	820.213	0.055	NE151	Crete silt loam, 0 to 1 percent slopes	0.055
Steel City	Nebraska	Saline	820.213	820.375	0.163	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.163
Steel City	Nebraska	Saline	820.375	820.455	0.080	NE151	Crete silt loam, 1 to 3 percent slopes	0.080
Steel City	Nebraska	Saline	820.455	820.537	0.082	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.082
Steel City	Nebraska	Saline	820.537	820.728	0.191	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.191
Steel City	Nebraska	Saline	820.728	820.777	0.049	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.049
Steel City	Nebraska	Saline	820.777	820.934	0.157	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.157
Steel City	Nebraska	Saline	820.934	821.041	0.107	NE151	Malmo silty clay loam, 6 to 11 percent slopes, eroded	0.107
Steel City	Nebraska	Saline	821.041	821.102	0.061	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.061
Steel City	Nebraska	Saline	821.102	821.125	0.023	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.023
Steel City	Nebraska	Saline	821.125	821.228	0.102	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.102
Steel City	Nebraska	Saline	821.228	821.347	0.120	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.120
Steel City	Nebraska	Saline	821.347	821.544	0.197	NE151	Crete silt loam, 1 to 3 percent slopes	0.197
Steel City	Nebraska	Saline	821.544	821.759	0.215	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.215
Steel City	Nebraska	Saline	821.759	821.811	0.052	NE151	Hastings silty clay loam, 7 to 11 percent slopes, eroded	0.052
Steel City	Nebraska	Saline	821.811	821.901	0.090	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.090
Steel City	Nebraska	Saline	821.901	821.905	0.004	NE151	Crete silt loam, 1 to 3 percent slopes	0.004
Steel City	Nebraska	Saline	821.905	822.070	0.165	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.165
Steel City	Nebraska	Saline	822.070	822.227	0.157	NE151	Longford silty clay loam, 7 to 11 percent slopes, eroded	0.157
Steel City	Nebraska	Saline	822.227	822.285	0.058	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.058
Steel City	Nebraska	Saline	822.285	822.455	0.169	NE151	Crete silt loam, 1 to 3 percent slopes	0.169
Steel City	Nebraska	Saline	822.455	822.594	0.140	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.140
Steel City	Nebraska	Saline	822.594	822.655	0.060	NE151	Crete silt loam, 1 to 3 percent slopes	0.060
Steel City	Nebraska	Saline	822.655	822.707	0.052	NE151	Crete silt loam, 0 to 1 percent slopes	0.052
Steel City	Nebraska	Saline	822.707	822.753	0.045	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.045
Steel City	Nebraska	Saline	822.753	822.781	0.029	NE151	Crete silt loam, 1 to 3 percent slopes	0.029
Steel City	Nebraska	Saline	822.781	822.852	0.070	NE151	Crete silt loam, 0 to 1 percent slopes	0.070
Steel City	Nebraska	Saline	822.852	823.126	0.275	NE151	Crete silt loam, 1 to 3 percent slopes	0.275

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	823.126	823.376	0.250	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.250
Steel City	Nebraska	Saline	823.376	823.447	0.071	NE151	Longford silty clay loam, 7 to 11 percent slopes, eroded	0.071
Steel City	Nebraska	Saline	823.447	823.500	0.053	NE151	Hobbs silt loam, channeled, frequently flooded	0.053
Steel City	Nebraska	Saline	823.500	823.547	0.048	NE151	Geary silty clay loam, 11 to 30 percent slopes	0.048
Steel City	Nebraska	Saline	823.547	823.637	0.090	NE151	Hobbs silt loam, channeled, frequently flooded	0.089
Steel City	Nebraska	Saline	823.637	823.688	0.051	NE151	Geary silty clay loam, 11 to 30 percent slopes	0.051
Steel City	Nebraska	Saline	823.688	823.751	0.063	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.063
Steel City	Nebraska	Saline	823.751	824.025	0.274	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.274
Steel City	Nebraska	Saline	824.025	824.292	0.267	NE151	Crete silt loam, 1 to 3 percent slopes	0.267
Steel City	Nebraska	Saline	824.292	824.503	0.211	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.211
Steel City	Nebraska	Saline	824.503	824.553	0.050	NE151	Crete silt loam, 1 to 3 percent slopes	0.050
Steel City	Nebraska	Saline	824.553	824.884	0.331	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.331
Steel City	Nebraska	Saline	824.884	824.955	0.071	NE151	Longford silty clay loam, 3 to 7 percent slopes	0.071
Steel City	Nebraska	Saline	824.955	825.002	0.047	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.047
Steel City	Nebraska	Saline	825.002	825.042	0.040	NE151	Geary silty clay loam, 11 to 30 percent slopes	0.040
Steel City	Nebraska	Saline	825.042	825.091	0.049	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.049
Steel City	Nebraska	Saline	825.091	825.110	0.019	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.019
Steel City	Nebraska	Saline	825.110	825.140	0.030	NE151	Crete silt loam, 1 to 3 percent slopes	0.030
Steel City	Nebraska	Saline	825.140	825.180	0.040	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.040
Steel City	Nebraska	Saline	825.180	825.210	0.030	NE151	Longford silty clay loam, 7 to 11 percent slopes, eroded	0.030
Steel City	Nebraska	Saline	825.210	825.269	0.059	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.059
Steel City	Nebraska	Saline	825.269	825.298	0.030	NE151	Crete silt loam, 1 to 3 percent slopes	0.030
Steel City	Nebraska	Saline	825.298	825.393	0.094	NE151	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.094
Steel City	Nebraska	Saline	825.393	825.486	0.093	NE151	Muir silt loam, 1 to 3 percent slopes	0.093
Steel City	Nebraska	Saline	825.486	825.586	0.100	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.100
Steel City	Nebraska	Saline	825.586	825.723	0.136	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.136
Steel City	Nebraska	Saline	825.723	825.778	0.056	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.056
Steel City	Nebraska	Saline	825.778	825.855	0.077	NE151	Hastings silty clay loam, 3 to 7 percent slopes, eroded	0.077

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Saline	825.855	825.951	0.096	NE151	Deroin silty clay loam, 6 to 11 percent slopes, eroded	0.096
Steel City	Nebraska	Saline	825.951	826.001	0.050	NE151	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.050
Steel City	Nebraska	Jefferson	826.001	826.026	0.025	NE095	Longford silty clay loam, 3 to 7 percent slopes, eroded	0.025
Steel City	Nebraska	Jefferson	826.026	826.256	0.230	NE095	Kennebec silt loam, rarely flooded	0.230
Steel City	Nebraska	Jefferson	826.256	826.272	0.017	NE095	Nodaway silt loam, channeled, occasionally flooded	0.017
Steel City	Nebraska	Jefferson	826.272	826.307	0.034	NE095	Nodaway silt loam, occasionally flooded	0.034
Steel City	Nebraska	Jefferson	826.307	826.363	0.056	NE095	Kennebec silt loam, rarely flooded	0.056
Steel City	Nebraska	Jefferson	826.363	826.493	0.130	NE095	Judson silt loam, 2 to 6 percent slopes	0.130
Steel City	Nebraska	Jefferson	826.493	826.697	0.204	NE095	Geary and Jansen soils, 7 to 11 percent slopes, severely eroded	0.204
Steel City	Nebraska	Jefferson	826.697	826.756	0.059	NE095	Morrill clay loam, 6 to 11 percent slopes	0.059
Steel City	Nebraska	Jefferson	826.756	826.836	0.081	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.081
Steel City	Nebraska	Jefferson	826.836	826.875	0.039	NE095	Morrill soils, 6 to 11 percent slopes, severely eroded	0.039
Steel City	Nebraska	Jefferson	826.875	827.028	0.153	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.153
Steel City	Nebraska	Jefferson	827.028	827.062	0.034	NE095	Morrill soils, 6 to 11 percent slopes, severely eroded	0.034
Steel City	Nebraska	Jefferson	827.062	827.159	0.097	NE095	Morrill clay loam, 11 to 30 percent slopes	0.097
Steel City	Nebraska	Jefferson	827.159	827.220	0.061	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.061
Steel City	Nebraska	Jefferson	827.220	827.254	0.034	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.034
Steel City	Nebraska	Jefferson	827.254	827.444	0.190	NE095	Crete silt loam, 0 to 1 percent slopes	0.190
Steel City	Nebraska	Jefferson	827.444	827.467	0.022	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.022
Steel City	Nebraska	Jefferson	827.467	827.528	0.061	NE095	Crete silt loam, 0 to 1 percent slopes	0.061
Steel City	Nebraska	Jefferson	827.528	827.633	0.105	NE095	Crete silt loam, 1 to 3 percent slopes	0.104
Steel City	Nebraska	Jefferson	827.633	827.713	0.080	NE095	Crete silt loam, 0 to 1 percent slopes	0.080
Steel City	Nebraska	Jefferson	827.713	827.932	0.219	NE095	Crete silt loam, 1 to 3 percent slopes	0.216
Steel City	Nebraska	Jefferson	827.932	828.010	0.079	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.079
Steel City	Nebraska	Jefferson	828.010	828.148	0.137	NE095	Morrill soils, 6 to 11 percent slopes, severely eroded	0.137
Steel City	Nebraska	Jefferson	828.148	828.201	0.053	NE095	Morrill clay loam, 11 to 30 percent slopes	0.053
Steel City	Nebraska	Jefferson	828.201	828.250	0.049	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.049
Steel City	Nebraska	Jefferson	828.250	828.373	0.123	NE095	Morrill clay loam, 11 to 30 percent slopes	0.123

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	828.373	828.411	0.038	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.038
Steel City	Nebraska	Jefferson	828.411	828.514	0.103	NE095	Morrill clay loam, 11 to 30 percent slopes	0.103
Steel City	Nebraska	Jefferson	828.514	828.577	0.063	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.063
Steel City	Nebraska	Jefferson	828.577	828.625	0.049	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.049
Steel City	Nebraska	Jefferson	828.625	828.714	0.089	NE095	Crete silt loam, 1 to 3 percent slopes	0.088
Steel City	Nebraska	Jefferson	828.714	828.813	0.098	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.098
Steel City	Nebraska	Jefferson	828.813	828.865	0.052	NE095	Hastings silty clay loam, 3 to 11 percent slopes, severely eroded	0.052
Steel City	Nebraska	Jefferson	828.865	828.911	0.045	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.045
Steel City	Nebraska	Jefferson	828.911	829.045	0.134	NE095	Crete silt loam, 1 to 3 percent slopes	0.133
Steel City	Nebraska	Jefferson	829.045	829.143	0.098	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.098
Steel City	Nebraska	Jefferson	829.143	829.222	0.078	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.078
Steel City	Nebraska	Jefferson	829.222	829.237	0.016	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.016
Steel City	Nebraska	Jefferson	829.237	829.404	0.167	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.167
Steel City	Nebraska	Jefferson	829.404	829.501	0.097	NE095	Nodaway silt loam, channeled, occasionally flooded	0.097
Steel City	Nebraska	Jefferson	829.501	829.553	0.052	NE095	Judson silt loam, 2 to 6 percent slopes	0.052
Steel City	Nebraska	Jefferson	829.553	829.606	0.053	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.053
Steel City	Nebraska	Jefferson	829.606	829.750	0.145	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.145
Steel City	Nebraska	Jefferson	829.750	829.808	0.058	NE095	Burchard clay loam, 11 to 30 percent slopes	0.058
Steel City	Nebraska	Jefferson	829.808	829.842	0.033	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.033
Steel City	Nebraska	Jefferson	829.842	830.011	0.169	NE095	Burchard clay loam, 11 to 30 percent slopes	0.169
Steel City	Nebraska	Jefferson	830.011	830.047	0.037	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.037
Steel City	Nebraska	Jefferson	830.047	830.125	0.077	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.077
Steel City	Nebraska	Jefferson	830.125	830.352	0.228	NE095	Crete silt loam, 0 to 1 percent slopes	0.228
Steel City	Nebraska	Jefferson	830.352	830.390	0.038	NE095	Crete silt loam, 1 to 3 percent slopes	0.038
Steel City	Nebraska	Jefferson	830.390	830.473	0.083	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.083
Steel City	Nebraska	Jefferson	830.473	830.545	0.072	NE095	Crete silt loam, 1 to 3 percent slopes	0.071
Steel City	Nebraska	Jefferson	830.545	830.634	0.090	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.090
Steel City	Nebraska	Jefferson	830.634	830.698	0.064	NE095	Crete silt loam, 1 to 3 percent slopes	0.063

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	830.698	830.766	0.068	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.068
Steel City	Nebraska	Jefferson	830.766	830.811	0.045	NE095	Crete silt loam, 1 to 3 percent slopes	0.044
Steel City	Nebraska	Jefferson	830.811	831.150	0.339	NE095	Crete silt loam, 0 to 1 percent slopes	0.339
Steel City	Nebraska	Jefferson	831.150	831.290	0.140	NE095	Crete silt loam, 1 to 3 percent slopes	0.139
Steel City	Nebraska	Jefferson	831.290	831.362	0.071	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.071
Steel City	Nebraska	Jefferson	831.362	831.545	0.183	NE095	Crete silt loam, 1 to 3 percent slopes	0.182
Steel City	Nebraska	Jefferson	831.545	831.605	0.059	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.059
Steel City	Nebraska	Jefferson	831.605	831.640	0.036	NE095	Crete silt loam, 1 to 3 percent slopes	0.035
Steel City	Nebraska	Jefferson	831.640	831.728	0.088	NE095	Crete silt loam, 0 to 1 percent slopes	0.088
Steel City	Nebraska	Jefferson	831.728	831.779	0.051	NE095	Butler silt loam, 0 to 1 percent slopes	0.051
Steel City	Nebraska	Jefferson	831.779	832.017	0.238	NE095	Crete silt loam, 0 to 1 percent slopes	0.238
Steel City	Nebraska	Jefferson	832.017	832.163	0.146	NE095	Crete silt loam, 1 to 3 percent slopes	0.144
Steel City	Nebraska	Jefferson	832.163	832.201	0.038	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.038
Steel City	Nebraska	Jefferson	832.201	832.268	0.066	NE095	Crete silt loam, 1 to 3 percent slopes	0.066
Steel City	Nebraska	Jefferson	832.268	832.358	0.091	NE095	Crete silt loam, 0 to 1 percent slopes	0.091
Steel City	Nebraska	Jefferson	832.358	832.453	0.095	NE095	Crete silt loam, 1 to 3 percent slopes	0.094
Steel City	Nebraska	Jefferson	832.453	832.508	0.055	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.055
Steel City	Nebraska	Jefferson	832.508	832.639	0.132	NE095	Crete silt loam, 1 to 3 percent slopes	0.130
Steel City	Nebraska	Jefferson	832.639	832.703	0.063	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.063
Steel City	Nebraska	Jefferson	832.703	832.765	0.062	NE095	Mayberry silty clay loam, 6 to 11 percent slopes	0.062
Steel City	Nebraska	Jefferson	832.765	832.840	0.075	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.075
Steel City	Nebraska	Jefferson	832.840	832.914	0.074	NE095	Crete silt loam, 1 to 3 percent slopes	0.073
Steel City	Nebraska	Jefferson	832.914	833.146	0.232	NE095	Crete silt loam, 0 to 1 percent slopes	0.232
Steel City	Nebraska	Jefferson	833.146	833.199	0.053	NE095	Crete silt loam, 1 to 3 percent slopes	0.053
Steel City	Nebraska	Jefferson	833.199	833.209	0.010	NE095	Mayberry silty clay loam, 6 to 11 percent slopes	0.010
Steel City	Nebraska	Jefferson	833.209	833.237	0.028	NE095	Crete silt loam, 1 to 3 percent slopes	0.028
Steel City	Nebraska	Jefferson	833.237	833.365	0.128	NE095	Crete silt loam, 0 to 1 percent slopes	0.128
Steel City	Nebraska	Jefferson	833.365	833.379	0.014	NE095	Crete silt loam, 1 to 3 percent slopes	0.014

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	833.379	833.567	0.188	NE095	Crete silt loam, 0 to 1 percent slopes	0.188
Steel City	Nebraska	Jefferson	833.567	833.613	0.046	NE095	Crete silt loam, 1 to 3 percent slopes	0.046
Steel City	Nebraska	Jefferson	833.613	833.673	0.059	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.059
Steel City	Nebraska	Jefferson	833.673	833.819	0.146	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.146
Steel City	Nebraska	Jefferson	833.819	833.891	0.072	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.072
Steel City	Nebraska	Jefferson	833.891	833.937	0.046	NE095	Nodaway silt loam, occasionally flooded	0.046
Steel City	Nebraska	Jefferson	833.937	833.956	0.019	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.019
Steel City	Nebraska	Jefferson	833.956	834.003	0.047	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.047
Steel City	Nebraska	Jefferson	834.003	834.047	0.044	NE095	Crete silt loam, 1 to 3 percent slopes	0.043
Steel City	Nebraska	Jefferson	834.047	834.143	0.096	NE095	Crete silt loam, 0 to 1 percent slopes	0.096
Steel City	Nebraska	Jefferson	834.143	834.434	0.291	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.291
Steel City	Nebraska	Jefferson	834.434	834.543	0.109	NE095	Crete silt loam, 1 to 3 percent slopes	0.108
Steel City	Nebraska	Jefferson	834.543	834.603	0.059	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.059
Steel City	Nebraska	Jefferson	834.603	834.747	0.144	NE095	Crete silt loam, 1 to 3 percent slopes	0.143
Steel City	Nebraska	Jefferson	834.747	834.881	0.134	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.134
Steel City	Nebraska	Jefferson	834.881	834.928	0.048	NE095	Morrill clay loam, 3 to 6 percent slopes, eroded	0.048
Steel City	Nebraska	Jefferson	834.928	834.975	0.047	NE095	Morrill soils, 6 to 11 percent slopes, severely eroded	0.047
Steel City	Nebraska	Jefferson	834.975	835.005	0.030	NE095	Judson silt loam, 2 to 6 percent slopes	0.030
Steel City	Nebraska	Jefferson	835.005	835.267	0.262	NE095	Kennebec silt loam, rarely flooded	0.262
Steel City	Nebraska	Jefferson	835.267	835.282	0.015	NE095	Nodaway silt loam, occasionally flooded	0.015
Steel City	Nebraska	Jefferson	835.282	835.301	0.019	NE095	Nodaway silt loam, channeled, occasionally flooded	0.019
Steel City	Nebraska	Jefferson	835.301	835.316	0.015	NE095	Nodaway silt loam, occasionally flooded	0.015
Steel City	Nebraska	Jefferson	835.316	835.366	0.050	NE095	Kennebec silt loam, rarely flooded	0.050
Steel City	Nebraska	Jefferson	835.366	835.528	0.163	NE095	Malcolm silt loam, 6 to 11 percent slopes, eroded	0.163
Steel City	Nebraska	Jefferson	835.528	835.571	0.043	NE095	Burchard clay loam, 2 to 6 percent slopes	0.043
Steel City	Nebraska	Jefferson	835.571	835.622	0.050	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.050
Steel City	Nebraska	Jefferson	835.622	835.667	0.046	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.046
Steel City	Nebraska	Jefferson	835.667	835.713	0.046	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.046

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	835.713	835.916	0.203	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.203
Steel City	Nebraska	Jefferson	835.916	835.979	0.063	NE095	Morrill soils, 6 to 11 percent slopes, severely eroded	0.063
Steel City	Nebraska	Jefferson	835.979	836.035	0.056	NE095	Judson silt loam, 2 to 6 percent slopes	0.056
Steel City	Nebraska	Jefferson	836.035	836.167	0.131	NE095	Morrill soils, 6 to 11 percent slopes, severely eroded	0.131
Steel City	Nebraska	Jefferson	836.167	836.212	0.046	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.046
Steel City	Nebraska	Jefferson	836.212	836.286	0.074	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.074
Steel City	Nebraska	Jefferson	836.286	836.501	0.215	NE095	Nodaway silt loam, occasionally flooded	0.215
Steel City	Nebraska	Jefferson	836.501	836.506	0.005	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.005
Steel City	Nebraska	Jefferson	836.506	836.634	0.128	NE095	Burchard clay loam, 2 to 6 percent slopes	0.128
Steel City	Nebraska	Jefferson	836.634	836.919	0.285	NE095	Nodaway silt loam, occasionally flooded	0.285
Steel City	Nebraska	Jefferson	836.919	836.981	0.062	NE095	Nodaway silt loam, channeled, occasionally flooded	0.062
Steel City	Nebraska	Jefferson	836.981	837.017	0.036	NE095	Malcolm silt loam, 6 to 11 percent slopes, eroded	0.036
Steel City	Nebraska	Jefferson	837.017	837.092	0.074	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.074
Steel City	Nebraska	Jefferson	837.092	837.128	0.037	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.037
Steel City	Nebraska	Jefferson	837.128	837.172	0.043	NE095	Crete silt loam, 1 to 3 percent slopes	0.043
Steel City	Nebraska	Jefferson	837.172	837.201	0.029	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.029
Steel City	Nebraska	Jefferson	837.201	837.353	0.152	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.152
Steel City	Nebraska	Jefferson	837.353	837.418	0.065	NE095	Burchard clay loam, 6 to 11 percent slopes, eroded	0.065
Steel City	Nebraska	Jefferson	837.418	837.440	0.023	NE095	Nodaway silt loam, occasionally flooded	0.023
Steel City	Nebraska	Jefferson	837.440	837.463	0.023	NE095	Nodaway silt loam, channeled, occasionally flooded	0.023
Steel City	Nebraska	Jefferson	837.463	837.523	0.060	NE095	Nodaway silt loam, occasionally flooded	0.060
Steel City	Nebraska	Jefferson	837.523	837.542	0.019	NE095	Nodaway silt loam, channeled, occasionally flooded	0.019
Steel City	Nebraska	Jefferson	837.542	837.559	0.016	NE095	Nodaway silt loam, occasionally flooded	0.016
Steel City	Nebraska	Jefferson	837.559	837.620	0.061	NE095	Burchard clay loam, 6 to 11 percent slopes, eroded	0.061
Steel City	Nebraska	Jefferson	837.620	837.751	0.131	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.131
Steel City	Nebraska	Jefferson	837.751	837.771	0.020	NE095	Burchard clay loam, 6 to 11 percent slopes, eroded	0.020
Steel City	Nebraska	Jefferson	837.771	837.831	0.060	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.060
Steel City	Nebraska	Jefferson	837.831	838.056	0.225	NE095	Burchard clay loam, 6 to 11 percent slopes, eroded	0.225

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	838.056	838.128	0.072	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.072
Steel City	Nebraska	Jefferson	838.128	838.253	0.125	NE095	Crete silt loam, 1 to 3 percent slopes	0.124
Steel City	Nebraska	Jefferson	838.253	838.357	0.104	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.104
Steel City	Nebraska	Jefferson	838.357	838.490	0.133	NE095	Crete silt loam, 0 to 1 percent slopes	0.133
Steel City	Nebraska	Jefferson	838.490	838.543	0.053	NE095	Butler silt loam, 0 to 1 percent slopes	0.053
Steel City	Nebraska	Jefferson	838.543	838.593	0.050	NE095	Crete silt loam, 1 to 3 percent slopes	0.049
Steel City	Nebraska	Jefferson	838.593	838.660	0.067	NE095	Burchard clay loam, 11 to 30 percent slopes	0.067
Steel City	Nebraska	Jefferson	838.660	838.713	0.053	NE095	Crete silt loam, 0 to 1 percent slopes	0.053
Steel City	Nebraska	Jefferson	838.713	838.832	0.119	NE095	Burchard clay loam, 11 to 30 percent slopes	0.119
Steel City	Nebraska	Jefferson	838.832	838.890	0.057	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.057
Steel City	Nebraska	Jefferson	838.890	839.008	0.118	NE095	Crete silt loam, 1 to 3 percent slopes	0.117
Steel City	Nebraska	Jefferson	839.008	839.282	0.275	NE095	Crete silt loam, 0 to 1 percent slopes	0.275
Steel City	Nebraska	Jefferson	839.282	839.375	0.093	NE095	Crete silt loam, 1 to 3 percent slopes	0.092
Steel City	Nebraska	Jefferson	839.375	839.777	0.402	NE095	Crete silt loam, 0 to 1 percent slopes	0.402
Steel City	Nebraska	Jefferson	839.777	839.845	0.067	NE095	Crete silt loam, 1 to 3 percent slopes	0.067
Steel City	Nebraska	Jefferson	839.845	839.960	0.116	NE095	Crete silt loam, 0 to 1 percent slopes	0.116
Steel City	Nebraska	Jefferson	839.960	840.022	0.062	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.062
Steel City	Nebraska	Jefferson	840.022	840.225	0.203	NE095	Crete silt loam, 0 to 1 percent slopes	0.203
Steel City	Nebraska	Jefferson	840.225	840.358	0.133	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.133
Steel City	Nebraska	Jefferson	840.358	840.392	0.034	NE095	Crete silt loam, 1 to 3 percent slopes	0.033
Steel City	Nebraska	Jefferson	840.392	840.470	0.078	NE095	Crete silt loam, 0 to 1 percent slopes	0.078
Steel City	Nebraska	Jefferson	840.470	840.552	0.082	NE095	Crete silt loam, 1 to 3 percent slopes	0.081
Steel City	Nebraska	Jefferson	840.552	840.635	0.082	NE095	Burchard clay loam, 6 to 11 percent slopes	0.082
Steel City	Nebraska	Jefferson	840.635	840.757	0.123	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.123
Steel City	Nebraska	Jefferson	840.757	840.827	0.070	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.070
Steel City	Nebraska	Jefferson	840.827	840.949	0.122	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.122
Steel City	Nebraska	Jefferson	840.949	841.052	0.102	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.102
Steel City	Nebraska	Jefferson	841.052	841.106	0.054	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.054

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	841.106	841.173	0.066	NE095	Crete silt loam, 1 to 3 percent slopes	0.066
Steel City	Nebraska	Jefferson	841.173	841.389	0.216	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.216
Steel City	Nebraska	Jefferson	841.389	841.425	0.036	NE095	Crete silt loam, 1 to 3 percent slopes	0.036
Steel City	Nebraska	Jefferson	841.425	841.515	0.090	NE095	Crete silt loam, 0 to 1 percent slopes	0.090
Steel City	Nebraska	Jefferson	841.515	841.544	0.029	NE095	Crete silt loam, 1 to 3 percent slopes	0.028
Steel City	Nebraska	Jefferson	841.544	841.643	0.099	NE095	Crete silt loam, 0 to 1 percent slopes	0.099
Steel City	Nebraska	Jefferson	841.643	841.665	0.022	NE095	Crete silt loam, 1 to 3 percent slopes	0.022
Steel City	Nebraska	Jefferson	841.665	841.683	0.018	NE095	Hastings silty clay loam, 3 to 11 percent slopes, severely eroded	0.018
Steel City	Nebraska	Jefferson	841.683	841.733	0.049	NE095	Crete silt loam, 1 to 3 percent slopes	0.049
Steel City	Nebraska	Jefferson	841.733	841.768	0.035	NE095	Crete silt loam, 0 to 1 percent slopes	0.035
Steel City	Nebraska	Jefferson	841.768	841.812	0.044	NE095	Crete silt loam, 1 to 3 percent slopes	0.044
Steel City	Nebraska	Jefferson	841.812	841.854	0.042	NE095	Hastings silty clay loam, 3 to 11 percent slopes, severely eroded	0.042
Steel City	Nebraska	Jefferson	841.854	841.958	0.104	NE095	Crete silt loam, 1 to 3 percent slopes	0.103
Steel City	Nebraska	Jefferson	841.958	842.037	0.079	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.079
Steel City	Nebraska	Jefferson	842.037	842.104	0.067	NE095	Crete silt loam, 1 to 3 percent slopes	0.067
Steel City	Nebraska	Jefferson	842.104	842.217	0.113	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.113
Steel City	Nebraska	Jefferson	842.217	842.431	0.213	NE095	Crete silt loam, 1 to 3 percent slopes	0.211
Steel City	Nebraska	Jefferson	842.431	842.521	0.091	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.091
Steel City	Nebraska	Jefferson	842.521	842.712	0.190	NE095	Crete silt loam, 1 to 3 percent slopes	0.188
Steel City	Nebraska	Jefferson	842.712	842.929	0.217	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.217
Steel City	Nebraska	Jefferson	842.929	842.997	0.068	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.068
Steel City	Nebraska	Jefferson	842.997	843.058	0.061	NE095	Nodaway silt loam, occasionally flooded	0.061
Steel City	Nebraska	Jefferson	843.058	843.098	0.039	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.039
Steel City	Nebraska	Jefferson	843.098	843.221	0.123	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.123
Steel City	Nebraska	Jefferson	843.221	843.258	0.037	NE095	Hastings silty clay loam, 3 to 11 percent slopes, severely eroded	0.037
Steel City	Nebraska	Jefferson	843.258	843.281	0.023	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.023
Steel City	Nebraska	Jefferson	843.281	843.367	0.085	NE095	Crete silt loam, 1 to 3 percent slopes	0.084
Steel City	Nebraska	Jefferson	843.367	843.528	0.161	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.161

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	843.528	843.704	0.176	NE095	Morrill clay loam, 11 to 30 percent slopes	0.176
Steel City	Nebraska	Jefferson	843.704	843.819	0.115	NE095	Crete silt loam, 1 to 3 percent slopes	0.114
Steel City	Nebraska	Jefferson	843.819	844.144	0.325	NE095	Crete silt loam, 0 to 1 percent slopes	0.325
Steel City	Nebraska	Jefferson	844.144	844.392	0.249	NE095	Crete silt loam, 1 to 3 percent slopes	0.246
Steel City	Nebraska	Jefferson	844.392	844.523	0.130	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.130
Steel City	Nebraska	Jefferson	844.523	844.560	0.038	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.038
Steel City	Nebraska	Jefferson	844.560	844.792	0.232	NE095	Nodaway silt loam, occasionally flooded	0.232
Steel City	Nebraska	Jefferson	844.792	844.906	0.114	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.114
Steel City	Nebraska	Jefferson	844.906	844.952	0.045	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.045
Steel City	Nebraska	Jefferson	844.952	844.962	0.010	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.010
Steel City	Nebraska	Jefferson	844.962	845.052	0.090	NE095	Nodaway silt loam, occasionally flooded	0.090
Steel City	Nebraska	Jefferson	845.052	845.102	0.050	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.050
Steel City	Nebraska	Jefferson	845.102	845.307	0.205	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.205
Steel City	Nebraska	Jefferson	845.307	845.378	0.071	NE095	Crete silt loam, 1 to 3 percent slopes	0.071
Steel City	Nebraska	Jefferson	845.378	845.981	0.603	NE095	Crete silt loam, 0 to 1 percent slopes	0.603
Steel City	Nebraska	Jefferson	845.981	846.031	0.051	NE095	Crete silt loam, 1 to 3 percent slopes	0.050
Steel City	Nebraska	Jefferson	846.031	846.238	0.206	NE095	Crete silt loam, 0 to 1 percent slopes	0.206
Steel City	Nebraska	Jefferson	846.238	846.418	0.180	NE095	Crete silt loam, 1 to 3 percent slopes	0.178
Steel City	Nebraska	Jefferson	846.418	846.440	0.022	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.022
Steel City	Nebraska	Jefferson	846.440	846.519	0.079	NE095	Crete silt loam, 1 to 3 percent slopes	0.078
Steel City	Nebraska	Jefferson	846.519	846.622	0.103	NE095	Crete silt loam, 0 to 1 percent slopes	0.103
Steel City	Nebraska	Jefferson	846.622	846.679	0.057	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.057
Steel City	Nebraska	Jefferson	846.679	846.734	0.056	NE095	Hastings silty clay loam, 3 to 11 percent slopes, severely eroded	0.056
Steel City	Nebraska	Jefferson	846.734	846.795	0.061	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.061
Steel City	Nebraska	Jefferson	846.795	846.882	0.087	NE095	Crete silt loam, 0 to 1 percent slopes	0.087
Steel City	Nebraska	Jefferson	846.882	847.129	0.247	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.247
Steel City	Nebraska	Jefferson	847.129	847.305	0.176	NE095	Nodaway silt loam, occasionally flooded	0.176
Steel City	Nebraska	Jefferson	847.305	847.367	0.062	NE095	Nodaway silt loam, channeled, occasionally flooded	0.062

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	847.367	847.486	0.120	NE095	Nodaway silt loam, occasionally flooded	0.120
Steel City	Nebraska	Jefferson	847.486	847.561	0.074	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.074
Steel City	Nebraska	Jefferson	847.561	847.651	0.090	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.090
Steel City	Nebraska	Jefferson	847.651	847.717	0.067	NE095	Crete silt loam, 1 to 3 percent slopes	0.066
Steel City	Nebraska	Jefferson	847.717	847.796	0.078	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.078
Steel City	Nebraska	Jefferson	847.796	847.868	0.072	NE095	Malmo clay, 3 to 11 percent slopes, eroded	0.072
Steel City	Nebraska	Jefferson	847.868	847.941	0.073	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.073
Steel City	Nebraska	Jefferson	847.941	848.033	0.092	NE095	Crete silt loam, 1 to 3 percent slopes	0.091
Steel City	Nebraska	Jefferson	848.033	848.112	0.079	NE095	Crete silt loam, 0 to 1 percent slopes	0.079
Steel City	Nebraska	Jefferson	848.112	848.232	0.120	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.120
Steel City	Nebraska	Jefferson	848.232	848.311	0.079	NE095	Crete silt loam, 1 to 3 percent slopes	0.078
Steel City	Nebraska	Jefferson	848.311	848.361	0.051	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.051
Steel City	Nebraska	Jefferson	848.361	848.522	0.160	NE095	Morrill clay loam, 11 to 30 percent slopes	0.160
Steel City	Nebraska	Jefferson	848.522	848.620	0.099	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.099
Steel City	Nebraska	Jefferson	848.620	848.690	0.070	NE095	Morrill clay loam, 11 to 30 percent slopes	0.070
Steel City	Nebraska	Jefferson	848.690	848.910	0.220	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.220
Steel City	Nebraska	Jefferson	848.910	848.983	0.073	NE095	Hastings silty clay loam, 3 to 11 percent slopes, severely eroded	0.073
Steel City	Nebraska	Jefferson	848.983	849.051	0.068	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.068
Steel City	Nebraska	Jefferson	849.051	849.176	0.126	NE095	Crete silt loam, 1 to 3 percent slopes	0.124
Steel City	Nebraska	Jefferson	849.176	849.441	0.265	NE095	Crete silt loam, 0 to 1 percent slopes	0.265
Steel City	Nebraska	Jefferson	849.441	849.635	0.194	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.194
Steel City	Nebraska	Jefferson	849.635	849.671	0.036	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.036
Steel City	Nebraska	Jefferson	849.711	849.791	0.081	NE095	Mayberry silty clay loam, 3 to 6 percent slopes, eroded	0.081
Steel City	Nebraska	Jefferson	849.866	849.982	0.116	NE095	Lancaster and Edalgo soils, 11 to 30 percent slopes	0.116
Steel City	Nebraska	Jefferson	849.982	850.081	0.098	NE095	Mayberry silty clay loam, 6 to 11 percent slopes	0.098
Steel City	Nebraska	Jefferson	850.081	850.195	0.114	NE095	Lancaster and Edalgo soils, 11 to 30 percent slopes	0.114
Steel City	Nebraska	Jefferson	850.195	850.235	0.040	NE095	Edalgo silty clay loam, 7 to 11 percent slopes	0.040
Steel City	Nebraska	Jefferson	850.235	850.255	0.020	NE095	Lancaster and Edalgo soils, 11 to 30 percent slopes	0.020

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Steel City	Nebraska	Jefferson	850.384	850.439	0.055	NE095	Edalgo silty clay loam, 7 to 11 percent slopes	0.055
Steel City	Nebraska	Jefferson	850.439	850.455	0.016	NE095	Lancaster and Edalgo soils, 11 to 30 percent slopes	0.016
Steel City	Nebraska	Jefferson	850.539	850.648	0.109	NE095	Lancaster and Edalgo soils, 11 to 30 percent slopes	0.109
Steel City	Nebraska	Jefferson	850.648	850.756	0.107	NE095	Lancaster loam, 7 to 11 percent slopes	0.107
Steel City	Nebraska	Jefferson	850.756	851.249	0.494	NE095	Crete silty clay loam, 3 to 7 percent slopes, eroded	0.494
Steel City	Nebraska	Jefferson	851.249	851.307	0.058	NE095	Geary and Jansen soils, 7 to 11 percent slopes, severely eroded	0.058
Steel City	Nebraska	Jefferson	851.307	851.570	0.263	NE095	Geary and Jansen soils, 7 to 11 percent slopes	0.263
GULF COAST SEGMENT								
Gulf Coast	Oklahoma	Lincoln	0.000	0.087	0.087	OK081	Seminole loam, 3 to 5 percent slopes	0.087
Gulf Coast	Oklahoma	Lincoln	0.087	0.167	0.081	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.052
Gulf Coast	Oklahoma	Lincoln	0.167	0.393	0.225	OK081	Seminole loam, 3 to 5 percent slopes	0.225
Gulf Coast	Oklahoma	Lincoln	0.393	0.519	0.126	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.126
Gulf Coast	Oklahoma	Lincoln	0.519	0.841	0.322	OK081	Seminole loam, 3 to 5 percent slopes	0.322
Gulf Coast	Oklahoma	Lincoln	0.841	0.924	0.084	OK081	Teller loam, 3 to 5 percent slopes, eroded	0.084
Gulf Coast	Oklahoma	Lincoln	0.924	0.949	0.025	OK081	Easpur loam, 0 to 1 percent slopes, occasionally flooded	0.001
Gulf Coast	Oklahoma	Lincoln	0.949	1.025	0.075	OK081	Teller loam, 3 to 5 percent slopes, eroded	0.075
Gulf Coast	Oklahoma	Lincoln	1.025	1.203	0.179	OK081	Easpur loam, 0 to 1 percent slopes, occasionally flooded	0.009
Gulf Coast	Oklahoma	Lincoln	1.203	1.269	0.065	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.044
Gulf Coast	Oklahoma	Lincoln	1.269	1.682	0.414	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.269
Gulf Coast	Oklahoma	Lincoln	1.682	1.846	0.163	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.163
Gulf Coast	Oklahoma	Lincoln	1.846	1.886	0.041	OK081	Coyle loam, 3 to 5 percent slopes, eroded	0.041
Gulf Coast	Oklahoma	Lincoln	1.886	2.105	0.219	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.219
Gulf Coast	Oklahoma	Lincoln	2.105	2.323	0.217	OK081	Zaneis loam, 3 to 5 percent slopes	0.217
Gulf Coast	Oklahoma	Lincoln	2.323	2.420	0.098	OK081	Lawrie silt loam, 0 to 1 percent slopes, rarely flooded	0.093
Gulf Coast	Oklahoma	Lincoln	2.420	2.476	0.056	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.038

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Lincoln	2.476	2.539	0.063	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.025
Gulf Coast	Oklahoma	Lincoln	2.539	2.626	0.086	OK081	Stephenville fine sandy loam, 3 to 5 percent slopes	0.082
Gulf Coast	Oklahoma	Lincoln	2.626	2.744	0.118	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.118
Gulf Coast	Oklahoma	Lincoln	2.744	2.877	0.133	OK081	Seminole loam, 1 to 3 percent slopes	0.133
Gulf Coast	Oklahoma	Lincoln	2.877	2.926	0.050	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.050
Gulf Coast	Oklahoma	Lincoln	2.926	3.044	0.118	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.118
Gulf Coast	Oklahoma	Lincoln	3.044	3.153	0.109	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.071
Gulf Coast	Oklahoma	Lincoln	3.153	3.223	0.070	OK081	Lawrie silt loam, 0 to 1 percent slopes, rarely flooded	0.067
Gulf Coast	Oklahoma	Lincoln	3.223	3.277	0.054	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.037
Gulf Coast	Oklahoma	Lincoln	3.277	3.293	0.017	OK081	Lawrie silt loam, 0 to 1 percent slopes, rarely flooded	0.016
Gulf Coast	Oklahoma	Lincoln	3.293	3.345	0.052	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.035
Gulf Coast	Oklahoma	Lincoln	3.345	3.488	0.143	OK081	Lawrie silt loam, 0 to 1 percent slopes, rarely flooded	0.136
Gulf Coast	Oklahoma	Lincoln	3.488	3.601	0.113	OK081	Seminole loam, 3 to 5 percent slopes	0.113
Gulf Coast	Oklahoma	Lincoln	3.601	3.631	0.030	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.012
Gulf Coast	Oklahoma	Lincoln	3.631	3.857	0.227	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.147
Gulf Coast	Oklahoma	Lincoln	3.857	3.991	0.133	OK081	Coyle loam, 3 to 5 percent slopes	0.133
Gulf Coast	Oklahoma	Lincoln	3.991	4.438	0.447	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.291
Gulf Coast	Oklahoma	Lincoln	4.438	4.516	0.078	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.031
Gulf Coast	Oklahoma	Lincoln	4.516	4.949	0.433	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.281
Gulf Coast	Oklahoma	Lincoln	4.949	5.016	0.067	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.027
Gulf Coast	Oklahoma	Lincoln	5.016	5.017	0.001	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.000
Gulf Coast	Oklahoma	Lincoln	5.017	5.251	0.234	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.234
Gulf Coast	Oklahoma	Lincoln	5.251	5.337	0.086	OK081	Seminole loam, 3 to 5 percent slopes	0.086
Gulf Coast	Oklahoma	Lincoln	5.337	5.380	0.042	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.028
Gulf Coast	Oklahoma	Lincoln	5.380	5.533	0.154	OK081	Seminole loam, 3 to 5 percent slopes	0.154
Gulf Coast	Oklahoma	Lincoln	5.533	5.646	0.113	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.073

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Lincoln	5.646	5.701	0.055	OK081	Seminole loam, 3 to 5 percent slopes	0.055
Gulf Coast	Oklahoma	Lincoln	5.701	5.740	0.039	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.025
Gulf Coast	Oklahoma	Lincoln	5.740	5.796	0.056	OK081	Seminole loam, 3 to 5 percent slopes	0.056
Gulf Coast	Oklahoma	Lincoln	5.796	6.083	0.286	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.286
Gulf Coast	Oklahoma	Lincoln	6.083	6.366	0.283	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.283
Gulf Coast	Oklahoma	Lincoln	6.366	6.417	0.051	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.033
Gulf Coast	Oklahoma	Lincoln	6.417	6.597	0.180	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.180
Gulf Coast	Oklahoma	Lincoln	6.597	6.749	0.152	OK081	Seminole loam, 3 to 5 percent slopes	0.152
Gulf Coast	Oklahoma	Lincoln	6.749	6.793	0.044	OK081	Seminole loam, 1 to 3 percent slopes	0.044
Gulf Coast	Oklahoma	Lincoln	6.793	6.828	0.035	OK081	Seminole loam, 3 to 5 percent slopes	0.035
Gulf Coast	Oklahoma	Lincoln	6.828	7.556	0.728	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.473
Gulf Coast	Oklahoma	Lincoln	7.556	7.610	0.054	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.054
Gulf Coast	Oklahoma	Lincoln	7.610	7.614	0.004	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.004
Gulf Coast	Oklahoma	Lincoln	7.614	7.645	0.032	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.021
Gulf Coast	Oklahoma	Lincoln	7.645	7.763	0.118	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.118
Gulf Coast	Oklahoma	Lincoln	7.763	7.806	0.043	OK081	Lawrie silt loam, 0 to 1 percent slopes, rarely flooded	0.041
Gulf Coast	Oklahoma	Lincoln	7.806	7.849	0.043	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.028
Gulf Coast	Oklahoma	Lincoln	7.849	7.866	0.017	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.007
Gulf Coast	Oklahoma	Lincoln	7.866	7.916	0.050	OK081	Coyle loam, 3 to 5 percent slopes	0.050
Gulf Coast	Oklahoma	Lincoln	7.916	8.004	0.088	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.035
Gulf Coast	Oklahoma	Lincoln	8.004	8.115	0.111	OK081	Coyle loam, 3 to 5 percent slopes	0.111
Gulf Coast	Oklahoma	Lincoln	8.115	8.228	0.112	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.112
Gulf Coast	Oklahoma	Lincoln	8.228	8.280	0.052	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.021
Gulf Coast	Oklahoma	Lincoln	8.280	8.349	0.069	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.069
Gulf Coast	Oklahoma	Lincoln	8.349	8.424	0.075	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.030
Gulf Coast	Oklahoma	Lincoln	8.424	8.623	0.199	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.199
Gulf Coast	Oklahoma	Lincoln	8.623	8.688	0.065	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.065
Gulf Coast	Oklahoma	Lincoln	8.688	8.784	0.096	OK081	Seminole loam, 3 to 5 percent slopes	0.096

