APPENDIX AA
REVISED PROJECT COMPONENTS DISTURBANCE DATA TABLES FOR FEIS

Table A-1 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
SEGMENTS COMMON TO APPLICANT PROPOSED AND AGENCY PREFERRED ROUTES																										
W10	32.24	977.0	121	1	7	138.9	1.1	8.0	2.5	0.0	0.3	32.9	94.5	9.5	10.9	1.1	21.5	2.1	10.7	6.4	45.1	0.6	0.1	330.8	2.9	75.4
W20_S1	1.64	49.7	6	1	0	6.9	1.1	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	15.3	0.2	3.8
W20_S3	1.56	47.3	7	0	0	8.0	0.0	0.0	0.1	0.0	0.0	0.9	2.6	0.5	0.5	0.1	1.0	0.1	0.5	0.3	2.2	0.0	0.0	14.9	0.2	3.6
W20_S4	7.54	228.5	29	0	2	33.3	0.0	2.3	0.6	0.0	0.1	8.4	24.2	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	80.4	0.7	17.5
W819_S1	5.40	163.6	19	1	2	21.8	1.1	2.3	0.4	0.0	0.1	7.2	20.6	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	60.6	0.5	12.6
A-W20_S1	7.67	232.42	28	0	3	32.1	0.0	3.4	0.6	0.0	0.1	10.5	30.1	2.2	2.6	0.3	5.1	0.5	2.6	1.5	10.7	0.2	0.0	86.7	0.7	17.9
W819_S5	1.28	38.8	5	1	0	5.7	1.1	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.5	0.1	3.0
W819_S6	3.72	112.7	14	0	1	16.1	0.0	1.1	0.3	0.0	0.0	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	39.4	0.3	8.7
W819_S7	0.60	18.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.8	0.1	1.4
W819_S8	20.40	618.2	79	2	1	90.7	2.3	1.1	1.6	0.1	0.0	14.0	40.1	6.0	6.9	0.7	13.6	1.4	6.8	4.1	28.6	0.4	0.1	190.0	1.8	57.9
A-W26_S3	1.67	50.6	7	0	0	8.0	0.0	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	15.4	0.2	4.7
A-C26_S1	6.22	188.48	25	0	0	28.7	0.0	0.0	0.5	0.0	0.0	3.6	10.5	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.7	0.1	0.0	56.2	0.5	16.1
A-C52_S1	1.38	41.82	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	18.7	0.1	5.8
A-C52_S2	3.45	104.55	14	0	0	16.1	0.0	0.0	0.3	0.0	0.0	2.0	5.8	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.8	0.1	0.0	31.3	0.3	9.6
A-C52_S3	1.41	42.73	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.4	0.4	0.5	0.0	0.9	0.1	0.5	0.3	2.0	0.0	0.0	13.1	0.1	9.8
A-C52_S4	7.55	228.79	29	1	1	33.3	1.1	1.1	0.6	0.0	0.0	6.4	18.4	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	74.7	0.7	36.2
C186.03	0.36	10.91	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	3.9	0.0	1.0
C186.04	3.72	112.7	14	0	1	16.1	0.0	1.1	0.3	0.0	0.0	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	39.4	0.3	8.7
A-C53_S1	10.41	315.45	39	0	3	44.8	0.0	3.4	0.8	0.0	0.1	12.1	34.7	3.1	3.5	0.3	6.9	0.7	3.5	2.1	14.6	0.2	0.0	111.4	1.0	44.0
A-C54_S1	4.10	124.24	15	0	2	17.2	0.0	2.3	0.3	0.0	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	49.1	0.4	12.5
A-C54_S2	1.97	59.70	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.2	9.1	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	23.6	0.2	5.1
A-C54_S3	1.32	40.00	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.7	0.1	3.7
A-C54_S4	1.81	54.85	8	0	0	9.2	0.0	0.0	0.2	0.0	0.0	1.1	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	17.2	0.2	5.1
A-C54_S5	0.80	24.24	3	0	1	3.4	0.0	1.1	0.1	0.0	0.0	2.5	7.1	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	13.9	0.1	2.3
TE-A2	0.53	16.06	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.7	0.0	0.0	5.8	0.1	2.3
C111_S1	1.10	33.3	4	0	1	4.6	0.0	1.1	0.1	0.0	0.0	2.6	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.5	0.0	0.0	16.3	0.1	2.6
C111_S2	0.93	28.2	3	1	0	3.4	1.1	0.0	0.1	0.0	0.0	0.5	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	2.2
C115_S1	2.60	78.8	9	1	1	10.3	1.1	1.1	0.2	0.0	0.0	3.5	10.1	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	29.9	0.3	11.1
C115_S2	0.51	15.5	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.7	0.0	0.0	5.7	0.1	2.2
C115_S3	14.64	443.6	56	1	2	64.3	1.1	2.3	1.2	0.0	0.1	12.6	36.1	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.5	0.3	0.1	143.9	1.3	39.5
C120_S1	1.39	42.1	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	18.8	0.1	3.3
C120_S2	23.34	707.3	86	4	4	98.7	4.6	4.6	1.8	0.1	0.1	21.7	62.2	6.8	7.9	0.8	15.6	1.6	7.8	4.7	32.7	0.5	0.1	234.0	2.1	56.0
U70_S1	7.30	221.2	23	2	5	26.4	2.3	5.7	0.5	0.1	0.2	14.3	41.0	2.1	2.5	0.2	4.9	0.5	2.4	1.5	10.2	0.1	0.0	95.4	0.7	51.0
U70_S2	5.52	167.3	21	1	1	24.1	1.1	1.1	0.4	0.0	0.0	5.2	15.0	1.6	1.9	0.2	3.7	0.4	1.8	1.1	7.7	0.1	0.0	56.5	0.5	38.5
U70_S4	15.17	459.70	53	5	3	60.8	5.7	3.4	1.1	0.1	0.1	14.9	42.8	4.4	5.1	0.5	10.1	1.0	5.1	3.0	21.2	0.3	0.1	154.3	1.4	105.9
U70_S5	6.34	192.12	22	1	3	25.3	1.1	3.4	0.5	0.0	0.1	9.7	27.9	1.9	2.1	0.2	4.2	0.4	2.1	1.3	8.9	0.1	0.0	75.1	0.6	45.1
U70_S6	0.27	8.18	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.0	2.1
Nephi-NB_S2	0.70	21.21	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	1.7
U130_S1	17.03	516.06	67	0	2	76.9	0.0	2.3	1.4	0.0	0.1	14.0	40.1	5.0	5.7	0.6	11.4	1.1	5.7	3.4	23.8	0.3	0.1	166.0	1.5	61.1
A-U131_S1	3.52	106.67	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.4	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.9	0.1	0.0	44.3	0.4	8.2
A-U131_S2	0.26	7.88	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	9.2	0.1	0.6
A-U131_S3	1.21	36.67	5	0	0	5.7	0.0	0.0	0.1	0.0	0.0	0.7	2.0	0.4	0.4	0.0	0.8	0.1	0.4	0.2	1.7	0.0	0.0	11.1	0.1	2.8
A-U131_S4	0.68	20.61	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.4	1.1	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	6.4	0.1	1.6
A-U131_S5	3.70	112.12	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.2	17.7	1.1	1.2	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	45.1	0.4	8.6
U150_S1	8.63	261.52	34	0	1	39.0	0.0	1.1	0.7	0.0	0.0	7.1	20.3	2.5	2.9	0.3	5.8	0.6	2.9	1.7	12.1	0.2	0.0	84.1	0.8	20.1
U150_S2	9.82	297.6	39	0	1	44.8	0.0	1.1	0.8	0.0	0.0	7.8	22.3	2.9	3.3	0.3	6.5	0.7	3.3	2.0	13.7	0.2	0.0	95.1	0.9	22.9
U155	7.01	212.4	25	1	3	28.7	1.1	3.4	0.5	0.0	0.1	10.1	29.0	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	81.5	0.7	10.9
U168	20.28	614.5	80	0	2	91.8	0.0	2.3	1.7	0.0	0.1	15.9	45.6	5.9	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	195.2	1.8	47.2
U180	4.28	129.7	18	0	0	20.7	0.0	0.0	0.4	0.0	0.0	2.5	7.2	1.3	1.4	0.1	2.9	0.3	1.4	0.9	6.0	0.1	0.0	39.6	0.4	10.0
U215	14.14	428.5	53	2	2	60.8	2.3	2.3	1.1	0.1	0.1	12.3	35.3	4.1	4.8	0.5	9.4	0.9	4.7	2.8	19.8	0.3	0.1	139.4	1.3	38.1
U220	44.14	1337.58	167	2	8	191.7	2.3	9.2	3.5	0.1	0.3	41.9	120.2	12.9	14.9	1.5	29.4	2.9	14.7	8.8	61.8	0.9	0.2	444.2	4.0	84.2
U250	20.33	616.06	79	1	2	90.7	1.1	2.3	1.6	0.0	0.1	15.9	45.7	6.0	6.8	0.7	13.6	1.4	6.8	4.1	28.5	0.4	0.1	195.5	1.8	39.3
N50_S1	7.00	212.1	27	0	1	31.0	0.0	1.1	0.6	0.0	0.0	6.1	17.5	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	68.8	0.6	17.8
N95_S1	0.67	20.3	1	1	1	1.1	1.1	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	1.6
N95_S2	4.82	146.1	16	2	2	18.4	2.3	2.3	0.3	0.1	0.1	6.8	19.6	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	55.7	0.5	18.7
N100	6.17	187.0	24	1	0	27.5	1.1	0.0	0.5	0.0	0.0	3.6	10.4	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.6	0.1	0.0	56.0	0.6	14.8

Table A-1 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
N120	4.10	124.2	17	0	0	19.5	0.0	0.0	0.4	0.0	0.0	2.4	6.9	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	37.6	0.4	9.8
N121_S1	1.35	40.9	4	0	2	4.6	0.0	2.3	0.1	0.0	0.1	4.8	13.8	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	24.3	0.2	5.8
N121_S2	1.78	53.9	6	0	2	6.9	0.0	2.3	0.1	0.0	0.1	5.0	14.5	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	28.5	0.2	7.6
N121_S3	4.06	123.0	13	3	1	14.9	3.4	1.1	0.3	0.1	0.0	4.4	12.6	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	43.2	0.4	17.3
N121_S4	1.27	38.5	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.7	7.9	0.4	0.4	0.0	0.8	0.1	0.4	0.3	1.8	0.0	0.0	18.2	0.1	3.0
N135_S1	0.44	13.3	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	10.0	0.1	1.9
N135_S2	2.00	60.6	7	1	0	8.0	1.1	0.0	0.1	0.0	0.0	1.2	3.4	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	18.0	0.2	8.5
N145	2.84	86.1	10	1	1	11.5	1.1	1.1	0.2	0.0	0.0	3.7	10.5	0.8	1.0	0.1	1.9	0.2	0.9	0.6	4.0	0.1	0.0	32.1	0.3	19.8
N165	12.68	384.2	43	2	6	49.4	2.3	6.9	0.9	0.1	0.2	19.4	55.8	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	149.0	1.2	30.4
N175_S3	0.46	13.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.0	0.0	10.1	0.1	0.7
APPLICANT PROPOSED ROUTE SEGMENTS																										
W819_S10	0.96	29.1	3	0	1	3.4	0.0	1.1	0.1	0.0	0.0	2.6	7.4	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	14.6	0.1	2.7
A-W26_S1	2.08	63.03	8	0	1	9.2	0.0	1.1	0.2	0.0	0.0	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.3	0.2	4.8
A-W26_S2	4.43	134.24	16	0	2	18.4	0.0	2.3	0.3	0.0	0.1	6.6	18.9	1.3	1.5	0.1	3.0	0.3	1.5	0.9	6.2	0.1	0.0	51.7	0.4	12.6
U40	8.17	247.6	32	0	1	36.7	0.0	1.1	0.7	0.0	0.0	6.8	19.5	2.4	2.8	0.3	5.4	0.5	2.7	1.6	11.4	0.2	0.0	79.7	0.7	23.2
U41	10.75	325.8	42	0	1	48.2	0.0	1.1	0.9	0.0	0.0	8.3	23.8	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	102.6	1.0	84.4
U45	3.00	90.9	11	0	1	12.6	0.0	1.1	0.2	0.0	0.0	3.8	10.8	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.2	0.1	0.0	32.8	0.3	7.2
U50	12.70	384.8	47	0	4	53.9	0.0	4.6	1.0	0.0	0.1	15.5	44.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	137.6	1.2	23.3
U55_S1	1.80	54.5	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.1	8.8	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	22.9	0.2	4.3
U55_S3	10.21	309.39	39	1	1	44.8	1.1	1.1	0.8	0.0	0.0	8.0	22.9	3.0	3.4	0.3	6.8	0.7	3.4	2.0	14.3	0.2	0.0	97.9	0.9	23.8
U55_S4	12.70	384.8	42	1	8	48.2	1.1	9.2	0.9	0.0	0.3	23.5	67.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	160.6	1.2	29.0
U55_S5	24.34	737.58	82	6	10	94.1	6.9	11.5	1.7	0.2	0.4	34.3	98.4	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.1	0.5	0.1	277.5	2.3	52.5
U55_S7	1.30	39.4	4	2	0	4.6	2.3	0.0	0.1	0.1	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.6	0.1	3.1
U55_S8	1.65	50.00	6	1	0	6.9	1.1	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	15.3	0.2	7.0