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Lincoln	8.784	8.822	0.038	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.038
Gulf Coast	Oklahoma	Lincoln	8.822	8.893	0.071	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.071
Gulf Coast	Oklahoma	Lincoln	8.893	8.929	0.036	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.036
Gulf Coast	Oklahoma	Lincoln	8.929	9.067	0.138	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.138
Gulf Coast	Oklahoma	Lincoln	9.067	9.262	0.195	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.195
Gulf Coast	Oklahoma	Lincoln	9.262	9.344	0.081	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.053
Gulf Coast	Oklahoma	Lincoln	9.344	9.361	0.018	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.018
Gulf Coast	Oklahoma	Lincoln	9.361	9.441	0.080	OK081	Masham-Lucien complex, 5 to 20 percent slopes	0.052
Gulf Coast	Oklahoma	Lincoln	9.441	9.639	0.198	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.198
Gulf Coast	Oklahoma	Lincoln	9.639	9.739	0.099	OK081	Renthin-Grainola complex, 3 to 5 percent slopes, severely eroded	0.094
Gulf Coast	Oklahoma	Lincoln	9.739	9.993	0.255	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.255
Gulf Coast	Oklahoma	Lincoln	9.993	10.030	0.037	OK081	Seminole loam, 1 to 3 percent slopes	0.037
Gulf Coast	Oklahoma	Lincoln	10.030	10.267	0.236	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.236
Gulf Coast	Oklahoma	Lincoln	10.267	10.368	0.101	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.101
Gulf Coast	Oklahoma	Lincoln	10.368	10.463	0.095	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.095
Gulf Coast	Oklahoma	Lincoln	10.463	10.529	0.066	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.066
Gulf Coast	Oklahoma	Lincoln	10.529	10.643	0.114	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.114
Gulf Coast	Oklahoma	Lincoln	10.643	11.164	0.521	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.521
Gulf Coast	Oklahoma	Lincoln	11.164	11.250	0.086	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.058
Gulf Coast	Oklahoma	Lincoln	11.250	11.508	0.258	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.258
Gulf Coast	Oklahoma	Lincoln	11.508	11.544	0.037	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.037
Gulf Coast	Oklahoma	Lincoln	11.544	11.586	0.042	OK081	Seminole loam, 1 to 3 percent slopes	0.042
Gulf Coast	Oklahoma	Lincoln	11.586	11.726	0.140	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.140
Gulf Coast	Oklahoma	Lincoln	11.726	11.802	0.075	OK081	Seminole loam, 1 to 3 percent slopes	0.075
Gulf Coast	Oklahoma	Lincoln	11.802	11.851	0.049	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.049
Gulf Coast	Oklahoma	Lincoln	11.851	12.079	0.228	OK081	Seminole loam, 1 to 3 percent slopes	0.228
Gulf Coast	Oklahoma	Lincoln	12.079	12.533	0.454	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.454

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Lincoln	12.533	12.585	0.053	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.053
Gulf Coast	Oklahoma	Lincoln	12.585	12.715	0.130	OK081	Seminole loam, 3 to 5 percent slopes	0.130
Gulf Coast	Oklahoma	Lincoln	12.715	12.772	0.057	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.057
Gulf Coast	Oklahoma	Lincoln	12.772	13.000	0.228	OK081	Seminole loam, 3 to 5 percent slopes	0.228
Gulf Coast	Oklahoma	Lincoln	13.000	13.215	0.215	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.215
Gulf Coast	Oklahoma	Lincoln	13.215	13.389	0.174	OK081	Coyle loam, 3 to 5 percent slopes, eroded	0.174
Gulf Coast	Oklahoma	Lincoln	13.389	13.402	0.013	OK081	Stephenville fine sandy loam, 3 to 5 percent slopes	0.012
Gulf Coast	Oklahoma	Lincoln	13.402	13.469	0.066	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.045
Gulf Coast	Oklahoma	Lincoln	13.469	13.479	0.010	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.010
Gulf Coast	Oklahoma	Lincoln	13.479	13.555	0.077	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.077
Gulf Coast	Oklahoma	Lincoln	13.555	13.791	0.235	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.235
Gulf Coast	Oklahoma	Lincoln	13.791	13.871	0.081	OK081	Teller loam, 3 to 5 percent slopes	0.081
Gulf Coast	Oklahoma	Lincoln	13.871	14.037	0.165	OK081	Lawrie silt loam, 0 to 1 percent slopes, rarely flooded	0.157
Gulf Coast	Oklahoma	Lincoln	14.037	14.103	0.067	OK081	Ashport, Port, and Pulaski soils, 0 to 1 percent slopes, frequently flooded	0.045
Gulf Coast	Oklahoma	Lincoln	14.103	14.349	0.246	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.098
Gulf Coast	Oklahoma	Lincoln	14.349	14.420	0.071	OK081	Stephenville fine sandy loam, 3 to 5 percent slopes	0.068
Gulf Coast	Oklahoma	Lincoln	14.420	14.484	0.063	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.063
Gulf Coast	Oklahoma	Lincoln	14.484	14.510	0.027	OK081	Stephenville fine sandy loam, 3 to 5 percent slopes	0.025
Gulf Coast	Oklahoma	Lincoln	14.510	14.598	0.088	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.035
Gulf Coast	Oklahoma	Lincoln	14.598	14.754	0.156	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.156
Gulf Coast	Oklahoma	Lincoln	14.754	14.905	0.151	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.060
Gulf Coast	Oklahoma	Lincoln	14.905	15.182	0.277	OK081	Stephenville fine sandy loam, 3 to 5 percent slopes	0.263
Gulf Coast	Oklahoma	Lincoln	15.182	15.283	0.101	OK081	Darsil-Stephenville complex, 5 to 12 percent slopes	0.040
Gulf Coast	Oklahoma	Lincoln	15.283	15.406	0.123	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.123
Gulf Coast	Oklahoma	Lincoln	15.406	15.456	0.051	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.051
Gulf Coast	Oklahoma	Lincoln	15.456	15.557	0.101	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.101

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Lincoln	15.557	15.608	0.050	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.050
Gulf Coast	Oklahoma	Lincoln	15.608	15.712	0.104	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.104
Gulf Coast	Oklahoma	Lincoln	15.712	15.804	0.092	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.092
Gulf Coast	Oklahoma	Lincoln	15.804	16.120	0.315	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.315
Gulf Coast	Oklahoma	Lincoln	16.120	16.202	0.082	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.082
Gulf Coast	Oklahoma	Lincoln	16.202	16.374	0.172	OK081	Seminole loam, 1 to 3 percent slopes	0.172
Gulf Coast	Oklahoma	Lincoln	16.374	16.424	0.051	OK081	Stephenville fine sandy loam, 1 to 3 percent slopes	0.048
Gulf Coast	Oklahoma	Lincoln	16.424	16.837	0.413	OK081	Seminole loam, 1 to 3 percent slopes	0.413
Gulf Coast	Oklahoma	Lincoln	16.837	16.868	0.030	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.030
Gulf Coast	Oklahoma	Lincoln	16.868	16.955	0.087	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.087
Gulf Coast	Oklahoma	Lincoln	16.955	17.039	0.084	OK081	Grainola-Ashport complex, 0 to 12 percent slopes	0.084
Gulf Coast	Oklahoma	Lincoln	17.039	17.068	0.029	OK081	Seminole loam, 3 to 5 percent slopes, eroded	0.029
Gulf Coast	Oklahoma	Lincoln	17.068	17.190	0.122	OK081	Coyle and Seminole soils, 3 to 5 percent slopes, severely eroded	0.122
Gulf Coast	Oklahoma	Lincoln	17.190	17.295	0.105	OK081	Seminole loam, 3 to 5 percent slopes	0.105
Gulf Coast	Oklahoma	Creek	17.295	17.870	0.575	OK037	Dennis and Okemah soils, 1 to 3 percent slopes	0.575
Gulf Coast	Oklahoma	Creek	17.870	17.940	0.070	OK037	Collinsville and Talihina soils, 5 to 12 percent slopes	0.028
Gulf Coast	Oklahoma	Creek	17.940	18.173	0.234	OK037	Coyle fine sandy loam, 3 to 5 percent slopes	0.222
Gulf Coast	Oklahoma	Creek	18.173	18.340	0.167	OK037	Coyle fine sandy loam, 1 to 3 percent slopes	0.155
Gulf Coast	Oklahoma	Creek	18.340	18.397	0.057	OK037	Oil waste land-Huska complex, 1 to 8 percent slopes	0.023
Gulf Coast	Oklahoma	Creek	18.397	18.410	0.012	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.006
Gulf Coast	Oklahoma	Creek	18.410	18.710	0.301	OK037	Konawa and Gasil soils, 1 to 3 percent slopes	0.301
Gulf Coast	Oklahoma	Creek	18.710	18.834	0.123	OK037	Konawa and Gasil soils, 3 to 5 percent slopes	0.123
Gulf Coast	Oklahoma	Creek	18.834	18.861	0.027	OK037	Konawa-Gullied land complex, 3 to 8 percent slopes	0.023
Gulf Coast	Oklahoma	Creek	18.861	18.903	0.043	OK037	Konawa and Gasil soils, 5 to 8 percent slopes	0.043
Gulf Coast	Oklahoma	Creek	18.903	18.952	0.048	OK037	Konawa-Gullied land complex, 3 to 8 percent slopes	0.041
Gulf Coast	Oklahoma	Creek	18.952	19.020	0.069	OK037	Stephenville-Darnell complex, 5 to 8 percent slopes, severely eroded	0.039
Gulf Coast	Oklahoma	Creek	19.020	19.105	0.084	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.038

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Creek	19.105	19.172	0.067	OK037	Stephenville-Darnell complex, 5 to 8 percent slopes	0.042
Gulf Coast	Oklahoma	Creek	19.172	19.369	0.197	OK037	Konawa and Gasil soils, 5 to 8 percent slopes	0.197
Gulf Coast	Oklahoma	Creek	19.369	19.551	0.182	OK037	Pulaski fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.009
Gulf Coast	Oklahoma	Creek	19.551	19.568	0.016	OK037	Darnell-Niotaze complex, 12 to 20 percent slopes	0.007
Gulf Coast	Oklahoma	Creek	19.568	19.592	0.025	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.011
Gulf Coast	Oklahoma	Creek	19.592	19.795	0.203	OK037	Stephenville-Darnell complex, 3 to 5 percent slopes	0.142
Gulf Coast	Oklahoma	Creek	19.795	19.858	0.062	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.028
Gulf Coast	Oklahoma	Creek	19.858	19.890	0.032	OK037	Stephenville-Darnell complex, 3 to 5 percent slopes	0.023
Gulf Coast	Oklahoma	Creek	19.890	19.968	0.078	OK037	Stephenville-Darnell complex, 5 to 8 percent slopes, severely eroded	0.044
Gulf Coast	Oklahoma	Creek	19.968	19.979	0.011	OK037	Pulaski fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.001
Gulf Coast	Oklahoma	Creek	19.979	20.029	0.049	OK037	Ashport silt loam, 0 to 1 percent slopes, frequently flooded	0.047
Gulf Coast	Oklahoma	Creek	20.029	20.197	0.169	OK037	Darnell-Niotaze complex, 12 to 20 percent slopes	0.076
Gulf Coast	Oklahoma	Creek	20.197	20.318	0.120	OK037	Collinsville and Talihina soils, 5 to 12 percent slopes	0.048
Gulf Coast	Oklahoma	Creek	20.318	20.384	0.066	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.030
Gulf Coast	Oklahoma	Creek	20.384	20.481	0.097	OK037	Stephenville-Darnell complex, 5 to 8 percent slopes	0.061
Gulf Coast	Oklahoma	Creek	20.481	20.722	0.241	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.108
Gulf Coast	Oklahoma	Creek	20.722	20.933	0.211	OK037	Darnell-Niotaze complex, 12 to 20 percent slopes	0.095
Gulf Coast	Oklahoma	Creek	20.933	21.000	0.067	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.030
Gulf Coast	Oklahoma	Creek	21.000	21.080	0.081	OK037	Darnell-Niotaze complex, 12 to 20 percent slopes	0.036
Gulf Coast	Oklahoma	Creek	21.080	21.235	0.155	OK037	Darnell-Niotaze complex, 5 to 12 percent slopes	0.070
Gulf Coast	Oklahoma	Creek	21.235	21.255	0.020	OK037	Darnell-Niotaze complex, 12 to 20 percent slopes	0.009
Gulf Coast	Oklahoma	Creek	21.255	21.323	0.067	OK037	Dougherty and Stidham soils, 3 to 8 percent slopes	0.067
Gulf Coast	Oklahoma	Creek	21.323	21.333	0.011	OK037	Ustibuck clay, 0 to 1 percent slopes, frequently flooded	0.011
Gulf Coast	Oklahoma	Creek	21.333	21.451	0.117	OK037	Port fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.110
Gulf Coast	Oklahoma	Creek	21.451	21.488	0.037	OK037	Ustibuck clay, 0 to 1 percent slopes, frequently flooded	0.037
Gulf Coast	Oklahoma	Creek	21.488	21.581	0.093	OK037	Konawa-Gullied land complex, 3 to 8 percent slopes	0.079
Gulf Coast	Oklahoma	Creek	21.581	21.648	0.067	OK037	Konawa and Gasil soils, 5 to 8 percent slopes	0.067

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Creek	21.648	21.680	0.032	OK037	Ustibuck clay, 0 to 1 percent slopes, frequently flooded	0.032
Gulf Coast	Oklahoma	Creek	21.680	21.697	0.017	OK037	Konawa and Gasil soils, 5 to 8 percent slopes	0.017
Gulf Coast	Oklahoma	Creek	21.697	21.914	0.217	OK037	Eufaula loamy fine sand, 0 to 3 percent slopes	0.026
Gulf Coast	Oklahoma	Creek	21.914	22.136	0.222	OK037	Ustibuck clay, 0 to 1 percent slopes, frequently flooded	0.222
Gulf Coast	Oklahoma	Creek	22.165	23.021	0.856	OK037	Ustibuck clay, 0 to 1 percent slopes, frequently flooded	0.856
Gulf Coast	Oklahoma	Creek	23.021	23.047	0.026	OK037	Konawa-Gullied land complex, 3 to 8 percent slopes	0.022
Gulf Coast	Oklahoma	Okfuskee	23.047	23.094	0.048	OK107	Teller fine sandy loam, 1 to 3 percent slopes	0.048
Gulf Coast	Oklahoma	Okfuskee	23.094	23.463	0.369	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.206
Gulf Coast	Oklahoma	Okfuskee	23.463	23.479	0.016	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.005
Gulf Coast	Oklahoma	Okfuskee	23.479	24.652	1.174	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.059
Gulf Coast	Oklahoma	Okfuskee	24.652	24.813	0.161	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.056
Gulf Coast	Oklahoma	Okfuskee	24.813	24.973	0.160	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.089
Gulf Coast	Oklahoma	Okfuskee	24.973	25.111	0.138	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.048
Gulf Coast	Oklahoma	Okfuskee	25.111	25.219	0.108	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.061
Gulf Coast	Oklahoma	Okfuskee	25.219	25.353	0.134	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.047
Gulf Coast	Oklahoma	Okfuskee	25.353	25.415	0.062	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.003
Gulf Coast	Oklahoma	Okfuskee	25.415	25.531	0.116	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.041
Gulf Coast	Oklahoma	Okfuskee	25.531	25.554	0.023	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.013
Gulf Coast	Oklahoma	Okfuskee	25.554	25.823	0.269	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.094
Gulf Coast	Oklahoma	Okfuskee	25.823	26.333	0.510	OK107	Renfrow silt loam, 3 to 5 percent slopes	0.494
Gulf Coast	Oklahoma	Okfuskee	26.333	26.447	0.114	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.040
Gulf Coast	Oklahoma	Okfuskee	26.447	26.835	0.388	OK107	Darsil-Stephenville complex, 3 to 5 percent slopes	0.174
Gulf Coast	Oklahoma	Okfuskee	26.835	26.881	0.046	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.016
Gulf Coast	Oklahoma	Okfuskee	26.881	27.501	0.620	OK107	Darsil-Stephenville complex, 3 to 5 percent slopes	0.279
Gulf Coast	Oklahoma	Okfuskee	27.501	27.518	0.017	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.009
Gulf Coast	Oklahoma	Okfuskee	27.518	27.544	0.026	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.009
Gulf Coast	Oklahoma	Okfuskee	27.544	27.781	0.237	OK107	Darsil-Stephenville complex, 3 to 5 percent slopes	0.107
Gulf Coast	Oklahoma	Okfuskee	27.781	28.026	0.245	OK107	Masham silty clay loam, 3 to 8 percent slopes	0.221

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Okfuskee	28.026	28.276	0.250	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.140
Gulf Coast	Oklahoma	Okfuskee	28.276	28.467	0.191	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.010
Gulf Coast	Oklahoma	Okfuskee	28.467	28.529	0.062	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.022
Gulf Coast	Oklahoma	Okfuskee	28.529	28.620	0.091	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.051
Gulf Coast	Oklahoma	Okfuskee	28.620	28.671	0.051	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.018
Gulf Coast	Oklahoma	Okfuskee	28.671	28.805	0.134	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.007
Gulf Coast	Oklahoma	Okfuskee	28.805	28.868	0.062	OK107	Stephenville-Darsil-Newalla complex, 3 to 5 percent slopes	0.044
Gulf Coast	Oklahoma	Okfuskee	28.868	28.933	0.066	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.023
Gulf Coast	Oklahoma	Okfuskee	28.933	29.149	0.215	OK107	Stephenville-Darsil-Newalla complex, 3 to 5 percent slopes	0.151
Gulf Coast	Oklahoma	Okfuskee	29.149	29.496	0.348	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.122
Gulf Coast	Oklahoma	Okfuskee	29.496	29.749	0.253	OK107	Stephenville-Darsil-Newalla complex, 3 to 5 percent slopes	0.177
Gulf Coast	Oklahoma	Okfuskee	29.749	29.956	0.207	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.072
Gulf Coast	Oklahoma	Okfuskee	29.956	30.001	0.044	OK107	Stephenville-Darsil-Newalla complex, 3 to 5 percent slopes	0.031
Gulf Coast	Oklahoma	Okfuskee	30.001	30.145	0.144	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.050
Gulf Coast	Oklahoma	Okfuskee	30.145	30.271	0.127	OK107	Stephenville-Darsil-Newalla complex, 3 to 5 percent slopes	0.089
Gulf Coast	Oklahoma	Okfuskee	30.271	30.332	0.060	OK107	Teller fine sandy loam, 1 to 3 percent slopes	0.060
Gulf Coast	Oklahoma	Okfuskee	30.332	30.482	0.150	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.007
Gulf Coast	Oklahoma	Okfuskee	30.482	30.550	0.068	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.038
Gulf Coast	Oklahoma	Okfuskee	30.550	30.750	0.200	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.010
Gulf Coast	Oklahoma	Okfuskee	30.750	31.620	0.870	OK107	Darsil-Stephenville complex, 3 to 5 percent slopes	0.392
Gulf Coast	Oklahoma	Okfuskee	31.620	32.600	0.980	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.549
Gulf Coast	Oklahoma	Okfuskee	32.600	32.695	0.094	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.005
Gulf Coast	Oklahoma	Okfuskee	32.695	32.881	0.187	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.105
Gulf Coast	Oklahoma	Okfuskee	32.881	32.997	0.115	OK107	Masham silty clay loam, 3 to 8 percent slopes	0.104
Gulf Coast	Oklahoma	Okfuskee	32.997	33.057	0.060	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.021
Gulf Coast	Oklahoma	Okfuskee	33.057	33.346	0.290	OK107	Chickasha loam, 1 to 3 percent slopes	0.290
Gulf Coast	Oklahoma	Okfuskee	33.346	33.506	0.160	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.056
Gulf Coast	Oklahoma	Okfuskee	33.506	33.606	0.100	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.005

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Okfuskee	33.606	33.693	0.087	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.031
Gulf Coast	Oklahoma	Okfuskee	33.693	33.750	0.057	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.032
Gulf Coast	Oklahoma	Okfuskee	33.750	33.883	0.132	OK107	Darsil-Stephenville complex, 3 to 5 percent slopes	0.060
Gulf Coast	Oklahoma	Okfuskee	33.883	34.041	0.159	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.089
Gulf Coast	Oklahoma	Okfuskee	34.041	34.351	0.310	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.108
Gulf Coast	Oklahoma	Okfuskee	34.351	34.983	0.632	OK107	Stephenville-Darsil-Gullied land complex, 3 to 8 percent slopes	0.354
Gulf Coast	Oklahoma	Okfuskee	34.983	35.323	0.340	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.119
Gulf Coast	Oklahoma	Okfuskee	35.323	35.346	0.023	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.001
Gulf Coast	Oklahoma	Okfuskee	35.346	35.941	0.595	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.208
Gulf Coast	Oklahoma	Okfuskee	35.941	36.268	0.327	OK107	Renfrow silt loam, 3 to 5 percent slopes	0.317
Gulf Coast	Oklahoma	Okfuskee	36.268	36.335	0.066	OK107	Galey fine sandy loam, 3 to 5 percent slopes	0.066
Gulf Coast	Oklahoma	Okfuskee	36.335	36.468	0.134	OK107	Navina loam, 1 to 3 percent slopes	0.134
Gulf Coast	Oklahoma	Okfuskee	36.468	36.667	0.199	OK107	Galey fine sandy loam, 3 to 5 percent slopes	0.199
Gulf Coast	Oklahoma	Okfuskee	36.667	36.901	0.234	OK107	Navina loam, 1 to 3 percent slopes	0.234
Gulf Coast	Oklahoma	Okfuskee	36.901	36.974	0.073	OK107	Galey fine sandy loam, 3 to 5 percent slopes	0.073
Gulf Coast	Oklahoma	Okfuskee	36.974	37.419	0.446	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.156
Gulf Coast	Oklahoma	Okfuskee	37.419	37.513	0.094	OK107	Konawa-Gullied land complex, 3 to 12 percent slopes	0.069
Gulf Coast	Oklahoma	Okfuskee	37.513	37.582	0.069	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.024
Gulf Coast	Oklahoma	Okfuskee	37.582	38.068	0.486	OK107	Eufaula loamy fine sand, 0 to 3 percent slopes	0.058
Gulf Coast	Oklahoma	Okfuskee	38.068	38.195	0.127	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.044
Gulf Coast	Oklahoma	Okfuskee	38.195	38.220	0.025	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.001
Gulf Coast	Oklahoma	Okfuskee	38.220	38.242	0.022	OK107	Darsil-Stephenville complex, 5 to 12 percent slopes	0.008
Gulf Coast	Oklahoma	Okfuskee	38.242	38.567	0.325	OK107	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.016
Gulf Coast	Oklahoma	Seminole	38.588	38.640	0.052	OK133	Gracemore loamy fine sand, 0 to 1 percent slopes, frequently flooded	0.003
Gulf Coast	Oklahoma	Seminole	38.640	38.673	0.033	OK133	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.005
Gulf Coast	Oklahoma	Seminole	38.673	38.786	0.113	OK133	Keokuk silt loam, 0 to 1 percent slopes, rarely flooded	0.006
Gulf Coast	Oklahoma	Seminole	38.786	39.036	0.250	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.145

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	39.036	39.086	0.050	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.047
Gulf Coast	Oklahoma	Seminole	39.086	39.089	0.003	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.002
Gulf Coast	Oklahoma	Seminole	39.089	39.171	0.083	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.078
Gulf Coast	Oklahoma	Seminole	39.171	39.179	0.008	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.005
Gulf Coast	Oklahoma	Seminole	39.179	39.252	0.073	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.070
Gulf Coast	Oklahoma	Seminole	39.252	39.284	0.032	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.019
Gulf Coast	Oklahoma	Seminole	39.284	39.416	0.132	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.079
Gulf Coast	Oklahoma	Seminole	39.416	39.519	0.103	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.059
Gulf Coast	Oklahoma	Seminole	39.519	39.552	0.033	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.033
Gulf Coast	Oklahoma	Seminole	39.552	39.594	0.042	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.024
Gulf Coast	Oklahoma	Seminole	39.594	39.662	0.068	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.068
Gulf Coast	Oklahoma	Seminole	39.662	39.726	0.064	OK133	Konawa fine sandy loam, 1 to 3 percent slopes	0.064
Gulf Coast	Oklahoma	Seminole	39.726	39.818	0.091	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.091
Gulf Coast	Oklahoma	Seminole	39.818	39.871	0.053	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.053
Gulf Coast	Oklahoma	Seminole	39.871	39.929	0.058	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.058
Gulf Coast	Oklahoma	Seminole	39.929	39.989	0.060	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.060
Gulf Coast	Oklahoma	Seminole	39.989	40.115	0.126	OK133	Seminole, Chickasha, and Mulhall soils, 3 to 8 percent slopes, severely eroded	0.120
Gulf Coast	Oklahoma	Seminole	40.115	40.190	0.075	OK133	Dennis loam, 3 to 5 percent slopes	0.075
Gulf Coast	Oklahoma	Seminole	40.190	40.281	0.090	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.090
Gulf Coast	Oklahoma	Seminole	40.281	40.391	0.111	OK133	Seminole, Chickasha, and Mulhall soils, 3 to 8 percent slopes, severely eroded	0.105
Gulf Coast	Oklahoma	Seminole	40.391	40.428	0.037	OK133	Dennis loam, 3 to 5 percent slopes	0.037
Gulf Coast	Oklahoma	Seminole	40.428	40.459	0.031	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.018
Gulf Coast	Oklahoma	Seminole	40.459	40.645	0.186	OK133	Konawa fine sandy loam, 3 to 5 percent slopes, eroded	0.186
Gulf Coast	Oklahoma	Seminole	40.645	40.675	0.030	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.030
Gulf Coast	Oklahoma	Seminole	40.724	40.754	0.030	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.030
Gulf Coast	Oklahoma	Seminole	40.759	40.839	0.081	OK133	Niotaze-Wewoka complex, 3 to 12 percent slopes	0.047

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	40.839	40.917	0.078	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.078
Gulf Coast	Oklahoma	Seminole	40.917	40.972	0.054	OK133	Dennis loam, 3 to 5 percent slopes	0.054
Gulf Coast	Oklahoma	Seminole	40.972	41.036	0.065	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.058
Gulf Coast	Oklahoma	Seminole	41.036	41.122	0.086	OK133	Okemah silt loam, 1 to 3 percent slopes	0.086
Gulf Coast	Oklahoma	Seminole	41.122	41.320	0.198	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.198
Gulf Coast	Oklahoma	Seminole	41.320	41.381	0.061	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.055
Gulf Coast	Oklahoma	Seminole	41.381	41.484	0.103	OK133	Okemah silt loam, 1 to 3 percent slopes	0.103
Gulf Coast	Oklahoma	Seminole	41.484	41.541	0.057	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.057
Gulf Coast	Oklahoma	Seminole	41.541	41.702	0.161	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.153
Gulf Coast	Oklahoma	Seminole	41.702	41.730	0.028	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.025
Gulf Coast	Oklahoma	Seminole	41.730	41.786	0.056	OK133	Seminole, Chickasha, and Mulhall soils, 3 to 8 percent slopes, severely eroded	0.053
Gulf Coast	Oklahoma	Seminole	41.786	41.986	0.200	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.180
Gulf Coast	Oklahoma	Seminole	41.986	42.193	0.207	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.207
Gulf Coast	Oklahoma	Seminole	42.193	42.257	0.064	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.064
Gulf Coast	Oklahoma	Seminole	42.257	42.310	0.053	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.053
Gulf Coast	Oklahoma	Seminole	42.310	42.334	0.024	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.022
Gulf Coast	Oklahoma	Seminole	42.334	42.391	0.056	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.031
Gulf Coast	Oklahoma	Seminole	42.391	42.533	0.142	OK133	Eram-Coweta complex, 5 to 12 percent slopes	0.142
Gulf Coast	Oklahoma	Seminole	42.533	42.677	0.144	OK133	Dennis loam, 3 to 5 percent slopes	0.144
Gulf Coast	Oklahoma	Seminole	42.677	42.725	0.048	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.046
Gulf Coast	Oklahoma	Seminole	42.725	42.808	0.083	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.083
Gulf Coast	Oklahoma	Seminole	42.808	42.886	0.078	OK133	Stephenville fine sandy loam, 1 to 3 percent slopes	0.074
Gulf Coast	Oklahoma	Seminole	42.886	43.064	0.178	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.169
Gulf Coast	Oklahoma	Seminole	43.064	43.106	0.042	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.042
Gulf Coast	Oklahoma	Seminole	43.106	43.203	0.097	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.097
Gulf Coast	Oklahoma	Seminole	43.203	43.283	0.080	OK133	Konawa fine sandy loam, 3 to 5 percent slopes, eroded	0.080
Gulf Coast	Oklahoma	Seminole	43.283	43.358	0.075	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.075

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	43.358	43.499	0.141	OK133	Pulaski fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.014
Gulf Coast	Oklahoma	Seminole	43.518	43.537	0.019	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.019
Gulf Coast	Oklahoma	Seminole	43.537	43.577	0.040	OK133	Pulaski fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.004
Gulf Coast	Oklahoma	Seminole	43.577	43.888	0.311	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.186
Gulf Coast	Oklahoma	Seminole	43.888	43.976	0.089	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes, severely eroded	0.080
Gulf Coast	Oklahoma	Seminole	43.976	44.063	0.087	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.052
Gulf Coast	Oklahoma	Seminole	44.063	44.316	0.253	OK133	Stephenville fine sandy loam, 1 to 3 percent slopes	0.240
Gulf Coast	Oklahoma	Seminole	44.316	44.559	0.243	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes, severely eroded	0.219
Gulf Coast	Oklahoma	Seminole	44.559	44.563	0.004	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.002
Gulf Coast	Oklahoma	Seminole	44.563	44.601	0.038	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes, severely eroded	0.034
Gulf Coast	Oklahoma	Seminole	44.601	44.726	0.125	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.125
Gulf Coast	Oklahoma	Seminole	44.726	45.000	0.275	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.165
Gulf Coast	Oklahoma	Seminole	45.000	45.213	0.212	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes, severely eroded	0.191
Gulf Coast	Oklahoma	Seminole	45.213	45.371	0.159	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.095
Gulf Coast	Oklahoma	Seminole	45.371	45.772	0.400	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes, severely eroded	0.360
Gulf Coast	Oklahoma	Seminole	45.772	46.090	0.318	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.191
Gulf Coast	Oklahoma	Seminole	46.090	46.118	0.028	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.025
Gulf Coast	Oklahoma	Seminole	46.142	46.142	0.000	OK133	Eram-Coweta complex, 5 to 12 percent slopes	0.000
Gulf Coast	Oklahoma	Seminole	46.142	46.286	0.144	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.129
Gulf Coast	Oklahoma	Seminole	46.286	46.364	0.078	OK133	Prue loam, 1 to 3 percent slopes	0.078
Gulf Coast	Oklahoma	Seminole	46.364	46.445	0.082	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.082
Gulf Coast	Oklahoma	Seminole	46.445	46.494	0.049	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.044
Gulf Coast	Oklahoma	Seminole	46.494	46.634	0.139	OK133	Prue loam, 1 to 3 percent slopes	0.139

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	46.634	46.736	0.102	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.092
Gulf Coast	Oklahoma	Seminole	46.736	46.769	0.033	OK133	Prue loam, 1 to 3 percent slopes	0.033
Gulf Coast	Oklahoma	Seminole	46.769	46.851	0.082	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.074
Gulf Coast	Oklahoma	Seminole	46.851	46.934	0.083	OK133	Bates-Coweta complex, 3 to 5 percent slopes	0.083
Gulf Coast	Oklahoma	Seminole	46.934	47.012	0.077	OK133	Bates loam, 1 to 3 percent slopes	0.077
Gulf Coast	Oklahoma	Seminole	47.012	47.249	0.238	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.238
Gulf Coast	Oklahoma	Seminole	47.249	47.280	0.030	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.027
Gulf Coast	Oklahoma	Seminole	47.280	47.300	0.020	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.020
Gulf Coast	Oklahoma	Seminole	47.300	47.358	0.058	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.052
Gulf Coast	Oklahoma	Seminole	47.358	47.459	0.101	OK133	Bates loam, 3 to 5 percent slopes	0.101
Gulf Coast	Oklahoma	Seminole	47.459	47.524	0.065	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.065
Gulf Coast	Oklahoma	Seminole	47.524	47.606	0.082	OK133	Bates loam, 3 to 5 percent slopes	0.082
Gulf Coast	Oklahoma	Seminole	47.606	47.726	0.120	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.114
Gulf Coast	Oklahoma	Seminole	47.726	47.807	0.080	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.048
Gulf Coast	Oklahoma	Seminole	47.807	47.834	0.027	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.015
Gulf Coast	Oklahoma	Seminole	47.834	47.865	0.031	OK133	Konawa fine sandy loam, 3 to 5 percent slopes	0.031
Gulf Coast	Oklahoma	Seminole	47.865	47.964	0.099	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.099
Gulf Coast	Oklahoma	Seminole	47.964	48.110	0.145	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.145
Gulf Coast	Oklahoma	Seminole	48.110	48.231	0.121	OK133	Seminole, Chickasha, and Mulhall soils, 3 to 8 percent slopes, severely eroded	0.115
Gulf Coast	Oklahoma	Seminole	48.231	48.461	0.230	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.127
Gulf Coast	Oklahoma	Seminole	48.461	48.647	0.186	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.112
Gulf Coast	Oklahoma	Seminole	48.647	48.705	0.057	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.032
Gulf Coast	Oklahoma	Seminole	48.705	48.744	0.039	OK133	Eram-Coweta complex, 5 to 12 percent slopes	0.039
Gulf Coast	Oklahoma	Seminole	48.744	48.795	0.051	OK133	Seminole, Chickasha, and Mulhall soils, 3 to 8 percent slopes, severely eroded	0.048
Gulf Coast	Oklahoma	Seminole	48.795	48.851	0.056	OK133	Bates loam, 1 to 3 percent slopes	0.056
Gulf Coast	Oklahoma	Seminole	48.851	48.909	0.058	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.035

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	48.909	49.018	0.110	OK133	Bates loam, 3 to 5 percent slopes	0.110
Gulf Coast	Oklahoma	Seminole	49.018	49.100	0.082	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.073
Gulf Coast	Oklahoma	Seminole	49.100	49.150	0.050	OK133	Eram-Coweta complex, 5 to 12 percent slopes	0.050
Gulf Coast	Oklahoma	Seminole	49.150	49.210	0.060	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.060
Gulf Coast	Oklahoma	Seminole	49.210	49.237	0.026	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.026
Gulf Coast	Oklahoma	Seminole	49.237	49.266	0.029	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.029
Gulf Coast	Oklahoma	Seminole	49.266	49.320	0.053	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.053
Gulf Coast	Oklahoma	Seminole	49.320	49.338	0.019	OK133	Okemah silt loam, 1 to 3 percent slopes	0.019
Gulf Coast	Oklahoma	Seminole	49.338	49.486	0.148	OK133	Eram-Coweta complex, 5 to 12 percent slopes	0.148
Gulf Coast	Oklahoma	Seminole	49.486	49.491	0.005	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.003
Gulf Coast	Oklahoma	Seminole	49.491	49.647	0.156	OK133	Prue loam, 3 to 5 percent slopes	0.156
Gulf Coast	Oklahoma	Seminole	49.647	49.776	0.129	OK133	Prue loam, 1 to 3 percent slopes	0.129
Gulf Coast	Oklahoma	Seminole	49.776	49.877	0.101	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.101
Gulf Coast	Oklahoma	Seminole	49.877	49.904	0.027	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.025
Gulf Coast	Oklahoma	Seminole	49.904	49.971	0.066	OK133	Bates loam, 3 to 5 percent slopes	0.066
Gulf Coast	Oklahoma	Seminole	49.971	50.028	0.057	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.052
Gulf Coast	Oklahoma	Seminole	50.028	50.045	0.017	OK133	Okemah silt loam, 1 to 3 percent slopes	0.017
Gulf Coast	Oklahoma	Seminole	50.045	50.104	0.059	OK133	Gowton fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.059
Gulf Coast	Oklahoma	Seminole	50.104	50.149	0.044	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.024
Gulf Coast	Oklahoma	Seminole	50.149	50.212	0.063	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.038
Gulf Coast	Oklahoma	Seminole	50.212	50.218	0.007	OK133	Bates loam, 3 to 5 percent slopes	0.007
Gulf Coast	Oklahoma	Seminole	50.218	50.600	0.382	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.382
Gulf Coast	Oklahoma	Seminole	50.600	50.797	0.198	OK133	Okemah silt loam, 0 to 1 percent slopes	0.198
Gulf Coast	Oklahoma	Seminole	50.797	51.145	0.348	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.348
Gulf Coast	Oklahoma	Seminole	51.145	51.447	0.302	OK133	Okemah silt loam, 0 to 1 percent slopes	0.302
Gulf Coast	Oklahoma	Seminole	51.447	51.474	0.026	OK133	Okemah silt loam, 1 to 3 percent slopes	0.026
Gulf Coast	Oklahoma	Seminole	51.474	51.957	0.483	OK133	Dennis loam, 3 to 5 percent slopes	0.483
Gulf Coast	Oklahoma	Seminole	51.957	52.161	0.204	OK133	Okemah silt loam, 1 to 3 percent slopes	0.204

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	52.161	52.404	0.243	OK133	Dennis loam, 3 to 5 percent slopes	0.243
Gulf Coast	Oklahoma	Seminole	52.404	52.879	0.475	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.427
Gulf Coast	Oklahoma	Seminole	52.879	52.905	0.026	OK133	Grainola and Aydelotte soils, 3 to 8 percent slopes, severely eroded	0.024
Gulf Coast	Oklahoma	Seminole	52.905	53.280	0.375	OK133	Okemah silt loam, 1 to 3 percent slopes	0.375
Gulf Coast	Oklahoma	Seminole	53.280	53.319	0.039	OK133	Bates loam, 1 to 3 percent slopes	0.039
Gulf Coast	Oklahoma	Seminole	53.319	53.357	0.038	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.034
Gulf Coast	Oklahoma	Seminole	53.357	53.358	0.000	OK133	Okemah silt loam, 1 to 3 percent slopes	0.000
Gulf Coast	Oklahoma	Seminole	53.358	53.450	0.092	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.083
Gulf Coast	Oklahoma	Seminole	53.450	53.482	0.032	OK133	Bates loam, 3 to 5 percent slopes	0.032
Gulf Coast	Oklahoma	Seminole	53.482	53.522	0.040	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.036
Gulf Coast	Oklahoma	Seminole	53.522	53.592	0.071	OK133	Bates loam, 3 to 5 percent slopes	0.071
Gulf Coast	Oklahoma	Seminole	53.592	53.694	0.101	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.091
Gulf Coast	Oklahoma	Seminole	53.694	53.927	0.233	OK133	Okemah silt loam, 1 to 3 percent slopes	0.233
Gulf Coast	Oklahoma	Seminole	53.927	54.022	0.095	OK133	Dennis loam, 3 to 5 percent slopes	0.095
Gulf Coast	Oklahoma	Seminole	54.022	54.161	0.139	OK133	Okemah silt loam, 1 to 3 percent slopes	0.139
Gulf Coast	Oklahoma	Seminole	54.161	54.364	0.203	OK133	Bates loam, 1 to 3 percent slopes	0.203
Gulf Coast	Oklahoma	Seminole	54.364	54.472	0.109	OK133	Dennis loam, 3 to 5 percent slopes	0.109
Gulf Coast	Oklahoma	Seminole	54.472	54.654	0.181	OK133	Bates loam, 1 to 3 percent slopes	0.181
Gulf Coast	Oklahoma	Seminole	54.654	54.702	0.049	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.044
Gulf Coast	Oklahoma	Seminole	54.702	54.735	0.032	OK133	Bates loam, 3 to 5 percent slopes	0.032
Gulf Coast	Oklahoma	Seminole	54.735	54.736	0.001	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.001
Gulf Coast	Oklahoma	Seminole	54.736	54.814	0.078	OK133	Bates loam, 3 to 5 percent slopes	0.078
Gulf Coast	Oklahoma	Seminole	54.814	54.999	0.185	OK133	Bates loam, 1 to 3 percent slopes	0.185
Gulf Coast	Oklahoma	Seminole	54.999	55.079	0.079	OK133	Seminole, Chickasha, and Mulhall soils, 3 to 8 percent slopes, severely eroded	0.075
Gulf Coast	Oklahoma	Seminole	55.079	55.347	0.268	OK133	Bates loam, 1 to 3 percent slopes	0.268
Gulf Coast	Oklahoma	Seminole	55.347	55.436	0.089	OK133	Bates-Coweta complex, 3 to 5 percent slopes	0.089

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Seminole	55.436	55.635	0.199	OK133	Eram-Coweta complex, 5 to 12 percent slopes	0.199
Gulf Coast	Oklahoma	Seminole	55.635	55.888	0.253	OK133	Prue loam, 3 to 5 percent slopes	0.253
Gulf Coast	Oklahoma	Seminole	55.888	55.935	0.047	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.047
Gulf Coast	Oklahoma	Seminole	55.935	56.130	0.196	OK133	Okemah silt loam, 1 to 3 percent slopes	0.196
Gulf Coast	Oklahoma	Seminole	56.130	56.207	0.077	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.077
Gulf Coast	Oklahoma	Seminole	56.207	56.265	0.058	OK133	Seminole-Gowton complex, 0 to 12 percent slopes	0.052
Gulf Coast	Oklahoma	Seminole	56.265	56.486	0.220	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.220
Gulf Coast	Oklahoma	Seminole	56.486	56.688	0.202	OK133	Bates-Coweta complex, 3 to 5 percent slopes	0.202
Gulf Coast	Oklahoma	Seminole	56.688	56.732	0.044	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.044
Gulf Coast	Oklahoma	Seminole	56.732	56.736	0.005	OK133	Bates-Coweta complex, 3 to 5 percent slopes	0.005
Gulf Coast	Oklahoma	Seminole	56.736	56.830	0.094	OK133	Okemah-Pharoah complex, 0 to 3 percent slopes	0.094
Gulf Coast	Oklahoma	Seminole	56.830	57.021	0.191	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.181
Gulf Coast	Oklahoma	Seminole	57.021	57.117	0.096	OK133	Stephenville fine sandy loam, 1 to 3 percent slopes	0.091
Gulf Coast	Oklahoma	Seminole	57.117	57.503	0.385	OK133	Stephenville fine sandy loam, 3 to 5 percent slopes	0.366
Gulf Coast	Oklahoma	Seminole	57.503	57.572	0.069	OK133	Stephenville fine sandy loam, 1 to 3 percent slopes	0.066
Gulf Coast	Oklahoma	Seminole	57.572	57.813	0.242	OK133	Stephenville-Darnell complex, 5 to 15 percent slopes	0.145
Gulf Coast	Oklahoma	Seminole	57.813	57.859	0.046	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.025
Gulf Coast	Oklahoma	Seminole	57.859	58.015	0.156	OK133	Konawa fine sandy loam, 3 to 8 percent slopes, gullied	0.156
Gulf Coast	Oklahoma	Seminole	58.135	58.480	0.345	OK133	Ustibuck clay, 0 to 1 percent slopes, occasionally flooded	0.345
Gulf Coast	Oklahoma	Seminole	58.480	58.536	0.055	OK133	Pulaski fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.006
Gulf Coast	Oklahoma	Seminole	58.536	58.577	0.041	OK133	Ustibuck clay, 0 to 1 percent slopes, occasionally flooded	0.041
Gulf Coast	Oklahoma	Seminole	58.577	58.724	0.147	OK133	Pulaski fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.015
Gulf Coast	Oklahoma	Seminole	58.724	58.880	0.156	OK133	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.156
Gulf Coast	Oklahoma	Seminole	58.880	58.917	0.037	OK133	Niotaze-Darnell complex, 8 to 30 percent slopes	0.020
Gulf Coast	Oklahoma	Seminole	58.917	58.994	0.077	OK133	Bates loam, 3 to 5 percent slopes	0.077
Gulf Coast	Oklahoma	Hughes	58.994	59.075	0.081	OK063	Bates fine sandy loam, 3 to 5 percent slopes	0.081
Gulf Coast	Oklahoma	Hughes	59.075	59.241	0.167	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.167
Gulf Coast	Oklahoma	Hughes	59.241	59.377	0.136	OK063	Dennis loam, 1 to 3 percent slopes	0.136