U55_S9	4.27	129.4	17	0	1	19.5	0.0	1.1	0.4	0.0	0.0	4.5	12.9	1.3	1.4	0.1	2.8	0.3	1.4	0.9	6.0	0.1	0.0	45.3	0.4	10.2
U55_S10	7.00	212.1	27	1	0	31.0	1.1	0.0	0.6	0.0	0.0	4.1	11.8	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	63.1	0.6	14.7
U55_S11	21.65	656.1	76	5	6	87.2	5.7	6.9	1.6	0.1	0.2	24.7	70.9	6.4	7.3	0.7	14.4	1.4	7.2	4.3	30.3	0.4	0.1	230.0	2.0	122.6
U55_S12	4.65	140.9	18	0	1	20.7	0.0	1.1	0.4	0.0	0.0	4.7	13.6	1.4	1.6	0.2	3.1	0.3	1.6	0.9	6.5	0.1	0.0	48.1	0.4	32.5
U55_S17	7.35	222.7	26	3	1	29.8	3.4	1.1	0.5	0.1	0.0	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	72.7	0.7	51.3
U55_S18	1.31	39.7	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.7	0.1	9.1
U55_S19	0.43	13.0	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	9.9	0.1	3.0
Nephi-SA	0.67	20.3	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	4.7
Nephi-NA	2.10	63.6	7	1	1	8.0	1.1	1.1	0.1	0.0	0.0	3.2	9.3	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.4	0.2	14.7
Nephi-NB_S1	17.23	522.1	60	1	8	68.9	1.1	9.2	1.2	0.0	0.3	26.1	74.9	5.1	5.8	0.6	11.5	1.1	5.7	3.4	24.1	0.3	0.1	201.3	1.6	36.6
U255_S1	19.32	585.5	75	0	3	86.1	0.0	3.4	1.5	0.0	0.1	17.3	49.7	5.7	6.5	0.6	12.9	1.3	6.4	3.9	27.0	0.4	0.1	192.1	1.7	30.0
U255_S2	18.42	558.18	67	4	3	76.9	4.6	3.4	1.4	0.1	0.1	16.8	48.2	5.4	6.2	0.6	12.3	1.2	6.1	3.7	25.8	0.4	0.1	183.6	1.7	28.9
U255_S3	0.20	6.06	1	0	0	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.0	2.0	0.0	0.5
U255_S4	1.72	52.1	6	0	1	6.9	0.0	1.1	0.1	0.0	0.0	3.0	8.6	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.4	0.0	0.0	21.4	0.2	4.9
U255_S5	3.41	103.33	10	1	3	11.5	1.1	3.4	0.2	0.0	0.1	8.0	23.0	1.0	1.1	0.1	2.3	0.2	1.1	0.7	4.8	0.1	0.0	48.4	0.4	24.7
U255_S5.1	4.12	124.85	15	1	1	17.2	1.1	1.1	0.3	0.0	0.0	4.4	12.7	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.8	0.1	0.0	43.5	0.4	10.1
U255_S6	5.76	174.55	18	2	4	20.7	2.3	4.6	0.4	0.1	0.1	11.4	32.7	1.7	1.9	0.2	3.8	0.4	1.9	1.2	8.1	0.1	0.0	76.0	0.6	24.6
U255_S7	2.67	80.91	10	1	0	11.5	1.1	0.0	0.2	0.0	0.0	1.6	4.5	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.7	0.1	0.0	24.4	0.2	21.0
U255_S8	2.86	86.67	10	1	1	11.5	1.1	1.1	0.2	0.0	0.0	3.7	10.6	0.8	1.0	0.1	1.9	0.2	1.0	0.6	4.0	0.1	0.0	32.2	0.3	13.7
A-U255_S9	0.26	7.88	0	0	2	0.0	0.0	2.3	0.0	0.0	0.1	4.2	11.9	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	14.9	0.1	1.2
A-U255_S10	0.74	22.42	0	2	1	0.0	2.3	1.1	0.0	0.1	0.0	2.4	7.0	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.5	0.1	3.6
A-U255_S10.1	0.25	7.58	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	8.0	0.0	2.0
U255_S9	1.60	48.48	5	1	1	5.7	1.1	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	6.8
U255_S10	0.71	21.52	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	3.0
U255_S11	0.32	9.70	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.7	0.0	1.4
U255_S12	0.85	25.76	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.5	1.4	0.2	0.3	0.0	0.6	0.1	0.3	0.2	1.2	0.0	0.0	8.3	0.1	5.9
U255_S13	30.13	913.03	111	5	5	127.4	5.7	5.7	2.3	0.1	0.2	27.7	79.4	8.8	10.1	1.0	20.1	2.0	10.0	6.0	42.2	0.6	0.1	300.8	2.8	128.2
N45	11.93	361.52	46	1	1	52.8	1.1	1.1	1.0	0.0	0.0	9.0	25.8	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.7	0.2	0.1	113.6	1.1	18.5
N50_S2	24.98	756.97	94	3	3	107.9	3.4	3.4	1.9	0.1	0.1	20.7	59.3	7.3	8.4	0.8	16.7	1.7	8.3	5.0	35.0	0.5	0.1	242.4	2.3	109.0
N50_S3	11.98	363.03	46	1	1	52.8	1.1	1.1	1.0	0.0	0.0	9.0	25.9	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	113.8	1.1	31.3
N70	11.48	347.88	44	0	2	50.5	0.0	2.3	0.9	0.0	0.1	10.7	30.8	3.4	3.9	0.4	7.7	0.8	3.8	2.3	16.1	0.2	0.1	115.0	1.0	28.2
AGENCY PREFERRED ROUTE SEGMENTS																										
W819_S9	2.05	62.12	7	1	1	8.0	1.1	1.1	0.1	0.0	0.0	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.1	0.2	9.8

Table A-1 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	Wire		Fiber												
												No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
W115.07.1	2.47	74.85	9	0	1	10.3	0.0	1.1	0.2	0.0	0.0	3.4	9.9	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.5	0.0	0.0	28.1	0.2	5.7
A-W28_S2	3.79	114.85	15	0	1	17.2	0.0	1.1	0.3	0.0	0.0	4.2	12.1	1.1	1.3	0.1	2.5	0.3	1.3	0.8	5.3	0.1	0.0	40.9	0.4	10.7
A-W28_S3	1.12	33.94	4	0	1	4.6	0.0	1.1	0.1	0.0	0.0	2.7	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.6	0.0	0.0	16.4	0.1	3.2
U35_S1	2.70	81.82	9	0	2	10.3	0.0	2.3	0.2	0.0	0.1	5.6	16.0	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.8	0.1	0.0	36.0	0.3	6.5
U35_S2	7.21	218.48	26	1	2	29.8	1.1	2.3	0.5	0.0	0.1	8.2	23.6	2.1	2.4	0.2	4.8	0.5	2.4	1.4	10.1	0.1	0.0	76.6	0.7	26.2
U36_S1	7.37	223.33	27	2	1	31.0	2.3	1.1	0.6	0.1	0.0	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	72.8	0.7	19.7
U217.01	76.80	2327.27	269	10	29	308.8	11.5	33.3	5.6	0.3	1.1	103.1	295.7	22.5	25.9	2.6	51.2	5.1	25.6	15.4	107.5	1.5	0.4	859.4	7.3	290.1
U218	11.97	362.73	38	3	7	43.6	3.4	8.0	0.8	0.1	0.3	21.0	60.3	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	148.2	1.2	94.0
U219.1	0.60	18.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.8	0.1	2.9
U219.3	1.47	44.5	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.9	2.5	0.4	0.5	0.0	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.4	0.1	3.4
U219.5	16.83	510.00	52	2	14	59.7	2.3	16.1	1.1	0.1	0.5	37.9	108.7	4.9	5.7	0.6	11.2	1.1	5.6	3.4	23.6	0.3	0.1	232.8	1.7	118.9
U219.6	4.56	138.18	14	0	5	16.1	0.0	5.7	0.3	0.0	0.2	12.7	36.4	1.3	1.5	0.2	3.0	0.3	1.5	0.9	6.4	0.1	0.0	70.7	0.5	21.9
U217.052	15.82	479.39	53	4	7	60.8	4.6	8.0	1.1	0.1	0.3	23.3	66.8	4.6	5.3	0.5	10.5	1.1	5.3	3.2	22.1	0.3	0.1	183.6	1.5	101.3
Nephi-SA-S	0.65	19.70	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.8	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	5.1
Nephi-SB	4.16	126.06	13	2	2	14.9	2.3	2.3	0.3	0.1	0.1	6.4	18.5	1.2	1.4	0.1	2.8	0.3	1.4	0.8	5.8	0.1	0.0	49.4	0.4	32.7
U115b	5.60	169.7	22	0	1	25.3	0.0	1.1	0.5	0.0	0.0	5.3	15.2	1.6	1.9	0.2	3.7	0.4	1.9	1.1	7.8	0.1	0.0	56.9	0.5	14.6
U120	4.30	130.3	18	0	0	20.7	0.0	0.0	0.4	0.0	0.0	2.5	7.2	1.3	1.4	0.1	2.9	0.3	1.4	0.9	6.0	0.1	0.0	39.7	0.4	33.8
U260_S1	14.10	427.3	56	0	1	64.3	0.0	1.1	1.2	0.0	0.0	10.3	29.5	4.1	4.7	0.5	9.4	0.9	4.7	2.8	19.7	0.3	0.1	133.5	1.3	32.8
U260_S2	40.77	1235.5	154	3	7	176.8	3.4	8.0	3.2	0.1	0.3	37.9	108.8	12.0	13.7	1.4	27.2	2.7	13.6	8.2	57.1	0.8	0.2	408.6	3.7	94.9
N10	1.60	48.5	6	0	1	6.9	0.0	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	3.7
N805	15.22	461.2	57	1	3	65.4	1.1	3.4	1.2	0.0	0.1	14.9	42.8	4.5	5.1	0.5	10.1	1.0	5.1	3.0	21.3	0.3	0.1	154.5	1.4	51.0
N808	41.29	1251.2	146	7	13	167.6	8.0	14.9	3.0	0.2	0.5	50.2	144.1	12.1	13.9	1.4	27.5	2.8	13.8	8.3	57.8	0.8	0.2	447.7	3.9	146.1
N35A	22.47	680.9	84	3	3	96.4	3.4	3.4	1.7	0.1	0.1	19.2	55.0	6.6	7.6	0.7	15.0	1.5	7.5	4.5	31.5	0.4	0.1	219.8	2.0	34.9
N40A	16.14	489.1	60	1	4	68.9	1.1	4.6	1.2	0.0	0.1	17.5	50.1	4.7	5.4	0.5	10.8	1.1	5.4	3.2	22.6	0.3	0.1	168.9	1.5	25.0
N90A	2.66	80.6	10	0	1	11.5	0.0	1.1	0.2	0.0	0.0	3.6	10.2	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.7	0.1	0.0	30.1	0.3	4.1
N75	7.02	212.7	26	2	1	29.8	2.3	1.1	0.5	0.1	0.0	6.1	17.6	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	70.1	0.7	10.9
ALTERNATIVE ROUTE SEGMENTS																										
W15_S1	22.02	667.3	75	7	7	86.1	8.0	8.0	1.5	0.2	0.3	26.9	77.2	6.5	7.4	0.7	14.7	1.5	7.3	4.4	30.8	0.4	0.1	239.7	2.1	51.2
W15_S2	16.42	497.6	59	3	4	67.7	3.4	4.6	1.2	0.1	0.1	17.6	50.6	4.8	5.5	0.5	10.9	1.1	5.5	3.3	23.0	0.3	0.1	171.3	1.5	38.2
W15_S3	2.32	70.3	9	1	0	10.3	1.1	0.0	0.2	0.0	0.0	1.4	3.9	0.7	0.8	0.1	1.5	0.2	0.8	0.5	3.2	0.0	0.0	21.7	0.2	5.4
W65	8.27	250.6	32	1	1	36.7	1.1	1.1	0.7	0.0	0.0	6.9	19.7	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	81.3	0.8	23.5
W115.01	0.45	13.6	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.0	0.0	10.0	0.0	1.0
W115.02	1.50	45.5	6	0	0	6.9	0.0	0.0	0.0	0.0	0.0	0.9	2.5	0.4	0.5	0.1	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.5	0.0	3.5
W115.03	0.36	10.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.3	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	9.6	0.0	0.9
W115.04	12.14	367.9	45	3	1	51.7	3.4	1.1	0.0	0.0	0.0	9.1	26.2	3.6	4.1	0.4	8.1	0.8	4.0	2.4	17.0	0.2	0.1	115.6	0.1	28.3
W115.07	1.77	53.6	7	1	0	8.0	1.1	0.0	0.0	0.0	0.0	1.0	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	17.0	0.0	4.1
W819_S2	1.50	45.5	5	1	0	5.7	1.1	0.0	0.1	0.0	0.0	0.9	2.5	0.4	0.5	0.1	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.5	0.1	3.7
W819_S3	1.43	43.3	4	1	1	4.6	1.1	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	1.0	0.1	0.5	0.3	2.0	0.0	0.0	18.9	0.2	3.3
A-W19_S1	11.17	338.5	37	7	1	42.5	8.0	1.1	0.8	0.2	0.0	8.6	24.5	3.3	3.8	0.4	7.4	0.7	3.7	2.2	15.6	0.2	0.1	106.8	1.0	26.0
A-W19_S2	15.54	470.9	58	1	4	66.6	1.1	4.6	1.2	0.0	0.1	17.1	49.1	4.6	5.2	0.5	10.4	1.0	5.2	3.1	21.8	0.3	0.1	164.0	1.4	36.2
C10	11.14	337.58	43	1	1	49.4	1.1	1.1	0.9	0.0	0.0	8.5	24.5	3.3	3.8	0.4	7.4	0.7	3.7	2.2	15.6	0.2	0.1	106.6	1.0	31.6
C65	11.44	346.67	41	1	4	47.1	1.1	4.6	0.8	0.0	0.1	14.7	42.2	3.4	3.9	0.4	7.6	0.8	3.8	2.3	16.0	0.2	0.1	126.3	1.1	54.9
C100	24.25	734.85	89	2	6	102.2	2.3	6.9	1.8	0.1	0.2	26.2	75.3	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.0	0.5	0.1	253.0	2.2	60.4
C110	11.98	363.03	46	1	1	52.8	1.1	1.1	1.0	0.0	0.0	9.0	25.9	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	113.8	1.1	21.1
C802	21.41	648.79	80	3	3	91.8	3.4	3.4	1.7	0.1	0.1	18.6	53.3	6.3	7.2	0.7	14.3	1.4	7.1	4.3	30.0	0.4	0.1	210.6	1.9	102.8
C804	4.02	121.82	10	1	6	11.5	1.1	6.9	0.2	0.0	0.2	14.4	41.2	1.2	1.4	0.1	2.7	0.3	1.3	0.8	5.6	0.1	0.0	71.7	0.5	11.4
A-C56_S1	0.56	16.97	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.3	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.7	0.1	1.6
A-C56_S2	0.76	23.03	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.4	1.3	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	8.0	0.1	2.2