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	59.377	59.485	0.108	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.083
Gulf Coast	Oklahoma	Hughes	59.485	59.551	0.066	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.026
Gulf Coast	Oklahoma	Hughes	59.551	59.668	0.117	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.117
Gulf Coast	Oklahoma	Hughes	59.668	59.707	0.039	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.016
Gulf Coast	Oklahoma	Hughes	59.707	59.758	0.051	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.051
Gulf Coast	Oklahoma	Hughes	59.758	59.780	0.022	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.009
Gulf Coast	Oklahoma	Hughes	59.780	60.462	0.682	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.682
Gulf Coast	Oklahoma	Hughes	60.462	60.483	0.022	OK063	Kamie fine sandy loam, 1 to 3 percent slopes	0.022
Gulf Coast	Oklahoma	Hughes	60.483	60.560	0.077	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.077
Gulf Coast	Oklahoma	Hughes	60.560	60.619	0.059	OK063	Kamie fine sandy loam, 1 to 3 percent slopes	0.059
Gulf Coast	Oklahoma	Hughes	60.619	60.845	0.226	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.226
Gulf Coast	Oklahoma	Hughes	60.845	61.198	0.353	OK063	Dennis loam, 3 to 5 percent slopes	0.353
Gulf Coast	Oklahoma	Hughes	61.198	61.232	0.034	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.034
Gulf Coast	Oklahoma	Hughes	61.232	61.397	0.165	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.116
Gulf Coast	Oklahoma	Hughes	61.397	61.624	0.226	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.091
Gulf Coast	Oklahoma	Hughes	61.624	61.677	0.054	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.038
Gulf Coast	Oklahoma	Hughes	61.677	61.708	0.030	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.012
Gulf Coast	Oklahoma	Hughes	61.708	61.772	0.064	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.045
Gulf Coast	Oklahoma	Hughes	61.772	62.039	0.267	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.107
Gulf Coast	Oklahoma	Hughes	62.039	62.084	0.046	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.032
Gulf Coast	Oklahoma	Hughes	62.084	62.147	0.063	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.048
Gulf Coast	Oklahoma	Hughes	62.147	62.179	0.032	OK063	Dennis loam, 3 to 5 percent slopes	0.032
Gulf Coast	Oklahoma	Hughes	62.179	62.314	0.135	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.135
Gulf Coast	Oklahoma	Hughes	62.314	62.361	0.047	OK063	Dennis loam, 3 to 5 percent slopes	0.047
Gulf Coast	Oklahoma	Hughes	62.361	62.563	0.203	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.142
Gulf Coast	Oklahoma	Hughes	62.563	62.595	0.032	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.032
Gulf Coast	Oklahoma	Hughes	62.595	62.744	0.149	OK063	Bates fine sandy loam, 3 to 5 percent slopes	0.149
Gulf Coast	Oklahoma	Hughes	62.744	62.929	0.185	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.185

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	62.929	63.040	0.111	OK063	Dennis loam, 3 to 5 percent slopes, eroded	0.111
Gulf Coast	Oklahoma	Hughes	63.040	63.124	0.084	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.084
Gulf Coast	Oklahoma	Hughes	63.124	63.148	0.024	OK063	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.024
Gulf Coast	Oklahoma	Hughes	63.148	63.312	0.164	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.164
Gulf Coast	Oklahoma	Hughes	63.312	63.463	0.151	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.106
Gulf Coast	Oklahoma	Hughes	63.463	63.530	0.067	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.067
Gulf Coast	Oklahoma	Hughes	63.530	63.682	0.153	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.061
Gulf Coast	Oklahoma	Hughes	63.682	63.718	0.036	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.025
Gulf Coast	Oklahoma	Hughes	63.718	64.081	0.363	OK063	Dennis loam, 3 to 5 percent slopes	0.363
Gulf Coast	Oklahoma	Hughes	64.081	64.117	0.036	OK063	Dennis loam, 1 to 3 percent slopes	0.036
Gulf Coast	Oklahoma	Hughes	64.117	64.201	0.084	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.084
Gulf Coast	Oklahoma	Hughes	64.201	64.319	0.118	OK063	Dennis loam, 3 to 5 percent slopes	0.118
Gulf Coast	Oklahoma	Hughes	64.319	64.386	0.067	OK063	Okemah-Pharoah complex, 1 to 3 percent slopes	0.067
Gulf Coast	Oklahoma	Hughes	64.386	64.630	0.243	OK063	Dennis loam, 1 to 3 percent slopes	0.243
Gulf Coast	Oklahoma	Hughes	64.630	64.772	0.143	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.100
Gulf Coast	Oklahoma	Hughes	64.772	64.870	0.098	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.039
Gulf Coast	Oklahoma	Hughes	64.870	64.911	0.041	OK063	Dennis loam, 1 to 3 percent slopes	0.041
Gulf Coast	Oklahoma	Hughes	64.911	64.966	0.055	OK063	Dennis loam, 3 to 5 percent slopes, eroded	0.055
Gulf Coast	Oklahoma	Hughes	64.966	65.080	0.114	OK063	Dennis loam, 1 to 3 percent slopes	0.114
Gulf Coast	Oklahoma	Hughes	65.080	65.120	0.040	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.016
Gulf Coast	Oklahoma	Hughes	65.120	65.224	0.104	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.104
Gulf Coast	Oklahoma	Hughes	65.224	65.295	0.071	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.028
Gulf Coast	Oklahoma	Hughes	65.295	65.388	0.093	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.093
Gulf Coast	Oklahoma	Hughes	65.388	65.389	0.002	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.001
Gulf Coast	Oklahoma	Hughes	65.389	65.422	0.033	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.033
Gulf Coast	Oklahoma	Hughes	65.422	65.484	0.062	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.048
Gulf Coast	Oklahoma	Hughes	65.484	65.537	0.053	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.021
Gulf Coast	Oklahoma	Hughes	65.537	65.816	0.279	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.279

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	65.816	65.817	0.002	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.001
Gulf Coast	Oklahoma	Hughes	65.817	66.004	0.186	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.186
Gulf Coast	Oklahoma	Hughes	66.004	66.138	0.135	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.135
Gulf Coast	Oklahoma	Hughes	66.138	66.316	0.178	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.178
Gulf Coast	Oklahoma	Hughes	66.316	66.352	0.036	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.036
Gulf Coast	Oklahoma	Hughes	66.352	67.161	0.809	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.809
Gulf Coast	Oklahoma	Hughes	67.161	67.306	0.144	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.144
Gulf Coast	Oklahoma	Hughes	67.306	67.440	0.134	OK063	Osage clay, 0 to 1 percent slopes, occasionally flooded	0.134
Gulf Coast	Oklahoma	Hughes	67.440	67.496	0.056	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.022
Gulf Coast	Oklahoma	Hughes	67.496	67.680	0.184	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.138
Gulf Coast	Oklahoma	Hughes	67.680	67.747	0.066	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.027
Gulf Coast	Oklahoma	Hughes	67.747	68.339	0.592	OK063	Clearview fine sandy loam, 1 to 3 percent slopes	0.592
Gulf Coast	Oklahoma	Hughes	68.339	68.520	0.180	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.180
Gulf Coast	Oklahoma	Hughes	68.520	68.705	0.186	OK063	Stidham loamy fine sand, 0 to 2 percent slopes	0.186
Gulf Coast	Oklahoma	Hughes	68.705	69.135	0.429	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.429
Gulf Coast	Oklahoma	Hughes	69.135	69.208	0.074	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.074
Gulf Coast	Oklahoma	Hughes	69.208	69.413	0.205	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.205
Gulf Coast	Oklahoma	Hughes	69.413	69.682	0.269	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.269
Gulf Coast	Oklahoma	Hughes	69.682	69.717	0.034	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.034
Gulf Coast	Oklahoma	Hughes	69.717	69.760	0.044	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.044
Gulf Coast	Oklahoma	Hughes	69.971	70.039	0.068	OK063	Wynona clay loam, 0 to 1 percent slopes, occasionally flooded	0.068
Gulf Coast	Oklahoma	Hughes	70.039	70.362	0.323	OK063	Osage clay, 0 to 1 percent slopes, occasionally flooded	0.323
Gulf Coast	Oklahoma	Hughes	70.388	70.431	0.043	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.043
Gulf Coast	Oklahoma	Hughes	70.431	70.621	0.190	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.076
Gulf Coast	Oklahoma	Hughes	70.621	70.734	0.114	OK063	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.114
Gulf Coast	Oklahoma	Hughes	70.734	70.829	0.095	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.095
Gulf Coast	Oklahoma	Hughes	70.829	70.832	0.003	OK063	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.003
Gulf Coast	Oklahoma	Hughes	70.832	70.939	0.107	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.043

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	70.939	71.241	0.302	OK063	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.302
Gulf Coast	Oklahoma	Hughes	71.241	71.434	0.193	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.145
Gulf Coast	Oklahoma	Hughes	71.434	71.492	0.059	OK063	Clearview fine sandy loam, 3 to 5 percent slopes	0.059
Gulf Coast	Oklahoma	Hughes	71.492	71.603	0.110	OK063	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.110
Gulf Coast	Oklahoma	Hughes	71.603	71.823	0.220	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.088
Gulf Coast	Oklahoma	Hughes	71.823	71.901	0.079	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.059
Gulf Coast	Oklahoma	Hughes	71.901	71.912	0.011	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.004
Gulf Coast	Oklahoma	Hughes	71.912	72.024	0.112	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.084
Gulf Coast	Oklahoma	Hughes	72.024	72.085	0.061	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.025
Gulf Coast	Oklahoma	Hughes	72.085	72.182	0.097	OK063	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.097
Gulf Coast	Oklahoma	Hughes	72.182	72.292	0.109	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.044
Gulf Coast	Oklahoma	Hughes	72.292	72.489	0.197	OK063	Clearview-Hector complex, 3 to 5 percent slopes, eroded	0.148
Gulf Coast	Oklahoma	Hughes	72.489	72.528	0.039	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.016
Gulf Coast	Oklahoma	Hughes	72.528	72.718	0.190	OK063	Clearview-Hector complex, 3 to 5 percent slopes, eroded	0.143
Gulf Coast	Oklahoma	Hughes	72.718	72.778	0.061	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.024
Gulf Coast	Oklahoma	Hughes	72.778	72.902	0.124	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.124
Gulf Coast	Oklahoma	Hughes	72.902	73.000	0.098	OK063	Okay loam, 0 to 1 percent slopes	0.098
Gulf Coast	Oklahoma	Hughes	73.000	73.043	0.043	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.043
Gulf Coast	Oklahoma	Hughes	73.043	73.085	0.042	OK063	Okay loam, 0 to 1 percent slopes	0.042
Gulf Coast	Oklahoma	Hughes	73.085	73.279	0.195	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.195
Gulf Coast	Oklahoma	Hughes	73.279	73.365	0.086	OK063	Kamie fine sandy loam, 1 to 3 percent slopes	0.086
Gulf Coast	Oklahoma	Hughes	73.365	73.468	0.103	OK063	Okay loam, 1 to 3 percent slopes	0.103
Gulf Coast	Oklahoma	Hughes	73.468	73.562	0.094	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.094
Gulf Coast	Oklahoma	Hughes	73.562	73.793	0.231	OK063	Kamie fine sandy loam, 1 to 3 percent slopes	0.231
Gulf Coast	Oklahoma	Hughes	73.793	73.927	0.134	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.054
Gulf Coast	Oklahoma	Hughes	74.814	75.001	0.187	OK063	Larton-Glentosh complex, 8 to 20 percent slopes	0.122
Gulf Coast	Oklahoma	Hughes	75.001	75.033	0.033	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.007
Gulf Coast	Oklahoma	Hughes	75.033	75.327	0.293	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.117

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	75.327	75.475	0.149	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.149
Gulf Coast	Oklahoma	Hughes	75.475	75.508	0.032	OK063	Larton-Glentosh complex, 8 to 20 percent slopes	0.021
Gulf Coast	Oklahoma	Hughes	75.508	75.528	0.020	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.020
Gulf Coast	Oklahoma	Hughes	75.528	75.604	0.076	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.076
Gulf Coast	Oklahoma	Hughes	75.604	75.690	0.087	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.087
Gulf Coast	Oklahoma	Hughes	75.690	75.873	0.183	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.183
Gulf Coast	Oklahoma	Hughes	75.930	76.025	0.095	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.095
Gulf Coast	Oklahoma	Hughes	76.079	76.104	0.025	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.025
Gulf Coast	Oklahoma	Hughes	76.172	76.210	0.039	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.039
Gulf Coast	Oklahoma	Hughes	76.210	76.279	0.068	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.068
Gulf Coast	Oklahoma	Hughes	76.279	76.387	0.109	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.109
Gulf Coast	Oklahoma	Hughes	76.387	76.546	0.158	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.158
Gulf Coast	Oklahoma	Hughes	76.635	76.871	0.236	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.236
Gulf Coast	Oklahoma	Hughes	76.871	76.940	0.070	OK063	Okay loam, 1 to 3 percent slopes	0.070
Gulf Coast	Oklahoma	Hughes	76.940	77.007	0.066	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.066
Gulf Coast	Oklahoma	Hughes	77.007	77.036	0.029	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.029
Gulf Coast	Oklahoma	Hughes	77.036	77.120	0.084	OK063	Okay loam, 1 to 3 percent slopes	0.084
Gulf Coast	Oklahoma	Hughes	77.120	77.222	0.102	OK063	Kamie fine sandy loam, 1 to 3 percent slopes	0.102
Gulf Coast	Oklahoma	Hughes	77.222	77.343	0.121	OK063	Parsons silt loam, 0 to 1 percent slopes	0.121
Gulf Coast	Oklahoma	Hughes	77.343	77.438	0.095	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.095
Gulf Coast	Oklahoma	Hughes	77.438	77.499	0.061	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.061
Gulf Coast	Oklahoma	Hughes	77.499	77.706	0.207	OK063	Dennis loam, 1 to 3 percent slopes	0.207
Gulf Coast	Oklahoma	Hughes	77.706	77.833	0.127	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.127
Gulf Coast	Oklahoma	Hughes	77.833	78.059	0.226	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.226
Gulf Coast	Oklahoma	Hughes	78.059	78.165	0.106	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.074
Gulf Coast	Oklahoma	Hughes	78.165	78.246	0.081	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.081
Gulf Coast	Oklahoma	Hughes	78.246	78.351	0.105	OK063	Dennis loam, 1 to 3 percent slopes	0.105
Gulf Coast	Oklahoma	Hughes	78.351	78.444	0.093	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.093

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	78.444	78.497	0.053	OK063	Parsons silt loam, 0 to 1 percent slopes	0.053
Gulf Coast	Oklahoma	Hughes	78.497	78.555	0.058	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.058
Gulf Coast	Oklahoma	Hughes	78.555	78.589	0.034	OK063	Dennis loam, 1 to 3 percent slopes	0.034
Gulf Coast	Oklahoma	Hughes	78.589	78.738	0.149	OK063	Dennis loam, 3 to 5 percent slopes, eroded	0.149
Gulf Coast	Oklahoma	Hughes	78.738	78.839	0.100	OK063	Bates fine sandy loam, 1 to 3 percent slopes	0.100
Gulf Coast	Oklahoma	Hughes	78.839	78.874	0.036	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.036
Gulf Coast	Oklahoma	Hughes	78.874	78.921	0.047	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.047
Gulf Coast	Oklahoma	Hughes	78.921	78.945	0.024	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.024
Gulf Coast	Oklahoma	Hughes	78.945	79.033	0.088	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.088
Gulf Coast	Oklahoma	Hughes	79.066	79.129	0.063	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.063
Gulf Coast	Oklahoma	Hughes	79.493	79.595	0.102	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.102
Gulf Coast	Oklahoma	Hughes	79.595	79.660	0.065	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.065
Gulf Coast	Oklahoma	Hughes	79.660	79.776	0.117	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.117
Gulf Coast	Oklahoma	Hughes	79.776	79.994	0.218	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.218
Gulf Coast	Oklahoma	Hughes	79.994	80.147	0.153	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.153
Gulf Coast	Oklahoma	Hughes	80.147	80.199	0.052	OK063	Verdigris silt loam, 0 to 2 percent slopes, frequently flooded	0.052
Gulf Coast	Oklahoma	Hughes	80.199	80.291	0.092	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.092
Gulf Coast	Oklahoma	Hughes	80.291	80.392	0.100	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.100
Gulf Coast	Oklahoma	Hughes	80.392	80.577	0.185	OK063	Kamie loamy fine sand, 3 to 8 percent slopes	0.185
Gulf Coast	Oklahoma	Hughes	80.577	80.745	0.169	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.169
Gulf Coast	Oklahoma	Hughes	80.745	80.919	0.174	OK063	Stidham loamy fine sand, 0 to 2 percent slopes	0.174
Gulf Coast	Oklahoma	Hughes	80.919	80.957	0.038	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.015
Gulf Coast	Oklahoma	Hughes	80.957	81.059	0.102	OK063	Stidham loamy fine sand, 0 to 2 percent slopes	0.102
Gulf Coast	Oklahoma	Hughes	81.059	81.081	0.022	OK063	Kamie loamy fine sand, 3 to 8 percent slopes, severely eroded	0.022
Gulf Coast	Oklahoma	Hughes	81.081	81.144	0.063	OK063	Stidham loamy fine sand, 0 to 2 percent slopes	0.063
Gulf Coast	Oklahoma	Hughes	81.144	81.306	0.162	OK063	Okay loam, 0 to 1 percent slopes	0.162
Gulf Coast	Oklahoma	Hughes	81.306	81.377	0.070	OK063	Stidham loamy fine sand, 0 to 2 percent slopes	0.070
Gulf Coast	Oklahoma	Hughes	81.377	82.496	1.119	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.448

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	82.496	82.688	0.192	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.144
Gulf Coast	Oklahoma	Hughes	82.688	83.107	0.419	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.168
Gulf Coast	Oklahoma	Hughes	83.107	83.268	0.161	OK063	Clearview-Hector complex, 3 to 5 percent slopes, eroded	0.121
Gulf Coast	Oklahoma	Hughes	83.268	83.364	0.096	OK063	Clearview fine sandy loam, 1 to 3 percent slopes	0.096
Gulf Coast	Oklahoma	Hughes	83.364	83.574	0.210	OK063	Clearview-Hector complex, 3 to 5 percent slopes, eroded	0.157
Gulf Coast	Oklahoma	Hughes	83.574	83.652	0.078	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.031
Gulf Coast	Oklahoma	Hughes	83.652	83.765	0.113	OK063	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.113
Gulf Coast	Oklahoma	Hughes	83.765	83.837	0.072	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.072
Gulf Coast	Oklahoma	Hughes	83.837	84.143	0.306	OK063	Dennis loam, 3 to 5 percent slopes	0.306
Gulf Coast	Oklahoma	Hughes	84.143	84.169	0.026	OK063	Bates fine sandy loam, 3 to 5 percent slopes	0.026
Gulf Coast	Oklahoma	Hughes	84.169	84.222	0.053	OK063	Dennis loam, 2 to 8 percent slopes, severely eroded	0.053
Gulf Coast	Oklahoma	Hughes	84.222	84.271	0.049	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.037
Gulf Coast	Oklahoma	Hughes	84.271	84.307	0.036	OK063	Eram-Verdigris complex, 0 to 20 percent slopes	0.036
Gulf Coast	Oklahoma	Hughes	84.307	84.515	0.209	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.161
Gulf Coast	Oklahoma	Hughes	84.515	84.613	0.098	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.098
Gulf Coast	Oklahoma	Hughes	84.613	84.646	0.033	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.007
Gulf Coast	Oklahoma	Hughes	84.646	84.730	0.083	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.083
Gulf Coast	Oklahoma	Hughes	84.730	84.838	0.108	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.022
Gulf Coast	Oklahoma	Hughes	84.838	84.906	0.068	OK063	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.068
Gulf Coast	Oklahoma	Hughes	84.906	84.931	0.025	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.005
Gulf Coast	Oklahoma	Hughes	84.931	85.019	0.088	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.088
Gulf Coast	Oklahoma	Hughes	85.019	85.044	0.025	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.010
Gulf Coast	Oklahoma	Hughes	85.044	85.099	0.054	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.011
Gulf Coast	Oklahoma	Hughes	85.099	85.166	0.067	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.051
Gulf Coast	Oklahoma	Hughes	85.166	85.168	0.001	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.000
Gulf Coast	Oklahoma	Hughes	85.168	85.456	0.289	OK063	Clearview-Hector complex, 3 to 5 percent slopes	0.217
Gulf Coast	Oklahoma	Hughes	85.456	85.510	0.054	OK063	Hector-Endsaw complex, 30 to 45 percent slopes, extremely stony	0.011
Gulf Coast	Oklahoma	Hughes	85.510	85.550	0.040	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.016

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Hughes	85.550	85.590	0.040	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.028
Gulf Coast	Oklahoma	Hughes	85.590	85.617	0.027	OK063	Dennis loam, 3 to 5 percent slopes, eroded	0.027
Gulf Coast	Oklahoma	Hughes	85.617	85.728	0.111	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.086
Gulf Coast	Oklahoma	Hughes	85.728	85.734	0.005	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.002
Gulf Coast	Oklahoma	Hughes	85.734	85.797	0.063	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.063
Gulf Coast	Oklahoma	Hughes	85.797	85.856	0.059	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.045
Gulf Coast	Oklahoma	Hughes	85.856	85.902	0.047	OK063	Talihina-Coweta complex, 5 to 20 percent slopes, very stony	0.033
Gulf Coast	Oklahoma	Hughes	85.902	86.131	0.229	OK063	Bates-Coweta complex, 3 to 5 percent slopes	0.176
Gulf Coast	Oklahoma	Hughes	86.131	86.280	0.149	OK063	Bates fine sandy loam, 3 to 5 percent slopes	0.149
Gulf Coast	Oklahoma	Hughes	86.280	86.481	0.201	OK063	Hector-Endsaw complex, 5 to 30 percent slopes	0.080
Gulf Coast	Oklahoma	Hughes	86.481	86.498	0.017	OK063	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	0.017
Gulf Coast	Oklahoma	Hughes	86.498	86.734	0.236	OK063	Osage clay, 0 to 1 percent slopes, occasionally flooded	0.236
Gulf Coast	Oklahoma	Coal	86.734	87.101	0.367	OK029	Kaufman silty clay, 0 to 1 percent slopes, occasionally flooded	0.367
Gulf Coast	Oklahoma	Coal	87.101	87.145	0.044	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.022
Gulf Coast	Oklahoma	Coal	87.145	87.333	0.189	OK029	Rexor loam, 0 to 1 percent slopes, occasionally flooded	0.183
Gulf Coast	Oklahoma	Coal	87.333	87.391	0.058	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.058
Gulf Coast	Oklahoma	Coal	87.391	87.533	0.142	OK029	Kaufman silty clay, 0 to 1 percent slopes, occasionally flooded	0.142
Gulf Coast	Oklahoma	Coal	87.533	87.552	0.019	OK029	Bosville loam, 3 to 5 percent slopes	0.019
Gulf Coast	Oklahoma	Coal	87.552	87.720	0.168	OK029	Steedman clay loam, 3 to 5 percent slopes	0.160
Gulf Coast	Oklahoma	Coal	87.720	87.761	0.041	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.026
Gulf Coast	Oklahoma	Coal	87.761	87.798	0.037	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.018
Gulf Coast	Oklahoma	Coal	87.798	87.970	0.173	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.112
Gulf Coast	Oklahoma	Coal	87.970	88.251	0.281	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.225
Gulf Coast	Oklahoma	Coal	88.251	89.371	1.120	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.728
Gulf Coast	Oklahoma	Coal	89.371	89.389	0.019	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.015
Gulf Coast	Oklahoma	Coal	89.389	89.683	0.294	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.191
Gulf Coast	Oklahoma	Coal	89.683	89.785	0.102	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.082
Gulf Coast	Oklahoma	Coal	89.785	89.881	0.096	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.086

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	89.881	89.928	0.047	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.047
Gulf Coast	Oklahoma	Coal	89.928	89.988	0.060	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.057
Gulf Coast	Oklahoma	Coal	89.988	90.030	0.042	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.028
Gulf Coast	Oklahoma	Coal	90.030	90.057	0.027	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.022
Gulf Coast	Oklahoma	Coal	90.057	90.144	0.087	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.056
Gulf Coast	Oklahoma	Coal	90.144	90.170	0.026	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.025
Gulf Coast	Oklahoma	Coal	90.170	90.312	0.143	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.093
Gulf Coast	Oklahoma	Coal	90.312	90.520	0.208	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.208
Gulf Coast	Oklahoma	Coal	90.520	90.602	0.082	OK029	Clearview fine sandy loam, 1 to 3 percent slopes	0.082
Gulf Coast	Oklahoma	Coal	90.602	90.619	0.017	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.016
Gulf Coast	Oklahoma	Coal	90.619	90.814	0.195	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.195
Gulf Coast	Oklahoma	Coal	90.814	90.861	0.047	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.042
Gulf Coast	Oklahoma	Coal	90.861	90.991	0.130	OK029	Clearview fine sandy loam, 1 to 3 percent slopes	0.130
Gulf Coast	Oklahoma	Coal	90.991	91.229	0.238	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.238
Gulf Coast	Oklahoma	Coal	91.229	91.276	0.047	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.047
Gulf Coast	Oklahoma	Coal	91.276	91.402	0.126	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.113
Gulf Coast	Oklahoma	Coal	91.402	91.574	0.172	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.112
Gulf Coast	Oklahoma	Coal	91.574	91.702	0.128	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.121
Gulf Coast	Oklahoma	Coal	91.702	91.773	0.071	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.046
Gulf Coast	Oklahoma	Coal	91.773	91.808	0.035	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.033
Gulf Coast	Oklahoma	Coal	91.808	91.881	0.074	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.048
Gulf Coast	Oklahoma	Coal	91.881	92.046	0.165	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.149
Gulf Coast	Oklahoma	Coal	92.046	92.061	0.014	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.014
Gulf Coast	Oklahoma	Coal	92.061	92.114	0.053	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.048
Gulf Coast	Oklahoma	Coal	92.114	92.145	0.031	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.031
Gulf Coast	Oklahoma	Coal	92.145	92.149	0.005	OK029	Dennis loam, 1 to 3 percent slopes	0.005
Gulf Coast	Oklahoma	Coal	92.149	92.207	0.058	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.029
Gulf Coast	Oklahoma	Coal	92.207	92.258	0.051	OK029	Dennis loam, 1 to 3 percent slopes	0.051

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	92.258	92.368	0.110	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, severely eroded	0.110
Gulf Coast	Oklahoma	Coal	92.368	92.404	0.036	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.023
Gulf Coast	Oklahoma	Coal	92.404	92.455	0.051	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.041
Gulf Coast	Oklahoma	Coal	92.455	92.501	0.046	OK029	Dennis loam, 3 to 5 percent slopes	0.046
Gulf Coast	Oklahoma	Coal	92.501	92.534	0.033	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.017
Gulf Coast	Oklahoma	Coal	92.534	92.571	0.037	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.029
Gulf Coast	Oklahoma	Coal	92.571	92.647	0.077	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.069
Gulf Coast	Oklahoma	Coal	92.647	92.704	0.057	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.057
Gulf Coast	Oklahoma	Coal	92.704	92.731	0.027	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.014
Gulf Coast	Oklahoma	Coal	92.731	92.762	0.031	OK029	Bates fine sandy loam, 3 to 5 percent slopes	0.031
Gulf Coast	Oklahoma	Coal	92.762	92.829	0.067	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.034
Gulf Coast	Oklahoma	Coal	92.829	92.923	0.094	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.085
Gulf Coast	Oklahoma	Coal	92.923	93.039	0.115	OK029	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.115
Gulf Coast	Oklahoma	Coal	93.039	93.138	0.099	OK029	Steedman clay loam, 3 to 5 percent slopes	0.094
Gulf Coast	Oklahoma	Coal	93.138	93.185	0.047	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.047
Gulf Coast	Oklahoma	Coal	93.185	93.285	0.100	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.095
Gulf Coast	Oklahoma	Coal	93.285	93.303	0.018	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.015
Gulf Coast	Oklahoma	Coal	93.303	93.344	0.040	OK029	Steedman clay loam, 3 to 5 percent slopes	0.038
Gulf Coast	Oklahoma	Coal	93.344	93.499	0.155	OK029	Dennis loam, 3 to 5 percent slopes	0.155
Gulf Coast	Oklahoma	Coal	93.499	93.625	0.126	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.126
Gulf Coast	Oklahoma	Coal	93.625	93.745	0.120	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.108
Gulf Coast	Oklahoma	Coal	93.745	93.803	0.058	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.058
Gulf Coast	Oklahoma	Coal	93.803	93.861	0.059	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.056
Gulf Coast	Oklahoma	Coal	93.861	93.919	0.057	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.046
Gulf Coast	Oklahoma	Coal	93.919	94.082	0.164	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.107
Gulf Coast	Oklahoma	Coal	94.082	94.192	0.110	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.110
Gulf Coast	Oklahoma	Coal	94.192	94.263	0.071	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, severely eroded	0.071
Gulf Coast	Oklahoma	Coal	94.263	94.360	0.097	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.048

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	94.360	94.445	0.085	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.077
Gulf Coast	Oklahoma	Coal	94.445	94.492	0.047	OK029	Bosville loam, 3 to 5 percent slopes	0.047
Gulf Coast	Oklahoma	Coal	94.492	94.556	0.065	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.032
Gulf Coast	Oklahoma	Coal	94.556	94.660	0.103	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.083
Gulf Coast	Oklahoma	Coal	94.660	94.758	0.099	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.094
Gulf Coast	Oklahoma	Coal	94.758	94.832	0.074	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.059
Gulf Coast	Oklahoma	Coal	94.832	94.883	0.050	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.033
Gulf Coast	Oklahoma	Coal	94.883	95.044	0.161	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.161
Gulf Coast	Oklahoma	Coal	95.044	95.101	0.057	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.054
Gulf Coast	Oklahoma	Coal	95.101	95.199	0.098	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.078
Gulf Coast	Oklahoma	Coal	95.199	95.355	0.157	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.149
Gulf Coast	Oklahoma	Coal	95.355	95.437	0.082	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.073
Gulf Coast	Oklahoma	Coal	95.437	95.487	0.050	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.048
Gulf Coast	Oklahoma	Coal	95.487	95.610	0.123	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.098
Gulf Coast	Oklahoma	Coal	95.610	95.647	0.037	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.019
Gulf Coast	Oklahoma	Coal	95.647	95.717	0.070	OK029	Dennis loam, 1 to 3 percent slopes	0.070
Gulf Coast	Oklahoma	Coal	95.717	95.921	0.204	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.163
Gulf Coast	Oklahoma	Coal	95.921	96.067	0.146	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.146
Gulf Coast	Oklahoma	Coal	96.067	96.149	0.082	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.053
Gulf Coast	Oklahoma	Coal	96.149	96.246	0.097	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.077
Gulf Coast	Oklahoma	Coal	96.246	96.321	0.076	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.072
Gulf Coast	Oklahoma	Coal	96.321	96.383	0.062	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.059
Gulf Coast	Oklahoma	Coal	96.383	96.618	0.235	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.188
Gulf Coast	Oklahoma	Coal	96.618	96.665	0.047	OK029	Steedman clay loam, 3 to 5 percent slopes	0.045
Gulf Coast	Oklahoma	Coal	96.665	96.738	0.073	OK029	Dennis loam, 3 to 5 percent slopes	0.073
Gulf Coast	Oklahoma	Coal	96.738	96.791	0.053	OK029	Steedman clay loam, 3 to 5 percent slopes	0.050
Gulf Coast	Oklahoma	Coal	96.791	96.880	0.089	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.072
Gulf Coast	Oklahoma	Coal	96.880	96.958	0.077	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.077

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	96.958	97.171	0.213	OK029	Pharoah silt loam, 0 to 1 percent slopes	0.213
Gulf Coast	Oklahoma	Coal	97.171	97.245	0.074	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.037
Gulf Coast	Oklahoma	Coal	97.245	97.344	0.099	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.099
Gulf Coast	Oklahoma	Coal	97.344	97.444	0.100	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.095
Gulf Coast	Oklahoma	Coal	97.444	97.509	0.066	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.059
Gulf Coast	Oklahoma	Coal	97.509	97.570	0.061	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.055
Gulf Coast	Oklahoma	Coal	97.570	97.609	0.038	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.019
Gulf Coast	Oklahoma	Coal	97.609	97.687	0.078	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.051
Gulf Coast	Oklahoma	Coal	97.687	97.743	0.057	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.054
Gulf Coast	Oklahoma	Coal	97.743	97.766	0.023	OK029	Parsons silt loam, 1 to 3 percent slopes	0.023
Gulf Coast	Oklahoma	Coal	97.766	97.942	0.176	OK029	Steedman clay loam, 3 to 5 percent slopes	0.167
Gulf Coast	Oklahoma	Coal	97.942	97.995	0.053	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.042
Gulf Coast	Oklahoma	Coal	97.995	98.044	0.049	OK029	Steedman clay loam, 3 to 5 percent slopes	0.046
Gulf Coast	Oklahoma	Coal	98.044	98.144	0.100	OK029	Dennis loam, 3 to 5 percent slopes	0.100
Gulf Coast	Oklahoma	Coal	98.144	98.242	0.098	OK029	Parsons silt loam, 1 to 3 percent slopes	0.098
Gulf Coast	Oklahoma	Coal	98.242	98.245	0.002	OK029	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.002
Gulf Coast	Oklahoma	Coal	98.245	98.373	0.129	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.116
Gulf Coast	Oklahoma	Coal	98.373	98.574	0.201	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.201
Gulf Coast	Oklahoma	Coal	98.574	98.586	0.012	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.011
Gulf Coast	Oklahoma	Coal	98.586	98.672	0.086	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.069
Gulf Coast	Oklahoma	Coal	98.672	98.699	0.027	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.017
Gulf Coast	Oklahoma	Coal	98.699	98.717	0.018	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.017
Gulf Coast	Oklahoma	Coal	98.717	99.049	0.332	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.216
Gulf Coast	Oklahoma	Coal	99.049	99.133	0.083	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.067
Gulf Coast	Oklahoma	Coal	99.133	99.232	0.099	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.050
Gulf Coast	Oklahoma	Coal	99.232	99.291	0.059	OK029	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.059
Gulf Coast	Oklahoma	Coal	99.291	99.326	0.035	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.033
Gulf Coast	Oklahoma	Coal	99.326	99.346	0.020	OK029	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.020

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	99.346	99.446	0.100	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.100
Gulf Coast	Oklahoma	Coal	99.446	99.462	0.016	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.016
Gulf Coast	Oklahoma	Coal	99.462	99.537	0.076	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.060
Gulf Coast	Oklahoma	Coal	99.537	99.565	0.028	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.028
Gulf Coast	Oklahoma	Coal	99.565	99.610	0.044	OK029	Steedman clay loam, 3 to 5 percent slopes	0.042
Gulf Coast	Oklahoma	Coal	99.610	99.688	0.079	OK029	Bates-Coweta complex, 1 to 5 percent slopes	0.075
Gulf Coast	Oklahoma	Coal	99.688	99.736	0.048	OK029	Steedman-Dela complex, 5 to 30 percent slopes	0.032
Gulf Coast	Oklahoma	Coal	99.736	99.916	0.180	OK029	Parsons silt loam, 1 to 3 percent slopes	0.180
Gulf Coast	Oklahoma	Coal	99.916	100.112	0.196	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.176
Gulf Coast	Oklahoma	Coal	100.112	100.185	0.073	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.073
Gulf Coast	Oklahoma	Coal	100.185	100.219	0.033	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.022
Gulf Coast	Oklahoma	Coal	100.219	100.358	0.139	OK029	Bosville loam, 3 to 5 percent slopes	0.139
Gulf Coast	Oklahoma	Coal	100.358	100.453	0.095	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.095
Gulf Coast	Oklahoma	Coal	100.453	100.536	0.083	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.042
Gulf Coast	Oklahoma	Coal	100.536	100.604	0.067	OK029	Clearview fine sandy loam, 1 to 3 percent slopes	0.067
Gulf Coast	Oklahoma	Coal	100.604	101.001	0.397	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.258
Gulf Coast	Oklahoma	Coal	101.001	101.029	0.028	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.022
Gulf Coast	Oklahoma	Coal	101.029	101.055	0.026	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.017
Gulf Coast	Oklahoma	Coal	101.055	101.117	0.063	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.050
Gulf Coast	Oklahoma	Coal	101.117	101.320	0.203	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.203
Gulf Coast	Oklahoma	Coal	101.320	101.388	0.068	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.055
Gulf Coast	Oklahoma	Coal	101.388	101.405	0.017	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.011
Gulf Coast	Oklahoma	Coal	101.405	101.444	0.038	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.031
Gulf Coast	Oklahoma	Coal	101.444	101.491	0.047	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.031
Gulf Coast	Oklahoma	Coal	101.491	101.538	0.047	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.047
Gulf Coast	Oklahoma	Coal	101.538	101.595	0.057	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.045
Gulf Coast	Oklahoma	Coal	101.595	101.951	0.356	OK029	Dennis loam, 1 to 3 percent slopes	0.356
Gulf Coast	Oklahoma	Coal	101.951	102.004	0.053	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.026

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	102.004	102.101	0.097	OK029	Bates fine sandy loam, 3 to 5 percent slopes	0.097
Gulf Coast	Oklahoma	Coal	102.101	102.122	0.021	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.020
Gulf Coast	Oklahoma	Coal	102.122	102.176	0.054	OK029	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.054
Gulf Coast	Oklahoma	Coal	102.176	102.219	0.043	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.028
Gulf Coast	Oklahoma	Coal	102.219	102.255	0.035	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.018
Gulf Coast	Oklahoma	Coal	102.255	102.656	0.401	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.261
Gulf Coast	Oklahoma	Coal	102.656	102.775	0.120	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.060
Gulf Coast	Oklahoma	Coal	102.775	102.849	0.073	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.048
Gulf Coast	Oklahoma	Coal	102.849	102.932	0.083	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.083
Gulf Coast	Oklahoma	Coal	102.932	102.959	0.027	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.018
Gulf Coast	Oklahoma	Coal	102.959	103.150	0.191	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.172
Gulf Coast	Oklahoma	Coal	103.150	103.239	0.089	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.089
Gulf Coast	Oklahoma	Coal	103.239	103.281	0.042	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.042
Gulf Coast	Oklahoma	Coal	103.281	103.298	0.016	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.015
Gulf Coast	Oklahoma	Coal	103.298	103.423	0.126	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.126
Gulf Coast	Oklahoma	Coal	103.423	103.453	0.030	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.027
Gulf Coast	Oklahoma	Coal	103.453	103.553	0.100	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.100
Gulf Coast	Oklahoma	Coal	103.553	103.707	0.153	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.138
Gulf Coast	Oklahoma	Coal	103.707	103.747	0.041	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.020
Gulf Coast	Oklahoma	Coal	103.747	103.883	0.136	OK029	Steedman clay loam, 3 to 5 percent slopes	0.129
Gulf Coast	Oklahoma	Coal	103.883	104.285	0.402	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.322
Gulf Coast	Oklahoma	Coal	104.285	104.337	0.052	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.050
Gulf Coast	Oklahoma	Coal	104.337	104.407	0.070	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.070
Gulf Coast	Oklahoma	Coal	104.407	104.498	0.091	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.082
Gulf Coast	Oklahoma	Coal	104.498	104.547	0.049	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.032
Gulf Coast	Oklahoma	Coal	104.547	104.699	0.153	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.145
Gulf Coast	Oklahoma	Coal	104.699	105.090	0.391	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.254
Gulf Coast	Oklahoma	Coal	105.090	105.274	0.184	OK029	Clearview fine sandy loam, 1 to 3 percent slopes	0.184

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	105.274	105.326	0.052	OK029	Dennis loam, 3 to 5 percent slopes	0.052
Gulf Coast	Oklahoma	Coal	105.326	105.484	0.158	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.103
Gulf Coast	Oklahoma	Coal	105.484	105.539	0.055	OK029	Clearview fine sandy loam, 1 to 3 percent slopes	0.055
Gulf Coast	Oklahoma	Coal	105.539	105.610	0.071	OK029	Dennis loam, 3 to 5 percent slopes	0.071
Gulf Coast	Oklahoma	Coal	105.610	105.696	0.085	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.081
Gulf Coast	Oklahoma	Coal	105.696	105.804	0.108	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.070
Gulf Coast	Oklahoma	Coal	105.804	105.862	0.058	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.055
Gulf Coast	Oklahoma	Coal	105.862	105.975	0.113	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.113
Gulf Coast	Oklahoma	Coal	105.975	106.105	0.130	OK029	Parsons silt loam, 1 to 3 percent slopes	0.130
Gulf Coast	Oklahoma	Coal	106.105	106.140	0.035	OK029	Dennis loam, 1 to 3 percent slopes	0.035
Gulf Coast	Oklahoma	Coal	106.140	106.169	0.029	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.023
Gulf Coast	Oklahoma	Coal	106.169	106.282	0.113	OK029	Dennis loam, 1 to 3 percent slopes	0.113
Gulf Coast	Oklahoma	Coal	106.282	106.342	0.060	OK029	Parsons silt loam, 1 to 3 percent slopes	0.060
Gulf Coast	Oklahoma	Coal	106.342	106.371	0.029	OK029	Steedman-Dela complex, 5 to 30 percent slopes	0.019
Gulf Coast	Oklahoma	Coal	106.371	106.410	0.039	OK029	Parsons silt loam, 1 to 3 percent slopes	0.039
Gulf Coast	Oklahoma	Coal	106.410	106.492	0.082	OK029	Bates fine sandy loam, 3 to 5 percent slopes	0.082
Gulf Coast	Oklahoma	Coal	106.492	106.541	0.048	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.048
Gulf Coast	Oklahoma	Coal	106.541	106.601	0.061	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.058
Gulf Coast	Oklahoma	Coal	106.601	106.643	0.042	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.027
Gulf Coast	Oklahoma	Coal	106.643	106.729	0.086	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.069
Gulf Coast	Oklahoma	Coal	106.729	106.762	0.033	OK029	Bates fine sandy loam, 3 to 5 percent slopes	0.033
Gulf Coast	Oklahoma	Coal	106.762	106.866	0.104	OK029	Parsons silt loam, 1 to 3 percent slopes	0.104
Gulf Coast	Oklahoma	Coal	106.866	106.955	0.089	OK029	Parsons silt loam, 0 to 1 percent slopes	0.089
Gulf Coast	Oklahoma	Coal	106.955	107.395	0.440	OK029	Parsons silt loam, 1 to 3 percent slopes	0.440
Gulf Coast	Oklahoma	Coal	107.395	107.516	0.121	OK029	Pharoah silt loam, 0 to 1 percent slopes	0.121
Gulf Coast	Oklahoma	Coal	107.516	107.594	0.078	OK029	Parsons silt loam, 1 to 3 percent slopes	0.078
Gulf Coast	Oklahoma	Coal	107.594	107.650	0.056	OK029	Pharoah silt loam, 0 to 1 percent slopes	0.056
Gulf Coast	Oklahoma	Coal	107.650	107.668	0.018	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, severely eroded	0.018

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	107.668	107.710	0.042	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.027
Gulf Coast	Oklahoma	Coal	107.710	107.736	0.027	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.027
Gulf Coast	Oklahoma	Coal	107.736	107.775	0.039	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.020
Gulf Coast	Oklahoma	Coal	107.775	107.848	0.073	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.065
Gulf Coast	Oklahoma	Coal	107.848	107.883	0.035	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.017
Gulf Coast	Oklahoma	Coal	107.883	108.201	0.319	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.319
Gulf Coast	Oklahoma	Coal	108.201	108.633	0.432	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.432
Gulf Coast	Oklahoma	Coal	108.633	108.995	0.361	OK029	Pharoah silt loam, 0 to 1 percent slopes	0.361
Gulf Coast	Oklahoma	Coal	108.995	109.040	0.046	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.023
Gulf Coast	Oklahoma	Coal	109.040	109.124	0.084	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.084
Gulf Coast	Oklahoma	Coal	109.124	109.234	0.110	OK029	Dennis loam, 1 to 3 percent slopes	0.110
Gulf Coast	Oklahoma	Coal	109.234	109.337	0.102	OK029	Wynona silt loam, 0 to 1 percent slopes, occasionally flooded	0.102
Gulf Coast	Oklahoma	Coal	109.337	109.524	0.187	OK029	Dennis loam, 1 to 3 percent slopes	0.187
Gulf Coast	Oklahoma	Coal	109.524	109.566	0.042	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.021
Gulf Coast	Oklahoma	Coal	109.566	109.590	0.024	OK029	Clearview fine sandy loam, 3 to 5 percent slopes, eroded	0.022
Gulf Coast	Oklahoma	Coal	109.590	109.824	0.234	OK029	Dennis loam, 1 to 3 percent slopes	0.234
Gulf Coast	Oklahoma	Coal	109.824	109.877	0.054	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.027
Gulf Coast	Oklahoma	Coal	109.877	110.096	0.219	OK029	Clearview fine sandy loam, 3 to 5 percent slopes	0.219
Gulf Coast	Oklahoma	Coal	110.096	110.286	0.190	OK029	Bates fine sandy loam, 3 to 5 percent slopes	0.190
Gulf Coast	Oklahoma	Coal	110.286	110.405	0.120	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.120
Gulf Coast	Oklahoma	Coal	110.405	110.479	0.074	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.059
Gulf Coast	Oklahoma	Coal	110.479	110.518	0.038	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.025
Gulf Coast	Oklahoma	Coal	110.518	110.794	0.276	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.262
Gulf Coast	Oklahoma	Coal	110.794	110.812	0.018	OK029	Clearview fine sandy loam, 1 to 3 percent slopes	0.018
Gulf Coast	Oklahoma	Coal	110.812	110.858	0.046	OK029	Homa-Clearview complex, 3 to 5 percent slopes	0.043
Gulf Coast	Oklahoma	Coal	110.858	110.894	0.036	OK029	Homa-Hector complex, 12 to 20 percent slopes	0.024
Gulf Coast	Oklahoma	Coal	110.894	111.034	0.140	OK029	Steedman-Coweta complex, 2 to 20 percent slopes	0.112
Gulf Coast	Oklahoma	Coal	111.034	111.080	0.047	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.023