A-C56_S3	1.29	39.09	4	1	1	4.6	1.1	1.1	0.1	0.0	0.0	2.8	7.9	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	18.3	0.2	3.0
A-C56_S4	0.27	8.18	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.0	0.8
A-C56_S5	4.79	145.15	18	0	2	20.7	0.0	2.3	0.4	0.0	0.1	6.8	19.5	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	55.6	0.5	13.6
A-C57	2.33	70.61	9	0	1	10.3	0.0	1.1	0.2	0.0	0.0	3.4	9.7	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.3	0.0	0.0	27.5	0.2	6.6
TE-A1	0.30	9.09	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	9.4	0.1	0.7
TE-B_S7	1.62	49.09	6	0	1	6.9	0.0	1.1	0.1	0.0	0.0	3.0	8.5	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	20.9	0.2	7.8
C195	5.19	157.27	19	0	2	21.8	0.0	2.3	0.4	0.0	0.1	7.0	20.2	1.5	1.7	0.2	3.5	0.3	1.7	1.0	7.3	0.1	0.0	58.5	0.5	13.2
C800_S1	7.69	233.03	28	2	1	32.1	2.3	1.1	0.6	0.1	0.0	6.5	18.7	2.3	2.6	0.3	5.1	0.5	2.6	1.5	10.8	0.2	0.0	75.3	0.7	54.9
C800_S2	19.26	583.64	72	3	3	82.6	3.4	3.4	1.5	0.1	0.1	17.3	49.6	5.6	6.5	0.6	12.8	1.3	6.4	3.9	27.0	0.4	0.1	191.9	1.8	54.6

Table A-1 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
C800_S3	46.87	1420.30	156	9	23	179.1	10.3	26.4	3.2	0.3	0.8	73.5	210.9	13.7	15.8	1.6	31.2	3.1	15.6	9.4	65.6	0.9	0.2	555.0	4.5	182.0
TE-A_S1	8.38	253.94	32	1	1	36.7	1.1	1.1	0.7	0.0	0.0	6.9	19.8	2.5	2.8	0.3	5.6	0.6	2.8	1.7	11.7	0.2	0.0	81.8	0.8	36.3
U36	9.58	290.30	35	2	2	40.2	2.3	2.3	0.7	0.1	0.1	9.6	27.6	2.8	3.2	0.3	6.4	0.6	3.2	1.9	13.4	0.2	0.0	98.6	0.9	42.1
A-U56_S5	7.41	224.55	28	0	2	32.1	0.0	2.3	0.6	0.0	0.1	8.3	24.0	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.4	0.1	0.0	78.7	0.7	21.0
U55_S13	1.93	58.48	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.1	9.0	0.6	0.6	0.1	1.3	0.1	0.6	0.4	2.7	0.0	0.0	23.5	0.2	13.5
U55_S14	2.54	76.97	11	0	0	12.6	0.0	0.0	0.2	0.0	0.0	1.5	4.3	0.7	0.9	0.1	1.7	0.2	0.8	0.5	3.6	0.1	0.0	23.9	0.2	17.7
U55_S15	2.59	78.48	8	0	3	9.2	0.0	3.4	0.2	0.0	0.1	7.5	21.6	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	41.3	0.3	18.1
U55_S16	0.23	6.97	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.1	0.1	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.0	7.9	0.0	1.6
U60	77.84	2358.79	290	11	11	332.9	12.6	12.6	6.0	0.3	0.4	67.7	194.2	22.8	26.2	2.6	51.9	5.2	25.9	15.6	109.0	1.6	0.4	765.3	7.1	190.7
U75	1.93	58.48	8	0	0	9.2	0.0	0.0	0.2	0.0	0.0	1.1	3.2	0.6	0.6	0.1	1.3	0.1	0.6	0.4	2.7	0.0	0.0	17.7	0.2	5.5
U75A	13.20	400.00	50	1	2	57.4	1.1	2.3	1.0	0.0	0.1	11.7	33.7	3.9	4.4	0.4	8.8	0.9	4.4	2.6	18.5	0.3	0.1	130.7	1.2	22.8
U85A	98.93	2997.88	352	18	26	404.0	20.7	29.8	7.3	0.5	1.0	110.0	315.8	29.0	33.3	3.3	66.0	6.6	33.0	19.8	138.5	2.0	0.5	1041.1	9.2	350.1
U90_S1	10.78	326.67	39	1	4	44.8	1.1	4.6	0.8	0.0	0.1	14.3	41.1	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	121.1	1.0	28.5
U90_S2	50.26	1523.03	154	18	30	176.8	20.7	34.4	3.2	0.5	1.1	89.5	256.8	14.7	16.9	1.7	33.5	3.4	16.8	10.1	70.4	1.0	0.2	626.2	5.0	298.8
U135_S1	14.69	445.2	53	3	3	60.8	3.4	3.4	1.1	0.1	0.1	14.6	41.9	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.6	0.3	0.1	149.9	1.4	43.7
U135_S2	13.22	400.6	48	3	2	55.1	3.4	2.3	1.0	0.1	0.1	11.8	33.7	3.9	4.5	0.4	8.8	0.9	4.4	2.6	18.5	0.3	0.1	130.7	1.2	24.8
U140	3.63	110.00	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.6	1.1	1.2	0.1	2.4	0.2	1.2	0.7	5.1	0.1	0.0	44.7	0.4	8.4
U145_S1	7.94	240.6	31	0	1	35.6	0.0	1.1	0.6	0.0	0.0	6.7	19.1	2.3	2.7	0.3	5.3	0.5	2.6	1.6	11.1	0.2	0.0	77.6	0.7	12.3
U200	38.16	1156.36	141	3	9	161.8	3.4	10.3	2.9	0.1	0.3	40.4	115.9	11.2	12.8	1.3	25.4	2.5	12.7	7.6	53.4	0.8	0.2	395.9	3.5	97.2
U217.02	16.03	485.76	49	5	11	56.2	5.7	12.6	1.0	0.1	0.4	31.4	90.1	4.7	5.4	0.5	10.7	1.1	5.3	3.2	22.4	0.3	0.1	208.6	1.6	89.2
U217.03	0.94	28.48	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.6	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	7.4
U217.051	20.30	615.15	76	3	3	87.2	3.4	3.4	1.6	0.1	0.1	17.9	51.4	6.0	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	201.1	1.9	67.4
U217.10	20.87	632.42	61	9	14	70.0	10.3	16.1	1.3	0.3	0.5	40.2	115.5	6.1	7.0	0.7	13.9	1.4	7.0	4.2	29.2	0.4	0.1	269.0	2.1	98.9
U217.15	36.37	1102.12	118	12	16	135.4	13.8	18.4	2.4	0.3	0.6	53.3	153.1	10.7	12.2	1.2	24.2	2.4	12.1	7.3	50.9	0.7	0.2	420.2	3.5	213.4
U219.2	19.79	599.7	51	11	18	58.5	12.6	20.7	1.1	0.3	0.7	47.6	136.6	5.8	6.7	0.7	13.2	1.3	6.6	4.0	27.7	0.4	0.1	282.6	2.1	140.2
U219.4	1.60	48.48	5	1	1	5.7	1.1	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	12.6
U222.05	41.20	1248.48	150	9	6	172.2	10.3	6.9	3.1	0.3	0.2	36.2	103.8	12.1	13.9	1.4	27.5	2.7	13.7	8.2	57.7	0.8	0.2	405.9	3.8	81.9
U222.10	14.16	429.09	48	3	6	55.1	3.4	6.9	1.0	0.1	0.2	20.3	58.3	4.2	4.8	0.5	9.4	0.9	4.7	2.8	19.8	0.3	0.1	162.5	1.4	53.3
U223.00	18.16	550.30	60	7	6	68.9	8.0	6.9	1.2	0.2	0.2	22.7	65.0	5.3	6.1	0.6	12.1	1.2	6.1	3.6	25.4	0.4	0.1	198.5	1.7	64.4
U225	38.41	1163.94	136	3	15	156.1	3.4	17.2	2.8	0.1	0.6	52.5	150.8	11.3	12.9	1.3	25.6	2.6	12.8	7.7	53.8	0.8	0.2	432.6	3.6	106.8