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Coal	111.080	111.134	0.054	OK029	Rexor loam, 0 to 1 percent slopes, occasionally flooded	0.053
Gulf Coast	Oklahoma	Coal	111.134	111.294	0.160	OK029	Pharoah silt loam, 0 to 1 percent slopes	0.160
Gulf Coast	Oklahoma	Coal	111.294	111.506	0.212	OK029	Dennis loam, 1 to 3 percent slopes	0.212
Gulf Coast	Oklahoma	Coal	111.506	111.549	0.043	OK029	Dela and Wynona soils, 0 to 1 percent slopes, frequently flooded	0.021
Gulf Coast	Oklahoma	Coal	111.549	111.608	0.059	OK029	Parsons silt loam, 1 to 3 percent slopes	0.059
Gulf Coast	Oklahoma	Coal	111.608	111.746	0.138	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.138
Gulf Coast	Oklahoma	Coal	111.746	111.799	0.052	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.047
Gulf Coast	Oklahoma	Coal	111.799	111.837	0.039	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.039
Gulf Coast	Oklahoma	Coal	111.837	111.932	0.094	OK029	Bates and Dennis soils, 3 to 5 percent slopes, severely eroded	0.085
Gulf Coast	Oklahoma	Coal	111.932	112.142	0.211	OK029	Dennis loam, 3 to 5 percent slopes, eroded	0.211
Gulf Coast	Oklahoma	Coal	112.142	112.382	0.240	OK029	Parsons silt loam, 1 to 3 percent slopes	0.240
Gulf Coast	Oklahoma	Coal	112.382	112.431	0.048	OK029	Parsons silt loam, 0 to 1 percent slopes	0.048
Gulf Coast	Oklahoma	Coal	112.431	112.827	0.396	OK029	Parsons silt loam, 1 to 3 percent slopes	0.396
Gulf Coast	Oklahoma	Coal	112.827	112.854	0.027	OK029	Steedman-Dela complex, 5 to 30 percent slopes	0.018
Gulf Coast	Oklahoma	Coal	112.854	112.968	0.114	OK029	Parsons silt loam, 1 to 3 percent slopes	0.114
Gulf Coast	Oklahoma	Coal	112.968	113.054	0.085	OK029	Dennis loam, 1 to 3 percent slopes	0.085
Gulf Coast	Oklahoma	Atoka	113.054	113.075	0.021	OK005	Dennis loam, 1 to 3 percent slopes	0.021
Gulf Coast	Oklahoma	Atoka	113.075	113.302	0.227	OK005	Parsons silt loam, 1 to 3 percent slopes	0.227
Gulf Coast	Oklahoma	Atoka	113.302	113.522	0.220	OK005	Bates fine sandy loam, 1 to 3 percent slopes	0.220
Gulf Coast	Oklahoma	Atoka	113.522	113.916	0.394	OK005	Dennis loam, 1 to 3 percent slopes	0.394
Gulf Coast	Oklahoma	Atoka	113.916	113.967	0.050	OK005	Parsons silt loam, 1 to 3 percent slopes	0.050
Gulf Coast	Oklahoma	Atoka	113.967	114.004	0.037	OK005	Dennis loam, 1 to 3 percent slopes	0.037
Gulf Coast	Oklahoma	Atoka	114.004	114.102	0.098	OK005	Dennis and Eram soils, 3 to 8 percent slopes, severely eroded	0.098
Gulf Coast	Oklahoma	Atoka	114.102	114.216	0.114	OK005	Parsons silt loam, 1 to 3 percent slopes	0.114
Gulf Coast	Oklahoma	Atoka	114.216	114.297	0.081	OK005	Eram clay loam, 3 to 5 percent slopes	0.081
Gulf Coast	Oklahoma	Atoka	114.297	114.409	0.111	OK005	Parsons silt loam, 1 to 3 percent slopes	0.111
Gulf Coast	Oklahoma	Atoka	114.409	114.463	0.054	OK005	Eram clay loam, 3 to 5 percent slopes	0.054
Gulf Coast	Oklahoma	Atoka	114.463	114.543	0.080	OK005	Bates-Coweta complex, 3 to 5 percent slopes	0.080

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	114.543	114.670	0.127	OK005	Eram clay loam, 3 to 5 percent slopes	0.127
Gulf Coast	Oklahoma	Atoka	114.670	114.736	0.066	OK005	Parsons silt loam, 1 to 3 percent slopes, eroded	0.066
Gulf Coast	Oklahoma	Atoka	114.736	114.763	0.027	OK005	Parsons silt loam, 1 to 3 percent slopes	0.027
Gulf Coast	Oklahoma	Atoka	114.763	115.010	0.247	OK005	Parsons silt loam, 1 to 3 percent slopes, eroded	0.247
Gulf Coast	Oklahoma	Atoka	115.010	115.134	0.124	OK005	Parsons silt loam, 1 to 3 percent slopes	0.124
Gulf Coast	Oklahoma	Atoka	115.134	115.184	0.050	OK005	Dennis loam, 3 to 5 percent slopes, eroded	0.050
Gulf Coast	Oklahoma	Atoka	115.184	115.579	0.395	OK005	Dennis loam, 1 to 3 percent slopes	0.395
Gulf Coast	Oklahoma	Atoka	115.579	115.825	0.246	OK005	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.246
Gulf Coast	Oklahoma	Atoka	115.825	115.830	0.005	OK005	Dennis loam, 1 to 3 percent slopes	0.005
Gulf Coast	Oklahoma	Atoka	115.830	115.938	0.108	OK005	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.108
Gulf Coast	Oklahoma	Atoka	115.938	115.945	0.007	OK005	Eram clay loam, 5 to 8 percent slopes	0.007
Gulf Coast	Oklahoma	Atoka	115.945	115.964	0.019	OK005	Bates fine sandy loam, 3 to 5 percent slopes, eroded	0.019
Gulf Coast	Oklahoma	Atoka	115.964	116.072	0.108	OK005	Eram clay loam, 5 to 8 percent slopes	0.108
Gulf Coast	Oklahoma	Atoka	116.072	116.138	0.066	OK005	Bates-Coweta complex, 3 to 5 percent slopes	0.066
Gulf Coast	Oklahoma	Atoka	116.138	116.204	0.066	OK005	Eram clay loam, 5 to 8 percent slopes	0.066
Gulf Coast	Oklahoma	Atoka	116.204	116.255	0.051	OK005	Dennis loam, 1 to 3 percent slopes	0.051
Gulf Coast	Oklahoma	Atoka	116.255	116.345	0.090	OK005	Parsons silt loam, 1 to 3 percent slopes	0.090
Gulf Coast	Oklahoma	Atoka	116.345	116.547	0.202	OK005	Dennis loam, 3 to 5 percent slopes, eroded	0.202
Gulf Coast	Oklahoma	Atoka	116.547	116.687	0.140	OK005	Parsons silt loam, 1 to 3 percent slopes, eroded	0.140
Gulf Coast	Oklahoma	Atoka	116.687	116.782	0.094	OK005	Parsons silt loam, 1 to 3 percent slopes	0.094
Gulf Coast	Oklahoma	Atoka	116.782	116.827	0.045	OK005	Dennis loam, 1 to 3 percent slopes	0.045
Gulf Coast	Oklahoma	Atoka	116.827	116.885	0.058	OK005	Eram clay loam, 3 to 5 percent slopes	0.058
Gulf Coast	Oklahoma	Atoka	116.885	116.932	0.048	OK005	Dennis loam, 1 to 3 percent slopes	0.048
Gulf Coast	Oklahoma	Atoka	116.932	116.965	0.032	OK005	Eram clay loam, 3 to 5 percent slopes	0.032
Gulf Coast	Oklahoma	Atoka	116.965	117.064	0.099	OK005	Eram clay loam, 5 to 8 percent slopes	0.099
Gulf Coast	Oklahoma	Atoka	117.064	117.080	0.016	OK005	Dennis loam, 1 to 3 percent slopes	0.016
Gulf Coast	Oklahoma	Atoka	117.080	117.396	0.316	OK005	Parsons silt loam, 1 to 3 percent slopes	0.316
Gulf Coast	Oklahoma	Atoka	117.396	117.755	0.359	OK005	Dennis loam, 3 to 5 percent slopes, eroded	0.359

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	117.755	117.848	0.093	OK005	Dennis and Eram soils, 3 to 8 percent slopes, severely eroded	0.093
Gulf Coast	Oklahoma	Atoka	117.848	117.909	0.062	OK005	Hamden fine sandy loam, 0 to 2 percent slopes	0.062
Gulf Coast	Oklahoma	Atoka	117.909	117.979	0.069	OK005	Dennis and Eram soils, 3 to 8 percent slopes, severely eroded	0.069
Gulf Coast	Oklahoma	Atoka	117.979	118.032	0.054	OK005	Hamden fine sandy loam, 0 to 2 percent slopes	0.054
Gulf Coast	Oklahoma	Atoka	118.032	118.092	0.059	OK005	Wrightsville silt loam, 0 to 1 percent slopes	0.059
Gulf Coast	Oklahoma	Atoka	118.092	118.213	0.121	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.121
Gulf Coast	Oklahoma	Atoka	118.213	118.435	0.222	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.222
Gulf Coast	Oklahoma	Atoka	118.435	118.643	0.208	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.208
Gulf Coast	Oklahoma	Atoka	118.643	118.826	0.183	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.183
Gulf Coast	Oklahoma	Atoka	118.826	118.852	0.026	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.026
Gulf Coast	Oklahoma	Atoka	118.852	118.976	0.124	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.124
Gulf Coast	Oklahoma	Atoka	118.976	119.038	0.062	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.062
Gulf Coast	Oklahoma	Atoka	119.038	119.198	0.160	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.160
Gulf Coast	Oklahoma	Atoka	119.198	119.266	0.067	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.067
Gulf Coast	Oklahoma	Atoka	119.266	119.322	0.057	OK005	Hamden fine sandy loam, 0 to 2 percent slopes	0.057
Gulf Coast	Oklahoma	Atoka	119.322	119.526	0.204	OK005	Stigler very fine sandy loam, 0 to 1 percent slopes	0.204
Gulf Coast	Oklahoma	Atoka	119.526	119.714	0.188	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.188
Gulf Coast	Oklahoma	Atoka	119.714	119.876	0.162	OK005	Bernow fine sandy loam, 0 to 1 percent slopes	0.162
Gulf Coast	Oklahoma	Atoka	119.876	120.175	0.299	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.299
Gulf Coast	Oklahoma	Atoka	120.175	120.224	0.049	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.049
Gulf Coast	Oklahoma	Atoka	120.224	120.384	0.159	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.159
Gulf Coast	Oklahoma	Atoka	120.384	120.432	0.049	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.049
Gulf Coast	Oklahoma	Atoka	120.432	120.609	0.177	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.177
Gulf Coast	Oklahoma	Atoka	120.609	120.909	0.299	OK005	Hamden fine sandy loam, 0 to 2 percent slopes	0.299
Gulf Coast	Oklahoma	Atoka	120.909	121.000	0.091	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.091
Gulf Coast	Oklahoma	Atoka	121.000	121.126	0.126	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.126
Gulf Coast	Oklahoma	Atoka	121.126	121.189	0.064	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.064
Gulf Coast	Oklahoma	Atoka	121.189	121.258	0.069	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.069

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	121.258	121.379	0.121	OK005	Bosville fine sandy loam, 3 to 5 percent slopes	0.121
Gulf Coast	Oklahoma	Atoka	121.379	121.501	0.122	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.122
Gulf Coast	Oklahoma	Atoka	121.501	121.551	0.050	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.050
Gulf Coast	Oklahoma	Atoka	121.551	121.617	0.066	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.066
Gulf Coast	Oklahoma	Atoka	121.617	121.676	0.059	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.059
Gulf Coast	Oklahoma	Atoka	121.676	121.778	0.101	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.101
Gulf Coast	Oklahoma	Atoka	121.778	121.848	0.071	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.071
Gulf Coast	Oklahoma	Atoka	121.848	122.175	0.326	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.326
Gulf Coast	Oklahoma	Atoka	122.175	122.197	0.023	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.023
Gulf Coast	Oklahoma	Atoka	122.197	122.315	0.118	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.118
Gulf Coast	Oklahoma	Atoka	122.315	122.462	0.147	OK005	Boggy fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.006
Gulf Coast	Oklahoma	Atoka	122.462	122.525	0.062	OK005	Guyton silt loam, 0 to 1 percent slopes, occasionally flooded	0.062
Gulf Coast	Oklahoma	Atoka	122.525	122.933	0.408	OK005	Boggy fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.016
Gulf Coast	Oklahoma	Atoka	122.933	123.085	0.152	OK005	Dela fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.006
Gulf Coast	Oklahoma	Atoka	123.085	123.171	0.086	OK005	Bernow-Romia complex, 8 to 12 percent slopes	0.086
Gulf Coast	Oklahoma	Atoka	123.171	123.194	0.023	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.023
Gulf Coast	Oklahoma	Atoka	123.194	123.231	0.037	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.037
Gulf Coast	Oklahoma	Atoka	123.231	123.435	0.204	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.204
Gulf Coast	Oklahoma	Atoka	123.435	123.455	0.020	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.020
Gulf Coast	Oklahoma	Atoka	123.455	123.556	0.100	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.100
Gulf Coast	Oklahoma	Atoka	123.556	123.598	0.043	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.043
Gulf Coast	Oklahoma	Atoka	123.598	123.712	0.114	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.114
Gulf Coast	Oklahoma	Atoka	123.712	123.821	0.109	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.109
Gulf Coast	Oklahoma	Atoka	123.821	123.911	0.090	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.090
Gulf Coast	Oklahoma	Atoka	123.911	124.159	0.248	OK005	Boggy fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.010
Gulf Coast	Oklahoma	Atoka	124.159	124.237	0.078	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.078
Gulf Coast	Oklahoma	Atoka	124.237	124.370	0.133	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.133
Gulf Coast	Oklahoma	Atoka	124.370	124.434	0.064	OK005	Boggy fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.003

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	124.434	124.502	0.068	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.068
Gulf Coast	Oklahoma	Atoka	124.502	124.641	0.139	OK005	Bosville fine sandy loam, 3 to 5 percent slopes	0.139
Gulf Coast	Oklahoma	Atoka	124.641	124.804	0.163	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.163
Gulf Coast	Oklahoma	Atoka	124.804	124.879	0.074	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.074
Gulf Coast	Oklahoma	Atoka	124.879	124.886	0.007	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.007
Gulf Coast	Oklahoma	Atoka	124.886	125.005	0.119	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.119
Gulf Coast	Oklahoma	Atoka	125.005	125.085	0.080	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.080
Gulf Coast	Oklahoma	Atoka	125.085	125.363	0.278	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.278
Gulf Coast	Oklahoma	Atoka	125.363	125.389	0.026	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.026
Gulf Coast	Oklahoma	Atoka	125.389	125.418	0.029	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.029
Gulf Coast	Oklahoma	Atoka	125.418	125.586	0.168	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.168
Gulf Coast	Oklahoma	Atoka	125.586	125.724	0.138	OK005	Boggy fine sandy loam, 0 to 1 percent slopes, frequently flooded	0.006
Gulf Coast	Oklahoma	Atoka	125.724	125.815	0.091	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.091
Gulf Coast	Oklahoma	Atoka	125.815	125.983	0.168	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.168
Gulf Coast	Oklahoma	Atoka	125.983	126.154	0.171	OK005	Larue loamy fine sand, 3 to 8 percent slopes	0.171
Gulf Coast	Oklahoma	Atoka	126.154	126.288	0.134	OK005	Dela fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.005
Gulf Coast	Oklahoma	Atoka	126.288	126.465	0.178	OK005	Guyton silt loam, 0 to 1 percent slopes, occasionally flooded	0.178
Gulf Coast	Oklahoma	Atoka	126.465	126.800	0.334	OK005	Kaufman clay, 0 to 1 percent slopes, occasionally flooded	0.334
Gulf Coast	Oklahoma	Atoka	126.800	126.848	0.048	OK005	Gowton clay loam, 0 to 1 percent slopes, occasionally flooded	0.044
Gulf Coast	Oklahoma	Atoka	126.848	126.867	0.019	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.017
Gulf Coast	Oklahoma	Atoka	126.879	126.908	0.028	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.026
Gulf Coast	Oklahoma	Atoka	126.908	127.012	0.104	OK005	Kaufman clay, 0 to 1 percent slopes, occasionally flooded	0.104
Gulf Coast	Oklahoma	Atoka	127.012	127.110	0.098	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.089
Gulf Coast	Oklahoma	Atoka	127.110	127.128	0.018	OK005	Gowton clay loam, 0 to 1 percent slopes, occasionally flooded	0.016
Gulf Coast	Oklahoma	Atoka	127.128	127.250	0.121	OK005	Kaufman clay, 0 to 1 percent slopes, occasionally flooded	0.121

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	127.250	127.286	0.037	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.033
Gulf Coast	Oklahoma	Atoka	127.286	127.327	0.040	OK005	Kaufman clay, 0 to 1 percent slopes, occasionally flooded	0.040
Gulf Coast	Oklahoma	Atoka	127.327	127.501	0.174	OK005	Dela fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.007
Gulf Coast	Oklahoma	Atoka	127.501	127.683	0.182	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.182
Gulf Coast	Oklahoma	Atoka	127.683	127.829	0.147	OK005	Larue loamy fine sand, 3 to 8 percent slopes	0.147
Gulf Coast	Oklahoma	Atoka	127.829	128.009	0.179	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.179
Gulf Coast	Oklahoma	Atoka	128.009	128.057	0.048	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.048
Gulf Coast	Oklahoma	Atoka	128.057	128.064	0.006	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.006
Gulf Coast	Oklahoma	Atoka	128.064	128.127	0.064	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.064
Gulf Coast	Oklahoma	Atoka	128.127	128.176	0.049	OK005	Bosville fine sandy loam, 3 to 5 percent slopes	0.049
Gulf Coast	Oklahoma	Atoka	128.176	128.227	0.051	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.051
Gulf Coast	Oklahoma	Atoka	128.227	128.297	0.070	OK005	Guyton silt loam, 0 to 1 percent slopes, occasionally flooded	0.070
Gulf Coast	Oklahoma	Atoka	128.297	128.473	0.177	OK005	Dela fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.007
Gulf Coast	Oklahoma	Atoka	128.473	128.565	0.092	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.092
Gulf Coast	Oklahoma	Atoka	128.565	128.599	0.033	OK005	Bernow-Romia complex, 8 to 12 percent slopes	0.033
Gulf Coast	Oklahoma	Atoka	128.599	128.700	0.102	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.102
Gulf Coast	Oklahoma	Atoka	128.700	128.849	0.148	OK005	Larue loamy fine sand, 3 to 8 percent slopes	0.148
Gulf Coast	Oklahoma	Atoka	128.849	128.883	0.035	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.035
Gulf Coast	Oklahoma	Atoka	128.883	128.931	0.048	OK005	Larue loamy fine sand, 3 to 8 percent slopes	0.048
Gulf Coast	Oklahoma	Atoka	128.931	128.951	0.020	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.020
Gulf Coast	Oklahoma	Atoka	128.951	129.186	0.235	OK005	Larue loamy fine sand, 3 to 8 percent slopes	0.235
Gulf Coast	Oklahoma	Atoka	129.186	129.232	0.046	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.046
Gulf Coast	Oklahoma	Atoka	129.232	129.274	0.042	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.042
Gulf Coast	Oklahoma	Atoka	129.274	129.554	0.280	OK005	Bernow-Romia complex, 8 to 12 percent slopes	0.280
Gulf Coast	Oklahoma	Atoka	129.554	129.570	0.015	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.015
Gulf Coast	Oklahoma	Atoka	129.570	129.597	0.027	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.027
Gulf Coast	Oklahoma	Atoka	129.597	129.826	0.229	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.229

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	129.826	129.922	0.095	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.095
Gulf Coast	Oklahoma	Atoka	129.922	130.109	0.188	OK005	Bernow-Romia complex, 8 to 12 percent slopes	0.188
Gulf Coast	Oklahoma	Atoka	130.109	130.133	0.023	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.023
Gulf Coast	Oklahoma	Atoka	130.133	130.172	0.040	OK005	Bernow-Romia complex, 8 to 12 percent slopes	0.040
Gulf Coast	Oklahoma	Atoka	130.172	130.218	0.046	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.046
Gulf Coast	Oklahoma	Atoka	130.218	130.282	0.064	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.064
Gulf Coast	Oklahoma	Atoka	130.282	130.382	0.101	OK005	Bernow fine sandy loam, 3 to 5 percent slopes	0.101
Gulf Coast	Oklahoma	Atoka	130.382	130.390	0.008	OK005	Bernow fine sandy loam, 1 to 3 percent slopes	0.008
Gulf Coast	Oklahoma	Atoka	130.390	130.470	0.079	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.079
Gulf Coast	Oklahoma	Atoka	130.470	130.562	0.092	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.092
Gulf Coast	Oklahoma	Atoka	130.562	130.587	0.024	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.024
Gulf Coast	Oklahoma	Atoka	130.587	130.619	0.032	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.032
Gulf Coast	Oklahoma	Atoka	130.619	130.646	0.027	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.027
Gulf Coast	Oklahoma	Atoka	130.646	130.799	0.153	OK005	Bernow fine sandy loam, 1 to 5 percent slopes, eroded	0.153
Gulf Coast	Oklahoma	Atoka	130.799	130.958	0.158	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.158
Gulf Coast	Oklahoma	Atoka	130.958	131.052	0.095	OK005	Hamden fine sandy loam, 0 to 2 percent slopes	0.095
Gulf Coast	Oklahoma	Atoka	131.052	131.124	0.071	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.071
Gulf Coast	Oklahoma	Atoka	131.124	131.191	0.067	OK005	Bernow fine sandy loam, 5 to 8 percent slopes	0.067
Gulf Coast	Oklahoma	Atoka	131.191	131.237	0.046	OK005	Larue loamy fine sand, 0 to 3 percent slopes	0.046
Gulf Coast	Oklahoma	Atoka	131.237	131.285	0.048	OK005	Dela fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.002
Gulf Coast	Oklahoma	Atoka	131.285	131.327	0.042	OK005	Gowton clay loam, 0 to 1 percent slopes, occasionally flooded	0.038
Gulf Coast	Oklahoma	Atoka	131.327	131.377	0.050	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.045
Gulf Coast	Oklahoma	Atoka	131.377	131.543	0.166	OK005	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.166
Gulf Coast	Oklahoma	Atoka	131.543	131.598	0.055	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.050
Gulf Coast	Oklahoma	Atoka	131.598	131.925	0.327	OK005	Bosville fine sandy loam, 3 to 5 percent slopes	0.327
Gulf Coast	Oklahoma	Atoka	131.925	132.019	0.093	OK005	Hamden fine sandy loam, 0 to 2 percent slopes	0.093

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Atoka	132.019	132.128	0.109	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.109
Gulf Coast	Oklahoma	Atoka	132.128	132.434	0.306	OK005	Claremore-Catoosa complex, 1 to 3 percent slopes	0.306
Gulf Coast	Oklahoma	Atoka	132.434	132.439	0.005	OK005	Durant loam, 1 to 3 percent slopes	0.005
Gulf Coast	Oklahoma	Atoka	132.439	132.675	0.236	OK005	Bosville fine sandy loam, 5 to 12 percent slopes	0.236
Gulf Coast	Oklahoma	Atoka	132.675	132.738	0.063	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.063
Gulf Coast	Oklahoma	Atoka	132.738	132.758	0.020	OK005	Tarrant cobbly clay, 1 to 8 percent slopes	0.020
Gulf Coast	Oklahoma	Atoka	132.758	132.770	0.013	OK005	Bernow fine sandy loam, 3 to 8 percent slopes, gullied	0.013
Gulf Coast	Oklahoma	Atoka	132.770	132.876	0.106	OK005	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.106
Gulf Coast	Oklahoma	Atoka	132.876	132.922	0.046	OK005	Kaufman-Gowton complex, 0 to 1 percent slopes, frequently flooded	0.041
Gulf Coast	Oklahoma	Atoka	132.922	132.930	0.008	OK005	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.008
Gulf Coast	Oklahoma	Atoka	132.930	133.027	0.097	OK005	Tarrant cobbly clay, 1 to 8 percent slopes	0.097
Gulf Coast	Oklahoma	Atoka	133.027	133.102	0.075	OK005	Heiden clay, 3 to 5 percent slopes	0.075
Gulf Coast	Oklahoma	Atoka	133.102	133.123	0.021	OK005	Tarrant cobbly clay, 1 to 8 percent slopes	0.021
Gulf Coast	Oklahoma	Bryan	133.123	133.172	0.049	OK013	Tarrant cobbly silty clay, 1 to 8 percent slopes	0.049
Gulf Coast	Oklahoma	Bryan	133.172	133.283	0.111	OK013	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.111
Gulf Coast	Oklahoma	Bryan	133.283	133.381	0.098	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.098
Gulf Coast	Oklahoma	Bryan	133.381	133.421	0.040	OK013	Heiden stony clay, 3 to 5 percent slopes	0.040
Gulf Coast	Oklahoma	Bryan	133.421	133.443	0.022	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.022
Gulf Coast	Oklahoma	Bryan	133.443	133.509	0.066	OK013	Heiden stony clay, 3 to 5 percent slopes	0.066
Gulf Coast	Oklahoma	Bryan	133.509	133.842	0.333	OK013	Burleson clay, 3 to 5 percent slopes	0.333
Gulf Coast	Oklahoma	Bryan	133.842	134.627	0.785	OK013	Heiden stony clay, 3 to 5 percent slopes	0.785
Gulf Coast	Oklahoma	Bryan	134.627	134.680	0.053	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.053
Gulf Coast	Oklahoma	Bryan	134.680	134.739	0.059	OK013	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.059
Gulf Coast	Oklahoma	Bryan	134.739	134.796	0.057	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.057
Gulf Coast	Oklahoma	Bryan	134.796	135.023	0.227	OK013	Heiden stony clay, 3 to 5 percent slopes	0.227
Gulf Coast	Oklahoma	Bryan	135.023	135.109	0.087	OK013	Burleson clay, 1 to 3 percent slopes	0.087
Gulf Coast	Oklahoma	Bryan	135.109	135.379	0.270	OK013	Ferris clay, 1 to 5 percent slopes, eroded	0.270

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	135.379	135.470	0.091	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.091
Gulf Coast	Oklahoma	Bryan	135.470	135.586	0.116	OK013	San Saba-Tarrant complex, 1 to 8 percent slopes	0.116
Gulf Coast	Oklahoma	Bryan	135.586	135.680	0.094	OK013	Ferris clay, 1 to 5 percent slopes, eroded	0.094
Gulf Coast	Oklahoma	Bryan	135.680	135.984	0.304	OK013	Burleson clay, 1 to 3 percent slopes	0.304
Gulf Coast	Oklahoma	Bryan	135.984	136.618	0.634	OK013	Ferris clay, 1 to 5 percent slopes, eroded	0.634
Gulf Coast	Oklahoma	Bryan	136.618	137.066	0.448	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.448
Gulf Coast	Oklahoma	Bryan	137.066	137.126	0.060	OK013	Frioton silty clay loam, 0 to 1 percent slopes, occasionally flooded	0.060
Gulf Coast	Oklahoma	Bryan	137.126	137.225	0.099	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.099
Gulf Coast	Oklahoma	Bryan	137.225	137.332	0.107	OK013	Tarrant cobbly silty clay, 1 to 8 percent slopes	0.107
Gulf Coast	Oklahoma	Bryan	137.332	137.365	0.032	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.032
Gulf Coast	Oklahoma	Bryan	137.365	137.443	0.078	OK013	Tarrant cobbly silty clay, 1 to 8 percent slopes	0.078
Gulf Coast	Oklahoma	Bryan	137.443	137.589	0.147	OK013	Burleson clay, 1 to 3 percent slopes	0.147
Gulf Coast	Oklahoma	Bryan	137.589	137.720	0.131	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.131
Gulf Coast	Oklahoma	Bryan	137.720	137.843	0.123	OK013	Burleson clay, 1 to 3 percent slopes	0.123
Gulf Coast	Oklahoma	Bryan	137.843	138.070	0.226	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.226
Gulf Coast	Oklahoma	Bryan	138.070	138.118	0.048	OK013	Heiden clay, 3 to 5 percent slopes	0.048
Gulf Coast	Oklahoma	Bryan	138.118	138.166	0.048	OK013	Frioton silty clay loam, 0 to 1 percent slopes, occasionally flooded	0.048
Gulf Coast	Oklahoma	Bryan	138.166	138.272	0.106	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.106
Gulf Coast	Oklahoma	Bryan	138.272	138.337	0.065	OK013	San Saba-Tarrant complex, 1 to 8 percent slopes	0.065
Gulf Coast	Oklahoma	Bryan	138.337	138.478	0.141	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.141
Gulf Coast	Oklahoma	Bryan	138.478	138.545	0.067	OK013	San Saba-Tarrant complex, 1 to 8 percent slopes	0.067
Gulf Coast	Oklahoma	Bryan	138.545	138.633	0.089	OK013	Woodson silt loam, 0 to 1 percent slopes	0.089
Gulf Coast	Oklahoma	Bryan	138.633	138.845	0.212	OK013	Durant loam, 3 to 5 percent slopes	0.212
Gulf Coast	Oklahoma	Bryan	138.845	138.974	0.128	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.128
Gulf Coast	Oklahoma	Bryan	138.974	139.153	0.180	OK013	Durant loam, 3 to 5 percent slopes	0.180
Gulf Coast	Oklahoma	Bryan	139.153	139.329	0.176	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.176
Gulf Coast	Oklahoma	Bryan	139.329	139.352	0.022	OK013	Dennis loam, 1 to 3 percent slopes	0.022
Gulf Coast	Oklahoma	Bryan	139.352	139.449	0.097	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.097

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	139.449	139.648	0.199	OK013	Durant loam, 3 to 5 percent slopes	0.199
Gulf Coast	Oklahoma	Bryan	139.648	139.700	0.053	OK013	Frioton silty clay loam, 0 to 1 percent slopes, occasionally flooded	0.053
Gulf Coast	Oklahoma	Bryan	139.700	139.765	0.065	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.065
Gulf Coast	Oklahoma	Bryan	139.765	140.034	0.269	OK013	Dennis loam, 1 to 3 percent slopes	0.269
Gulf Coast	Oklahoma	Bryan	140.034	140.085	0.051	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.051
Gulf Coast	Oklahoma	Bryan	140.085	140.206	0.121	OK013	Dennis loam, 1 to 3 percent slopes	0.121
Gulf Coast	Oklahoma	Bryan	140.206	140.209	0.003	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.003
Gulf Coast	Oklahoma	Bryan	140.209	140.210	0.001	OK013	Dennis loam, 1 to 3 percent slopes	0.001
Gulf Coast	Oklahoma	Bryan	140.210	140.263	0.053	OK013	Bosville fine sandy loam, 3 to 5 percent slopes	0.053
Gulf Coast	Oklahoma	Bryan	140.263	140.298	0.035	OK013	Bernow-Romia complex, 8 to 20 percent slopes	0.035
Gulf Coast	Oklahoma	Bryan	140.298	140.430	0.132	OK013	Bernow-Romia complex, 3 to 8 percent slopes	0.132
Gulf Coast	Oklahoma	Bryan	140.430	140.508	0.078	OK013	Larue loamy fine sand, 0 to 3 percent slopes	0.078
Gulf Coast	Oklahoma	Bryan	140.508	140.819	0.311	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.311
Gulf Coast	Oklahoma	Bryan	140.819	140.894	0.075	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.075
Gulf Coast	Oklahoma	Bryan	140.894	140.950	0.055	OK013	Bosville fine sandy loam, 3 to 5 percent slopes	0.055
Gulf Coast	Oklahoma	Bryan	140.950	141.003	0.054	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.054
Gulf Coast	Oklahoma	Bryan	141.003	141.112	0.108	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.108
Gulf Coast	Oklahoma	Bryan	141.112	141.239	0.128	OK013	Bosville fine sandy loam, 5 to 8 percent slopes	0.128
Gulf Coast	Oklahoma	Bryan	141.314	141.462	0.148	OK013	Bernow-Bosville complex, 3 to 5 percent slopes, eroded	0.148
Gulf Coast	Oklahoma	Bryan	141.462	141.498	0.036	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.036
Gulf Coast	Oklahoma	Bryan	141.498	141.558	0.061	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.061
Gulf Coast	Oklahoma	Bryan	141.558	141.792	0.233	OK013	Bernow fine sandy loam, 3 to 8 percent slopes, severely eroded	0.210
Gulf Coast	Oklahoma	Bryan	141.792	141.844	0.052	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.052
Gulf Coast	Oklahoma	Bryan	141.844	141.917	0.073	OK013	Bernow fine sandy loam, 3 to 8 percent slopes, severely eroded	0.066
Gulf Coast	Oklahoma	Bryan	141.917	142.031	0.115	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.115
Gulf Coast	Oklahoma	Bryan	142.031	142.124	0.093	OK013	Bernow fine sandy loam, 5 to 8 percent slopes	0.093
Gulf Coast	Oklahoma	Bryan	142.124	142.360	0.236	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.236
Gulf Coast	Oklahoma	Bryan	142.360	142.660	0.300	OK013	Dennis loam, 1 to 3 percent slopes	0.300

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	142.660	143.100	0.440	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.440
Gulf Coast	Oklahoma	Bryan	143.100	143.173	0.073	OK013	Dennis loam, 3 to 5 percent slopes	0.073
Gulf Coast	Oklahoma	Bryan	143.173	143.414	0.241	OK013	Durant loam, 1 to 3 percent slopes	0.241
Gulf Coast	Oklahoma	Bryan	143.414	143.429	0.016	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.016
Gulf Coast	Oklahoma	Bryan	143.429	143.447	0.018	OK013	Dennis loam, 1 to 3 percent slopes	0.018
Gulf Coast	Oklahoma	Bryan	143.447	143.507	0.061	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.061
Gulf Coast	Oklahoma	Bryan	143.507	143.543	0.036	OK013	Dennis loam, 1 to 3 percent slopes	0.036
Gulf Coast	Oklahoma	Bryan	143.543	143.647	0.104	OK013	Dennis loam, 3 to 5 percent slopes	0.104
Gulf Coast	Oklahoma	Bryan	143.647	143.743	0.096	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.096
Gulf Coast	Oklahoma	Bryan	143.743	143.862	0.119	OK013	Dennis loam, 3 to 5 percent slopes	0.119
Gulf Coast	Oklahoma	Bryan	143.862	143.940	0.078	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.078
Gulf Coast	Oklahoma	Bryan	143.940	144.045	0.105	OK013	Dennis loam, 3 to 5 percent slopes	0.105
Gulf Coast	Oklahoma	Bryan	144.045	144.124	0.079	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.079
Gulf Coast	Oklahoma	Bryan	144.124	144.242	0.119	OK013	Bates fine sandy loam, 1 to 3 percent slopes	0.119
Gulf Coast	Oklahoma	Bryan	144.242	144.267	0.025	OK013	Dennis loam, 3 to 5 percent slopes	0.025
Gulf Coast	Oklahoma	Bryan	144.267	144.309	0.042	OK013	Durant loam, 1 to 3 percent slopes	0.042
Gulf Coast	Oklahoma	Bryan	144.309	144.398	0.090	OK013	Ferris-Tarrant complex, 8 to 20 percent slopes	0.090
Gulf Coast	Oklahoma	Bryan	144.398	144.472	0.073	OK013	Matoy silty clay loam, 1 to 3 percent slopes	0.073
Gulf Coast	Oklahoma	Bryan	144.472	144.564	0.092	OK013	Dennis loam, 1 to 3 percent slopes	0.092
Gulf Coast	Oklahoma	Bryan	144.564	144.767	0.203	OK013	Heiden clay, 3 to 5 percent slopes	0.203
Gulf Coast	Oklahoma	Bryan	144.767	144.873	0.106	OK013	Dennis loam, 1 to 3 percent slopes	0.106
Gulf Coast	Oklahoma	Bryan	144.873	144.878	0.005	OK013	Dennis loam, 3 to 5 percent slopes	0.005
Gulf Coast	Oklahoma	Bryan	144.878	144.962	0.084	OK013	Bosville fine sandy loam, 3 to 5 percent slopes	0.084
Gulf Coast	Oklahoma	Bryan	144.962	144.980	0.018	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.018
Gulf Coast	Oklahoma	Bryan	144.980	145.076	0.096	OK013	Bosville fine sandy loam, 3 to 5 percent slopes	0.096
Gulf Coast	Oklahoma	Bryan	145.076	145.152	0.076	OK013	Bernow-Romia complex, 3 to 8 percent slopes	0.076
Gulf Coast	Oklahoma	Bryan	145.152	145.199	0.046	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.046
Gulf Coast	Oklahoma	Bryan	145.199	145.258	0.059	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.059

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	145.258	145.338	0.080	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.080
Gulf Coast	Oklahoma	Bryan	145.338	145.405	0.067	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.067
Gulf Coast	Oklahoma	Bryan	145.405	145.454	0.049	OK013	Bosville fine sandy loam, 3 to 5 percent slopes	0.049
Gulf Coast	Oklahoma	Bryan	145.454	145.525	0.072	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.072
Gulf Coast	Oklahoma	Bryan	145.525	145.563	0.038	OK013	Bosville fine sandy loam, 3 to 5 percent slopes	0.038
Gulf Coast	Oklahoma	Bryan	145.563	145.803	0.240	OK013	Verdigris silty clay loam, 0 to 1 percent slopes, occasionally flooded	0.240
Gulf Coast	Oklahoma	Bryan	145.803	145.862	0.059	OK013	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.059
Gulf Coast	Oklahoma	Bryan	145.862	146.017	0.155	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.155
Gulf Coast	Oklahoma	Bryan	146.017	146.075	0.058	OK013	Bernow-Romia complex, 3 to 8 percent slopes	0.058
Gulf Coast	Oklahoma	Bryan	146.075	146.161	0.085	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.085
Gulf Coast	Oklahoma	Bryan	146.161	146.218	0.058	OK013	Bernow-Romia complex, 3 to 8 percent slopes	0.058
Gulf Coast	Oklahoma	Bryan	146.218	146.249	0.031	OK013	Gowton loam, 0 to 1 percent slopes, occasionally flooded	0.031
Gulf Coast	Oklahoma	Bryan	146.249	146.341	0.091	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.091
Gulf Coast	Oklahoma	Bryan	146.341	146.528	0.188	OK013	Bernow loamy fine sand, 3 to 8 percent slopes	0.188
Gulf Coast	Oklahoma	Bryan	146.528	146.644	0.115	OK013	Freestone fine sandy loam, 1 to 5 percent slopes	0.115
Gulf Coast	Oklahoma	Bryan	146.644	146.752	0.108	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.108
Gulf Coast	Oklahoma	Bryan	146.752	146.918	0.166	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.166
Gulf Coast	Oklahoma	Bryan	146.998	147.118	0.120	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.120
Gulf Coast	Oklahoma	Bryan	147.118	147.138	0.021	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.021
Gulf Coast	Oklahoma	Bryan	147.138	147.148	0.009	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.009
Gulf Coast	Oklahoma	Bryan	147.148	147.333	0.185	OK013	Muskogee silt loam, 0 to 1 percent slopes	0.185
Gulf Coast	Oklahoma	Bryan	147.333	147.420	0.087	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.087
Gulf Coast	Oklahoma	Bryan	147.420	147.640	0.220	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.220
Gulf Coast	Oklahoma	Bryan	147.640	147.679	0.039	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.039
Gulf Coast	Oklahoma	Bryan	147.679	147.826	0.147	OK013	Durant loam, 1 to 3 percent slopes	0.147
Gulf Coast	Oklahoma	Bryan	147.826	148.478	0.653	OK013	Dennis loam, 1 to 3 percent slopes	0.653
Gulf Coast	Oklahoma	Bryan	148.478	148.589	0.111	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.111

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	148.589	148.675	0.086	OK013	Dennis loam, 1 to 3 percent slopes	0.086
Gulf Coast	Oklahoma	Bryan	148.675	148.741	0.065	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.065
Gulf Coast	Oklahoma	Bryan	148.741	148.752	0.011	OK013	Dennis loam, 1 to 3 percent slopes	0.011
Gulf Coast	Oklahoma	Bryan	148.752	148.913	0.161	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.161
Gulf Coast	Oklahoma	Bryan	148.913	149.158	0.245	OK013	Dennis loam, 1 to 3 percent slopes	0.245
Gulf Coast	Oklahoma	Bryan	149.158	149.201	0.043	OK013	Dennis loam, 3 to 5 percent slopes	0.043
Gulf Coast	Oklahoma	Bryan	149.201	149.270	0.069	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.069
Gulf Coast	Oklahoma	Bryan	149.270	149.367	0.097	OK013	Durant loam, 1 to 3 percent slopes	0.097
Gulf Coast	Oklahoma	Bryan	149.367	149.751	0.384	OK013	Dennis loam, 1 to 3 percent slopes	0.384
Gulf Coast	Oklahoma	Bryan	149.751	149.770	0.020	OK013	Crockett loam, 1 to 5 percent slopes, severely eroded	0.018
Gulf Coast	Oklahoma	Bryan	149.770	149.826	0.056	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.056
Gulf Coast	Oklahoma	Bryan	149.826	150.042	0.216	OK013	Dennis loam, 3 to 5 percent slopes	0.216
Gulf Coast	Oklahoma	Bryan	150.042	150.141	0.100	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.100
Gulf Coast	Oklahoma	Bryan	150.141	150.248	0.106	OK013	Dennis loam, 1 to 3 percent slopes	0.106
Gulf Coast	Oklahoma	Bryan	150.248	150.325	0.077	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.077
Gulf Coast	Oklahoma	Bryan	150.325	150.390	0.065	OK013	Dennis loam, 1 to 3 percent slopes	0.065
Gulf Coast	Oklahoma	Bryan	150.390	150.440	0.050	OK013	Dennis loam, 3 to 5 percent slopes	0.050
Gulf Coast	Oklahoma	Bryan	150.440	150.646	0.206	OK013	Dennis loam, 1 to 3 percent slopes	0.206
Gulf Coast	Oklahoma	Bryan	150.646	150.692	0.046	OK013	Dennis loam, 3 to 5 percent slopes	0.046
Gulf Coast	Oklahoma	Bryan	150.692	150.803	0.111	OK013	Dennis loam, 1 to 3 percent slopes	0.111
Gulf Coast	Oklahoma	Bryan	150.803	150.838	0.035	OK013	Dennis loam, 3 to 5 percent slopes	0.035
Gulf Coast	Oklahoma	Bryan	150.838	150.943	0.105	OK013	Dennis loam, 1 to 3 percent slopes	0.105
Gulf Coast	Oklahoma	Bryan	150.943	151.043	0.100	OK013	Fitzhugh-Bates complex, 1 to 5 percent slopes, eroded	0.100
Gulf Coast	Oklahoma	Bryan	151.043	151.208	0.165	OK013	Durant loam, 1 to 3 percent slopes	0.165
Gulf Coast	Oklahoma	Bryan	151.208	151.341	0.133	OK013	Crockett-Durant complex, 1 to 5 percent slopes, eroded	0.133
Gulf Coast	Oklahoma	Bryan	151.341	151.364	0.023	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.023
Gulf Coast	Oklahoma	Bryan	151.364	151.515	0.152	OK013	Durant loam, 1 to 3 percent slopes	0.152
Gulf Coast	Oklahoma	Bryan	151.515	151.547	0.031	OK013	Durant-Verdigris complex, 0 to 5 percent slopes	0.031