U325.1	43.28	1311.52	136	14	24	156.1	16.1	27.5	2.8	0.4	0.9	73.4	210.6	12.7	14.6	1.4	28.9	2.9	14.4	8.7	60.6	0.9	0.2	528.8	4.3	136.6
U325.2	4.12	124.85	12	3	2	13.8	3.4	2.3	0.2	0.1	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.8	0.1	0.0	49.2	0.4	28.8
U821	24.04	728.48	92	1	4	105.6	1.1	4.6	1.9	0.0	0.1	22.1	63.4	7.1	8.1	0.8	16.0	1.6	8.0	4.8	33.7	0.5	0.1	240.6	2.2	65.5
U145_S2	9.51	288.2	34	2	3	39.0	2.3	3.4	0.7	0.1	0.1	11.6	33.2	2.8	3.2	0.3	6.3	0.6	3.2	1.9	13.3	0.2	0.0	104.0	0.9	14.8
U155-165	35.93	1088.79	140	0	4	160.7	0.0	4.6	2.9	0.0	0.1	29.1	83.4	10.5	12.1	1.2	24.0	2.4	12.0	7.2	50.3	0.7	0.2	347.1	3.2	62.5
Ox_Vly_Conn	0.65	19.70	1	1	1	1.1	1.1	1.1	0.0	0.0	0.0	2.4	6.8	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	1.8
U256_S1	7.00	212.12	25	1	2	28.7	1.1	2.3	0.5	0.0	0.1	8.1	23.3	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	74.6	0.7	33.6
U256_S2	6.60	200.00	22	1	4	25.3	1.1	4.6	0.5	0.0	0.1	11.9	34.1	1.9	2.2	0.2	4.4	0.4	2.2	1.3	9.2	0.1	0.0	83.1	0.7	31.7
U256_S3	9.25	280.30	30	1	6	34.4	1.1	6.9	0.6	0.0	0.2	17.4	50.0	2.7	3.1	0.3	6.2	0.6	3.1	1.9	13.0	0.2	0.0	117.8	0.9	72.7
U495	7.64	231.52	29	0	2	33.3	0.0	2.3	0.6	0.0	0.1	8.5	24.3	2.2	2.6	0.3	5.1	0.5	2.5	1.5	10.7	0.2	0.0	80.8	0.7	17.8
U506.01	28.56	865.45	97	2	16	111.3	2.3	18.4	2.0	0.1	0.6	48.8	139.9	8.4	9.6	1.0	19.0	1.9	9.5	5.7	40.0	0.6	0.1	350.1	2.8	111.1
N35B	3.05	92.42	10	0	3	11.5	0.0	3.4	0.2	0.0	0.1	7.8	22.4	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.3	0.1	0.0	45.6	0.3	8.7
N65	9.72	294.55	37	0	2	42.5	0.0	2.3	0.8	0.0	0.1	9.7	27.8	2.9	3.3	0.3	6.5	0.6	3.2	1.9	13.6	0.2	0.0	99.2	0.9	23.1
N80	3.62	109.70	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.6	1.1	1.2	0.1	2.4	0.2	1.2	0.7	5.1	0.1	0.0	44.7	0.4	8.4
N85	19.34	586.06	70	0	8	80.3	0.0	9.2	1.4	0.0	0.3	27.3	78.5	5.7	6.5	0.6	12.9	1.3	6.4	3.9	27.1	0.4	0.1	220.9	1.8	49.8
N806	124.76	3780.61	477	6	17	547.5	6.9	19.5	9.9	0.2	0.6	107.2	307.6	36.6	42.0	4.2	83.2	8.3	41.6	25.0	174.7	2.5	0.6	1223.0	11.2	342.9
N115	0.92	27.88	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.5	1.5	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	2.1
N117	3.87	117.27	16	0	0	18.4	0.0	0.0	0.3	0.0	0.0	2.3	6.5	1.1	1.3	0.1	2.6	0.3	1.3	0.8	5.4	0.1	0.0	35.5	0.3	14.6
N118	5.42	164.24	17	1	4	19.5	1.1	4.6	0.4	0.0	0.1	11.2	32.1	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	72.2	0.6	26.0
N125_S1	8.31	251.82	29	2	3	33.3	2.3	3.4	0.6	0.1	0.1	10.9	31.2	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	93.0	0.8	37.3
N125_S2	0.42	12.73	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	4.2	0.0	1.0
N130	4.18	126.67	14	0	3	16.1	0.0	3.4	0.3	0.0	0.1	8.5	24.3	1.2	1.4	0.1	2.8	0.3	1.4	0.8	5.9	0.1	0.0	55.2	0.4	20.1
N140	8.06	244.24	24	3	6	27.5	3.4	6.9	0.5	0.1	0.2	16.7	48.0	2.4	2.7	0.3	5.4	0.5	2.7	1.6	11.3	0.2	0.0	107.9	0.8	57.2
N150	20.59	623.94	72	2	9	82.6	2.3	10.3	1.5	0.1	0.3	30.1	86.3	6.0	6.9	0.7	13.7	1.4	6.9	4.1	28.8	0.4	0.1	237.9	2.0	44.1
N155	8.31	251.82	27	3	4	31.0	3.4	4.6	0.6	0.1	0.1	12.9	36.9	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	98.7	0.8	27.1
N160	3.79	114.85	12	1	3	13.8	1.1	3.4	0.2	0.0	0.1	8.2	23.6	1.1	1.3	0.1	2.5	0.3	1.3	0.8	5.3	0.1	0.0	52.3	0.4	16.2
N170	0.93	28.18	2	1	1	2.3	1.1	1.1	0.0	0.0	0.0	2.5	7.3	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	14.4	0.1	1.4

Table A-1 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
N170A	8.00	242.42	29	0	3	33.3	0.0	3.4	0.6	0.0	0.1	10.7	30.7	2.3	2.7	0.3	5.3	0.5	2.7	1.6	11.2	0.2	0.0	89.3	0.7	18.6
N175_S1	7.10	215.15	26	2	1	29.8	2.3	1.1	0.5	0.1	0.0	6.2	17.7	2.1	2.4	0.2	4.7	0.5	2.4	1.4	9.9	0.1	0.0	70.4	0.7	11.0
N175_S2	0.27	8.18	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.0	0.4
N175_S4	0.70	21.21	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	1.1
Gyp_opn_Conn	0.17	5.15	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	7.6	0.0	0.4
Gyp_opn	0.41	12.42	0	1	1	0.0	1.1	1.1	0.0	0.0	0.0	2.2	6.4	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	9.8	0.1	1.0
NRA-rt_S1	2.42	73.33	7	1	2	8.0	1.1	2.3	0.1	0.0	0.1	5.4	15.6	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.4	0.0	0.0	33.7	0.3	7.2
NRA-rt_S2	2.77	83.94	9	0	3	10.3	0.0	3.4	0.2	0.0	0.1	7.6	21.9	0.8	0.9	0.1	1.8	0.2	0.9	0.6	3.9	0.1	0.0	43.2	0.3	7.9

Notes: TUA - Temporary Use Areas (structure work sites, pulling/tensioning sites, material storage yards, batch plants, fly yards and staging areas)

* All structures are self-supporting lattice.
* Splicing areas are included with the Pulling/Tensioning Sites per common construction practices.
* Material Storage Yards have a disturbance area of 20 acres.
* Batch Plants have a disturbance area of 5 acres.
* Fly Yards/Staging Areas have a disturbance area of 7 acres.
* Temporary disturbance areas for Structure Work Areas and Pulling/Tensioning/Splicing Sites are within the 250 feet wide ROW.
* Depending on the spacing of the facilities (i.e., storage yards) along the length of the proposed and alternative route segments, the same facility may serve more than one route segment. Therefore, the number of facilities associated with each route segment are fractions. This avoids overestimating the total disturbance area for these facilities when individual route segments are combined to form an end-to-end route

Structures per mile -	Approximately		4				
Right-of-Way Width (ROW) -			250	feet			
Structure Work Area -	ROW	x	200	feet			
Wire-Pulling, Tensioning, Splicing Site							
Dead-End (DE) Structure -	ROW	x	500	feet	2 @ every DE Structure		
Mid-Span Conductor and Shield Wire -	ROW	x	500	feet	Every	9,000	feet
Fiber Optic Cable Set-Up Sites -	100	x	500	feet	Every	18,000	feet
Material Storage Yards -	Approximately		20	Acres	Every	30	miles
Batch Plant Sites - Stand-alone, Temporary -	Approximately		5	Acres	Every	15	miles
Fly Yards / Staging Areas -	Approximately		7	Acres	Every	5	miles
Structure Base (600 kV HVDC towers)							
Lattice Tower (Tangent) -	30	x	30	feet			
Lattice Tower (Angle) -	35	x	35	feet			
Lattice Tower (Dead End) -	40	x	40	feet			
Regeneration Sites (most located on ROW) -	100	x	100	feet	Every	50	miles

Table A-2 Summary of Permanent Access Road Disturbances within the TWE Corridors by Transmission Line Route Segment

		Terrain Type 1 - Flat								Terrain Type 2 - Rolling								Terrain Type 3 - Steep								Terrain Type 4 - Mountainous								Route Segment Disturbance Totals					
Route Segment ID	**Total Route Segment Line Length (miles)**	Route Segment Line Length in Terrain Type 1 - Flat (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 2 - Rolling (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 3 - Steep (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 4 - Mountainous (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW	
		Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres
SEGMENTS COMMON TO APPLICANT PROPOSED AND AGENCY PREFERRED ROUTES																																							
W10	32.24	0.00	5.00	4.0	7.8	0.4	0.8	0.5	7.0	5.24	22.00	31.0	67.7	7.5	16.4	23.5	51.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	35.0	75.4	7.9	17.2	24.0	58.3
W20_S1	1.64	1.64	0.00	2.0	3.8	1.4	2.8	0.5	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.8	1.4	2.8	0.5	1.0
W20_S3	1.56	1.56	0.00	1.9	3.6	1.4	2.7	0.5	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.6	1.4	2.7	0.5	1.0
W20_S4	7.54	7.54	0.00	9.0	17.5	6.6	12.8	2.4	4.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.0	17.5	6.6	12.8	2.4	4.7
W819_S1	5.40	5.40	0.00	6.5	12.6	4.7	9.2	1.7	3.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.5	12.6	4.7	9.2	1.7	3.4
A-W20_S1	7.67	7.67	0.00	9.2	17.9	6.7	13.0	2.5	4.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.2	17.9	6.7	13.0	2.5	4.8
W819_S5	1.28	1.28	0.00	1.5	3.0	1.1	2.2	0.4	0.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	1.1	2.2	0.4	0.8
W819_S6	3.72	3.72	0.00	4.5	8.7	3.3	6.3	1.2	2.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.7	3.3	6.3	1.2	2.3
W819_S7	0.60	0.60	0.00	0.7	1.4	0.5	1.0	0.2	0.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.5	1.0	0.2	0.4
W819_S8	20.40	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	20.40	0.00	26.5	57.9	17.0	37.0	9.5	20.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	26.5	57.9	17.0	37.0	9.5	20.8
A-W26_S3	1.67	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.67	0.00	2.2	4.7	1.4	3.0	0.8	1.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.7	1.4	3.0	0.8	1.7
A-C26_S1	6.22	3.00	0.00	3.6	7.0	2.6	5.1	1.0	1.9	3.22	0.00	4.2	9.1	2.7	5.8	1.5	3.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.8	16.1	5.3	10.9	2.5	5.2
A-C52_S1	1.38	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.00	1.3	2.8	0.8	1.8	0.5	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.00	1.0	3.0	0.2	0.5	0.8	2.4	2.3	5.8	1.0	2.4	1.3	3.5
A-C52_S2	3.45	0.45	0.00	0.5	1.0	0.4	0.8	0.1	0.3	3.00	0.00	3.9	8.5	2.5	5.4	1.4	3.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.4	9.6	2.9	6.2	1.5	3.3
A-C52_S3	1.41	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.00	0.7	2.0	0.3	0.7	0.5	1.2	1.00	0.00	2.7	7.9	0.5	1.4	2.2	6.4	3.4	9.8	0.8	2.2	2.7	7.7
A-C52_S4	7.55	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.55	0.00	13.6	36.2	5.2	13.8	8.4	22.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	13.6	36.2	5.2	13.8	8.4	22.5
C186.03	0.36	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.00	0.5	1.0	0.3	0.7	0.2	0.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.3	0.7	0.2	0.4
C186.04	3.72	3.72	0.00	4.5	8.7	3.3	6.3	1.2	2.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.7	3.3	6.3	1.2	2.3
A-C53_S1	10.41	2.41	0.00	2.9	5.6	2.1	4.1	0.8	1.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	8.00	0.00	14.4	38.4	5.5	14.6	8.9	23.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	17.3	44.0	7.6	18.7	9.7	25.3
A-C54_S1	4.10	2.10	0.00	2.5	4.9	1.8	3.6	0.7	1.3	1.00	0.00	1.3	2.8	0.8	1.8	0.5	1.0	1.00	0.00	1.8	4.8	0.7	1.8	1.1	3.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.6	12.5	3.4	7.2	2.3	5.3
A-C54_S2	1.97	1.00	0.00	1.2	2.3	0.9	1.7	0.3	0.6	0.97	0.00	1.3	2.8	0.8	1.8	0.5	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	1.7	3.5	0.8	1.6
A-C54_S3	1.32	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.00	1.7	3.7	1.1	2.4	0.6	1.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.7	1.1	2.4	0.6	1.3
A-C54_S4	1.81	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.81	0.00	2.4	5.1	1.5	3.3	0.8	1.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.1	1.5	3.3	0.8	1.8
A-C54_S5	0.80	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.00	1.0	2.3	0.7	1.5	0.4	0.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.3	0.7	1.5	0.4	0.8
TE-A2	0.53	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.53	0.8	2.3	0.1	0.3	0.7	1.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	0.1	0.3	0.7	1.9
C111_S1	1.10	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.10	1.2	2.6	0.2	0.3	1.1	2.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.6	0.2	0.3	1.1	2.3
C111_S2	0.93	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.93	1.0	2.2	0.1	0.3	0.9	1.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	0.1	0.3	0.9	1.9
C115_S1	2.60	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.60	4.2	11.1	0.6	1.6	3.6	9.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.2	11.1	0.6	1.6	3.6	9.5
C115_S2	0.51	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.51	0.8	2.2	0.1	0.3	0.7	1.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2	0.1	0.3	0.7	1.9
C115_S3	14.64	0.00	3.64	2.9	5.6	0.3	0.6	0.3	5.1	0.00	7.00	7.7	16.8	1.0	2.2	6.7	14.6	0.00	4.00	6.4	17.1	0.9	2.4	5.5	14.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	17.0	39.5	2.2	5.1	12.5	34.4
C120_S1	1.39	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.39	1.5	3.3	0.2	0.4	1.3	2.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.3	0.2	0.4	1.3	2.9
C120_S2	23.34	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	23.34	25.7	56.0	3.3	7.3	22.3	48.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	25.7	56.0	3.3	7.3	22.3	48.7
U70_S1	7.30	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	7.30	17.5	51.0	2.8	8.2	14.7	42.8	17.5	51.0	2.8	8.2	14.7	42.8
U70_S2	5.52	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	5.52	13.2	38.5	2.1	6.2	11.1	32.4	13.2	38.5	2.1	6.2	11.1	32.4
U70_S4	15.17	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	15.17	36.4	105.9	5.8	16.9	30.6	89.0	36.4	105.9	5.8	16.9	30.6	89.0
U70_S5	6.34	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	5.34	15.5	45.1	2.5	7.4	13.0	37.8	15.5	45.1	2.5	7.4	13.0	37.8