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	151.547	151.576	0.030	OK013	Durant loam, 1 to 3 percent slopes	0.030
Gulf Coast	Oklahoma	Bryan	151.576	151.834	0.257	OK013	Dennis loam, 1 to 3 percent slopes	0.257
Gulf Coast	Oklahoma	Bryan	151.834	152.151	0.317	OK013	Dennis loam, 3 to 5 percent slopes	0.317
Gulf Coast	Oklahoma	Bryan	152.151	152.230	0.079	OK013	Dennis loam, 1 to 3 percent slopes	0.079
Gulf Coast	Oklahoma	Bryan	152.230	152.254	0.024	OK013	Dennis loam, 3 to 5 percent slopes	0.024
Gulf Coast	Oklahoma	Bryan	152.254	152.296	0.043	OK013	Dennis loam, 1 to 3 percent slopes	0.043
Gulf Coast	Oklahoma	Bryan	152.296	152.405	0.109	OK013	Crockett-Durant complex, 1 to 5 percent slopes, eroded	0.109
Gulf Coast	Oklahoma	Bryan	152.405	152.431	0.026	OK013	Crockett loam, 1 to 5 percent slopes, severely eroded	0.023
Gulf Coast	Oklahoma	Bryan	152.431	152.513	0.082	OK013	Crockett-Durant complex, 1 to 5 percent slopes, eroded	0.082
Gulf Coast	Oklahoma	Bryan	152.513	152.631	0.118	OK013	Durant loam, 1 to 3 percent slopes	0.118
Gulf Coast	Oklahoma	Bryan	152.631	152.730	0.099	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.099
Gulf Coast	Oklahoma	Bryan	152.730	152.752	0.022	OK013	Madill fine sandy loam, 0 to 1 percent slopes, occasionally flooded	0.002
Gulf Coast	Oklahoma	Bryan	152.752	152.929	0.177	OK013	Boxville fine sandy loam, 3 to 8 percent slopes	0.177
Gulf Coast	Oklahoma	Bryan	152.929	152.975	0.046	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.046
Gulf Coast	Oklahoma	Bryan	152.975	153.027	0.053	OK013	Muskogee silt loam, 0 to 1 percent slopes	0.053
Gulf Coast	Oklahoma	Bryan	153.027	153.337	0.310	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.310
Gulf Coast	Oklahoma	Bryan	153.337	153.538	0.201	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.201
Gulf Coast	Oklahoma	Bryan	153.538	153.723	0.185	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.185
Gulf Coast	Oklahoma	Bryan	153.723	153.787	0.065	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.065
Gulf Coast	Oklahoma	Bryan	153.787	153.864	0.077	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.077
Gulf Coast	Oklahoma	Bryan	153.864	153.916	0.051	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.051
Gulf Coast	Oklahoma	Bryan	153.916	154.008	0.092	OK013	Bernow fine sandy loam, 1 to 3 percent slopes	0.092
Gulf Coast	Oklahoma	Bryan	154.008	154.052	0.044	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.044
Gulf Coast	Oklahoma	Bryan	154.052	154.094	0.042	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.042
Gulf Coast	Oklahoma	Bryan	154.094	154.393	0.299	OK013	Bernow fine sandy loam, 3 to 5 percent slopes	0.299
Gulf Coast	Oklahoma	Bryan	154.393	154.531	0.138	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.138
Gulf Coast	Oklahoma	Bryan	154.531	154.679	0.148	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.148
Gulf Coast	Oklahoma	Bryan	154.679	154.719	0.040	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.040

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Oklahoma	Bryan	154.719	154.881	0.163	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.163
Gulf Coast	Oklahoma	Bryan	154.881	154.901	0.020	OK013	Bernow fine sandy loam, 8 to 12 percent slopes	0.020
Gulf Coast	Oklahoma	Bryan	154.901	155.175	0.274	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.274
Gulf Coast	Oklahoma	Bryan	155.175	155.246	0.071	OK013	Boxville fine sandy loam, 3 to 8 percent slopes	0.071
Gulf Coast	Oklahoma	Bryan	155.246	155.338	0.093	OK013	Muskogee silt loam, 1 to 3 percent slopes	0.093
Gulf Coast	Oklahoma	Bryan	155.338	155.437	0.099	OK013	Boxville fine sandy loam, 1 to 3 percent slopes	0.099
Gulf Coast	Oklahoma	Bryan	155.437	155.542	0.105	OK013	Boxville fine sandy loam, 3 to 8 percent slopes	0.105
Gulf Coast	Oklahoma	Bryan	155.542	155.668	0.126	OK013	Karma fine sandy loam, 1 to 3 percent slopes	0.126
Gulf Coast	Oklahoma	Bryan	155.668	155.680	0.012	OK013	Severn fine sandy loam, 0 to 1 percent slopes, rarely flooded	0.001
Gulf Coast	Oklahoma	Bryan	155.680	155.696	0.016	OK013	Severn fine sandy loam, 0 to 1 percent slopes, rarely flooded	0.002
Gulf Coast	Texas	Fannin	156.235	156.512	0.278	TX147	Norwood silt loam, rarely flooded	0.278
Gulf Coast	Texas	Fannin	156.512	156.839	0.327	TX147	Severn silt loam, rarely flooded	0.327
Gulf Coast	Texas	Fannin	156.839	157.940	1.100	TX147	Norwood silt loam, rarely flooded	1.100
Gulf Coast	Texas	Fannin	157.940	158.199	0.259	TX147	Karma loam, 0 to 2 percent slopes	0.246
Gulf Coast	Texas	Fannin	158.199	158.488	0.289	TX147	Redlake clay, rarely flooded	0.289
Gulf Coast	Texas	Fannin	158.488	158.703	0.215	TX147	Karma loam, 0 to 2 percent slopes	0.204
Gulf Coast	Texas	Fannin	158.703	159.010	0.307	TX147	Okay loam, 0 to 1 percent slopes	0.307
Gulf Coast	Texas	Fannin	159.010	160.524	1.514	TX147	Muldrow clay loam, rarely flooded	1.287
Gulf Coast	Texas	Fannin	160.524	160.911	0.387	TX147	Okay loam, 0 to 1 percent slopes	0.387
Gulf Coast	Texas	Fannin	160.911	161.108	0.197	TX147	Karma loam, 5 to 12 percent slopes, eroded	0.197
Gulf Coast	Texas	Fannin	161.108	161.283	0.174	TX147	Karma loam, 0 to 2 percent slopes	0.166
Gulf Coast	Texas	Fannin	161.283	161.347	0.064	TX147	Karma loam, 5 to 12 percent slopes, eroded	0.064
Gulf Coast	Texas	Fannin	161.347	162.030	0.683	TX147	Redlake clay, rarely flooded	0.683
Gulf Coast	Texas	Lamar	162.046	162.059	0.013	TX614	Desha clay, 0 to 1 percent slopes, frequently flooded	0.012
Gulf Coast	Texas	Lamar	162.059	162.122	0.063	TX614	Whakana fine sandy loam, 5 to 12 percent slopes	0.060
Gulf Coast	Texas	Lamar	162.122	162.761	0.639	TX614	Karma fine sandy loam, 0 to 1 percent slopes	0.607
Gulf Coast	Texas	Lamar	162.761	162.874	0.113	TX614	Derly-Raino complex, 0 to 1 percent slopes	0.102
Gulf Coast	Texas	Lamar	162.874	163.345	0.471	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.400

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Lamar	163.345	163.377	0.032	TX614	Derly-Raino complex, 0 to 1 percent slopes	0.029
Gulf Coast	Texas	Lamar	163.377	164.024	0.647	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.550
Gulf Coast	Texas	Lamar	164.024	164.475	0.451	TX614	Whakana fine sandy loam, 1 to 5 percent slopes	0.429
Gulf Coast	Texas	Lamar	164.475	164.898	0.422	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.359
Gulf Coast	Texas	Lamar	164.898	165.011	0.113	TX614	Whakana fine sandy loam, 1 to 5 percent slopes	0.108
Gulf Coast	Texas	Lamar	165.011	165.042	0.031	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.026
Gulf Coast	Texas	Lamar	165.042	165.273	0.231	TX614	Whakana fine sandy loam, 1 to 5 percent slopes	0.219
Gulf Coast	Texas	Lamar	165.273	165.304	0.031	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.026
Gulf Coast	Texas	Lamar	165.304	165.416	0.113	TX614	Whakana fine sandy loam, 1 to 5 percent slopes	0.107
Gulf Coast	Texas	Lamar	165.416	165.502	0.086	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.073
Gulf Coast	Texas	Lamar	165.502	165.544	0.042	TX614	Whakana fine sandy loam, 1 to 5 percent slopes	0.040
Gulf Coast	Texas	Lamar	165.544	166.081	0.537	TX614	Whakana-Porum complex, 8 to 20 percent slopes	0.456
Gulf Coast	Texas	Lamar	166.081	166.278	0.197	TX614	Guyton silt loam, 0 to 1 percent slopes, frequently flooded	0.187
Gulf Coast	Texas	Lamar	166.278	166.440	0.162	TX614	Woodtell loam, 5 to 12 percent slopes	0.154
Gulf Coast	Texas	Lamar	166.440	166.739	0.300	TX614	Freestone-Hicota complex, 0 to 3 percent slopes	0.291
Gulf Coast	Texas	Lamar	166.739	166.980	0.241	TX614	Woodtell loam, 5 to 12 percent slopes	0.229
Gulf Coast	Texas	Lamar	166.980	167.224	0.244	TX614	Freestone-Hicota complex, 0 to 3 percent slopes	0.236
Gulf Coast	Texas	Lamar	167.224	167.339	0.115	TX614	Annona loam, 1 to 4 percent slopes	0.115
Gulf Coast	Texas	Lamar	167.339	167.671	0.332	TX614	Freestone-Hicota complex, 0 to 3 percent slopes	0.322
Gulf Coast	Texas	Lamar	167.671	167.728	0.057	TX614	Annona loam, 1 to 4 percent slopes	0.057
Gulf Coast	Texas	Lamar	167.728	168.127	0.399	TX614	Freestone-Hicota complex, 0 to 3 percent slopes	0.387
Gulf Coast	Texas	Lamar	168.127	168.148	0.021	TX614	Derly-Raino complex, 0 to 1 percent slopes	0.019
Gulf Coast	Texas	Lamar	168.148	168.740	0.592	TX614	Freestone-Hicota complex, 0 to 3 percent slopes	0.574
Gulf Coast	Texas	Lamar	168.740	168.797	0.057	TX614	Annona loam, 1 to 4 percent slopes	0.057
Gulf Coast	Texas	Lamar	168.797	169.007	0.210	TX614	Woodtell loam, 5 to 12 percent slopes	0.199
Gulf Coast	Texas	Lamar	169.007	169.103	0.096	TX614	Derly-Raino complex, 0 to 1 percent slopes	0.087
Gulf Coast	Texas	Lamar	169.103	169.220	0.117	TX614	Woodtell loam, 5 to 12 percent slopes	0.111
Gulf Coast	Texas	Lamar	169.220	169.558	0.338	TX614	Lassiter silt loam, 0 to 1 percent slopes, frequently flooded	0.338

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Lamar	169.558	169.725	0.167	TX614	Woodtell loam, 5 to 12 percent slopes	0.159
Gulf Coast	Texas	Lamar	169.725	169.849	0.124	TX614	Freestone-Hicota complex, 0 to 3 percent slopes	0.120
Gulf Coast	Texas	Lamar	169.849	170.191	0.342	TX614	Crockett loam, 1 to 3 percent slopes	0.324
Gulf Coast	Texas	Lamar	170.191	170.476	0.285	TX614	Annona loam, 1 to 4 percent slopes	0.285
Gulf Coast	Texas	Lamar	170.476	170.546	0.070	TX614	Derly silt loam, 0 to 1 percent slopes	0.063
Gulf Coast	Texas	Lamar	170.546	170.871	0.325	TX614	Annona loam, 1 to 4 percent slopes	0.325
Gulf Coast	Texas	Lamar	170.871	171.238	0.367	TX614	Roxton clay, 0 to 1 percent slopes, frequently flooded	0.349
Gulf Coast	Texas	Lamar	171.238	171.280	0.042	TX614	Normangee clay loam, 2 to 6 percent slopes, eroded	0.042
Gulf Coast	Texas	Lamar	171.280	171.334	0.054	TX614	Roxton clay, 0 to 1 percent slopes, frequently flooded	0.051
Gulf Coast	Texas	Lamar	171.334	171.640	0.306	TX614	Normangee clay loam, 2 to 6 percent slopes, eroded	0.306
Gulf Coast	Texas	Lamar	171.640	171.910	0.270	TX614	Crockett loam, 1 to 3 percent slopes	0.256
Gulf Coast	Texas	Lamar	171.910	172.106	0.196	TX614	Mabank-Crockett complex, 0 to 1 percent slopes	0.183
Gulf Coast	Texas	Lamar	172.106	172.387	0.281	TX614	Crockett loam, 1 to 3 percent slopes	0.267
Gulf Coast	Texas	Lamar	172.387	172.623	0.236	TX614	Mabank-Crockett complex, 0 to 1 percent slopes	0.220
Gulf Coast	Texas	Lamar	172.623	172.759	0.136	TX614	Lassiter silt loam, 0 to 1 percent slopes, frequently flooded	0.136
Gulf Coast	Texas	Lamar	172.759	172.892	0.132	TX614	Crockett loam, 1 to 3 percent slopes	0.126
Gulf Coast	Texas	Lamar	172.892	172.945	0.053	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.049
Gulf Coast	Texas	Lamar	172.945	173.036	0.091	TX614	Normangee clay loam, 1 to 3 percent slopes	0.082
Gulf Coast	Texas	Lamar	173.036	173.260	0.224	TX614	Crockett loam, 1 to 3 percent slopes	0.212
Gulf Coast	Texas	Lamar	173.260	173.389	0.129	TX614	Parisian silt loam, 1 to 3 percent slopes	0.123
Gulf Coast	Texas	Lamar	173.389	173.454	0.065	TX614	Woodtell loam, 5 to 12 percent slopes	0.062
Gulf Coast	Texas	Lamar	173.454	173.523	0.068	TX614	Crockett loam, 1 to 3 percent slopes	0.065
Gulf Coast	Texas	Lamar	173.523	173.677	0.154	TX614	Mabank-Crockett complex, 0 to 1 percent slopes	0.143
Gulf Coast	Texas	Lamar	173.677	174.072	0.395	TX614	Crockett loam, 1 to 3 percent slopes	0.375
Gulf Coast	Texas	Lamar	174.072	174.121	0.049	TX614	Wilson silty loam, 0 to 2 percent slopes	0.047
Gulf Coast	Texas	Lamar	174.121	174.272	0.150	TX614	Lassiter silt loam, 0 to 1 percent slopes, frequently flooded	0.150
Gulf Coast	Texas	Lamar	174.272	174.938	0.666	TX614	Crockett loam, 1 to 3 percent slopes	0.633
Gulf Coast	Texas	Lamar	174.938	175.124	0.186	TX614	Normangee clay loam, 2 to 6 percent slopes, eroded	0.186

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Lamar	175.124	175.345	0.221	TX614	Crockett loam, 1 to 3 percent slopes	0.210
Gulf Coast	Texas	Lamar	175.345	175.395	0.051	TX614	Normangee clay loam, 2 to 6 percent slopes, eroded	0.051
Gulf Coast	Texas	Lamar	175.395	175.476	0.081	TX614	Crockett loam, 1 to 3 percent slopes	0.077
Gulf Coast	Texas	Lamar	175.476	176.167	0.690	TX614	Wilson silty loam, 0 to 2 percent slopes	0.656
Gulf Coast	Texas	Lamar	176.167	176.268	0.101	TX614	Crockett loam, 1 to 3 percent slopes	0.096
Gulf Coast	Texas	Lamar	176.268	176.359	0.092	TX614	Parisian silt loam, 1 to 3 percent slopes	0.087
Gulf Coast	Texas	Lamar	176.359	176.453	0.094	TX614	Lassiter silt loam, 0 to 1 percent slopes, frequently flooded	0.094
Gulf Coast	Texas	Lamar	176.453	176.479	0.026	TX614	Wilson silty loam, 0 to 2 percent slopes	0.025
Gulf Coast	Texas	Lamar	176.479	177.137	0.657	TX614	Normangee clay loam, 1 to 3 percent slopes	0.592
Gulf Coast	Texas	Lamar	177.137	177.205	0.068	TX614	Wilson silty loam, 0 to 2 percent slopes	0.065
Gulf Coast	Texas	Lamar	177.205	178.060	0.855	TX614	Normangee clay loam, 1 to 3 percent slopes	0.769
Gulf Coast	Texas	Lamar	178.060	178.116	0.056	TX614	Houston Black clay, 1 to 3 percent slopes	0.053
Gulf Coast	Texas	Lamar	178.116	178.446	0.330	TX614	Heiden clay, 2 to 5 percent slopes	0.313
Gulf Coast	Texas	Lamar	178.446	180.262	1.816	TX614	Houston Black clay, 1 to 3 percent slopes	1.725
Gulf Coast	Texas	Lamar	180.262	180.864	0.603	TX614	Houston Black clay, 0 to 1 percent slopes	0.573
Gulf Coast	Texas	Lamar	180.864	181.267	0.403	TX614	Houston Black clay, 1 to 3 percent slopes	0.383
Gulf Coast	Texas	Lamar	181.267	181.387	0.120	TX614	Houston Black clay, 0 to 1 percent slopes	0.114
Gulf Coast	Texas	Lamar	181.387	181.679	0.292	TX614	Houston Black clay, 1 to 3 percent slopes	0.277
Gulf Coast	Texas	Lamar	181.679	181.689	0.009	TX614	Austin silty clay, 1 to 3 percent slopes	0.009
Gulf Coast	Texas	Lamar	181.689	182.021	0.333	TX614	Stephen silty clay, 1 to 3 percent slopes	0.316
Gulf Coast	Texas	Lamar	182.021	182.082	0.061	TX614	Houston Black clay, 1 to 3 percent slopes	0.058
Gulf Coast	Texas	Lamar	182.082	182.188	0.106	TX614	Leson clay, 1 to 3 percent slopes	0.101
Gulf Coast	Texas	Lamar	182.188	182.401	0.213	TX614	Stephen-Eddy complex, 2 to 5 percent slopes	0.179
Gulf Coast	Texas	Lamar	182.401	182.987	0.586	TX614	Austin silty clay, 1 to 3 percent slopes	0.557
Gulf Coast	Texas	Lamar	182.987	183.305	0.319	TX614	Houston Black clay, 1 to 3 percent slopes	0.303
Gulf Coast	Texas	Lamar	183.305	183.383	0.078	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.071
Gulf Coast	Texas	Lamar	183.383	183.387	0.004	TX614	Houston Black clay, 1 to 3 percent slopes	0.004
Gulf Coast	Texas	Lamar	183.387	183.397	0.009	TX614	Heiden clay, 2 to 5 percent slopes	0.009

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Lamar	183.397	183.562	0.166	TX614	Houston Black clay, 1 to 3 percent slopes	0.157
Gulf Coast	Texas	Lamar	183.562	183.677	0.115	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.106
Gulf Coast	Texas	Lamar	183.677	183.852	0.175	TX614	Houston Black clay, 1 to 3 percent slopes	0.166
Gulf Coast	Texas	Lamar	183.852	184.270	0.418	TX614	Ferris clay, 5 to 12 percent slopes, eroded	0.397
Gulf Coast	Texas	Lamar	184.270	184.388	0.118	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.108
Gulf Coast	Texas	Lamar	184.388	184.797	0.410	TX614	Ferris clay, 5 to 12 percent slopes, eroded	0.389
Gulf Coast	Texas	Lamar	184.797	184.956	0.159	TX614	Houston Black clay, 1 to 3 percent slopes	0.151
Gulf Coast	Texas	Lamar	184.956	185.034	0.078	TX614	Ferris clay, 5 to 12 percent slopes, eroded	0.074
Gulf Coast	Texas	Lamar	185.034	185.146	0.113	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.104
Gulf Coast	Texas	Lamar	185.146	185.783	0.637	TX614	Ferris clay, 5 to 12 percent slopes, eroded	0.605
Gulf Coast	Texas	Lamar	185.783	186.037	0.254	TX614	Houston Black clay, 1 to 3 percent slopes	0.241
Gulf Coast	Texas	Lamar	186.037	186.059	0.022	TX614	Elbon silty clay loam, 0 to 1 percent slopes, frequently flooded	0.021
Gulf Coast	Texas	Lamar	186.059	186.335	0.276	TX614	Houston Black clay, 1 to 3 percent slopes	0.262
Gulf Coast	Texas	Lamar	186.335	186.607	0.273	TX614	Elbon silty clay loam, 0 to 1 percent slopes, frequently flooded	0.259
Gulf Coast	Texas	Lamar	186.607	186.762	0.155	TX614	Houston Black clay, 1 to 3 percent slopes	0.147
Gulf Coast	Texas	Lamar	186.762	186.817	0.054	TX614	Lamar clay loam, 5 to 8 percent slopes	0.052
Gulf Coast	Texas	Lamar	186.817	186.906	0.090	TX614	Leson clay, 1 to 3 percent slopes	0.085
Gulf Coast	Texas	Lamar	186.906	187.081	0.175	TX614	Lamar clay loam, 5 to 8 percent slopes	0.167
Gulf Coast	Texas	Lamar	187.081	187.266	0.184	TX614	Elbon silty clay loam, 0 to 1 percent slopes, frequently flooded	0.175
Gulf Coast	Texas	Lamar	187.266	187.820	0.554	TX614	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.499
Gulf Coast	Texas	Lamar	187.820	187.951	0.131	TX614	Houston Black clay, 1 to 3 percent slopes	0.125
Gulf Coast	Texas	Lamar	187.951	188.415	0.463	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.426
Gulf Coast	Texas	Lamar	188.415	188.754	0.340	TX614	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.306
Gulf Coast	Texas	Lamar	188.754	188.994	0.239	TX614	Houston Black clay, 1 to 3 percent slopes	0.227
Gulf Coast	Texas	Lamar	188.994	189.005	0.011	TX614	Heiden clay, 2 to 5 percent slopes	0.011
Gulf Coast	Texas	Lamar	189.005	189.061	0.056	TX614	Houston Black clay, 1 to 3 percent slopes	0.053
Gulf Coast	Texas	Lamar	189.061	190.131	1.070	TX614	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.963
Gulf Coast	Texas	Lamar	190.131	190.449	0.318	TX614	Trinity clay, 0 to 1 percent slopes, frequently flooded	0.302

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Lamar	190.449	190.754	0.305	TX614	Trinity clay, 0 to 1 percent slopes, occasionally flooded	0.275
Gulf Coast	Texas	Delta	190.812	191.966	1.154	TX614	Trinity clay, 0 to 1 percent slopes, occasionally flooded	1.039
Gulf Coast	Texas	Delta	191.966	192.051	0.085	TX614	Houston Black clay, 1 to 3 percent slopes	0.081
Gulf Coast	Texas	Delta	192.051	192.134	0.083	TX614	Heiden clay, 2 to 5 percent slopes	0.078
Gulf Coast	Texas	Delta	192.134	192.260	0.126	TX614	Ferris clay, 5 to 12 percent slopes, eroded	0.120
Gulf Coast	Texas	Delta	192.260	192.358	0.097	TX614	Houston Black clay, 1 to 3 percent slopes	0.093
Gulf Coast	Texas	Delta	192.358	192.430	0.073	TX614	Ferris clay, 5 to 12 percent slopes, eroded	0.069
Gulf Coast	Texas	Delta	192.430	192.805	0.375	TX614	Houston Black clay, 1 to 3 percent slopes	0.356
Gulf Coast	Texas	Delta	192.805	193.255	0.450	TX614	Leson clay, 1 to 3 percent slopes	0.428
Gulf Coast	Texas	Delta	193.255	193.478	0.223	TX614	Wilson silty loam, 0 to 2 percent slopes	0.212
Gulf Coast	Texas	Delta	193.478	193.579	0.101	TX614	Leson clay, 1 to 3 percent slopes	0.096
Gulf Coast	Texas	Delta	193.579	193.752	0.173	TX614	Deport clay, 1 to 3 percent slopes	0.173
Gulf Coast	Texas	Delta	193.752	194.010	0.258	TX614	Burleson clay, 0 to 1 percent slopes	0.245
Gulf Coast	Texas	Delta	194.010	194.130	0.120	TX614	Deport clay, 1 to 3 percent slopes	0.120
Gulf Coast	Texas	Delta	194.130	194.359	0.228	TX614	Kaufman clay, 0 to 1 percent slopes, frequently flooded	0.217
Gulf Coast	Texas	Delta	194.359	194.589	0.230	TX614	Deport clay, 1 to 3 percent slopes	0.230
Gulf Coast	Texas	Delta	194.589	194.661	0.072	TX614	Leson clay, 1 to 3 percent slopes	0.068
Gulf Coast	Texas	Delta	194.661	194.918	0.257	TX614	Deport clay, 1 to 3 percent slopes	0.257
Gulf Coast	Texas	Delta	194.918	195.005	0.087	TX614	Kaufman clay, 0 to 1 percent slopes, frequently flooded	0.082
Gulf Coast	Texas	Delta	195.005	195.827	0.822	TX614	Leson clay, 1 to 3 percent slopes	0.781
Gulf Coast	Texas	Delta	195.827	195.871	0.044	TX614	Trinity clay, 0 to 1 percent slopes, frequently flooded	0.042
Gulf Coast	Texas	Delta	195.871	196.024	0.153	TX614	Leson clay, 1 to 3 percent slopes	0.146
Gulf Coast	Texas	Delta	196.024	196.127	0.103	TX614	Houston Black clay, 1 to 3 percent slopes	0.098
Gulf Coast	Texas	Delta	196.127	196.414	0.288	TX614	Leson clay, 1 to 3 percent slopes	0.273
Gulf Coast	Texas	Delta	196.414	196.544	0.129	TX614	Heiden clay, 2 to 5 percent slopes	0.123
Gulf Coast	Texas	Delta	196.544	196.656	0.112	TX614	Leson clay, 1 to 3 percent slopes	0.107
Gulf Coast	Texas	Delta	196.656	196.733	0.077	TX614	Heiden clay, 2 to 5 percent slopes	0.073
Gulf Coast	Texas	Delta	196.733	197.390	0.657	TX614	Leson clay, 1 to 3 percent slopes	0.624

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Delta	197.390	197.484	0.094	TX614	Heiden clay, 2 to 5 percent slopes	0.089
Gulf Coast	Texas	Delta	197.484	197.699	0.216	TX614	Heiden-Ferris complex, 3 to 5 percent slopes	0.198
Gulf Coast	Texas	Delta	197.699	197.717	0.018	TX614	Leson clay, 1 to 3 percent slopes	0.017
Gulf Coast	Texas	Delta	197.717	197.783	0.066	TX614	Houston Black clay, 1 to 3 percent slopes	0.063
Gulf Coast	Texas	Delta	197.783	197.865	0.081	TX614	Heiden clay, 2 to 5 percent slopes	0.077
Gulf Coast	Texas	Delta	197.865	198.061	0.196	TX614	Deport clay, 1 to 3 percent slopes	0.196
Gulf Coast	Texas	Delta	198.061	198.321	0.260	TX614	Wilson silty loam, 0 to 2 percent slopes	0.247
Gulf Coast	Texas	Delta	198.321	198.542	0.221	TX614	Heiden clay, 2 to 5 percent slopes	0.210
Gulf Coast	Texas	Delta	198.542	198.870	0.328	TX614	Normangee clay loam, 2 to 6 percent slopes, eroded	0.328
Gulf Coast	Texas	Delta	198.870	198.971	0.101	TX614	Annona loam, 1 to 4 percent slopes	0.101
Gulf Coast	Texas	Delta	198.971	199.103	0.132	TX614	Crockett loam, 1 to 3 percent slopes	0.125
Gulf Coast	Texas	Delta	199.103	199.125	0.022	TX614	Annona loam, 1 to 4 percent slopes	0.022
Gulf Coast	Texas	Delta	199.125	199.132	0.007	TX614	Crockett loam, 1 to 3 percent slopes	0.006
Gulf Coast	Texas	Delta	199.132	199.289	0.157	TX614	Annona loam, 1 to 4 percent slopes	0.157
Gulf Coast	Texas	Delta	199.289	199.797	0.508	TX614	Wilson silty loam, 0 to 2 percent slopes	0.482
Gulf Coast	Texas	Delta	199.797	199.811	0.015	TX614	Woodtell loam, 5 to 12 percent slopes	0.014
Gulf Coast	Texas	Delta	199.811	200.813	1.002	TX614	Wilson silty loam, 0 to 2 percent slopes	0.952
Gulf Coast	Texas	Delta	200.813	201.168	0.354	TX614	Annona loam, 1 to 4 percent slopes	0.354
Gulf Coast	Texas	Delta	201.168	201.225	0.057	TX614	Woodtell loam, 5 to 12 percent slopes	0.054
Gulf Coast	Texas	Delta	201.225	201.359	0.135	TX614	Annona loam, 1 to 4 percent slopes	0.135
Gulf Coast	Texas	Delta	201.359	201.463	0.104	TX614	Woodtell loam, 5 to 12 percent slopes	0.099
Gulf Coast	Texas	Delta	201.463	201.757	0.294	TX614	Kaufman clay, 0 to 1 percent slopes, frequently flooded	0.280
Gulf Coast	Texas	Hopkins	201.757	203.120	1.363	TX610	Kaufman clay	1.295
Gulf Coast	Texas	Hopkins	203.120	203.412	0.292	TX610	Nahatche soils	0.278
Gulf Coast	Texas	Hopkins	203.412	203.424	0.012	TX610	Wilson clay loam, 0 to 2 percent slopes	0.012
Gulf Coast	Texas	Hopkins	203.424	203.529	0.104	TX610	Bazette clay loam, 5 to 12 percent slopes	0.094
Gulf Coast	Texas	Hopkins	203.529	203.806	0.277	TX610	Woodtell loam, 2 to 5 percent slopes	0.277
Gulf Coast	Texas	Hopkins	203.806	203.841	0.035	TX610	Bazette clay loam, 5 to 12 percent slopes	0.032

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Hopkins	203.841	203.932	0.091	TX610	Bazette clay loam, 3 to 5 percent slopes	0.091
Gulf Coast	Texas	Hopkins	203.932	203.989	0.057	TX610	Bazette clay loam, 5 to 12 percent slopes	0.052
Gulf Coast	Texas	Hopkins	203.989	204.061	0.072	TX610	Bazette clay loam, 3 to 5 percent slopes	0.072
Gulf Coast	Texas	Hopkins	204.061	204.191	0.130	TX610	Bazette clay loam, 5 to 12 percent slopes	0.117
Gulf Coast	Texas	Hopkins	204.191	204.297	0.106	TX610	Crockett loam, 1 to 3 percent slopes	0.106
Gulf Coast	Texas	Hopkins	204.297	204.501	0.204	TX610	Bazette clay loam, 5 to 12 percent slopes	0.184
Gulf Coast	Texas	Hopkins	204.501	206.610	2.109	TX610	Crockett loam, 1 to 3 percent slopes	2.109
Gulf Coast	Texas	Hopkins	206.610	206.667	0.057	TX610	Annona-Raino complex	0.057
Gulf Coast	Texas	Hopkins	206.667	206.824	0.157	TX610	Nahatche soils	0.149
Gulf Coast	Texas	Hopkins	206.824	207.057	0.234	TX610	Bazette clay loam, 5 to 12 percent slopes	0.210
Gulf Coast	Texas	Hopkins	207.057	207.163	0.105	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.105
Gulf Coast	Texas	Hopkins	207.163	207.201	0.039	TX610	Crockett loam, 1 to 3 percent slopes	0.039
Gulf Coast	Texas	Hopkins	207.201	207.230	0.028	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.028
Gulf Coast	Texas	Hopkins	207.230	207.560	0.330	TX610	Crockett loam, 3 to 5 percent slopes	0.330
Gulf Coast	Texas	Hopkins	207.560	208.087	0.528	TX610	Crockett loam, 1 to 3 percent slopes	0.528
Gulf Coast	Texas	Hopkins	208.087	208.113	0.025	TX610	Crockett loam, 3 to 5 percent slopes	0.025
Gulf Coast	Texas	Hopkins	208.113	208.326	0.213	TX610	Crockett loam, 1 to 3 percent slopes	0.213
Gulf Coast	Texas	Hopkins	208.326	208.468	0.142	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.142
Gulf Coast	Texas	Hopkins	208.468	208.598	0.130	TX610	Crockett loam, 1 to 3 percent slopes	0.130
Gulf Coast	Texas	Hopkins	208.598	208.707	0.109	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.109
Gulf Coast	Texas	Hopkins	208.707	209.050	0.343	TX610	Crockett loam, 1 to 3 percent slopes	0.343
Gulf Coast	Texas	Hopkins	209.050	209.114	0.063	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.063
Gulf Coast	Texas	Hopkins	209.114	209.486	0.372	TX610	Crockett loam, 1 to 3 percent slopes	0.372
Gulf Coast	Texas	Hopkins	209.486	209.587	0.102	TX610	Crockett loam, 3 to 5 percent slopes	0.102
Gulf Coast	Texas	Hopkins	209.587	209.899	0.311	TX610	Crockett loam, 1 to 3 percent slopes	0.311
Gulf Coast	Texas	Hopkins	209.899	209.933	0.034	TX610	Crockett loam, 3 to 5 percent slopes	0.034
Gulf Coast	Texas	Hopkins	209.933	210.267	0.334	TX610	Crockett loam, 1 to 3 percent slopes	0.334
Gulf Coast	Texas	Hopkins	210.267	210.299	0.032	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.032

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Hopkins	210.299	210.355	0.057	TX610	Woodtell loam, 2 to 5 percent slopes	0.057
Gulf Coast	Texas	Hopkins	210.355	210.496	0.141	TX610	Nahatche soils	0.134
Gulf Coast	Texas	Hopkins	210.496	210.562	0.066	TX610	Woodtell loam, 2 to 5 percent slopes	0.066
Gulf Coast	Texas	Hopkins	210.562	210.993	0.431	TX610	Wilson clay loam, 0 to 2 percent slopes	0.431
Gulf Coast	Texas	Hopkins	210.993	211.150	0.158	TX610	Lufkin-Raino complex	0.158
Gulf Coast	Texas	Hopkins	211.150	211.335	0.185	TX610	Woodtell loam, 2 to 5 percent slopes	0.185
Gulf Coast	Texas	Hopkins	211.335	211.803	0.468	TX610	Annona-Raino complex	0.468
Gulf Coast	Texas	Hopkins	211.803	211.955	0.152	TX610	Woodtell loam, 5 to 12 percent slopes	0.152
Gulf Coast	Texas	Hopkins	211.955	212.348	0.392	TX610	Nahatche soils	0.373
Gulf Coast	Texas	Hopkins	212.348	212.431	0.084	TX610	Woodtell loam, 5 to 12 percent slopes	0.084
Gulf Coast	Texas	Hopkins	212.431	212.521	0.090	TX610	Woodtell loam, 2 to 5 percent slopes	0.090
Gulf Coast	Texas	Hopkins	212.521	212.614	0.092	TX610	Woodtell loam, 5 to 12 percent slopes	0.092
Gulf Coast	Texas	Hopkins	212.614	214.004	1.390	TX610	Nahatche soils	1.321
Gulf Coast	Texas	Hopkins	214.004	214.132	0.128	TX610	Woodtell loam, 5 to 12 percent slopes	0.128
Gulf Coast	Texas	Hopkins	214.132	214.299	0.167	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.167
Gulf Coast	Texas	Hopkins	214.299	214.356	0.057	TX610	Nahatche soils	0.055
Gulf Coast	Texas	Hopkins	214.356	214.439	0.083	TX610	Crockett loam, 3 to 5 percent slopes	0.083
Gulf Coast	Texas	Hopkins	214.439	215.464	1.025	TX610	Crockett loam, 1 to 3 percent slopes	1.025
Gulf Coast	Texas	Hopkins	215.464	215.526	0.062	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.062
Gulf Coast	Texas	Hopkins	215.526	216.036	0.510	TX610	Crockett loam, 1 to 3 percent slopes	0.510
Gulf Coast	Texas	Hopkins	216.036	216.103	0.067	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.067
Gulf Coast	Texas	Hopkins	216.103	216.508	0.406	TX610	Woodtell loam, 2 to 5 percent slopes	0.406
Gulf Coast	Texas	Hopkins	216.508	216.763	0.254	TX610	Nahatche soils	0.242
Gulf Coast	Texas	Hopkins	216.763	216.874	0.111	TX610	Crockett loam, 2 to 5 percent slops, eroded	0.111
Gulf Coast	Texas	Hopkins	216.874	217.881	1.007	TX610	Nahatche soils	0.957
Gulf Coast	Texas	Hopkins	217.881	218.186	0.305	TX610	Bernaldo fine sandy loam, 1 to 3 percent slopes	0.305
Gulf Coast	Texas	Hopkins	218.186	218.403	0.217	TX610	Nahatche soils	0.206
Gulf Coast	Texas	Hopkins	218.403	218.481	0.077	TX610	Woodtell loam, 5 to 12 percent slopes	0.077

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Hopkins	218.481	218.630	0.150	TX610	Wolfpen loamy fine sand, 1 to 5 percent slopes	0.150
Gulf Coast	Texas	Hopkins	218.630	218.670	0.039	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.039
Gulf Coast	Texas	Hopkins	218.670	218.725	0.056	TX610	Woodtell loam, 5 to 12 percent slopes	0.056
Gulf Coast	Texas	Hopkins	218.725	218.807	0.082	TX610	Wolfpen loamy fine sand, 1 to 5 percent slopes	0.082
Gulf Coast	Texas	Hopkins	218.807	218.883	0.076	TX610	Woodtell loam, 5 to 12 percent slopes	0.076
Gulf Coast	Texas	Hopkins	218.883	218.991	0.108	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.108
Gulf Coast	Texas	Hopkins	218.991	219.095	0.104	TX610	Woodtell loam, 2 to 5 percent slopes	0.104
Gulf Coast	Texas	Hopkins	219.095	219.204	0.109	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.109
Gulf Coast	Texas	Hopkins	219.204	219.265	0.061	TX610	Woodtell loam, 2 to 5 percent slopes	0.061
Gulf Coast	Texas	Hopkins	219.265	219.690	0.425	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.425
Gulf Coast	Texas	Hopkins	219.690	219.864	0.174	TX610	Lufkin-Raino complex	0.174
Gulf Coast	Texas	Hopkins	219.864	220.312	0.448	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.448
Gulf Coast	Texas	Hopkins	220.312	220.436	0.124	TX610	Lufkin-Raino complex	0.124
Gulf Coast	Texas	Hopkins	220.436	220.732	0.296	TX610	Wolfpen loamy fine sand, 1 to 5 percent slopes	0.296
Gulf Coast	Texas	Hopkins	220.732	220.845	0.113	TX610	Woodtell loam, 2 to 5 percent slopes	0.113
Gulf Coast	Texas	Hopkins	220.845	220.992	0.147	TX610	Nahatche soils	0.140
Gulf Coast	Texas	Hopkins	220.992	221.046	0.054	TX610	Woodtell loam, 5 to 12 percent slopes	0.054
Gulf Coast	Texas	Hopkins	221.046	221.219	0.174	TX610	Woodtell loam, 2 to 5 percent slopes	0.174
Gulf Coast	Texas	Hopkins	221.219	221.487	0.268	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.268
Gulf Coast	Texas	Hopkins	221.487	221.851	0.364	TX610	Woodtell loam, 2 to 5 percent slopes	0.364
Gulf Coast	Texas	Hopkins	221.851	221.899	0.047	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.047
Gulf Coast	Texas	Hopkins	221.899	222.320	0.421	TX610	Woodtell loam, 2 to 5 percent slopes	0.421
Gulf Coast	Texas	Hopkins	222.320	222.385	0.065	TX610	Wolfpen loamy fine sand, 1 to 5 percent slopes	0.065
Gulf Coast	Texas	Hopkins	222.385	222.448	0.063	TX610	Woodtell loam, 2 to 5 percent slopes	0.063
Gulf Coast	Texas	Hopkins	222.448	222.534	0.086	TX610	Wolfpen loamy fine sand, 1 to 5 percent slopes	0.086
Gulf Coast	Texas	Hopkins	222.534	222.582	0.048	TX610	Woodtell loam, 5 to 12 percent slopes	0.048
Gulf Coast	Texas	Hopkins	222.582	222.644	0.061	TX610	Freestone fine sandy loam, 1 to 3 percent slopes	0.061
Gulf Coast	Texas	Franklin	222.644	222.675	0.031	TX603	Freestone fine sandy loam, 1 to 3 percent slopes	0.026

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Franklin	222.675	222.815	0.140	TX603	Woodtell fine sandy loam, 5 to 20 percent slopes	0.119
Gulf Coast	Texas	Franklin	222.815	222.894	0.079	TX603	Woodtell fine sandy loam, 2 to 5 percent slopes	0.071
Gulf Coast	Texas	Franklin	222.894	223.032	0.138	TX603	Freestone fine sandy loam, 1 to 3 percent slopes	0.117
Gulf Coast	Texas	Franklin	223.032	223.082	0.051	TX603	Iuka fine sandy loam, frequently flooded	0.005
Gulf Coast	Texas	Franklin	223.082	223.230	0.148	TX603	Pickton fine sand, 2 to 5 percent slopes	0.118
Gulf Coast	Texas	Franklin	223.230	223.381	0.151	TX603	Wolfpen loamy fine sand, 2 to 5 percent slopes	0.136
Gulf Coast	Texas	Franklin	223.381	223.452	0.071	TX603	Bernaldo fine sandy loam, 1 to 3 percent slopes	0.061
Gulf Coast	Texas	Franklin	223.452	223.646	0.194	TX603	Wolfpen loamy fine sand, 2 to 5 percent slopes	0.174
Gulf Coast	Texas	Franklin	223.646	224.028	0.382	TX603	Woodtell fine sandy loam, 2 to 5 percent slopes	0.344
Gulf Coast	Texas	Franklin	224.028	224.072	0.044	TX603	Freestone fine sandy loam, 1 to 3 percent slopes	0.037
Gulf Coast	Texas	Franklin	224.072	225.024	0.952	TX603	Woodtell fine sandy loam, 2 to 5 percent slopes	0.857
Gulf Coast	Texas	Franklin	225.024	225.362	0.338	TX603	Woodtell fine sandy loam, 5 to 20 percent slopes	0.288
Gulf Coast	Texas	Franklin	225.362	225.481	0.119	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.101
Gulf Coast	Texas	Franklin	225.481	225.723	0.242	TX603	Woodtell fine sandy loam, 2 to 5 percent slopes	0.218
Gulf Coast	Texas	Franklin	225.723	225.789	0.066	TX603	Kirvin very fine sandy loam, 3 to 8 percent slopes	0.056
Gulf Coast	Texas	Franklin	225.789	225.937	0.148	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.126
Gulf Coast	Texas	Franklin	225.937	226.129	0.191	TX603	Nahatche loam silty clay loam, frequently flooded	0.153
Gulf Coast	Texas	Franklin	226.129	226.406	0.278	TX603	Pickton fine sand, 8 to 15 percent slopes	0.250
Gulf Coast	Texas	Franklin	226.406	226.571	0.164	TX603	Wolfpen loamy fine sand, 2 to 5 percent slopes	0.148
Gulf Coast	Texas	Franklin	226.571	226.874	0.303	TX603	Iuka fine sandy loam, frequently flooded	0.030
Gulf Coast	Texas	Franklin	226.874	227.038	0.164	TX603	Woodtell fine sandy loam, 5 to 20 percent slopes	0.140
Gulf Coast	Texas	Franklin	227.038	227.361	0.323	TX603	Bernaldo fine sandy loam, 1 to 3 percent slopes	0.275
Gulf Coast	Texas	Franklin	227.361	227.732	0.371	TX603	Woodtell fine sandy loam, 5 to 20 percent slopes	0.315
Gulf Coast	Texas	Franklin	227.732	227.901	0.170	TX603	Freestone fine sandy loam, 1 to 3 percent slopes	0.144
Gulf Coast	Texas	Franklin	227.901	228.026	0.125	TX603	Woodtell fine sandy loam, 5 to 20 percent slopes	0.106
Gulf Coast	Texas	Franklin	228.026	228.316	0.289	TX603	Wolfpen loamy fine sand, 2 to 5 percent slopes	0.260
Gulf Coast	Texas	Franklin	228.316	228.506	0.190	TX603	Nahatche loam silty clay loam, frequently flooded	0.152
Gulf Coast	Texas	Franklin	228.506	228.829	0.323	TX603	Darco loamy fine sand, 2 to 5 percent slopes	0.258

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Franklin	228.829	228.892	0.064	TX603	Iuka fine sandy loam, frequently flooded	0.006
Gulf Coast	Texas	Franklin	228.892	229.478	0.585	TX603	Darco loamy fine sand, 2 to 5 percent slopes	0.468
Gulf Coast	Texas	Franklin	229.478	229.751	0.273	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.232
Gulf Coast	Texas	Franklin	229.751	229.826	0.074	TX603	Kirvin soils, graded, 2 to 8 percent slopes	0.060
Gulf Coast	Texas	Franklin	229.826	230.370	0.544	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.463
Gulf Coast	Texas	Franklin	230.370	230.613	0.243	TX603	Nahatche loam silty clay loam, frequently flooded	0.195
Gulf Coast	Texas	Franklin	230.613	230.795	0.182	TX603	Lilbert loamy fine sand, 2 to 5 percent slopes	0.145
Gulf Coast	Texas	Franklin	230.862	231.116	0.254	TX603	Darco loamy fine sand, 2 to 5 percent slopes	0.203
Gulf Coast	Texas	Franklin	231.116	231.179	0.062	TX603	Lilbert loamy fine sand, 2 to 5 percent slopes	0.050
Gulf Coast	Texas	Franklin	231.179	231.276	0.098	TX603	Briley loamy fine sand, 2 to 5 percent slopes	0.083
Gulf Coast	Texas	Franklin	231.276	231.422	0.146	TX603	Kirvin gravelly fine sandy loam, 3 to 8 percent slopes	0.124
Gulf Coast	Texas	Franklin	231.422	231.541	0.119	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.101
Gulf Coast	Texas	Franklin	231.541	231.725	0.184	TX603	Iuka fine sandy loam, frequently flooded	0.018
Gulf Coast	Texas	Franklin	231.725	231.771	0.046	TX603	Kirvin soils, graded, 2 to 8 percent slopes	0.037
Gulf Coast	Texas	Franklin	231.771	231.905	0.135	TX603	Iuka fine sandy loam, frequently flooded	0.013
Gulf Coast	Texas	Franklin	231.905	232.134	0.229	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.194
Gulf Coast	Texas	Franklin	232.134	232.302	0.168	TX603	Bowie fine sandy loam, 2 to 5 percent slopes	0.134
Gulf Coast	Texas	Franklin	232.302	232.590	0.288	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.245
Gulf Coast	Texas	Franklin	232.590	232.791	0.201	TX603	Nahatche loam silty clay loam, frequently flooded	0.160
Gulf Coast	Texas	Franklin	232.791	232.925	0.134	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.114
Gulf Coast	Texas	Franklin	232.925	233.001	0.076	TX603	Nahatche loam silty clay loam, frequently flooded	0.061
Gulf Coast	Texas	Franklin	233.001	233.057	0.056	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.048
Gulf Coast	Texas	Franklin	233.057	233.107	0.050	TX603	Nahatche loam silty clay loam, frequently flooded	0.040
Gulf Coast	Texas	Franklin	233.107	233.148	0.041	TX603	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.035
Gulf Coast	Texas	Franklin	233.148	233.319	0.171	TX603	Kullit very fine sandy loam, 1 to 3 percent slopes	0.145
Gulf Coast	Texas	Wood	233.319	233.435	0.116	TX499	Kullit very fine sandy loam, 1 to 3 percent slopes	0.099
Gulf Coast	Texas	Wood	233.435	233.621	0.186	TX499	Kirvin gravelly fine sandy loam, 3 to 8 percent slopes	0.149
Gulf Coast	Texas	Wood	233.621	233.800	0.179	TX499	Bowie fine sandy loam, 1 to 5 percent slopes	0.143

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Wood	233.800	233.824	0.024	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.019
Gulf Coast	Texas	Wood	233.824	234.045	0.221	TX499	Gallime fine sandy loam, 1 to 3 percent slopes	0.187
Gulf Coast	Texas	Wood	234.045	234.275	0.230	TX499	Manco loam, frequently flooded	0.161
Gulf Coast	Texas	Wood	234.275	234.555	0.281	TX499	Cuthbert gravelly fine sandy loam, 8 to 25 percent slopes	0.225
Gulf Coast	Texas	Wood	234.555	234.627	0.072	TX499	Iulus fine sandy loam, frequently flooded	0.057
Gulf Coast	Texas	Wood	234.627	234.695	0.068	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.054
Gulf Coast	Texas	Wood	234.695	234.813	0.118	TX499	Kullit very fine sandy loam, 1 to 3 percent slopes	0.100
Gulf Coast	Texas	Wood	234.813	234.951	0.139	TX499	Bowie fine sandy loam, 1 to 5 percent slopes	0.111
Gulf Coast	Texas	Wood	234.951	235.094	0.143	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.114
Gulf Coast	Texas	Wood	235.094	235.137	0.043	TX499	Bowie fine sandy loam, 1 to 5 percent slopes	0.034
Gulf Coast	Texas	Wood	235.137	235.178	0.041	TX499	Kirvin very fine sandy loam, 2 to 5 percent slopes	0.033
Gulf Coast	Texas	Wood	235.178	235.416	0.238	TX499	Bowie fine sandy loam, 1 to 5 percent slopes	0.190
Gulf Coast	Texas	Wood	235.416	235.509	0.093	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.075
Gulf Coast	Texas	Wood	235.509	235.602	0.093	TX499	Manco loam, frequently flooded	0.065
Gulf Coast	Texas	Wood	235.602	235.700	0.098	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.078
Gulf Coast	Texas	Wood	235.700	235.800	0.101	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.080
Gulf Coast	Texas	Wood	235.800	235.860	0.059	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.047
Gulf Coast	Texas	Wood	235.860	235.915	0.055	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.044
Gulf Coast	Texas	Wood	235.915	235.976	0.062	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.049
Gulf Coast	Texas	Wood	235.976	236.323	0.346	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.277
Gulf Coast	Texas	Wood	236.323	236.533	0.210	TX499	Darco fine sand, 2 to 5 percent slopes	0.168
Gulf Coast	Texas	Wood	236.533	236.604	0.072	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.057
Gulf Coast	Texas	Wood	236.604	236.700	0.096	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.077
Gulf Coast	Texas	Wood	236.700	236.766	0.066	TX499	Iulus fine sandy loam, frequently flooded	0.053
Gulf Coast	Texas	Wood	236.766	236.861	0.095	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.076
Gulf Coast	Texas	Wood	236.861	236.877	0.016	TX499	Tenaha loamy fine sand, 8 to 20 percent slopes	0.013
Gulf Coast	Texas	Wood	236.877	236.980	0.103	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.083
Gulf Coast	Texas	Wood	236.980	237.111	0.131	TX499	Tenaha loamy fine sand, 8 to 20 percent slopes	0.105

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Wood	237.111	237.289	0.177	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.142
Gulf Coast	Texas	Wood	237.289	237.363	0.075	TX499	Bowie fine sandy loam, 1 to 5 percent slopes	0.060
Gulf Coast	Texas	Wood	237.363	237.498	0.135	TX499	Cuthbert gravelly fine sandy loam, 8 to 25 percent slopes	0.108
Gulf Coast	Texas	Wood	237.498	237.965	0.467	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.374
Gulf Coast	Texas	Wood	237.965	238.023	0.057	TX499	Kirvin gravelly fine sandy loam, 3 to 8 percent slopes	0.046
Gulf Coast	Texas	Wood	238.023	238.099	0.076	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.061
Gulf Coast	Texas	Wood	238.099	238.316	0.217	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.173
Gulf Coast	Texas	Wood	238.316	238.446	0.131	TX499	Kirvin very fine sandy loam, 2 to 5 percent slopes	0.105
Gulf Coast	Texas	Wood	238.446	238.612	0.166	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.132
Gulf Coast	Texas	Wood	238.612	239.268	0.656	TX499	Darco fine sand, 2 to 5 percent slopes	0.524
Gulf Coast	Texas	Wood	239.268	239.549	0.281	TX499	Tenaha loamy fine sand, 8 to 20 percent slopes	0.225
Gulf Coast	Texas	Wood	239.549	239.680	0.131	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.105
Gulf Coast	Texas	Wood	239.680	239.730	0.051	TX499	Manco loam, frequently flooded	0.036
Gulf Coast	Texas	Wood	239.730	239.792	0.061	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.049
Gulf Coast	Texas	Wood	239.792	240.220	0.428	TX499	Darco fine sand, 2 to 5 percent slopes	0.342
Gulf Coast	Texas	Wood	240.220	240.290	0.070	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.056
Gulf Coast	Texas	Wood	240.290	240.356	0.066	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.053
Gulf Coast	Texas	Wood	240.356	240.566	0.210	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.168
Gulf Coast	Texas	Wood	240.566	240.675	0.109	TX499	Darco fine sand, 2 to 5 percent slopes	0.087
Gulf Coast	Texas	Wood	240.675	240.796	0.121	TX499	Darco fine sand, 8 to 15 percent slopes	0.097
Gulf Coast	Texas	Wood	240.796	241.251	0.455	TX499	Darco fine sand, 2 to 5 percent slopes	0.364
Gulf Coast	Texas	Wood	241.251	241.652	0.401	TX499	Darco fine sand, 8 to 15 percent slopes	0.320
Gulf Coast	Texas	Wood	241.907	242.222	0.315	TX499	Darco fine sand, 8 to 15 percent slopes	0.252
Gulf Coast	Texas	Wood	242.299	242.353	0.054	TX499	Darco fine sand, 8 to 15 percent slopes	0.043
Gulf Coast	Texas	Wood	242.519	242.694	0.176	TX499	Darco fine sand, 8 to 15 percent slopes	0.141
Gulf Coast	Texas	Wood	242.752	242.802	0.050	TX499	Darco fine sand, 8 to 15 percent slopes	0.040
Gulf Coast	Texas	Wood	242.802	242.967	0.165	TX499	Darco fine sand, 2 to 5 percent slopes	0.132
Gulf Coast	Texas	Wood	242.967	242.982	0.015	TX499	Darco fine sand, 8 to 15 percent slopes	0.012

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Wood	242.982	243.333	0.351	TX499	Darco fine sand, 2 to 5 percent slopes	0.280
Gulf Coast	Texas	Wood	243.333	243.341	0.008	TX499	Darco fine sand, 8 to 15 percent slopes	0.007
Gulf Coast	Texas	Wood	243.341	243.728	0.387	TX499	Darco fine sand, 2 to 5 percent slopes	0.309
Gulf Coast	Texas	Wood	243.728	243.888	0.160	TX499	Darco fine sand, 8 to 15 percent slopes	0.128
Gulf Coast	Texas	Wood	243.958	244.023	0.065	TX499	Darco fine sand, 8 to 15 percent slopes	0.052
Gulf Coast	Texas	Wood	244.251	244.725	0.474	TX499	Darco fine sand, 2 to 5 percent slopes	0.379
Gulf Coast	Texas	Wood	244.725	244.867	0.142	TX499	Darco fine sand, 8 to 15 percent slopes	0.113
Gulf Coast	Texas	Wood	244.926	245.064	0.138	TX499	Darco fine sand, 8 to 15 percent slopes	0.110
Gulf Coast	Texas	Wood	245.338	245.811	0.474	TX499	Darco fine sand, 8 to 15 percent slopes	0.379
Gulf Coast	Texas	Wood	246.304	246.706	0.401	TX499	Darco fine sand, 8 to 15 percent slopes	0.321
Gulf Coast	Texas	Wood	246.706	247.344	0.638	TX499	Darco fine sand, 2 to 5 percent slopes	0.510
Gulf Coast	Texas	Wood	247.409	247.606	0.197	TX499	Darco fine sand, 8 to 15 percent slopes	0.158
Gulf Coast	Texas	Wood	247.925	248.106	0.182	TX499	Darco fine sand, 8 to 15 percent slopes	0.145
Gulf Coast	Texas	Wood	248.106	248.541	0.435	TX499	Darco fine sand, 2 to 5 percent slopes	0.348
Gulf Coast	Texas	Wood	248.541	248.585	0.044	TX499	Darco fine sand, 8 to 15 percent slopes	0.035
Gulf Coast	Texas	Wood	248.625	248.719	0.094	TX499	Darco fine sand, 8 to 15 percent slopes	0.075
Gulf Coast	Texas	Wood	248.719	248.902	0.184	TX499	Darco fine sand, 2 to 5 percent slopes	0.147
Gulf Coast	Texas	Wood	248.902	248.984	0.082	TX499	Darco fine sand, 8 to 15 percent slopes	0.065
Gulf Coast	Texas	Wood	248.984	249.249	0.265	TX499	Darco fine sand, 2 to 5 percent slopes	0.212
Gulf Coast	Texas	Wood	249.249	249.385	0.136	TX499	Darco fine sand, 8 to 15 percent slopes	0.109
Gulf Coast	Texas	Wood	249.385	249.656	0.270	TX499	Darco fine sand, 2 to 5 percent slopes	0.216
Gulf Coast	Texas	Wood	249.656	249.749	0.093	TX499	Darco fine sand, 8 to 15 percent slopes	0.075
Gulf Coast	Texas	Wood	249.749	249.898	0.149	TX499	Darco fine sand, 2 to 5 percent slopes	0.119
Gulf Coast	Texas	Wood	249.898	249.951	0.053	TX499	Darco fine sand, 8 to 15 percent slopes	0.043
Gulf Coast	Texas	Wood	249.951	250.050	0.099	TX499	Manco loam, frequently flooded	0.070
Gulf Coast	Texas	Wood	250.050	250.114	0.064	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.051
Gulf Coast	Texas	Wood	250.114	250.195	0.080	TX499	Kirvin gravelly fine sandy loam, 3 to 8 percent slopes	0.064
Gulf Coast	Texas	Wood	250.195	250.266	0.072	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.057

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Wood	250.266	250.308	0.042	TX499	Manco loam, frequently flooded	0.029
Gulf Coast	Texas	Wood	250.308	250.538	0.230	TX499	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.184
Gulf Coast	Texas	Wood	250.538	250.783	0.245	TX499	Darco fine sand, 8 to 15 percent slopes	0.196
Gulf Coast	Texas	Wood	250.783	250.999	0.216	TX499	Darco fine sand, 2 to 5 percent slopes	0.173
Gulf Coast	Texas	Wood	250.999	251.279	0.280	TX499	Darco fine sand, 8 to 15 percent slopes	0.224
Gulf Coast	Texas	Wood	251.396	251.798	0.402	TX499	Darco fine sand, 2 to 5 percent slopes	0.322
Gulf Coast	Texas	Wood	251.798	251.852	0.053	TX499	Darco fine sand, 8 to 15 percent slopes	0.043
Gulf Coast	Texas	Wood	251.852	251.997	0.146	TX499	Darco fine sand, 2 to 5 percent slopes	0.117
Gulf Coast	Texas	Wood	251.997	252.201	0.203	TX499	Darco fine sand, 8 to 15 percent slopes	0.163
Gulf Coast	Texas	Wood	252.329	252.719	0.390	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.312
Gulf Coast	Texas	Wood	252.719	252.945	0.226	TX499	Tenaha loamy fine sand, 8 to 20 percent slopes	0.181
Gulf Coast	Texas	Wood	252.945	252.990	0.046	TX499	Redsprings very gravelly fine sandy loam, 8 to 25 percent slopes	0.037
Gulf Coast	Texas	Wood	252.990	253.093	0.103	TX499	Iulus fine sandy loam, frequently flooded	0.082
Gulf Coast	Texas	Wood	253.093	253.340	0.246	TX499	Darco fine sand, 8 to 15 percent slopes	0.197
Gulf Coast	Texas	Wood	254.260	254.443	0.183	TX499	Darco fine sand, 2 to 5 percent slopes	0.147
Gulf Coast	Texas	Wood	254.443	254.492	0.049	TX499	Darco fine sand, 8 to 15 percent slopes	0.039
Gulf Coast	Texas	Wood	254.492	254.571	0.079	TX499	Darco fine sand, 2 to 5 percent slopes	0.063
Gulf Coast	Texas	Wood	254.571	254.678	0.107	TX499	Darco fine sand, 8 to 15 percent slopes	0.086
Gulf Coast	Texas	Wood	254.678	254.777	0.100	TX499	Darco fine sand, 2 to 5 percent slopes	0.080
Gulf Coast	Texas	Wood	254.777	254.948	0.170	TX499	Darco fine sand, 8 to 15 percent slopes	0.136
Gulf Coast	Texas	Wood	254.948	255.093	0.145	TX499	Darco fine sand, 2 to 5 percent slopes	0.116
Gulf Coast	Texas	Wood	255.093	255.330	0.237	TX499	Darco fine sand, 8 to 15 percent slopes	0.189
Gulf Coast	Texas	Wood	255.330	255.987	0.657	TX499	Darco fine sand, 2 to 5 percent slopes	0.526
Gulf Coast	Texas	Wood	255.987	256.089	0.102	TX499	Darco fine sand, 8 to 15 percent slopes	0.081
Gulf Coast	Texas	Wood	256.089	256.195	0.106	TX499	Darco fine sand, 2 to 5 percent slopes	0.085
Gulf Coast	Texas	Wood	256.195	256.306	0.111	TX499	Darco fine sand, 8 to 15 percent slopes	0.089
Gulf Coast	Texas	Wood	256.306	256.544	0.238	TX499	Darco fine sand, 2 to 5 percent slopes	0.191
Gulf Coast	Texas	Upshur	256.544	256.622	0.078	TX608	Darco fine sand, 2 to 5 percent slopes	0.062

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Upshur	256.622	256.781	0.159	TX608	Darco fine sand, 8 to 15 percent slopes	0.127
Gulf Coast	Texas	Upshur	256.781	257.024	0.243	TX608	Mantachie loam, frequently flooded	0.207
Gulf Coast	Texas	Wood	257.159	257.317	0.158	TX499	Manco loam, frequently flooded	0.110
Gulf Coast	Texas	Wood	257.317	257.457	0.140	TX499	Gallime fine sandy loam, 1 to 3 percent slopes	0.119
Gulf Coast	Texas	Wood	257.457	257.502	0.045	TX499	Manco loam, frequently flooded	0.031
Gulf Coast	Texas	Wood	257.502	257.766	0.264	TX499	Gallime fine sandy loam, 1 to 3 percent slopes	0.224
Gulf Coast	Texas	Wood	257.766	257.934	0.168	TX499	Lilbert loamy fine sand, 2 to 5 percent slopes	0.135
Gulf Coast	Texas	Wood	257.934	258.183	0.249	TX499	Bowie fine sandy loam, 1 to 5 percent slopes	0.199
Gulf Coast	Texas	Upshur	258.183	258.314	0.131	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.104
Gulf Coast	Texas	Upshur	258.314	258.401	0.087	TX608	Sacul fine sandy loam, 5 to 12 percent slopes	0.070
Gulf Coast	Texas	Upshur	258.401	258.561	0.161	TX608	Briley loamy fine sand, 2 to 5 percent slopes	0.136
Gulf Coast	Texas	Upshur	258.561	258.665	0.103	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.083
Gulf Coast	Texas	Upshur	258.665	258.747	0.082	TX608	Sacul fine sandy loam, 2 to 5 percent slopes	0.070
Gulf Coast	Texas	Upshur	258.747	259.238	0.491	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.393
Gulf Coast	Texas	Upshur	259.238	259.319	0.081	TX608	Wrightsville-Raino complex, 0 to 1 percent slopes	0.073
Gulf Coast	Texas	Upshur	259.319	259.896	0.578	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.462
Gulf Coast	Texas	Upshur	259.896	259.948	0.052	TX608	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.042
Gulf Coast	Texas	Upshur	259.948	260.069	0.121	TX608	Darco fine sand, 8 to 15 percent slopes	0.097
Gulf Coast	Texas	Upshur	260.069	260.077	0.007	TX608	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.006
Gulf Coast	Texas	Upshur	260.077	260.258	0.181	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.145
Gulf Coast	Texas	Upshur	260.258	260.384	0.126	TX608	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.101
Gulf Coast	Texas	Upshur	260.384	260.441	0.057	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.046
Gulf Coast	Texas	Upshur	260.441	260.492	0.051	TX608	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.041
Gulf Coast	Texas	Upshur	260.492	260.720	0.228	TX608	Bowie fine sandy loam, 2 to 5 percent slopes	0.182
Gulf Coast	Texas	Upshur	260.720	260.923	0.203	TX608	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.162
Gulf Coast	Texas	Upshur	260.923	261.003	0.080	TX608	Iuka fine sandy loam, frequently flooded	0.008
Gulf Coast	Texas	Upshur	261.003	261.174	0.171	TX608	Cuthbert fine sandy loam, 8 to 25 percent slopes	0.137
Gulf Coast	Texas	Upshur	261.174	261.200	0.026	TX608	Sacul fine sandy loam, 5 to 12 percent slopes	0.021

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Upshur	261.200	261.257	0.057	TX608	Estes clay, frequently flooded	0.048
Gulf Coast	Texas	Upshur	261.257	261.289	0.033	TX608	Sacul fine sandy loam, 5 to 12 percent slopes	0.026
Gulf Coast	Texas	Upshur	261.289	261.528	0.239	TX608	Tenaha loamy fine sand, 8 to 20 percent slopes	0.203
Gulf Coast	Texas	Upshur	261.528	261.690	0.162	TX608	Sacul fine sandy loam, 5 to 12 percent slopes	0.129
Gulf Coast	Texas	Upshur	261.690	261.825	0.135	TX608	Kullit very fine sandy loam, 1 to 3 percent slopes	0.122
Gulf Coast	Texas	Upshur	261.825	261.974	0.149	TX608	Sacul fine sandy loam, 5 to 12 percent slopes	0.120
Gulf Coast	Texas	Upshur	261.974	262.235	0.261	TX608	Kullit very fine sandy loam, 1 to 3 percent slopes	0.235
Gulf Coast	Texas	Upshur	262.235	262.291	0.056	TX608	Sacul fine sandy loam, 5 to 12 percent slopes	0.045
Gulf Coast	Texas	Upshur	262.291	263.502	1.211	TX608	Mantachie loam, frequently flooded	1.029
Gulf Coast	Texas	Smith	263.502	263.640	0.138	TX423	Mantachie loam, frequently flooded	0.096
Gulf Coast	Texas	Smith	263.640	263.749	0.109	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.087
Gulf Coast	Texas	Smith	263.749	264.087	0.337	TX423	Oakwood fine sandy loam, 1 to 5 percent slopes	0.270
Gulf Coast	Texas	Smith	264.087	264.112	0.025	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.020
Gulf Coast	Texas	Smith	264.112	264.191	0.079	TX423	Oakwood fine sandy loam, 1 to 5 percent slopes	0.063
Gulf Coast	Texas	Smith	264.191	264.313	0.123	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.098
Gulf Coast	Texas	Smith	264.313	264.419	0.106	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.085
Gulf Coast	Texas	Smith	264.419	264.548	0.128	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.103
Gulf Coast	Texas	Smith	264.548	264.680	0.132	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.106
Gulf Coast	Texas	Smith	264.680	264.941	0.260	TX423	Redsprings very gravelly sandy loam, 2 to 5 percent slopes	0.195
Gulf Coast	Texas	Smith	264.941	265.033	0.092	TX423	Redsprings very gravelly sandy loam, 8 to 25 percent sl opes	0.078
Gulf Coast	Texas	Smith	265.033	265.070	0.038	TX423	Redsprings very gravelly sandy loam, 2 to 5 percent slopes	0.028
Gulf Coast	Texas	Smith	265.070	265.086	0.015	TX423	Redsprings very gravelly sandy loam, 8 to 25 percent sl opes	0.013
Gulf Coast	Texas	Smith	265.086	265.121	0.036	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.028
Gulf Coast	Texas	Smith	265.121	265.233	0.112	TX423	Redsprings very gravelly sandy loam, 8 to 25 percent sl opes	0.095
Gulf Coast	Texas	Smith	265.233	265.387	0.154	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.123
Gulf Coast	Texas	Smith	265.387	265.649	0.262	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.210
Gulf Coast	Texas	Smith	265.649	265.970	0.321	TX423	Cuthbert gravelly fine sandy loam, 12 to 30 percent slo pes	0.257
Gulf Coast	Texas	Smith	265.970	266.077	0.108	TX423	Redsprings very gravelly sandy loam, 8 to 25 percent sl opes	0.092

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	266.077	266.117	0.040	TX423	Cuthbert gravelly fine sandy loam, 12 to 30 percent slo pes	0.032
Gulf Coast	Texas	Smith	266.117	266.281	0.164	TX423	Kirvin gravelly fine sandy loam, 2 to 8 percent slopes	0.131
Gulf Coast	Texas	Smith	266.281	266.435	0.153	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.123
Gulf Coast	Texas	Smith	266.435	266.637	0.202	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.162
Gulf Coast	Texas	Smith	266.637	266.885	0.248	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.199
Gulf Coast	Texas	Smith	266.885	266.976	0.091	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.073
Gulf Coast	Texas	Smith	266.976	267.390	0.414	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.331
Gulf Coast	Texas	Smith	267.390	267.574	0.184	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.147
Gulf Coast	Texas	Smith	267.574	267.615	0.041	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.033
Gulf Coast	Texas	Smith	267.615	267.697	0.082	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.070
Gulf Coast	Texas	Smith	267.697	267.886	0.189	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.151
Gulf Coast	Texas	Smith	267.946	267.984	0.038	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.031
Gulf Coast	Texas	Smith	267.984	268.378	0.394	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.316
Gulf Coast	Texas	Smith	268.378	268.497	0.118	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.095
Gulf Coast	Texas	Smith	268.497	268.639	0.142	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.120
Gulf Coast	Texas	Smith	268.639	268.655	0.016	TX423	Mantachie loam, frequently flooded	0.011
Gulf Coast	Texas	Smith	268.655	268.765	0.111	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.094
Gulf Coast	Texas	Smith	268.765	268.809	0.044	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.035
Gulf Coast	Texas	Smith	269.058	269.273	0.214	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.171
Gulf Coast	Texas	Smith	269.273	269.345	0.072	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.058
Gulf Coast	Texas	Smith	269.345	269.488	0.143	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.114
Gulf Coast	Texas	Smith	269.488	269.726	0.238	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.191
Gulf Coast	Texas	Smith	269.726	269.885	0.158	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.127
Gulf Coast	Texas	Smith	269.885	269.939	0.054	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.044
Gulf Coast	Texas	Smith	269.939	270.120	0.181	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.145
Gulf Coast	Texas	Smith	270.120	270.198	0.078	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.062
Gulf Coast	Texas	Smith	270.198	270.267	0.068	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.055
Gulf Coast	Texas	Smith	270.267	270.359	0.093	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.074

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	270.359	270.401	0.042	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.033
Gulf Coast	Texas	Smith	270.401	270.444	0.044	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.035
Gulf Coast	Texas	Smith	270.444	270.599	0.155	TX423	Darco loamy fine sand, 8 to 15 percent slopes	0.124
Gulf Coast	Texas	Smith	270.599	270.860	0.261	TX423	Mantachie loam, frequently flooded	0.183
Gulf Coast	Texas	Smith	270.860	270.926	0.067	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.053
Gulf Coast	Texas	Smith	270.926	271.128	0.202	TX423	Darco loamy fine sand, 8 to 15 percent slopes	0.161
Gulf Coast	Texas	Smith	271.128	271.300	0.172	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.138
Gulf Coast	Texas	Smith	271.300	271.382	0.082	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.065
Gulf Coast	Texas	Smith	271.382	271.494	0.112	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.090
Gulf Coast	Texas	Smith	271.494	271.651	0.157	TX423	Sacul very fine sandy loam, 1 to 5 percent slopes	0.134
Gulf Coast	Texas	Smith	271.651	271.712	0.060	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.048
Gulf Coast	Texas	Smith	271.712	271.849	0.138	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.110
Gulf Coast	Texas	Smith	271.849	271.955	0.105	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.090
Gulf Coast	Texas	Smith	271.955	272.095	0.140	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.112
Gulf Coast	Texas	Smith	272.095	272.110	0.015	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.013
Gulf Coast	Texas	Smith	272.110	272.160	0.049	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.039
Gulf Coast	Texas	Smith	272.160	272.221	0.061	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.052
Gulf Coast	Texas	Smith	272.221	272.264	0.043	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.035
Gulf Coast	Texas	Smith	272.264	272.365	0.101	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.081
Gulf Coast	Texas	Smith	272.365	272.775	0.410	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.328
Gulf Coast	Texas	Smith	272.775	272.994	0.219	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.175
Gulf Coast	Texas	Smith	272.994	273.097	0.103	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.088
Gulf Coast	Texas	Smith	273.097	273.113	0.015	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.012
Gulf Coast	Texas	Smith	273.113	273.409	0.296	TX423	Darco loamy fine sand, 1 to 6 percent slopes	0.237
Gulf Coast	Texas	Smith	273.409	273.473	0.064	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.051
Gulf Coast	Texas	Smith	273.614	273.750	0.136	TX423	Derly-Besner complex, 0 to 1 percent slopes	0.122
Gulf Coast	Texas	Smith	273.750	273.817	0.067	TX423	Mantachie loam, frequently flooded	0.047
Gulf Coast	Texas	Smith	273.817	274.035	0.218	TX423	Derly-Besner complex, 0 to 1 percent slopes	0.197

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	274.035	274.197	0.161	TX423	Leagueville loamy fine sand, 0 to 5 percent slopes	0.129
Gulf Coast	Texas	Smith	274.197	275.060	0.863	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.690
Gulf Coast	Texas	Smith	275.060	275.214	0.155	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.131
Gulf Coast	Texas	Smith	275.214	275.366	0.152	TX423	Darco loamy fine sand, 1 to 6 percent slopes	0.121
Gulf Coast	Texas	Smith	275.366	275.382	0.017	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.014
Gulf Coast	Texas	Smith	275.382	275.467	0.084	TX423	Darco loamy fine sand, 1 to 6 percent slopes	0.068
Gulf Coast	Texas	Smith	275.467	275.548	0.081	TX423	Mantachie loam, frequently flooded	0.057
Gulf Coast	Texas	Smith	275.548	275.570	0.022	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.018
Gulf Coast	Texas	Smith	275.570	275.714	0.144	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.115
Gulf Coast	Texas	Smith	275.714	276.313	0.599	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.479
Gulf Coast	Texas	Smith	276.313	276.536	0.223	TX423	Darco loamy fine sand, 1 to 6 percent slopes	0.178
Gulf Coast	Texas	Smith	276.536	276.909	0.373	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.298
Gulf Coast	Texas	Smith	276.909	276.974	0.066	TX423	Mantachie loam, frequently flooded	0.046
Gulf Coast	Texas	Smith	276.974	276.999	0.025	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.020
Gulf Coast	Texas	Smith	276.999	277.060	0.062	TX423	Mantachie loam, frequently flooded	0.043
Gulf Coast	Texas	Smith	277.060	277.301	0.241	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.193
Gulf Coast	Texas	Smith	277.352	277.644	0.292	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.234
Gulf Coast	Texas	Smith	277.644	277.710	0.066	TX423	Mantachie loam, frequently flooded	0.047
Gulf Coast	Texas	Smith	277.710	277.761	0.050	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.040
Gulf Coast	Texas	Smith	277.761	277.802	0.041	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.033
Gulf Coast	Texas	Smith	277.802	277.829	0.027	TX423	Mantachie loam, frequently flooded	0.019
Gulf Coast	Texas	Smith	277.829	278.377	0.548	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.439
Gulf Coast	Texas	Smith	278.377	278.509	0.132	TX423	Mantachie loam, frequently flooded	0.092
Gulf Coast	Texas	Smith	278.509	278.738	0.229	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.183
Gulf Coast	Texas	Smith	278.738	278.897	0.159	TX423	Mantachie loam, frequently flooded	0.111
Gulf Coast	Texas	Smith	278.897	279.652	0.754	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.604
Gulf Coast	Texas	Smith	279.652	279.705	0.053	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.043
Gulf Coast	Texas	Smith	279.705	280.008	0.303	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.242

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	280.008	280.062	0.054	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.043
Gulf Coast	Texas	Smith	280.062	280.220	0.158	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.126
Gulf Coast	Texas	Smith	280.220	280.316	0.096	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.077
Gulf Coast	Texas	Smith	280.316	280.381	0.065	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.052
Gulf Coast	Texas	Smith	280.381	280.543	0.162	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.129
Gulf Coast	Texas	Smith	280.543	280.629	0.086	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.069
Gulf Coast	Texas	Smith	280.629	280.678	0.050	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.040
Gulf Coast	Texas	Smith	280.678	280.732	0.054	TX423	Mantachie loam, frequently flooded	0.037
Gulf Coast	Texas	Smith	280.732	280.880	0.148	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.119
Gulf Coast	Texas	Smith	280.880	281.062	0.182	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.146
Gulf Coast	Texas	Smith	281.062	281.078	0.016	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.013
Gulf Coast	Texas	Smith	281.078	281.090	0.012	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.010
Gulf Coast	Texas	Smith	281.090	281.230	0.140	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.112
Gulf Coast	Texas	Smith	281.230	281.621	0.391	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.313
Gulf Coast	Texas	Smith	281.621	281.737	0.116	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.093
Gulf Coast	Texas	Smith	281.737	281.883	0.146	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.117
Gulf Coast	Texas	Smith	281.883	281.911	0.028	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.022
Gulf Coast	Texas	Smith	281.911	282.000	0.089	TX423	Mantachie loam, frequently flooded	0.062
Gulf Coast	Texas	Smith	282.000	282.879	0.879	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.703
Gulf Coast	Texas	Smith	282.879	282.945	0.066	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.053
Gulf Coast	Texas	Smith	282.945	282.974	0.029	TX423	Cuthbert and Redsprings soils, graded, 3 to 8 percent slopes	0.026
Gulf Coast	Texas	Smith	282.974	282.992	0.018	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.014
Gulf Coast	Texas	Smith	282.992	283.027	0.035	TX423	Cuthbert and Redsprings soils, graded, 3 to 8 percent slopes	0.031
Gulf Coast	Texas	Smith	283.027	283.083	0.056	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.045
Gulf Coast	Texas	Smith	283.083	283.318	0.235	TX423	Bernaldo fine sandy loam, 1 to 3 percent slopes	0.188
Gulf Coast	Texas	Smith	283.318	283.396	0.078	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.066
Gulf Coast	Texas	Smith	283.396	283.596	0.200	TX423	Mantachie loam, frequently flooded	0.140
Gulf Coast	Texas	Smith	283.596	283.674	0.078	TX423	Cuthbert gravelly fine sandy loam, 12 to 30 percent slo pes	0.063

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	283.674	283.873	0.199	TX423	Redsprings very gravelly sandy loam, 2 to 5 percent slopes	0.149
Gulf Coast	Texas	Smith	283.873	284.381	0.509	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.407
Gulf Coast	Texas	Smith	284.381	284.584	0.202	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.162
Gulf Coast	Texas	Smith	284.584	284.600	0.016	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.013
Gulf Coast	Texas	Smith	284.600	284.643	0.044	TX423	Cuthbert gravelly fine sandy loam, 12 to 30 percent slo pes	0.035
Gulf Coast	Texas	Smith	284.643	284.714	0.071	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.057
Gulf Coast	Texas	Smith	284.714	284.755	0.041	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.033
Gulf Coast	Texas	Smith	284.755	284.968	0.212	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.170
Gulf Coast	Texas	Smith	284.968	285.117	0.150	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.127
Gulf Coast	Texas	Smith	285.117	285.193	0.076	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.061
Gulf Coast	Texas	Smith	285.193	286.636	1.442	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	1.154
Gulf Coast	Texas	Smith	286.636	286.673	0.038	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.030
Gulf Coast	Texas	Smith	286.673	286.733	0.060	TX423	Leagueville loamy fine sand, 0 to 5 percent slopes	0.048
Gulf Coast	Texas	Smith	286.733	286.815	0.083	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.066
Gulf Coast	Texas	Smith	286.815	287.085	0.270	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.216
Gulf Coast	Texas	Smith	287.085	287.099	0.014	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.011
Gulf Coast	Texas	Smith	287.099	287.217	0.118	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.095
Gulf Coast	Texas	Smith	287.217	287.318	0.101	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.081
Gulf Coast	Texas	Smith	287.318	287.458	0.140	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.112
Gulf Coast	Texas	Smith	287.458	287.640	0.181	TX423	Cuthbert gravelly fine sandy loam, 12 to 30 percent slo pes	0.145
Gulf Coast	Texas	Smith	287.640	287.679	0.039	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.033
Gulf Coast	Texas	Smith	287.679	287.897	0.218	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.174
Gulf Coast	Texas	Smith	287.897	287.975	0.079	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.063
Gulf Coast	Texas	Smith	287.975	288.060	0.085	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.068
Gulf Coast	Texas	Smith	288.060	288.171	0.111	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.094
Gulf Coast	Texas	Smith	288.171	288.252	0.081	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.065
Gulf Coast	Texas	Smith	288.252	288.260	0.007	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.006
Gulf Coast	Texas	Smith	288.260	288.317	0.057	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.046

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	288.317	288.469	0.152	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.130
Gulf Coast	Texas	Smith	288.469	288.544	0.075	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.060
Gulf Coast	Texas	Smith	288.544	288.587	0.044	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.035
Gulf Coast	Texas	Smith	288.587	288.594	0.006	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.005
Gulf Coast	Texas	Smith	288.594	288.619	0.025	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.020
Gulf Coast	Texas	Smith	288.619	288.639	0.021	TX423	Tenaha loamy fine sand, 8 to 20 percent slopes	0.017
Gulf Coast	Texas	Smith	288.639	288.744	0.104	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.084
Gulf Coast	Texas	Smith	288.744	288.768	0.025	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.021
Gulf Coast	Texas	Smith	288.768	288.974	0.206	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.164
Gulf Coast	Texas	Smith	288.974	289.127	0.153	TX423	Kullit fine sandy loam, 1 to 3 percent slopes	0.130
Gulf Coast	Texas	Smith	289.127	289.183	0.056	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.045
Gulf Coast	Texas	Smith	289.183	289.237	0.054	TX423	Kullit fine sandy loam, 1 to 3 percent slopes	0.046
Gulf Coast	Texas	Smith	289.237	289.309	0.072	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.057
Gulf Coast	Texas	Smith	289.309	289.427	0.118	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.094
Gulf Coast	Texas	Smith	289.427	289.477	0.050	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.040
Gulf Coast	Texas	Smith	289.477	289.494	0.016	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.013
Gulf Coast	Texas	Smith	289.494	289.774	0.280	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.224
Gulf Coast	Texas	Smith	289.774	290.045	0.272	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.217
Gulf Coast	Texas	Smith	290.045	290.160	0.115	TX423	Mantachie loam, frequently flooded	0.080
Gulf Coast	Texas	Smith	290.160	290.351	0.191	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.153
Gulf Coast	Texas	Smith	290.351	290.410	0.058	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.047
Gulf Coast	Texas	Smith	290.410	290.623	0.213	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.170
Gulf Coast	Texas	Smith	290.623	290.688	0.065	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.052
Gulf Coast	Texas	Smith	290.688	290.863	0.175	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.140
Gulf Coast	Texas	Smith	290.863	290.987	0.124	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.099
Gulf Coast	Texas	Smith	290.987	291.059	0.073	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.058
Gulf Coast	Texas	Smith	291.059	291.168	0.109	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.087
Gulf Coast	Texas	Smith	291.168	291.252	0.083	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.067

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Smith	291.252	291.293	0.041	TX423	Mantachie loam, frequently flooded	0.029
Gulf Coast	Texas	Smith	291.293	291.354	0.062	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.049
Gulf Coast	Texas	Smith	291.354	291.579	0.224	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.179
Gulf Coast	Texas	Smith	291.579	291.659	0.080	TX423	Bowie fine sandy loam, 1 to 5 percent slopes	0.064
Gulf Coast	Texas	Smith	291.659	291.693	0.034	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.027
Gulf Coast	Texas	Smith	291.693	291.783	0.090	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.072
Gulf Coast	Texas	Smith	291.783	291.805	0.022	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.018
Gulf Coast	Texas	Smith	291.805	292.013	0.208	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.166
Gulf Coast	Texas	Smith	292.013	292.128	0.115	TX423	Mantachie loam, frequently flooded	0.080
Gulf Coast	Texas	Smith	292.128	292.208	0.081	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.065
Gulf Coast	Texas	Smith	292.208	292.281	0.073	TX423	Kirvin very fine sandy loam, 1 to 5 percent slopes	0.058
Gulf Coast	Texas	Smith	292.281	292.362	0.080	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.064
Gulf Coast	Texas	Smith	292.362	292.565	0.203	TX423	Mantachie loam, frequently flooded	0.142
Gulf Coast	Texas	Smith	292.565	292.763	0.198	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.168
Gulf Coast	Texas	Smith	292.763	292.847	0.083	TX423	Darco loamy fine sand, 8 to 15 percent slopes	0.067
Gulf Coast	Texas	Smith	292.847	292.863	0.016	TX423	Bowie fine sandy loam, 5 to 8 percent slopes	0.014
Gulf Coast	Texas	Smith	292.863	292.997	0.134	TX423	Gallime fine sandy loam, 1 to 5 percent slopes	0.114
Gulf Coast	Texas	Smith	292.997	293.187	0.190	TX423	Lilbert loamy fine sand, 1 to 6 percent slopes	0.152
Gulf Coast	Texas	Smith	293.187	293.287	0.101	TX423	Mantachie loam, frequently flooded	0.071
Gulf Coast	Texas	Smith	293.287	293.322	0.034	TX423	Cuthbert fine sandy loam, 5 to 20 percent slopes	0.027
Gulf Coast	Texas	Cherokee	293.322	293.427	0.106	TX073	Lilbert loamy fine sand, gently sloping	0.106
Gulf Coast	Texas	Cherokee	293.551	293.596	0.045	TX073	Briley loamy fine sand, sloping	0.045
Gulf Coast	Texas	Cherokee	293.596	293.619	0.024	TX073	Ruston fine sandy loam, sloping	0.024
Gulf Coast	Texas	Cherokee	293.648	293.685	0.037	TX073	Lilbert loamy fine sand, sloping	0.037
Gulf Coast	Texas	Cherokee	293.685	293.801	0.116	TX073	Briley loamy fine sand, sloping	0.116
Gulf Coast	Texas	Cherokee	293.976	294.056	0.080	TX073	Darco loamy fine sand, strongly sloping, eroded	0.080
Gulf Coast	Texas	Cherokee	294.093	294.134	0.041	TX073	Darco loamy fine sand, strongly sloping	0.041
Gulf Coast	Texas	Cherokee	294.255	294.289	0.034	TX073	Darco loamy fine sand, strongly sloping	0.034

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Cherokee	294.317	294.375	0.058	TX073	Darco loamy fine sand, strongly sloping	0.058
Gulf Coast	Texas	Cherokee	294.434	294.501	0.067	TX073	Darco loamy fine sand, strongly sloping	0.067
Gulf Coast	Texas	Cherokee	294.501	294.746	0.245	TX073	Bowie fine sandy loam, sloping	0.245
Gulf Coast	Texas	Cherokee	294.746	294.760	0.013	TX073	Sacul fine sandy loam, sloping	0.013
Gulf Coast	Texas	Cherokee	294.760	294.796	0.036	TX073	Lilbert loamy fine sand, sloping	0.036
Gulf Coast	Texas	Cherokee	294.796	295.005	0.208	TX073	Sacul fine sandy loam, sloping	0.208
Gulf Coast	Texas	Cherokee	295.005	295.043	0.038	TX073	Lilbert loamy fine sand, sloping	0.038
Gulf Coast	Texas	Cherokee	295.043	295.043	0.000	TX073	Sacul fine sandy loam, sloping	0.000
Gulf Coast	Texas	Cherokee	295.043	295.130	0.086	TX073	Bowie fine sandy loam, sloping	0.086
Gulf Coast	Texas	Cherokee	295.130	295.196	0.067	TX073	Sacul fine sandy loam, sloping	0.067
Gulf Coast	Texas	Cherokee	295.254	295.266	0.012	TX073	Bowie fine sandy loam, sloping	0.012
Gulf Coast	Texas	Cherokee	295.320	295.521	0.202	TX073	Bowie fine sandy loam, sloping	0.202
Gulf Coast	Texas	Cherokee	295.539	295.584	0.045	TX073	Bowie fine sandy loam, sloping	0.045
Gulf Coast	Texas	Cherokee	295.942	296.100	0.158	TX073	Lilbert loamy fine sand, sloping	0.158
Gulf Coast	Texas	Cherokee	296.164	296.210	0.046	TX073	Lilbert loamy fine sand, sloping	0.046
Gulf Coast	Texas	Cherokee	296.210	296.340	0.130	TX073	Lilbert loamy fine sand, gently sloping	0.130
Gulf Coast	Texas	Cherokee	296.401	296.454	0.052	TX073	Darco loamy fine sand, strongly sloping	0.052
Gulf Coast	Texas	Cherokee	296.512	296.579	0.067	TX073	Darco loamy fine sand, strongly sloping	0.067
Gulf Coast	Texas	Cherokee	296.790	296.995	0.205	TX073	Briley loamy fine sand, sloping	0.205
Gulf Coast	Texas	Cherokee	296.995	297.043	0.048	TX073	Bowie fine sandy loam, sloping	0.048
Gulf Coast	Texas	Cherokee	297.043	297.221	0.178	TX073	Briley loamy fine sand, sloping	0.178
Gulf Coast	Texas	Cherokee	297.330	297.373	0.043	TX073	Woodtell fine sandy loam, gently sloping	0.043
Gulf Coast	Texas	Cherokee	297.373	297.447	0.074	TX073	Woodtell fine sandy loam, sloping	0.074
Gulf Coast	Texas	Cherokee	297.557	297.671	0.114	TX073	Woodtell fine sandy loam, sloping	0.114
Gulf Coast	Texas	Cherokee	297.711	297.779	0.068	TX073	Darco loamy fine sand, strongly sloping	0.068
Gulf Coast	Texas	Cherokee	297.779	297.889	0.110	TX073	Briley loamy fine sand, sloping	0.110
Gulf Coast	Texas	Cherokee	297.994	298.085	0.091	TX073	Briley loamy fine sand, sloping	0.091
Gulf Coast	Texas	Cherokee	298.085	298.095	0.010	TX073	Darco loamy fine sand, strongly sloping	0.010

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Cherokee	298.095	298.226	0.131	TX073	Briley loamy fine sand, sloping	0.131
Gulf Coast	Texas	Cherokee	298.226	298.580	0.354	TX073	Darco loamy fine sand, strongly sloping	0.354
Gulf Coast	Texas	Cherokee	298.580	298.652	0.073	TX073	Angelina	0.071
Gulf Coast	Texas	Cherokee	298.652	298.698	0.045	TX073	Tenaha loamy fine sand, strongly sloping	0.036
Gulf Coast	Texas	Cherokee	298.771	298.810	0.038	TX073	Darco loamy fine sand, strongly sloping	0.038
Gulf Coast	Texas	Cherokee	298.810	298.835	0.025	TX073	Angelina	0.024
Gulf Coast	Texas	Cherokee	298.835	298.935	0.100	TX073	Darco loamy fine sand, strongly sloping	0.100
Gulf Coast	Texas	Cherokee	298.935	298.964	0.029	TX073	Angelina	0.028
Gulf Coast	Texas	Cherokee	299.051	299.118	0.068	TX073	Angelina	0.066
Gulf Coast	Texas	Cherokee	299.118	299.298	0.180	TX073	Darco loamy fine sand, strongly sloping	0.180
Gulf Coast	Texas	Cherokee	299.298	299.319	0.021	TX073	Lilbert loamy fine sand, sloping	0.021
Gulf Coast	Texas	Cherokee	299.319	299.407	0.088	TX073	Darco loamy fine sand, strongly sloping	0.088
Gulf Coast	Texas	Cherokee	299.469	299.528	0.059	TX073	Briley loamy fine sand, sloping	0.059
Gulf Coast	Texas	Cherokee	299.528	299.717	0.189	TX073	Lilbert loamy fine sand, sloping, eroded	0.189
Gulf Coast	Texas	Cherokee	299.717	299.859	0.142	TX073	Briley loamy fine sand, sloping	0.142
Gulf Coast	Texas	Cherokee	300.107	300.113	0.005	TX073	Briley loamy fine sand, sloping	0.005
Gulf Coast	Texas	Cherokee	300.113	300.455	0.342	TX073	Sacul fine sandy loam, gently sloping	0.342
Gulf Coast	Texas	Cherokee	300.455	300.517	0.062	TX073	Sacul fine sandy loam, sloping	0.062
Gulf Coast	Texas	Cherokee	300.517	300.635	0.118	TX073	Sacul fine sandy loam, gently sloping	0.118
Gulf Coast	Texas	Cherokee	300.635	300.747	0.112	TX073	Lilbert loamy fine sand, sloping	0.112
Gulf Coast	Texas	Rusk	300.928	301.660	0.731	TX401	Keechi fine sandy loam, frequently flooded	0.695
Gulf Coast	Texas	Rusk	301.660	301.944	0.284	TX401	Laneville loam, frequently flooded	0.233
Gulf Coast	Texas	Rusk	301.944	302.046	0.102	TX401	Keechi fine sandy loam, frequently flooded	0.097
Gulf Coast	Texas	Rusk	302.046	302.107	0.061	TX401	Laneville loam, frequently flooded	0.050
Gulf Coast	Texas	Rusk	302.107	302.474	0.367	TX401	Kirvin fine sandy loam, 5 to 15 percent slopes	0.330
Gulf Coast	Texas	Rusk	302.474	302.636	0.163	TX401	Latex very fine sandy loam, 1 to 3 percent slopes	0.138
Gulf Coast	Texas	Rusk	302.636	302.912	0.276	TX401	Sawlit-Sawtown complex, 0 to 2 percent slopes	0.262
Gulf Coast	Texas	Rusk	302.912	302.986	0.074	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.068

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Rusk	302.986	303.173	0.187	TX401	Laneville loam, frequently flooded	0.153
Gulf Coast	Texas	Rusk	303.173	303.293	0.120	TX401	Sacul fine sandy loam, 1 to 3 percent slopes	0.110
Gulf Coast	Texas	Rusk	303.293	303.319	0.026	TX401	Sawlit-Sawtown complex, 0 to 2 percent slopes	0.025
Gulf Coast	Texas	Rusk	303.319	303.423	0.104	TX401	Kirvin fine sandy loam, 2 to 5 percent slopes	0.096
Gulf Coast	Texas	Rusk	303.423	303.503	0.079	TX401	Sawlit-Sawtown complex, 0 to 2 percent slopes	0.075
Gulf Coast	Texas	Rusk	303.503	303.541	0.039	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.036
Gulf Coast	Texas	Rusk	303.541	303.724	0.183	TX401	Sawlit-Sawtown complex, 0 to 2 percent slopes	0.174
Gulf Coast	Texas	Rusk	303.724	303.810	0.086	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.079
Gulf Coast	Texas	Rusk	303.810	303.916	0.106	TX401	Laneville loam, frequently flooded	0.087
Gulf Coast	Texas	Rusk	303.916	304.023	0.106	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.098
Gulf Coast	Texas	Rusk	304.023	304.116	0.093	TX401	Sawlit-Sawtown complex, 0 to 2 percent slopes	0.089
Gulf Coast	Texas	Rusk	304.116	304.158	0.043	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.039
Gulf Coast	Texas	Rusk	304.158	304.186	0.028	TX401	Kirvin fine sandy loam, 2 to 5 percent slopes	0.026
Gulf Coast	Texas	Rusk	304.186	304.292	0.106	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.097
Gulf Coast	Texas	Rusk	304.292	304.467	0.175	TX401	Kirvin fine sandy loam, 2 to 5 percent slopes	0.161
Gulf Coast	Texas	Rusk	304.467	304.635	0.169	TX401	Lilbert loamy fine sand, 2 to 5 percent slopes	0.155
Gulf Coast	Texas	Rusk	304.635	304.912	0.276	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.254
Gulf Coast	Texas	Rusk	304.912	305.129	0.218	TX401	Kirvin fine sandy loam, 2 to 5 percent slopes	0.200
Gulf Coast	Texas	Rusk	305.129	305.383	0.253	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.233
Gulf Coast	Texas	Rusk	305.383	305.548	0.166	TX401	Redsprings gravelly fine sandy loam, 15 to 40 percent slopes	0.161
Gulf Coast	Texas	Rusk	305.972	306.489	0.517	TX401	Redsprings gravelly fine sandy loam, 5 to 15 percent slopes	0.491
Gulf Coast	Texas	Rusk	306.489	306.779	0.290	TX401	Darco loamy fine sand, 8 to 15 percent slope	0.267
Gulf Coast	Texas	Rusk	306.779	306.855	0.076	TX401	Redsprings gravelly fine sandy loam, 5 to 15 percent slopes	0.072
Gulf Coast	Texas	Rusk	306.855	307.142	0.287	TX401	Tenaha loamy fine sand, 5 to 15 percent slopes	0.258
Gulf Coast	Texas	Rusk	307.254	307.317	0.063	TX401	Darco loamy fine sand, 1 to 8 percent slopes	0.058
Gulf Coast	Texas	Rusk	307.317	307.355	0.038	TX401	Tenaha loamy fine sand, 5 to 15 percent slopes	0.034
Gulf Coast	Texas	Rusk	307.355	307.419	0.064	TX401	Darco loamy fine sand, 1 to 8 percent slopes	0.059
Gulf Coast	Texas	Rusk	307.580	307.635	0.055	TX401	Tenaha loamy fine sand, 5 to 15 percent slopes	0.049

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Rusk	307.792	307.981	0.189	TX401	Lilbert loamy fine sand, 2 to 5 percent slopes	0.174
Gulf Coast	Texas	Rusk	307.981	308.106	0.125	TX401	Tenaha loamy fine sand, 5 to 15 percent slopes	0.112
Gulf Coast	Texas	Rusk	308.106	308.584	0.478	TX401	Laneville loam, frequently flooded	0.392
Gulf Coast	Texas	Rusk	308.584	308.829	0.245	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.225
Gulf Coast	Texas	Rusk	308.829	308.999	0.170	TX401	Sacul fine sandy loam, 1 to 3 percent slopes	0.157
Gulf Coast	Texas	Rusk	308.999	309.205	0.206	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.189
Gulf Coast	Texas	Rusk	309.205	309.340	0.135	TX401	Laneville loam, frequently flooded	0.111
Gulf Coast	Texas	Rusk	309.340	309.414	0.075	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.069
Gulf Coast	Texas	Rusk	309.414	309.632	0.218	TX401	Bowie very fine sandy loam, 1 to 4 percent slopes	0.196
Gulf Coast	Texas	Rusk	309.632	309.701	0.068	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.063
Gulf Coast	Texas	Rusk	309.701	309.948	0.248	TX401	Bowie very fine sandy loam, 1 to 4 percent slopes	0.223
Gulf Coast	Texas	Rusk	309.948	310.073	0.125	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.115
Gulf Coast	Texas	Rusk	310.073	310.163	0.090	TX401	Bowie very fine sandy loam, 1 to 4 percent slopes	0.081
Gulf Coast	Texas	Rusk	310.163	310.284	0.121	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.111
Gulf Coast	Texas	Rusk	310.284	310.489	0.205	TX401	Lilbert loamy fine sand, 2 to 5 percent slopes	0.188
Gulf Coast	Texas	Rusk	310.489	310.620	0.131	TX401	Kirvin fine sandy loam, 5 to 15 percent slopes	0.118
Gulf Coast	Texas	Rusk	310.620	310.693	0.073	TX401	Bowie very fine sandy loam, 1 to 4 percent slopes	0.066
Gulf Coast	Texas	Rusk	310.693	310.786	0.093	TX401	Kirvin fine sandy loam, 5 to 15 percent slopes	0.083
Gulf Coast	Texas	Rusk	310.786	310.988	0.202	TX401	Bowie very fine sandy loam, 1 to 4 percent slopes	0.182
Gulf Coast	Texas	Rusk	310.988	311.217	0.229	TX401	Sacul fine sandy loam, 1 to 3 percent slopes	0.211
Gulf Coast	Texas	Rusk	311.217	311.340	0.123	TX401	Kirvin fine sandy loam, 2 to 5 percent slopes	0.113
Gulf Coast	Texas	Rusk	311.340	311.409	0.069	TX401	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.063
Gulf Coast	Texas	Rusk	311.409	312.665	1.257	TX401	Mattex clay loam, frequently flooded	1.068
Gulf Coast	Texas	Rusk	312.665	312.733	0.067	TX401	Keechi fine sandy loam, frequently flooded	0.064
Gulf Coast	Texas	Rusk	312.733	313.690	0.957	TX401	Mattex clay loam, frequently flooded	0.813
Gulf Coast	Texas	Rusk	313.690	313.745	0.056	TX401	Laneville loam, occasionally flooded	0.046
Gulf Coast	Texas	Rusk	313.745	313.757	0.011	TX401	Mattex clay loam, frequently flooded	0.010
Gulf Coast	Texas	Rusk	313.757	313.793	0.036	TX401	Laneville loam, occasionally flooded	0.030

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Rusk	313.793	313.835	0.042	TX401	Mattex clay loam, frequently flooded	0.036
Gulf Coast	Texas	Rusk	313.835	314.073	0.238	TX401	Laneville loam, occasionally flooded	0.195
Gulf Coast	Texas	Rusk	314.073	314.139	0.065	TX401	Kirvin fine sandy loam, 5 to 15 percent slopes	0.059
Gulf Coast	Texas	Rusk	314.139	314.211	0.072	TX401	Sacul fine sandy loam, 1 to 3 percent slopes	0.066
Gulf Coast	Texas	Rusk	314.211	314.224	0.014	TX401	Bowie very fine sandy loam, 1 to 4 percent slopes	0.012
Gulf Coast	Texas	Rusk	314.224	314.323	0.099	TX401	Sacul fine sandy loam, 1 to 3 percent slopes	0.091
Gulf Coast	Texas	Rusk	314.323	314.450	0.127	TX401	Kirvin fine sandy loam, 5 to 15 percent slopes	0.114
Gulf Coast	Texas	Rusk	314.450	314.509	0.059	TX401	Laneville loam, occasionally flooded	0.048
Gulf Coast	Texas	Rusk	314.509	314.563	0.054	TX401	Kirvin fine sandy loam, 2 to 5 percent slopes	0.050
Gulf Coast	Texas	Nacogdoches	314.563	314.717	0.154	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.116
Gulf Coast	Texas	Nacogdoches	314.717	314.929	0.212	TX347	Bowie fine sandy loam, 1 to 8 percent slopes	0.170
Gulf Coast	Texas	Nacogdoches	314.929	314.941	0.011	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.009
Gulf Coast	Texas	Nacogdoches	314.941	315.009	0.068	TX347	Kullit fine sandy loam, 1 to 3 percent slopes	0.058
Gulf Coast	Texas	Nacogdoches	315.009	315.176	0.167	TX347	Sacul fine sandy loam, 5 to 20 percent slopes	0.134
Gulf Coast	Texas	Nacogdoches	315.176	315.283	0.107	TX347	Bowie fine sandy loam, 1 to 8 percent slopes	0.085
Gulf Coast	Texas	Nacogdoches	315.283	315.347	0.065	TX347	Sacul fine sandy loam, 1 to 5 percent slopes	0.052
Gulf Coast	Texas	Nacogdoches	315.347	315.417	0.069	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.052
Gulf Coast	Texas	Nacogdoches	315.417	315.439	0.023	TX347	Kullit fine sandy loam, 1 to 3 percent slopes	0.019
Gulf Coast	Texas	Nacogdoches	315.439	315.810	0.371	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.278
Gulf Coast	Texas	Nacogdoches	315.810	315.924	0.114	TX347	Kullit fine sandy loam, 1 to 3 percent slopes	0.097
Gulf Coast	Texas	Nacogdoches	315.924	316.030	0.106	TX347	Sacul fine sandy loam, 1 to 5 percent slopes	0.085
Gulf Coast	Texas	Nacogdoches	316.030	316.097	0.066	TX347	Marietta soils, frequently flooded	0.063
Gulf Coast	Texas	Nacogdoches	316.097	316.390	0.293	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.235
Gulf Coast	Texas	Nacogdoches	316.548	316.615	0.067	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.054
Gulf Coast	Texas	Nacogdoches	316.615	317.005	0.390	TX347	Marietta soils, frequently flooded	0.370
Gulf Coast	Texas	Nacogdoches	317.005	317.047	0.042	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.034
Gulf Coast	Texas	Nacogdoches	317.047	317.054	0.007	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.007
Gulf Coast	Texas	Nacogdoches	317.054	317.078	0.024	TX347	Darco loamy fine sand, 8 to 20 percent slopes	0.019

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Nacogdoches	317.078	317.221	0.143	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.114
Gulf Coast	Texas	Nacogdoches	317.221	317.377	0.156	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.125
Gulf Coast	Texas	Nacogdoches	317.377	317.449	0.072	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.054
Gulf Coast	Texas	Nacogdoches	317.449	317.479	0.030	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.024
Gulf Coast	Texas	Nacogdoches	317.479	317.513	0.034	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.025
Gulf Coast	Texas	Nacogdoches	317.513	317.529	0.016	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.013
Gulf Coast	Texas	Nacogdoches	317.529	317.560	0.032	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.024
Gulf Coast	Texas	Nacogdoches	317.560	317.627	0.066	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.053
Gulf Coast	Texas	Nacogdoches	317.627	317.696	0.070	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.056
Gulf Coast	Texas	Nacogdoches	317.696	317.750	0.054	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.043
Gulf Coast	Texas	Nacogdoches	317.750	317.918	0.169	TX347	Briley loamy fine sand, 1 to 8 percent slopes	0.152
Gulf Coast	Texas	Nacogdoches	317.918	317.976	0.057	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.049
Gulf Coast	Texas	Nacogdoches	317.976	318.227	0.252	TX347	Trawick gravelly fine sandy loam, 8 to 20 percent slopes	0.163
Gulf Coast	Texas	Nacogdoches	318.227	318.290	0.063	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.050
Gulf Coast	Texas	Nacogdoches	318.290	318.336	0.046	TX347	Briley loamy fine sand, 1 to 8 percent slopes	0.041
Gulf Coast	Texas	Nacogdoches	318.336	318.430	0.094	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.085
Gulf Coast	Texas	Nacogdoches	318.430	318.543	0.113	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.090
Gulf Coast	Texas	Nacogdoches	318.543	318.659	0.116	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.105
Gulf Coast	Texas	Nacogdoches	318.659	318.738	0.079	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.063
Gulf Coast	Texas	Nacogdoches	318.738	318.917	0.179	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.143
Gulf Coast	Texas	Nacogdoches	318.917	318.966	0.049	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.044
Gulf Coast	Texas	Nacogdoches	318.966	319.011	0.045	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.036
Gulf Coast	Texas	Nacogdoches	319.011	319.588	0.577	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.520
Gulf Coast	Texas	Nacogdoches	319.588	319.667	0.079	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.063
Gulf Coast	Texas	Nacogdoches	319.667	319.813	0.146	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.132
Gulf Coast	Texas	Nacogdoches	319.813	320.018	0.206	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.164
Gulf Coast	Texas	Nacogdoches	320.018	320.046	0.027	TX347	Bernaldo-Besner complex	0.022
Gulf Coast	Texas	Nacogdoches	320.046	320.165	0.120	TX347	Lilbert loamy fine sand, 1 to 8 percent slopes	0.096

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Nacogdoches	320.165	320.226	0.060	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.048
Gulf Coast	Texas	Nacogdoches	320.272	320.315	0.043	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.034
Gulf Coast	Texas	Nacogdoches	320.315	320.381	0.067	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.060
Gulf Coast	Texas	Nacogdoches	320.381	320.542	0.161	TX347	Briley loamy fine sand, 1 to 8 percent slopes	0.145
Gulf Coast	Texas	Nacogdoches	320.542	320.650	0.108	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.097
Gulf Coast	Texas	Nacogdoches	320.783	320.839	0.056	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.050
Gulf Coast	Texas	Nacogdoches	320.839	320.859	0.020	TX347	Bernaldo-Besner complex	0.016
Gulf Coast	Texas	Nacogdoches	320.859	320.926	0.067	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.060
Gulf Coast	Texas	Nacogdoches	320.926	321.103	0.177	TX347	Darco loamy fine sand, 1 to 8 percent slopes	0.151
Gulf Coast	Texas	Nacogdoches	321.103	321.270	0.167	TX347	Tenaha loamy fine sand, 5 to 20 percent slopes	0.150
Gulf Coast	Texas	Nacogdoches	321.270	321.401	0.131	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.105
Gulf Coast	Texas	Nacogdoches	321.401	321.493	0.091	TX347	Bernaldo-Besner complex	0.073
Gulf Coast	Texas	Nacogdoches	321.493	321.604	0.111	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.089
Gulf Coast	Texas	Nacogdoches	321.604	321.685	0.081	TX347	Briley loamy fine sand, 1 to 8 percent slopes	0.073
Gulf Coast	Texas	Nacogdoches	321.685	321.757	0.072	TX347	Bernaldo-Besner complex	0.058
Gulf Coast	Texas	Nacogdoches	321.757	321.878	0.121	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.097
Gulf Coast	Texas	Nacogdoches	321.878	321.971	0.093	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.061
Gulf Coast	Texas	Nacogdoches	321.971	322.492	0.520	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.442
Gulf Coast	Texas	Nacogdoches	322.492	322.506	0.014	TX347	Hannahatchee loam, frequently flooded	0.011
Gulf Coast	Texas	Nacogdoches	322.506	322.576	0.070	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.059
Gulf Coast	Texas	Nacogdoches	322.576	322.739	0.164	TX347	Hannahatchee loam, frequently flooded	0.123
Gulf Coast	Texas	Nacogdoches	322.739	322.790	0.051	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.041
Gulf Coast	Texas	Nacogdoches	322.790	322.870	0.080	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.060
Gulf Coast	Texas	Nacogdoches	322.870	322.952	0.082	TX347	Trawick clay loam, 8 to 20 percent slopes	0.053
Gulf Coast	Texas	Nacogdoches	322.952	322.979	0.027	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.023
Gulf Coast	Texas	Nacogdoches	322.979	323.271	0.292	TX347	Trawick clay loam, 8 to 20 percent slopes	0.190
Gulf Coast	Texas	Nacogdoches	323.271	323.620	0.349	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.297
Gulf Coast	Texas	Nacogdoches	323.620	323.670	0.050	TX347	Nacogdoches gravelly fine sandy loam, 1 to 8 percent slopes	0.043

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Nacogdoches	323.670	323.869	0.198	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.178
Gulf Coast	Texas	Nacogdoches	323.869	324.140	0.271	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.231
Gulf Coast	Texas	Nacogdoches	324.140	324.255	0.115	TX347	Kirvin fine sandy loam, 1 to 8 percent slopes	0.086
Gulf Coast	Texas	Nacogdoches	324.255	324.271	0.016	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.010
Gulf Coast	Texas	Nacogdoches	324.271	324.625	0.355	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.301
Gulf Coast	Texas	Nacogdoches	324.625	324.775	0.150	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.097
Gulf Coast	Texas	Nacogdoches	324.775	325.005	0.229	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.195
Gulf Coast	Texas	Nacogdoches	325.005	325.163	0.158	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.103
Gulf Coast	Texas	Nacogdoches	325.163	325.629	0.466	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.396
Gulf Coast	Texas	Nacogdoches	325.629	325.793	0.164	TX347	Trawick clay loam, 8 to 20 percent slopes	0.107
Gulf Coast	Texas	Nacogdoches	325.793	325.797	0.004	TX347	Hannahatchee loam, frequently flooded	0.003
Gulf Coast	Texas	Nacogdoches	325.797	325.875	0.078	TX347	Trawick clay loam, 8 to 20 percent slopes	0.051
Gulf Coast	Texas	Nacogdoches	325.875	326.119	0.244	TX347	Hannahatchee loam, frequently flooded	0.183
Gulf Coast	Texas	Nacogdoches	326.119	326.146	0.027	TX347	Trawick clay loam, 8 to 20 percent slopes	0.018
Gulf Coast	Texas	Nacogdoches	326.146	326.405	0.259	TX347	Hannahatchee loam, frequently flooded	0.194
Gulf Coast	Texas	Nacogdoches	326.405	326.554	0.149	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.097
Gulf Coast	Texas	Nacogdoches	326.554	326.667	0.113	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.096
Gulf Coast	Texas	Nacogdoches	326.667	326.776	0.110	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.071
Gulf Coast	Texas	Nacogdoches	326.776	326.826	0.049	TX347	Hannahatchee loam, frequently flooded	0.037
Gulf Coast	Texas	Nacogdoches	326.826	326.960	0.134	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.087
Gulf Coast	Texas	Nacogdoches	326.960	327.279	0.319	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.255
Gulf Coast	Texas	Nacogdoches	327.279	327.437	0.158	TX347	Mollville loam	0.150
Gulf Coast	Texas	Nacogdoches	327.437	327.634	0.198	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.158
Gulf Coast	Texas	Nacogdoches	327.634	327.685	0.051	TX347	Mollville loam	0.048
Gulf Coast	Texas	Nacogdoches	327.751	328.524	0.773	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.619
Gulf Coast	Texas	Nacogdoches	328.601	328.636	0.036	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.028
Gulf Coast	Texas	Nacogdoches	328.636	329.196	0.560	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.504
Gulf Coast	Texas	Nacogdoches	329.196	329.575	0.379	TX347	Alto clay loam, 0 to 1 percent slopes	0.341

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Nacogdoches	329.575	329.741	0.167	TX347	Nacogdoches gravelly fine sandy loam, 1 to 8 percent slopes	0.142
Gulf Coast	Texas	Nacogdoches	329.741	329.823	0.081	TX347	Nacogdoches clay loam, 2 to 5 percent slopes, eroded	0.069
Gulf Coast	Texas	Nacogdoches	329.823	329.870	0.048	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.038
Gulf Coast	Texas	Nacogdoches	329.870	329.893	0.023	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.021
Gulf Coast	Texas	Nacogdoches	329.915	330.241	0.326	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.277
Gulf Coast	Texas	Nacogdoches	330.241	330.320	0.078	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.071
Gulf Coast	Texas	Nacogdoches	330.320	330.405	0.085	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.073
Gulf Coast	Texas	Nacogdoches	330.405	330.579	0.174	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.113
Gulf Coast	Texas	Nacogdoches	330.579	330.875	0.296	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.252
Gulf Coast	Texas	Nacogdoches	330.875	330.937	0.062	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.040
Gulf Coast	Texas	Nacogdoches	330.937	330.966	0.029	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.026
Gulf Coast	Texas	Nacogdoches	330.966	331.057	0.091	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.059
Gulf Coast	Texas	Nacogdoches	331.057	331.071	0.014	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.013
Gulf Coast	Texas	Nacogdoches	331.071	331.227	0.157	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.133
Gulf Coast	Texas	Nacogdoches	331.227	331.289	0.061	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.040
Gulf Coast	Texas	Nacogdoches	331.289	331.357	0.068	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.061
Gulf Coast	Texas	Nacogdoches	331.357	331.392	0.036	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.023
Gulf Coast	Texas	Nacogdoches	331.392	331.596	0.204	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.184
Gulf Coast	Texas	Nacogdoches	331.596	331.684	0.087	TX347	Nacogdoches gravelly fine sandy loam, 1 to 8 percent slopes	0.074
Gulf Coast	Texas	Nacogdoches	331.684	331.906	0.222	TX347	Alto fine sandy loam, 0 to 4 percent slopes	0.200
Gulf Coast	Texas	Nacogdoches	331.906	332.049	0.143	TX347	Briley loamy fine sand, 1 to 8 percent slopes	0.129
Gulf Coast	Texas	Nacogdoches	332.049	332.374	0.325	TX347	Trawick clay loam, 8 to 20 percent slopes	0.212
Gulf Coast	Texas	Nacogdoches	332.374	332.909	0.535	TX347	Nacogdoches fine sandy loam, 1 to 8 percent slopes	0.455
Gulf Coast	Texas	Nacogdoches	332.909	332.946	0.036	TX347	Bernaldo-Besner complex	0.029
Gulf Coast	Texas	Nacogdoches	332.946	333.049	0.104	TX347	Attoyac fine sandy loam, 8 to 15 percent slopes	0.088
Gulf Coast	Texas	Nacogdoches	333.049	333.181	0.132	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.106
Gulf Coast	Texas	Nacogdoches	333.181	333.555	0.374	TX347	Bernaldo-Besner complex	0.299
Gulf Coast	Texas	Nacogdoches	333.555	333.598	0.043	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.034

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Nacogdoches	333.598	333.639	0.041	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.033
Gulf Coast	Texas	Nacogdoches	333.639	333.824	0.185	TX347	Cuthbert fine sandy loam, 8 to 20 percent slopes	0.148
Gulf Coast	Texas	Nacogdoches	333.824	333.971	0.147	TX347	Attoyac fine sandy loam, 0 to 4 percent slopes	0.118
Gulf Coast	Texas	Nacogdoches	333.971	334.070	0.099	TX347	Trawick fine sandy loam, 8 to 20 percent slopes	0.064
Gulf Coast	Texas	Nacogdoches	334.070	334.143	0.074	TX347	Marietta soils, frequently flooded	0.070
Gulf Coast	Texas	Cherokee	334.995	335.068	0.073	TX073	Mantachie clay loam	0.070
Gulf Coast	Texas	Cherokee	335.231	335.252	0.020	TX073	Mantachie clay loam	0.019
Gulf Coast	Texas	Cherokee	335.273	335.344	0.072	TX073	Mantachie clay loam	0.068
Gulf Coast	Texas	Cherokee	335.448	336.265	0.817	TX073	Mantachie clay loam	0.776
Gulf Coast	Texas	Cherokee	336.265	336.579	0.314	TX073	Marietta clay loam	0.267
Gulf Coast	Texas	Cherokee	336.579	337.274	0.695	TX073	Mantachie clay loam	0.660
Gulf Coast	Texas	Cherokee	337.274	337.304	0.030	TX073	Cuthbert fine sandy loam, strongly sloping	0.025
Gulf Coast	Texas	Cherokee	337.314	337.367	0.053	TX073	Sacul fine sandy loam, strongly sloping	0.053
Gulf Coast	Texas	Cherokee	337.367	337.404	0.037	TX073	Bowie fine sandy loam, sloping	0.037
Gulf Coast	Texas	Cherokee	337.404	337.636	0.233	TX073	Ruston fine sandy loam, sloping	0.233
Gulf Coast	Texas	Cherokee	337.636	337.816	0.180	TX073	Cuthbert fine sandy loam, strongly sloping	0.153
Gulf Coast	Texas	Cherokee	337.816	337.867	0.051	TX073	Ruston fine sandy loam, sloping	0.051
Gulf Coast	Texas	Cherokee	337.867	338.125	0.258	TX073	Nacogdoches fine sandy loam, sloping	0.258
Gulf Coast	Texas	Cherokee	338.125	338.253	0.129	TX073	Elrose fine sandy loam, sloping	0.129
Gulf Coast	Texas	Cherokee	338.253	338.408	0.154	TX073	Elrose fine sandy loam, strongly sloping	0.154
Gulf Coast	Texas	Cherokee	338.525	338.580	0.055	TX073	Trawick fine sandy loam, strongly sloping	0.055
Gulf Coast	Texas	Cherokee	338.580	338.686	0.106	TX073	Nacogdoches fine sandy loam, gently sloping	0.106
Gulf Coast	Texas	Cherokee	338.686	338.722	0.036	TX073	Trawick fine sandy loam, strongly sloping	0.036
Gulf Coast	Texas	Cherokee	338.722	338.752	0.030	TX073	Nacogdoches fine sandy loam, gently sloping	0.030
Gulf Coast	Texas	Cherokee	338.752	338.800	0.048	TX073	Trawick fine sandy loam, strongly sloping	0.048
Gulf Coast	Texas	Cherokee	338.800	338.852	0.052	TX073	Nacogdoches fine sandy loam, sloping, eroded	0.052
Gulf Coast	Texas	Cherokee	338.852	338.864	0.011	TX073	Nacogdoches fine sandy loam, gently sloping	0.011
Gulf Coast	Texas	Cherokee	338.864	338.904	0.041	TX073	Nacogdoches fine sandy loam, sloping, eroded	0.041

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Cherokee	338.904	338.943	0.039	TX073	Trawick fine sandy loam, strongly sloping	0.039
Gulf Coast	Texas	Cherokee	338.943	338.969	0.026	TX073	Nacogdoches fine sandy loam, gently sloping	0.026
Gulf Coast	Texas	Cherokee	338.969	339.265	0.296	TX073	LaCerda clay, nearly level	0.296
Gulf Coast	Texas	Cherokee	339.265	339.397	0.132	TX073	Woodtell fine sandy loam, sloping	0.132
Gulf Coast	Texas	Cherokee	339.397	339.406	0.009	TX073	Sacul fine sandy loam, strongly sloping	0.009
Gulf Coast	Texas	Cherokee	339.406	339.410	0.004	TX073	Woodtell fine sandy loam, sloping	0.004
Gulf Coast	Texas	Cherokee	339.410	339.412	0.002	TX073	LaCerda clay, nearly level	0.002
Gulf Coast	Texas	Cherokee	339.412	339.738	0.325	TX073	LaCerda clay loam, gently sloping	0.325
Gulf Coast	Texas	Cherokee	339.738	339.870	0.133	TX073	LaCerda clay, nearly level	0.133
Gulf Coast	Texas	Cherokee	339.870	339.875	0.004	TX073	LaCerda clay loam, gently sloping	0.004
Gulf Coast	Texas	Cherokee	339.875	339.883	0.008	TX073	Sacul fine sandy loam, strongly sloping	0.008
Gulf Coast	Texas	Cherokee	339.883	339.935	0.052	TX073	LaCerda clay loam, gently sloping	0.052
Gulf Coast	Texas	Cherokee	339.935	339.954	0.019	TX073	Woodtell fine sandy loam, gently sloping	0.019
Gulf Coast	Texas	Cherokee	339.954	340.307	0.353	TX073	Woodtell fine sandy loam, sloping	0.353
Gulf Coast	Texas	Cherokee	340.307	340.379	0.072	TX073	Woodtell fine sandy loam, gently sloping	0.072
Gulf Coast	Texas	Cherokee	340.379	340.539	0.159	TX073	Sacul fine sandy loam, gently sloping	0.159
Gulf Coast	Texas	Cherokee	340.539	340.584	0.045	TX073	Woodtell fine sandy loam, sloping	0.045
Gulf Coast	Texas	Cherokee	340.584	340.694	0.110	TX073	Woodtell fine sandy loam, gently sloping	0.110
Gulf Coast	Texas	Cherokee	340.694	340.761	0.066	TX073	Percilla soils	0.063
Gulf Coast	Texas	Cherokee	340.761	340.801	0.041	TX073	Nacogdoches fine sandy loam, sloping, eroded	0.041
Gulf Coast	Texas	Cherokee	340.801	340.848	0.047	TX073	Elrose fine sandy loam, gently sloping	0.047
Gulf Coast	Texas	Angelina	340.848	341.806	0.958	TX005	Woodtell very fine sandy loam, 1 to 5 percent slopes	0.958
Gulf Coast	Texas	Angelina	341.806	342.089	0.283	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.249
Gulf Coast	Texas	Angelina	342.089	342.159	0.071	TX005	Keithville-Sawtown complex, gently undulating	0.064
Gulf Coast	Texas	Angelina	342.217	342.452	0.235	TX005	Keithville-Sawtown complex, gently undulating	0.211
Gulf Coast	Texas	Angelina	342.624	342.872	0.249	TX005	Woodtell very fine sandy loam, 1 to 5 percent slopes	0.249
Gulf Coast	Texas	Angelina	342.872	342.970	0.098	TX005	Woodtell very fine sandy loam, 5 to 15 percent slopes	0.098
Gulf Coast	Texas	Angelina	342.970	343.061	0.091	TX005	Woodtell very fine sandy loam, 1 to 5 percent slopes	0.091

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Angelina	343.061	343.150	0.089	TX005	Woodtell very fine sandy loam, 5 to 15 percent slopes	0.089
Gulf Coast	Texas	Angelina	343.150	343.275	0.125	TX005	Woodtell very fine sandy loam, 1 to 5 percent slopes	0.125
Gulf Coast	Texas	Angelina	343.275	343.369	0.094	TX005	Woodtell very fine sandy loam, 5 to 15 percent slopes	0.094
Gulf Coast	Texas	Angelina	343.369	343.399	0.029	TX005	Kirvin fine sandy loam, 1 to 5 percent slopes	0.024
Gulf Coast	Texas	Angelina	343.399	343.691	0.293	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.234
Gulf Coast	Texas	Angelina	343.691	344.242	0.550	TX005	Kirvin fine sandy loam, 1 to 5 percent slopes	0.440
Gulf Coast	Texas	Angelina	344.242	344.413	0.171	TX005	Keithville-Sawtown complex, gently undulating	0.154
Gulf Coast	Texas	Angelina	344.413	344.452	0.039	TX005	Kirvin fine sandy loam, 1 to 5 percent slopes	0.032
Gulf Coast	Texas	Angelina	344.452	344.554	0.102	TX005	Keithville-Sawtown complex, gently undulating	0.091
Gulf Coast	Texas	Angelina	344.554	344.617	0.064	TX005	Kirvin fine sandy loam, 1 to 5 percent slopes	0.051
Gulf Coast	Texas	Angelina	344.617	344.890	0.272	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.218
Gulf Coast	Texas	Angelina	345.102	345.144	0.042	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.034
Gulf Coast	Texas	Angelina	345.144	345.340	0.196	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.172
Gulf Coast	Texas	Angelina	345.340	345.395	0.055	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.044
Gulf Coast	Texas	Angelina	345.513	345.625	0.112	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.090
Gulf Coast	Texas	Angelina	345.625	345.794	0.169	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.148
Gulf Coast	Texas	Angelina	345.794	346.165	0.371	TX005	Keithville-Sawtown complex, gently undulating	0.334
Gulf Coast	Texas	Angelina	346.165	346.261	0.096	TX005	Kirvin fine sandy loam, 1 to 5 percent slopes	0.077
Gulf Coast	Texas	Angelina	346.261	346.390	0.129	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.103
Gulf Coast	Texas	Angelina	346.390	346.488	0.099	TX005	Kirvin fine sandy loam, 1 to 5 percent slopes	0.079
Gulf Coast	Texas	Angelina	346.488	346.634	0.146	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.117
Gulf Coast	Texas	Angelina	346.634	346.660	0.025	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.022
Gulf Coast	Texas	Angelina	346.660	346.689	0.030	TX005	Keithville-Sawtown complex, gently undulating	0.027
Gulf Coast	Texas	Angelina	346.689	346.724	0.034	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.030
Gulf Coast	Texas	Angelina	346.724	346.901	0.177	TX005	Keithville-Sawtown complex, gently undulating	0.159
Gulf Coast	Texas	Angelina	346.901	347.016	0.115	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.101
Gulf Coast	Texas	Angelina	347.016	347.172	0.156	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.125
Gulf Coast	Texas	Angelina	347.172	347.571	0.398	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.350

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Angelina	347.571	347.732	0.162	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.129
Gulf Coast	Texas	Angelina	347.732	348.219	0.486	TX005	Ozias silty clay, frequently flooded	0.389
Gulf Coast	Texas	Angelina	348.219	348.942	0.723	TX005	Mollville-Besner complex, gently undulating	0.651
Gulf Coast	Texas	Angelina	348.942	349.301	0.360	TX005	Ozias silty clay, frequently flooded	0.288
Gulf Coast	Texas	Angelina	349.301	349.366	0.065	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.052
Gulf Coast	Texas	Angelina	349.366	349.494	0.128	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.112
Gulf Coast	Texas	Angelina	349.494	349.624	0.130	TX005	Attoyac fine sandy loam, 8 to 15 percent slopes	0.111
Gulf Coast	Texas	Angelina	349.624	349.970	0.347	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.305
Gulf Coast	Texas	Angelina	349.970	350.334	0.364	TX005	Cuthbert fine sandy loam, 5 to 15 percent slopes	0.291
Gulf Coast	Texas	Angelina	350.334	350.491	0.157	TX005	Bernaldo fine sandy loam, 0 to 3 percent slopes	0.138
Gulf Coast	Texas	Angelina	350.491	350.606	0.115	TX005	Darco loamy fine sandy, 1 to 8 percent slopes	0.115
Gulf Coast	Texas	Angelina	350.606	350.681	0.075	TX005	Attoyac fine sandy loam, 8 to 15 percent slopes	0.064
Gulf Coast	Texas	Angelina	350.681	350.800	0.118	TX005	Darco loamy fine sandy, 1 to 8 percent slopes	0.118
Gulf Coast	Texas	Angelina	350.800	350.918	0.118	TX005	Attoyac fine sandy loam, 8 to 15 percent slopes	0.101
Gulf Coast	Texas	Angelina	350.918	351.109	0.191	TX005	Koury loam, frequently flooded	0.172
Gulf Coast	Texas	Angelina	351.109	351.277	0.168	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.168
Gulf Coast	Texas	Angelina	351.277	351.298	0.021	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.016
Gulf Coast	Texas	Angelina	351.298	351.489	0.191	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.191
Gulf Coast	Texas	Angelina	351.489	351.620	0.131	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.105
Gulf Coast	Texas	Angelina	351.620	351.728	0.109	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.109
Gulf Coast	Texas	Angelina	351.728	351.885	0.157	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.126
Gulf Coast	Texas	Angelina	351.885	352.018	0.133	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.133
Gulf Coast	Texas	Angelina	352.018	352.129	0.111	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.083
Gulf Coast	Texas	Angelina	352.129	352.564	0.435	TX005	Ozias silty clay, frequently flooded	0.348
Gulf Coast	Texas	Angelina	352.564	352.609	0.045	TX005	Koury loam, frequently flooded	0.041
Gulf Coast	Texas	Angelina	352.609	352.625	0.016	TX005	Ozias silty clay, frequently flooded	0.012
Gulf Coast	Texas	Angelina	352.625	352.657	0.032	TX005	Koury loam, frequently flooded	0.029
Gulf Coast	Texas	Angelina	352.657	352.699	0.042	TX005	Ozias silty clay, frequently flooded	0.034

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Angelina	352.699	352.992	0.293	TX005	Koury loam, frequently flooded	0.264
Gulf Coast	Texas	Angelina	353.086	353.296	0.210	TX005	Koury loam, frequently flooded	0.189
Gulf Coast	Texas	Angelina	353.296	353.426	0.130	TX005	Ozias silty clay, frequently flooded	0.104
Gulf Coast	Texas	Angelina	353.426	353.434	0.008	TX005	Koury loam, occasionally flooded	0.006
Gulf Coast	Texas	Angelina	353.434	353.461	0.027	TX005	Ozias silty clay, frequently flooded	0.021
Gulf Coast	Texas	Angelina	353.461	353.654	0.193	TX005	Koury loam, occasionally flooded	0.164
Gulf Coast	Texas	Angelina	353.654	353.979	0.325	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.325
Gulf Coast	Texas	Angelina	353.979	354.126	0.147	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.118
Gulf Coast	Texas	Angelina	354.126	354.281	0.155	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.155
Gulf Coast	Texas	Angelina	354.281	354.462	0.181	TX005	Herty very fine sandy loam, 1 to 5 percent slopes	0.153
Gulf Coast	Texas	Angelina	354.462	354.947	0.485	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.412
Gulf Coast	Texas	Angelina	354.947	355.409	0.463	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.463
Gulf Coast	Texas	Angelina	355.409	355.588	0.178	TX005	Koury loam, occasionally flooded	0.152
Gulf Coast	Texas	Angelina	355.588	355.718	0.131	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.111
Gulf Coast	Texas	Angelina	355.718	355.887	0.168	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.135
Gulf Coast	Texas	Angelina	355.887	356.633	0.747	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.635
Gulf Coast	Texas	Angelina	356.633	356.702	0.069	TX005	Keltys fine sandy loam, 5 to 15 percent slopes	0.065
Gulf Coast	Texas	Angelina	356.702	356.802	0.100	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.085
Gulf Coast	Texas	Angelina	356.802	356.925	0.123	TX005	Keltys fine sandy loam, 5 to 15 percent slopes	0.117
Gulf Coast	Texas	Angelina	356.925	357.319	0.394	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.315
Gulf Coast	Texas	Angelina	357.319	357.372	0.053	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.053
Gulf Coast	Texas	Angelina	357.372	357.450	0.079	TX005	Alazan very fine sandy loam, 0 to 4 percent slopes	0.063
Gulf Coast	Texas	Angelina	357.450	357.608	0.157	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.126
Gulf Coast	Texas	Angelina	357.608	357.646	0.038	TX005	Rosenwall fine sandy loam, 1 to 5 percent slopes	0.038
Gulf Coast	Texas	Angelina	357.646	357.825	0.179	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.152
Gulf Coast	Texas	Angelina	357.825	357.856	0.031	TX005	Keltys fine sandy loam, 5 to 15 percent slopes	0.030
Gulf Coast	Texas	Angelina	357.856	358.071	0.215	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.215
Gulf Coast	Texas	Angelina	358.071	358.199	0.128	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.096

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Angelina	358.199	358.258	0.059	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.059
Gulf Coast	Texas	Angelina	358.258	358.328	0.071	TX005	Rosenwall fine sandy loam, 1 to 5 percent slopes	0.071
Gulf Coast	Texas	Angelina	358.328	358.429	0.101	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.101
Gulf Coast	Texas	Angelina	358.429	358.571	0.142	TX005	Rosenwall fine sandy loam, 1 to 5 percent slopes	0.142
Gulf Coast	Texas	Angelina	358.571	358.806	0.235	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.188
Gulf Coast	Texas	Angelina	358.806	358.872	0.066	TX005	Keltys fine sandy loam, 5 to 15 percent slopes	0.063
Gulf Coast	Texas	Angelina	358.872	359.198	0.325	TX005	Kurth fine sandy loam, 0 to 4 percent slopes	0.260
Gulf Coast	Texas	Angelina	359.198	359.248	0.051	TX005	Koury loam, frequently flooded	0.046
Gulf Coast	Texas	Angelina	359.248	359.278	0.030	TX005	Rosenwall fine sandy loam, 5 to 15 percent slopes	0.030
Gulf Coast	Texas	Angelina	359.278	359.905	0.627	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.533
Gulf Coast	Texas	Angelina	359.905	359.945	0.040	TX005	Moswell loam, 5 to 15 percent slopes	0.040
Gulf Coast	Texas	Angelina	359.945	360.147	0.202	TX005	Darco loamy fine sandy, 1 to 8 percent slopes	0.202
Gulf Coast	Texas	Angelina	360.147	360.254	0.107	TX005	Moswell loam, 5 to 15 percent slopes	0.107
Gulf Coast	Texas	Angelina	360.254	360.469	0.215	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.182
Gulf Coast	Texas	Angelina	360.469	360.548	0.080	TX005	Moten-Mutley complex, gently undulating	0.072
Gulf Coast	Texas	Angelina	360.548	361.506	0.958	TX005	Ozias silty clay, frequently flooded	0.766
Gulf Coast	Texas	Angelina	361.506	361.578	0.072	TX005	Attoyac fine sandy loam, 8 to 15 percent slopes	0.061
Gulf Coast	Texas	Angelina	361.578	362.406	0.828	TX005	Moten-Mutley complex, gently undulating	0.745
Gulf Coast	Texas	Angelina	362.406	362.564	0.158	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.119
Gulf Coast	Texas	Angelina	362.564	362.926	0.361	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.307
Gulf Coast	Texas	Angelina	362.926	363.061	0.135	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.101
Gulf Coast	Texas	Angelina	363.061	363.381	0.320	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.272
Gulf Coast	Texas	Angelina	363.381	363.407	0.026	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.019
Gulf Coast	Texas	Angelina	363.407	363.769	0.362	TX005	Fuller fine sandy loam, 1 to 4 percent slopes	0.308
Gulf Coast	Texas	Angelina	363.769	364.333	0.565	TX005	Moten-Mutley complex, gently undulating	0.508
Gulf Coast	Texas	Angelina	364.333	364.598	0.264	TX005	Koury loam, frequently flooded	0.238
Gulf Coast	Texas	Angelina	364.740	365.031	0.292	TX005	Moten-Mutley complex, gently undulating	0.262
Gulf Coast	Texas	Angelina	365.031	365.067	0.035	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.026

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Angelina	365.067	365.577	0.510	TX005	Moten-Mutley complex, gently undulating	0.459
Gulf Coast	Texas	Angelina	365.577	365.753	0.176	TX005	Keltys fine sandy loam, 1 to 5 percent slopes	0.132
Gulf Coast	Texas	Angelina	365.753	366.219	0.467	TX005	Alazan very fine sandy loam, 0 to 4 percent slopes	0.373
Gulf Coast	Texas	Angelina	366.219	366.262	0.043	TX005	Koury loam, frequently flooded	0.038
Gulf Coast	Texas	Angelina	366.262	366.584	0.322	TX005	Ozias silty clay, frequently flooded	0.257
Gulf Coast	Texas	Angelina	366.584	366.687	0.104	TX005	Koury loam, frequently flooded	0.093
Gulf Coast	Texas	Angelina	366.687	366.849	0.162	TX005	Moten-Mutley complex, gently undulating	0.146
Gulf Coast	Texas	Angelina	366.849	366.925	0.076	TX005	Ozias silty clay, frequently flooded	0.061
Gulf Coast	Texas	Angelina	366.925	367.892	0.967	TX005	Moten-Mutley complex, gently undulating	0.870
Gulf Coast	Texas	Angelina	367.892	368.567	0.675	TX005	Ozias silty clay, frequently flooded	0.540
Gulf Coast	Texas	Polk	368.567	368.663	0.096	TX617	Ozias-Pophers complex, frequently flooded	0.082
Gulf Coast	Texas	Polk	368.663	369.469	0.805	TX617	Pophers silty clay loam, frequently flooded	0.684
Gulf Coast	Texas	Polk	369.469	369.969	0.501	TX617	Ozias-Pophers complex, frequently flooded	0.425
Gulf Coast	Texas	Polk	369.969	370.030	0.061	TX617	Moswell fine sandy loam, 5 to 12 percent slopes	0.049
Gulf Coast	Texas	Polk	370.030	370.508	0.478	TX617	Moswell fine sandy loam, 1 to 5 percent slopes	0.383
Gulf Coast	Texas	Polk	370.508	370.928	0.420	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.315
Gulf Coast	Texas	Polk	370.928	371.017	0.089	TX617	Moswell fine sandy loam, 5 to 12 percent slopes	0.071
Gulf Coast	Texas	Polk	371.017	372.814	1.797	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	1.348
Gulf Coast	Texas	Polk	372.814	372.902	0.088	TX617	Moswell fine sandy loam, 5 to 12 percent slopes	0.070
Gulf Coast	Texas	Polk	372.902	373.598	0.696	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.522
Gulf Coast	Texas	Polk	373.598	373.922	0.324	TX617	Kellison silt loam, 3 to 5 percent slopes	0.227
Gulf Coast	Texas	Polk	373.922	374.176	0.254	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.190
Gulf Coast	Texas	Polk	374.176	374.380	0.204	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.102
Gulf Coast	Texas	Polk	374.380	374.543	0.163	TX617	Moswell fine sandy loam, 5 to 12 percent slopes	0.130
Gulf Coast	Texas	Polk	374.543	374.970	0.427	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.321
Gulf Coast	Texas	Polk	374.970	375.051	0.081	TX617	Kian and Mantachie soils, frequently flooded	0.061
Gulf Coast	Texas	Polk	375.051	375.480	0.428	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.321
Gulf Coast	Texas	Polk	375.480	375.572	0.093	TX617	Kian and Mantachie soils, frequently flooded	0.070

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Polk	375.572	375.749	0.177	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.133
Gulf Coast	Texas	Polk	375.749	375.995	0.245	TX617	Kian and Mantachie soils, frequently flooded	0.184
Gulf Coast	Texas	Polk	375.995	376.369	0.375	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.281
Gulf Coast	Texas	Polk	376.369	376.784	0.415	TX617	Kian and Mantachie soils, frequently flooded	0.311
Gulf Coast	Texas	Polk	376.784	376.826	0.042	TX617	Moswell fine sandy loam, 5 to 12 percent slopes	0.033
Gulf Coast	Texas	Polk	376.826	377.285	0.459	TX617	Boykin loamy fine sand, 1 to 5 percent slopes	0.413
Gulf Coast	Texas	Polk	377.285	378.036	0.751	TX617	Kian and Mantachie soils, frequently flooded	0.564
Gulf Coast	Texas	Polk	378.036	379.222	1.186	TX617	Diboll-Keltys complex, 1 to 5 percent slopes	0.889
Gulf Coast	Texas	Polk	379.222	379.651	0.429	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.171
Gulf Coast	Texas	Polk	379.651	379.717	0.066	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.033
Gulf Coast	Texas	Polk	379.717	379.751	0.034	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.013
Gulf Coast	Texas	Polk	379.751	379.901	0.151	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.075
Gulf Coast	Texas	Polk	379.901	380.051	0.150	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.060
Gulf Coast	Texas	Polk	380.051	380.146	0.094	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.047
Gulf Coast	Texas	Polk	380.146	380.429	0.284	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.113
Gulf Coast	Texas	Polk	380.674	380.827	0.153	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.076
Gulf Coast	Texas	Polk	380.827	380.881	0.054	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.021
Gulf Coast	Texas	Polk	380.881	381.003	0.122	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.061
Gulf Coast	Texas	Polk	381.003	381.357	0.354	TX617	Rayburn fine sandy loam, 5 to 15 percent slopes	0.283
Gulf Coast	Texas	Polk	381.357	381.597	0.240	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.096
Gulf Coast	Texas	Polk	381.826	381.936	0.110	TX617	Kian and Mantachie soils, frequently flooded	0.083
Gulf Coast	Texas	Polk	381.936	382.034	0.098	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.039
Gulf Coast	Texas	Polk	382.034	382.202	0.168	TX617	Colita variant-Kitterll complex, 1 to 8 percent slopes	0.084
Gulf Coast	Texas	Polk	382.202	382.465	0.263	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.105
Gulf Coast	Texas	Polk	382.465	382.659	0.194	TX617	Kian and Mantachie soils, frequently flooded	0.145
Gulf Coast	Texas	Polk	382.659	382.774	0.116	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.046
Gulf Coast	Texas	Polk	382.774	382.936	0.162	TX617	Kian and Mantachie soils, frequently flooded	0.121
Gulf Coast	Texas	Polk	382.936	383.338	0.402	TX617	Rayburn fine sandy loam, 5 to 15 percent slopes	0.321

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Polk	383.338	384.397	1.059	TX617	Colita-Laska complex, 1 to 5 percent slopes	0.424
Gulf Coast	Texas	Polk	384.397	384.560	0.164	TX617	Kian and Mantachie soils, frequently flooded	0.123
Gulf Coast	Texas	Polk	384.560	384.904	0.343	TX617	Wiergate clay, 5 to 8 percent slopes	0.292
Gulf Coast	Texas	Polk	384.904	385.010	0.106	TX617	Woodville fine sandy loam, 5 to 12 percent slopes	0.085
Gulf Coast	Texas	Polk	385.010	385.149	0.139	TX617	Wiergate clay, 5 to 8 percent slopes	0.118
Gulf Coast	Texas	Polk	385.149	385.680	0.531	TX617	Woodville fine sandy loam, 5 to 12 percent slopes	0.425
Gulf Coast	Texas	Polk	385.680	385.988	0.308	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.247
Gulf Coast	Texas	Polk	385.988	386.342	0.354	TX617	Woodville fine sandy loam, 5 to 12 percent slopes	0.284
Gulf Coast	Texas	Polk	386.342	387.011	0.669	TX617	Stringtown-Bonwier association, strongly sloping	0.468
Gulf Coast	Texas	Polk	387.011	389.319	2.308	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	1.846
Gulf Coast	Texas	Polk	389.319	389.637	0.318	TX617	Stringtown-Bonwier association, strongly sloping	0.223
Gulf Coast	Texas	Polk	389.637	389.803	0.166	TX617	Pluck and Kian soils, frequently flooded	0.124
Gulf Coast	Texas	Polk	389.803	390.136	0.333	TX617	Woodville fine sandy loam, 5 to 12 percent slopes	0.267
Gulf Coast	Texas	Polk	390.136	390.328	0.192	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.154
Gulf Coast	Texas	Polk	390.328	390.854	0.526	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.473
Gulf Coast	Texas	Polk	390.854	390.992	0.138	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.110
Gulf Coast	Texas	Polk	390.992	391.108	0.116	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.093
Gulf Coast	Texas	Polk	391.108	391.149	0.041	TX617	Woodville fine sandy loam, 5 to 12 percent slopes	0.033
Gulf Coast	Texas	Polk	391.149	391.309	0.160	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.128
Gulf Coast	Texas	Polk	391.309	391.499	0.190	TX617	Stringtown-Bonwier association, strongly sloping	0.133
Gulf Coast	Texas	Polk	391.499	391.681	0.182	TX617	Leggett fine sandy loam, 0 to 3 percent slopes	0.173
Gulf Coast	Texas	Polk	391.681	391.872	0.192	TX617	Pluck and Kian soils, frequently flooded	0.144
Gulf Coast	Texas	Polk	391.872	392.053	0.180	TX617	Leggett fine sandy loam, 0 to 3 percent slopes	0.171
Gulf Coast	Texas	Polk	392.053	392.124	0.072	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.057
Gulf Coast	Texas	Polk	392.124	392.520	0.396	TX617	Leggett fine sandy loam, 0 to 3 percent slopes	0.376
Gulf Coast	Texas	Polk	392.520	392.941	0.421	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.337
Gulf Coast	Texas	Polk	392.941	393.074	0.133	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.107
Gulf Coast	Texas	Polk	393.254	393.604	0.350	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.280

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Polk	393.604	393.642	0.038	TX617	Wiergate clay, 1 to 5 percent slopes	0.032
Gulf Coast	Texas	Polk	393.642	393.742	0.100	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.080
Gulf Coast	Texas	Polk	393.742	393.794	0.053	TX617	Wiergate clay, 1 to 5 percent slopes	0.045
Gulf Coast	Texas	Polk	393.794	393.943	0.149	TX617	Leggett fine sandy loam, 0 to 3 percent slopes	0.141
Gulf Coast	Texas	Polk	393.943	394.019	0.076	TX617	Wiergate clay, 1 to 5 percent slopes	0.064
Gulf Coast	Texas	Polk	394.019	394.313	0.294	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.235
Gulf Coast	Texas	Polk	394.313	394.313	0.000	TX617	Leggett fine sandy loam, 0 to 3 percent slopes	0.000
Gulf Coast	Texas	Polk	394.313	394.371	0.058	TX617	Stringtown-Bonwier association, strongly sloping	0.041
Gulf Coast	Texas	Polk	394.371	394.411	0.040	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.032
Gulf Coast	Texas	Polk	394.411	394.613	0.201	TX617	Stringtown-Bonwier association, strongly sloping	0.141
Gulf Coast	Texas	Polk	394.613	394.695	0.082	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.066
Gulf Coast	Texas	Polk	394.695	394.901	0.206	TX617	Pinetucky and Conroe soils, graded	0.154
Gulf Coast	Texas	Polk	394.901	395.713	0.812	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.649
Gulf Coast	Texas	Polk	395.713	395.831	0.118	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.106
Gulf Coast	Texas	Polk	395.831	395.970	0.140	TX617	Stringtown-Bonwier association, strongly sloping	0.098
Gulf Coast	Texas	Polk	395.970	396.120	0.150	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.135
Gulf Coast	Texas	Polk	396.120	396.272	0.152	TX617	Stringtown-Bonwier association, strongly sloping	0.106
Gulf Coast	Texas	Polk	396.272	397.086	0.814	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.651
Gulf Coast	Texas	Polk	397.086	397.130	0.044	TX617	Stringtown-Bonwier association, strongly sloping	0.031
Gulf Coast	Texas	Polk	397.130	397.209	0.079	TX617	Pluck and Kian soils, frequently flooded	0.059
Gulf Coast	Texas	Polk	397.209	397.308	0.099	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.089
Gulf Coast	Texas	Polk	397.308	397.391	0.083	TX617	Pluck and Kian soils, frequently flooded	0.063
Gulf Coast	Texas	Polk	397.391	397.455	0.064	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.051
Gulf Coast	Texas	Polk	397.455	397.547	0.093	TX617	Bienville loamy fine sand, 0 to 3 percent slopes	0.009
Gulf Coast	Texas	Polk	397.547	397.604	0.057	TX617	Pluck and Kian soils, frequently flooded	0.042
Gulf Coast	Texas	Polk	397.604	398.170	0.566	TX617	Bienville loamy fine sand, 0 to 3 percent slopes	0.057
Gulf Coast	Texas	Polk	398.170	398.525	0.355	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.284
Gulf Coast	Texas	Polk	398.525	398.641	0.115	TX617	Wiergate clay, 1 to 5 percent slopes	0.098

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Polk	398.641	398.943	0.303	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.242
Gulf Coast	Texas	Polk	398.943	399.532	0.588	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.471
Gulf Coast	Texas	Polk	399.532	399.740	0.208	TX617	Wiergate clay, 1 to 5 percent slopes	0.177
Gulf Coast	Texas	Polk	399.740	399.889	0.149	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.119
Gulf Coast	Texas	Polk	399.889	400.108	0.219	TX617	Woodville fine sandy loam, 5 to 12 percent slopes	0.175
Gulf Coast	Texas	Polk	400.108	400.424	0.316	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.253
Gulf Coast	Texas	Polk	400.424	400.523	0.099	TX617	Choates loamy fine sand, 1 to 5 percent slopes	0.074
Gulf Coast	Texas	Polk	400.523	400.614	0.091	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.073
Gulf Coast	Texas	Polk	400.614	400.766	0.151	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.136
Gulf Coast	Texas	Polk	400.766	401.128	0.362	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.290
Gulf Coast	Texas	Polk	401.128	401.195	0.067	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.061
Gulf Coast	Texas	Polk	401.195	401.298	0.103	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.083
Gulf Coast	Texas	Polk	401.298	401.394	0.095	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.086
Gulf Coast	Texas	Polk	401.394	401.669	0.276	TX617	Woodville fine sandy loam, 1 to 5 percent slopes	0.220
Gulf Coast	Texas	Polk	401.669	402.452	0.783	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.626
Gulf Coast	Texas	Polk	402.452	402.729	0.277	TX617	Bienville loamy fine sand, 0 to 3 percent slopes	0.028
Gulf Coast	Texas	Polk	402.729	403.055	0.326	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.261
Gulf Coast	Texas	Polk	403.055	403.968	0.913	TX617	Stringtown-Bonwier association, strongly sloping	0.639
Gulf Coast	Texas	Polk	403.968	404.607	0.640	TX617	Pluck and Kian soils, frequently flooded	0.480
Gulf Coast	Texas	Polk	404.607	405.268	0.661	TX617	Bienville loamy fine sand, 0 to 3 percent slopes	0.066
Gulf Coast	Texas	Polk	405.268	405.695	0.427	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.342
Gulf Coast	Texas	Polk	405.695	405.930	0.235	TX617	Waller silt loam, 0 to 1 percent slopes	0.211
Gulf Coast	Texas	Polk	405.930	406.091	0.161	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.129
Gulf Coast	Texas	Polk	406.091	406.403	0.311	TX617	Waller silt loam, 0 to 1 percent slopes	0.280
Gulf Coast	Texas	Polk	406.403	406.535	0.132	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.106
Gulf Coast	Texas	Polk	406.535	407.044	0.509	TX617	Choates loamy fine sand, 1 to 5 percent slopes	0.382
Gulf Coast	Texas	Polk	407.044	408.985	1.941	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	1.553
Gulf Coast	Texas	Polk	408.985	409.016	0.032	TX617	Waller silt loam, 0 to 1 percent slopes	0.028

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Polk	409.016	409.246	0.230	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.184
Gulf Coast	Texas	Polk	409.246	409.343	0.096	TX617	Waller silt loam, 0 to 1 percent slopes	0.087
Gulf Coast	Texas	Polk	409.343	411.153	1.810	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	1.448
Gulf Coast	Texas	Polk	411.153	411.225	0.072	TX617	Boykin loamy fine sand, 1 to 5 percent slopes	0.065
Gulf Coast	Texas	Polk	411.225	411.313	0.088	TX617	Pinetucky fine sandy loam, 1 to 5 percent slopes	0.070
Gulf Coast	Texas	Polk	411.313	411.617	0.304	TX617	Boykin loamy fine sand, 1 to 5 percent slopes	0.274
Gulf Coast	Texas	Polk	411.617	411.760	0.143	TX617	Kirbyville fine sandy loam, 0 to 2 percent slopes	0.128
Gulf Coast	Texas	Polk	411.760	412.322	0.562	TX617	Otanya fine sandy loam, 0 to 3 percent slopes	0.450
Gulf Coast	Texas	Polk	412.322	412.448	0.126	TX617	Waller silt loam, 0 to 1 percent slopes	0.113
Gulf Coast	Texas	Polk	412.448	412.576	0.129	TX617	Otanya fine sandy loam, 0 to 3 percent slopes	0.103
Gulf Coast	Texas	Polk	412.576	412.819	0.243	TX617	Kirbyville fine sandy loam, 0 to 2 percent slopes	0.219
Gulf Coast	Texas	Polk	412.819	413.061	0.242	TX617	Otanya fine sandy loam, 0 to 3 percent slopes	0.193
Gulf Coast	Texas	Polk	413.061	413.537	0.476	TX617	Doucette loamy fine sand, 1 to 5 percent slopes	0.429
Gulf Coast	Texas	Polk	413.537	413.642	0.104	TX617	Waller silt loam, 0 to 1 percent slopes	0.094
Gulf Coast	Texas	Polk	413.642	415.201	1.560	TX617	Otanya fine sandy loam, 0 to 3 percent slopes	1.248
Gulf Coast	Texas	Polk	415.201	415.468	0.266	TX617	Choates loamy fine sand, 1 to 5 percent slopes	0.200
Gulf Coast	Texas	Liberty	415.468	415.517	0.050	TX291	Choates loamy fine sand, 1 to 3 percent slopes	0.040
Gulf Coast	Texas	Liberty	415.517	416.157	0.640	TX291	Doucette loamy fine sand, 1 to 3 percent slopes	0.512
Gulf Coast	Texas	Liberty	416.157	416.271	0.115	TX291	Woodville fine sandy loam, 5 to 8 percent slopes	0.103
Gulf Coast	Texas	Liberty	416.473	416.541	0.068	TX291	Dylan clay, 3 to 6 percent slopes	0.061
Gulf Coast	Texas	Liberty	416.541	417.092	0.551	TX291	Vamont silty clay, 0 to 1 percent slopes	0.468
Gulf Coast	Texas	Liberty	417.092	418.724	1.632	TX291	Vamont clay, 1 to 3 percent slopes	1.387
Gulf Coast	Texas	Liberty	418.724	419.409	0.685	TX291	Vamont silty clay, 0 to 1 percent slopes	0.582
Gulf Coast	Texas	Liberty	419.409	419.677	0.268	TX291	Vamont clay, 1 to 3 percent slopes	0.228
Gulf Coast	Texas	Liberty	419.677	420.129	0.452	TX291	Sorter-Dallardsville complex	0.135
Gulf Coast	Texas	Liberty	420.129	421.383	1.254	TX291	Guyton-Aldine complex	1.129
Gulf Coast	Texas	Liberty	421.383	421.579	0.196	TX291	Vamont silty clay, 0 to 1 percent slopes	0.166
Gulf Coast	Texas	Liberty	421.579	421.702	0.123	TX291	Aris silt loam	0.105

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Liberty	421.702	421.815	0.113	TX291	Aldine silt loam, 0 to 2 percent slopes	0.091
Gulf Coast	Texas	Liberty	421.815	421.884	0.069	TX291	Aris silt loam	0.058
Gulf Coast	Texas	Liberty	421.884	421.918	0.034	TX291	Aldine silt loam, 0 to 2 percent slopes	0.027
Gulf Coast	Texas	Liberty	421.918	422.064	0.146	TX291	Aris silt loam	0.124
Gulf Coast	Texas	Liberty	422.064	422.252	0.188	TX291	Aldine silt loam, 0 to 2 percent slopes	0.151
Gulf Coast	Texas	Liberty	422.252	422.423	0.170	TX291	Aris silt loam	0.145
Gulf Coast	Texas	Liberty	422.423	422.576	0.154	TX291	Woodville fine sandy loam, 5 to 8 percent slopes	0.138
Gulf Coast	Texas	Liberty	422.666	423.222	0.556	TX291	Woodville fine sandy loam, 5 to 8 percent slopes	0.501
Gulf Coast	Texas	Liberty	423.222	426.208	2.987	TX291	Aldine-Aris complex	2.539
Gulf Coast	Texas	Liberty	426.208	426.269	0.061	TX291	Kemah-Aris complex	0.057
Gulf Coast	Texas	Liberty	426.269	427.286	1.018	TX291	Aldine-Aris complex	0.865
Gulf Coast	Texas	Liberty	427.286	427.414	0.128	TX291	Waller loam	0.102
Gulf Coast	Texas	Liberty	427.414	427.700	0.286	TX291	Vamont silty clay, 0 to 1 percent slopes	0.243
Gulf Coast	Texas	Liberty	427.700	430.213	2.513	TX291	Aldine-Aris complex	2.136
Gulf Coast	Texas	Liberty	430.213	431.026	0.813	TX291	Verland clay loam	0.773
Gulf Coast	Texas	Liberty	431.026	431.602	0.575	TX291	Beaumont clay	0.518
Gulf Coast	Texas	Liberty	431.602	431.771	0.170	TX291	Guyton silt loam	0.136
Gulf Coast	Texas	Liberty	431.771	431.787	0.016	TX291	Aldine silt loam, 0 to 2 percent slopes	0.013
Gulf Coast	Texas	Liberty	431.787	431.941	0.154	TX291	Guyton silt loam	0.123
Gulf Coast	Texas	Liberty	431.941	432.421	0.479	TX291	Verland clay loam	0.455
Gulf Coast	Texas	Liberty	432.421	432.618	0.197	TX291	Guyton silt loam	0.158
Gulf Coast	Texas	Liberty	432.618	432.810	0.192	TX291	Verland clay loam	0.183
Gulf Coast	Texas	Liberty	432.810	432.870	0.059	TX291	Bernard-Morey complex	0.048
Gulf Coast	Texas	Liberty	432.870	433.379	0.509	TX291	Estes clay, frequently flooded	0.408
Gulf Coast	Texas	Liberty	433.379	434.354	0.975	TX291	Anahuac-Aris complex	0.829
Gulf Coast	Texas	Liberty	434.354	434.965	0.611	TX291	Aldine-Aris complex	0.519
Gulf Coast	Texas	Liberty	434.965	435.034	0.069	TX291	Aris silt loam	0.059
Gulf Coast	Texas	Liberty	435.034	435.211	0.177	TX291	Aldine-Aris complex	0.151

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Liberty	435.211	435.322	0.110	TX291	Aris silt loam	0.094
Gulf Coast	Texas	Liberty	435.322	435.703	0.381	TX291	Kemah-Aris complex	0.362
Gulf Coast	Texas	Liberty	435.703	435.785	0.083	TX291	Aris silt loam	0.070
Gulf Coast	Texas	Liberty	435.785	436.493	0.707	TX291	Kemah-Aris complex	0.672
Gulf Coast	Texas	Liberty	436.493	436.730	0.237	TX291	Guyton-Aldine complex	0.213
Gulf Coast	Texas	Liberty	436.730	438.521	1.791	TX291	Aldine-Aris complex	1.522
Gulf Coast	Texas	Liberty	438.521	438.829	0.308	TX291	Aldine silt loam, 0 to 2 percent slopes	0.246
Gulf Coast	Texas	Liberty	438.829	439.315	0.486	TX291	Aldine-Aris complex	0.413
Gulf Coast	Texas	Liberty	439.315	439.618	0.303	TX291	Guyton silt loam	0.243
Gulf Coast	Texas	Hardin	439.618	439.699	0.081	TX199	Manco loam, 0 to 1 percent slopes, frequently flooded	0.081
Gulf Coast	Texas	Hardin	439.699	439.830	0.130	TX199	Aris-Spindletop complex, 0 to 1 percent slopes	0.130
Gulf Coast	Texas	Hardin	439.830	439.880	0.050	TX199	Leton silt loam, 0 to 1 percent slopes	0.050
Gulf Coast	Texas	Hardin	439.880	440.467	0.587	TX199	Beaumont clay, 0 to 1 percent slopes	0.587
Gulf Coast	Texas	Hardin	440.467	440.797	0.331	TX199	Manco loam, 0 to 1 percent slopes, frequently flooded	0.331
Gulf Coast	Texas	Hardin	440.797	440.862	0.065	TX199	Evadale-Texla complex, 0 to 1 percent slopes	0.065
Gulf Coast	Texas	Hardin	440.862	440.905	0.043	TX199	Bevil clay, 0 to 1 percent slopes	0.043
Gulf Coast	Texas	Hardin	440.905	441.401	0.496	TX199	Vamont clay, 0 to 1 percent slopes	0.496
Gulf Coast	Texas	Hardin	441.401	441.483	0.082	TX199	Bevil clay, 0 to 1 percent slopes	0.082
Gulf Coast	Texas	Hardin	441.483	441.896	0.413	TX199	Evadale-Texla complex, 0 to 1 percent slopes	0.413
Gulf Coast	Texas	Hardin	441.896	442.451	0.555	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.555
Gulf Coast	Texas	Hardin	442.451	442.518	0.067	TX199	Camptown silt loam, 0 to 1 percent slopes	0.067
Gulf Coast	Texas	Hardin	442.518	442.705	0.187	TX199	Batson very fine sandy loam, 0 to 1 percent slopes	0.187
Gulf Coast	Texas	Hardin	442.705	443.411	0.707	TX199	Camptown-Batson complex, 0 to 1 percent slopes	0.707
Gulf Coast	Texas	Hardin	443.411	444.758	1.346	TX199	Evadale-Texla complex, 0 to 1 percent slopes	1.346
Gulf Coast	Texas	Hardin	444.758	445.133	0.376	TX199	Aris-Spindletop complex, 0 to 1 percent slopes	0.376
Gulf Coast	Texas	Hardin	445.133	445.243	0.110	TX199	Aris-Levac complex, 0 to 1 percent slopes	0.110
Gulf Coast	Texas	Hardin	445.243	445.576	0.333	TX199	Aris-Spindletop complex, 0 to 1 percent slopes	0.333
Gulf Coast	Texas	Hardin	445.576	445.888	0.312	TX199	Labelle-Spindletop complex, 0 to 1 percent slopes	0.312

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Hardin	445.888	445.969	0.081	TX199	Bevil clay, 0 to 1 percent slopes	0.081
Gulf Coast	Texas	Hardin	445.969	446.061	0.091	TX199	Aris-Spindletop complex, 0 to 1 percent slopes	0.091
Gulf Coast	Texas	Hardin	446.061	447.224	1.164	TX199	Evadale-Texla complex, 0 to 1 percent slopes	1.164
Gulf Coast	Texas	Hardin	447.224	447.410	0.186	TX199	Manco loam, 0 to 1 percent slopes, frequently flooded	0.186
Gulf Coast	Texas	Hardin	447.410	447.771	0.361	TX199	Vamont clay, 0 to 1 percent slopes	0.361
Gulf Coast	Texas	Hardin	447.771	447.953	0.182	TX199	Evadale-Texla complex, 0 to 1 percent slopes	0.182
Gulf Coast	Texas	Hardin	447.953	448.203	0.250	TX199	Vamont clay, 0 to 1 percent slopes	0.250
Gulf Coast	Texas	Hardin	448.203	448.897	0.694	TX199	Evadale-Texla complex, 0 to 1 percent slopes	0.694
Gulf Coast	Texas	Hardin	448.897	449.118	0.222	TX199	Estes-Angelina complex, 0 to 1 percent slopes, frequently flooded	0.222
Gulf Coast	Texas	Hardin	449.118	449.401	0.283	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.283
Gulf Coast	Texas	Hardin	449.401	449.455	0.054	TX199	Spurger very fine sandy loam, 0 to 2 percent slopes	0.051
Gulf Coast	Texas	Hardin	449.455	449.536	0.081	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.081
Gulf Coast	Texas	Hardin	449.536	449.814	0.278	TX199	Spurger very fine sandy loam, 0 to 2 percent slopes	0.264
Gulf Coast	Texas	Hardin	449.814	449.858	0.044	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.044
Gulf Coast	Texas	Hardin	449.858	449.904	0.046	TX199	Spurger very fine sandy loam, 0 to 2 percent slopes	0.043
Gulf Coast	Texas	Hardin	449.904	449.940	0.037	TX199	Estes-Angelina complex, 0 to 1 percent slopes, frequently flooded	0.037
Gulf Coast	Texas	Hardin	449.940	450.236	0.296	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.296
Gulf Coast	Texas	Hardin	450.236	450.402	0.167	TX199	Estes-Angelina complex, 0 to 1 percent slopes, frequently flooded	0.167
Gulf Coast	Texas	Hardin	450.402	450.542	0.139	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.139
Gulf Coast	Texas	Hardin	450.542	450.613	0.072	TX199	Estes-Angelina complex, 0 to 1 percent slopes, frequently flooded	0.072
Gulf Coast	Texas	Hardin	450.613	451.004	0.391	TX199	Evadale-Gist complex, 0 to 1 percent slopes	0.391
Gulf Coast	Texas	Hardin	451.004	451.242	0.238	TX199	Anahuac-Aris complex, 0 to 1 percent slopes	0.238
Gulf Coast	Texas	Hardin	451.242	451.323	0.081	TX199	Estes-Angelina complex, 0 to 1 percent slopes, frequently flooded	0.081
Gulf Coast	Texas	Liberty	451.323	451.552	0.229	TX291	Estes clay, frequently flooded	0.183
Gulf Coast	Texas	Liberty	451.552	451.918	0.366	TX291	Aldine-Aris complex	0.311
Gulf Coast	Texas	Jefferson	451.918	453.654	1.736	TX623	Orcadia-Aris complex, 0 to 1 percent slopes	1.562
Gulf Coast	Texas	Jefferson	453.654	453.806	0.152	TX623	Orcadia silt loam, 0 to 2 percent slopes	0.129
Gulf Coast	Texas	Jefferson	453.806	453.940	0.134	TX623	Orcadia-Aris complex, 0 to 1 percent slopes	0.121

Table G-7 - Compaction Prone Soils Along the Keystone XL Pipeline

Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Jefferson	453.940	454.077	0.137	TX623	Bevil clay, 0 to 1 percent slopes	0.117
Gulf Coast	Texas	Jefferson	454.077	454.326	0.249	TX623	Estes clay, 0 to 1 percent slopes, frequently flooded	0.211
Gulf Coast	Texas	Jefferson	454.326	454.679	0.354	TX623	Bevil clay, 0 to 1 percent slopes	0.301
Gulf Coast	Texas	Jefferson	454.679	455.274	0.595	TX623	Orcadia-Aris complex, 0 to 1 percent slopes	0.535
Gulf Coast	Texas	Jefferson	455.274	457.037	1.763	TX623	Bevil clay, 0 to 1 percent slopes	1.498
Gulf Coast	Texas	Jefferson	457.037	457.860	0.823	TX623	Orcadia-Aris complex, 0 to 1 percent slopes	0.741
Gulf Coast	Texas	Jefferson	457.860	457.972	0.112	TX623	Estes clay, 0 to 1 percent slopes, frequently flooded	0.095
Gulf Coast	Texas	Jefferson	457.972	458.272	0.300	TX623	Orcadia-Aris complex, 0 to 1 percent slopes	0.270
Gulf Coast	Texas	Jefferson	458.272	459.117	0.845	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.760
Gulf Coast	Texas	Jefferson	459.117	459.476	0.359	TX623	Bevil clay, 0 to 1 percent slopes	0.305
Gulf Coast	Texas	Jefferson	459.476	460.386	0.910	TX623	Anahuac-Aris complex, 0 to 1 percent slopes	0.773
Gulf Coast	Texas	Jefferson	460.386	460.491	0.106	TX623	Leton loam, ponded, 0 to 1 percent slopes	0.079
Gulf Coast	Texas	Jefferson	460.491	461.030	0.539	TX623	Anahuac-Aris complex, 0 to 1 percent slopes	0.458
Gulf Coast	Texas	Jefferson	461.030	461.533	0.503	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.452
Gulf Coast	Texas	Jefferson	461.533	461.755	0.222	TX623	Labelle silt loam, 0 to 1 percent slopes	0.178
Gulf Coast	Texas	Jefferson	461.786	462.283	0.497	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.447
Gulf Coast	Texas	Jefferson	462.283	462.483	0.200	TX623	Beaumont clay, 0 to 1 percent slopes	0.170
Gulf Coast	Texas	Jefferson	462.514	462.880	0.366	TX623	Beaumont clay, 0 to 1 percent slopes	0.311
Gulf Coast	Texas	Jefferson	462.880	462.913	0.033	TX623	Labelle silt loam, 0 to 1 percent slopes	0.026
Gulf Coast	Texas	Jefferson	462.913	463.281	0.368	TX623	Beaumont clay, 0 to 1 percent slopes	0.313
Gulf Coast	Texas	Jefferson	463.281	463.528	0.246	TX623	League clay, 0 to 1 percent slopes	0.209
Gulf Coast	Texas	Jefferson	463.528	464.234	0.706	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.636
Gulf Coast	Texas	Jefferson	464.234	464.693	0.459	TX623	League clay, 0 to 1 percent slopes	0.390
Gulf Coast	Texas	Jefferson	464.693	464.883	0.190	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.171
Gulf Coast	Texas	Jefferson	464.883	465.168	0.285	TX623	Anahuac-Aris complex, 0 to 1 percent slopes	0.242
Gulf Coast	Texas	Jefferson	465.168	465.225	0.057	TX623	Leton loam, ponded, 0 to 1 percent slopes	0.043
Gulf Coast	Texas	Jefferson	465.225	465.673	0.449	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.404
Gulf Coast	Texas	Jefferson	465.673	465.920	0.247	TX623	Morey-Levac complex, 0 to 1 percent slopes	0.210

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Jefferson	465.920	466.060	0.140	TX623	League clay, 0 to 1 percent slopes	0.119
Gulf Coast	Texas	Jefferson	466.088	466.738	0.650	TX623	Morey-Levac complex, 0 to 1 percent slopes	0.552
Gulf Coast	Texas	Jefferson	466.738	467.102	0.364	TX623	League clay, 0 to 1 percent slopes	0.310
Gulf Coast	Texas	Jefferson	467.102	467.511	0.409	TX623	Morey-Levac complex, 0 to 1 percent slopes	0.348
Gulf Coast	Texas	Jefferson	467.511	468.246	0.734	TX623	League clay, 0 to 1 percent slopes	0.624
Gulf Coast	Texas	Jefferson	468.246	468.791	0.545	TX623	Beaumont clay, 0 to 1 percent slopes	0.464
Gulf Coast	Texas	Jefferson	468.791	469.048	0.257	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.231
Gulf Coast	Texas	Jefferson	469.048	469.141	0.093	TX623	Labelle silt loam, 0 to 1 percent slopes	0.074
Gulf Coast	Texas	Jefferson	469.141	469.189	0.048	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.043
Gulf Coast	Texas	Jefferson	469.189	469.322	0.134	TX623	Beaumont clay, 0 to 1 percent slopes	0.114
Gulf Coast	Texas	Jefferson	469.322	469.651	0.329	TX623	Labelle-Levac complex, 0 to 1 percent slopes	0.296
Gulf Coast	Texas	Jefferson	469.651	469.714	0.062	TX623	Beaumont clay, 0 to 1 percent slopes	0.053
Gulf Coast	Texas	Jefferson	469.714	469.811	0.097	TX623	China clay, 0 to 1 percent slopes	0.082
Gulf Coast	Texas	Jefferson	469.811	469.987	0.176	TX623	Beaumont clay, 0 to 1 percent slopes	0.150
Gulf Coast	Texas	Jefferson	469.987	471.084	1.097	TX623	China clay, 0 to 1 percent slopes	0.932
Gulf Coast	Texas	Jefferson	471.084	471.513	0.429	TX623	Beaumont clay, 0 to 1 percent slopes	0.365
Gulf Coast	Texas	Jefferson	471.513	471.940	0.427	TX623	League clay, 0 to 1 percent slopes	0.363
Gulf Coast	Texas	Jefferson	471.940	473.710	1.770	TX623	Beaumont clay, 0 to 1 percent slopes	1.505
Gulf Coast	Texas	Jefferson	473.710	473.813	0.103	TX623	Estes clay, 0 to 1 percent slopes, frequently flooded	0.087
Gulf Coast	Texas	Jefferson	473.847	473.965	0.118	TX623	Estes clay, 0 to 1 percent slopes, frequently flooded	0.100
Gulf Coast	Texas	Jefferson	473.965	474.106	0.141	TX623	Beaumont clay, 0 to 1 percent slopes	0.120
Gulf Coast	Texas	Jefferson	474.106	474.240	0.134	TX623	League clay, 0 to 1 percent slopes	0.114
Gulf Coast	Texas	Jefferson	474.240	475.205	0.965	TX623	Beaumont clay, 0 to 1 percent slopes	0.820
Gulf Coast	Texas	Jefferson	475.205	477.344	2.139	TX623	League clay, 0 to 1 percent slopes	1.819
Gulf Coast	Texas	Jefferson	477.344	477.550	0.206	TX623	Morey-Levac complex, 0 to 1 percent slopes	0.175
Gulf Coast	Texas	Jefferson	477.550	477.868	0.318	TX623	Anahuac very fine sandy loam, 0 to 2 percent slopes	0.270
Gulf Coast	Texas	Jefferson	477.868	478.400	0.532	TX623	Anahuac-Aris complex, 0 to 1 percent slopes	0.452
Gulf Coast	Texas	Jefferson	478.400	478.451	0.051	TX623	Leton loam, ponded, 0 to 1 percent slopes	0.038

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Segment	State	County	Beginning Milepost	Ending Milepost	Miles	Soil Series	Mapunit Name	Compaction Prone (mi)
Gulf Coast	Texas	Jefferson	478.451	478.519	0.069	TX623	Viterbo silty clay loam, 0 to 1 percent slopes	0.058
Gulf Coast	Texas	Jefferson	478.519	478.687	0.167	TX623	Anahuac-Aris complex, 0 to 1 percent slopes	0.142
Gulf Coast	Texas	Jefferson	478.687	479.068	0.381	TX623	Viterbo silty clay loam, 0 to 1 percent slopes	0.324
Gulf Coast	Texas	Jefferson	479.068	479.682	0.614	TX623	Anahuac very fine sandy loam, 0 to 2 percent slopes	0.522
Gulf Coast	Texas	Jefferson	479.682	479.923	0.241	TX623	League clay, 0 to 1 percent slopes	0.205
Gulf Coast	Texas	Jefferson	479.923	480.259	0.336	TX623	Anahuac very fine sandy loam, 0 to 2 percent slopes	0.285
Gulf Coast	Texas	Jefferson	480.278	480.624	0.346	TX623	Anahuac very fine sandy loam, 0 to 2 percent slopes	0.294
Gulf Coast	Texas	Jefferson	480.624	481.264	0.640	TX623	Anahuac-Aris complex, 0 to 1 percent slopes	0.544
Gulf Coast	Texas	Jefferson	481.264	481.412	0.148	TX623	League-Urban land complex, 0 to 1 percent slopes	0.104
Gulf Coast	Texas	Jefferson	481.412	481.493	0.081	TX623	Labelle-Urban land complex, 0 to 1 percent slopes	0.057
Gulf Coast	Texas	Jefferson	481.493	481.664	0.171	TX623	Ijam clay, 0 to 2 percent slopes, frequently flooded, tidal	0.137
Gulf Coast	Texas	Jefferson	481.664	481.777	0.113	TX623	Labelle-Urban land complex, 0 to 1 percent slopes	0.079
Gulf Coast	Texas	Jefferson	481.777	482.372	0.595	TX623	Orcadia silt loam, 0 to 2 percent slopes	0.506
Gulf Coast	Texas	Jefferson	482.372	482.517	0.145	TX623	Creole mucky peat, 0 to 1 percent slopes, frequently flooded, tidal	0.116
Gulf Coast	Texas	Jefferson	482.517	482.722	0.204	TX623	Orcadia silt loam, 0 to 2 percent slopes	0.174
Gulf Coast	Texas	Jefferson	482.722	482.867	0.145	TX623	Orcadia silt loam, 0 to 2 percent slopes	0.123
Gulf Coast	Texas	Jefferson	482.867	483.037	0.170	TX623	Labelle-Urban land complex, 0 to 1 percent slopes	0.119
Gulf Coast	Texas	Jefferson	483.037	483.250	0.213	TX623	Orcadia silt loam, 0 to 2 percent slopes	0.181
Gulf Coast	Texas	Jefferson	483.250	483.283	0.033	TX623	Labelle-Urban land complex, 0 to 1 percent slopes	0.023
Gulf Coast	Texas	Jefferson	483.283	483.362	0.079	TX623	Creole mucky peat, 0 to 1 percent slopes, frequently flooded, tidal	0.063
Gulf Coast	Texas	Jefferson	483.362	483.432	0.070	TX623	Labelle-Urban land complex, 0 to 1 percent slopes	0.049
Gulf Coast	Texas	Jefferson	483.432	483.466	0.033	TX623	Creole mucky peat, 0 to 1 percent slopes, frequently flooded, tidal	0.027
Gulf Coast	Texas	Jefferson	483.466	483.779	0.313	TX623	Labelle-Urban land complex, 0 to 1 percent slopes	0.219