U70_S6	0.27	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.00	0.7	2.1	0.1	0.4	0.6	1.7	0.7	2.1	0.1	0.4	0.6	1.7
Nephi-NB_S2	0.70	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.70	0.8	1.7	0.1	0.2	0.7	1.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	0.1	0.2	0.7	1.5
U130_S1	17.03	2.00	0.00	2.4	4.7	1.8	3.4	0.6	1.3	8.00	0.00	10.4	22.7	6.7	14.5	3.7	8.2	7.03	0.00	12.7	33.7	4.8	12.8	7.8	20.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	25.5	61.1	13.2	30.7	12.2	30.3
A-U131_S1	3.52	3.52	0.00	4.2	8.2	3.1	6.0	1.1	2.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.2	3.1	6.0	1.1	2.2
A-U131_S2	0.26	0.26	0.00	0.3	0.6	0.2	0.4	0.1	0.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.2	0.4	0.1	0.2
A-U131_S3	1.21	1.21	0.00	1.5	2.8	1.1	2.1	0.4	0.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.8	1.1	2.1	0.4	0.8
A-U131_S4	0.68	0.68	0.00	0.8	1.6	0.6	1.2	0.2	0.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.6	1.2	0.2	0.4
A-U131_S5	3.70	3.70	0.00	4.4	8.6	3.2	6.3	1.2	2.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.6	3.2	6.3	1.2	2.3
U150_S1	8.63	8.63	0.00	10.4	20.1	7.6	14.7	2.8	5.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	10.4	20.1	7.6	14.7	2.8	5.4
U150_S2	9.82	9.82	0.00	11.8	22.9	8.6	16.7	3.2	6.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.8	22.9	8.6	16.7	3.2	6.2
U155	7.01	0.00	7.01	5.6	10.9	0.6	1.1	0.6	9.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.9	0.6	1.1	0.6	9.8
U168	20.28	20.28	0.00	24.3	47.2	17.8	34.5	6.6	12.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	24.3	47.2	17.8	34.5	6.6	12.7
U180	4.28	4.28	0.00	5.1	10.0	3.7	7.3	1.4	2.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.0	3.7	7.3	1.4	2.7
U215	14.14	4.00	0.00	4.8	9.3	3.5	6.8	1.3	2.5	10.14	0.00	13.2	28.8	8.4	18.4	4.7	10.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	18.0	38.1	11.9	25.2	6.0	12.9
U220	44.14	1.00	33.14	27.7	53.7	3.5	6.8	3.3	46.9	0.00	8.00	8.8	19.2	1.1	2.5	7.7	16.7	0.00	1.00	1.6	4.3	0.2	0.6	1.4	3.7	0.00	1.00	2.4	7.0	0.4	1.1	2.0	5.9	40.5	84.2	5.3	11.1	14.4	73.1
U250	20.33	10.00	10.33	20.3	39.3	9.6	18.6	4.2	20.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	20.3	39.3	9.6	18.6	4.2	20.7
N50_S1	7.00	0.00	1.00	0.8	1.6	0.1	0.2	0.1	1.4	0.00	5.00	5.5	12.0	0.7	1.6	4.8	10.4	0.00	1.00	1.6	4.3	0.2	0.6	1.4	3.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.9	17.8	1.0	2.3	6.3	15.5
N95_S1	0.67	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.67	0.7	1.6	0.1	0.2	0.6	1.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	0.1	0.2	0.6	1.4
N95_S2	4.82	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.00	1.1	2.4	0.1	0.3	1.0	2.1	0.00	3.82	6.1	16.3	0.9	2.3	5.3	14.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.2	18.7	1.0	2.6	6.2	16.1
N100	6.17	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	6.17	6.8	14.8	0.9	1.9	5.9	12.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.8	14.8	0.9	1.9	5.9	12.9
N120	4.10	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.10	4.5	9.8	0.6	1.3	3.9	8.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.8	0.6	1.3	3.9	8.6
N121_S1	1.35	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.35	2.2	5.8	0.3	0.8	1.9	5.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.8	0.3	0.8	1.9	5.0
N121_S2	1.78	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.78	2.8	7.6	0.4	1.1	2.4	6.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.6	0.4	1.1	2.4	6.5
N121_S3	4.06	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.06	6.5	17.3	0.9	2.4	5.6	14.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.5	17.3	0.9	2.4	5.6	14.9
N121_S4	1.27	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.27	1.4	3.0	0.2	0.4	1.2	2.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0	0.2	0.4	1.2	2.7
N135_S1	0.44	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.44	0.7	1.9	0.1	0.3	0.6	1.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.9	0.1	0.3	0.6	1.6
N135_S2	2.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.00	3.2	8.5	0.4	1.2	2.8	7.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.5	0.4	1.2	2.8	7.3
N145	2.84	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.84	6.8	19.8	1.1	3.2	5.7	16.7	6.8	19.8	1.1	3.2	5.7	16.7
N165	12.68	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	12.68	13.9	30.4	1.8	4.0	12.1	26.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	13.9	30.4	1.8	4.0	12.1	26.5
N175_S3	0.46	0.00	0.46	0.4	0.7	0.0	0.1	0.0	0.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.1	0.0	0.6
APPLICANT PROPOSED ROUTE SEGMENTS																																							
W819_S10	0.96	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.00	1.2	2.7	0.8	1.7	0.4	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.7	0.8	1.7	0.4	1.0
A-W26_S1	2.08	2.08	0.00	2.5	4.8	1.8	3.5	0.7	1.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8	1.8	3.5	0.7	1.3
A-W26_S2	4.43	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.43	0.00	5.8	12.6	3.7	8.0	2.1	4.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.8	12.6	3.7	8.0	2.1	4.5
U40	8.17	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	8.17	0.00	10.6	23.2	6.8	14.8	3.8	8.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	10.6	23.2	6.8	14.8	3.8	8.3
U41	10.75	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	10.75	0.00	29.0	84.4	5.2	15.2	23.8	69.2	29.0	84.4	5.2	15.2	23.8	69.2
U45	3.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	3.00	3.3	7.2	0.4	0.9	2.9	6.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.3	7.2	0.4	0.9	2.9	6.3
U50	12.70	0.00	10.70	8.6	16.6	0.9	1.7	1.0	14.9	0.00	1.00	1.1	2.4	0.1	0.3	1.0	2.1	0.00	1.00	1.6	4.3	0.2	0.6	1.4	3.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.3	23.3	1.2	2.6	3.3	20.7
U55_S1	1.80	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.80	2.0	4.3	0.3	0.6	1.7	3.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.3	0.3	0.6	1.7	3.8
U55_S3	10.21	10.21	0.00	12.3	23.8	8.9	17.3	3.3	6.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	12.3	23.8	8.9	17.3	3.3	6.4

Table A-2 Summary of Permanent Access Road Disturbances within the TWE Corridors by Transmission Line Route Segment

Route Segment ID	Total Route Segment Line Length (miles)	Terrain Type 1 - Flat								Terrain Type 2 - Rolling								Terrain Type 3 - Steep								Terrain Type 4 - Mountainous								Route Segment Disturbance Totals					
		Route Segment Line Length in Terrain Type 1 - Flat (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 2 - Rolling (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 3 - Steep (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 4 - Mountainous (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW	
		Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres
U55_S4	12.70	7.00	2.70	10.6	20.5	6.3	12.3	2.5	8.2	3.00	0.00	3.9	8.5	2.5	5.4	1.4	3.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.5	29.0	8.8	17.8	3.9	11.2
U55_S5	24.34	0.00	7.00	5.6	10.9	0.6	1.1	0.6	9.8	0.00	17.34	19.1	41.6	2.5	5.4	16.6	36.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	24.7	52.5	3.0	6.5	17.2	46.0
U55_S7	1.30	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.30	1.4	3.1	0.2	0.4	1.2	2.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.1	0.2	0.4	1.2	2.7
U55_S8	1.65	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.65	2.6	7.0	0.4	1.0	2.3	6.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.0	0.4	1.0	2.3	6.1
U55_S9	4.27	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.27	4.7	10.2	0.6	1.3	4.1	8.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.7	10.2	0.6	1.3	4.1	8.9
U55_S10	7.00	5.00	2.00	7.6	14.7	4.5	8.8	1.8	5.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.6	14.7	4.5	8.8	1.8	5.9
U55_S11	21.65	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.00	0.00	5.2	11.3	3.3	7.3	1.9	4.1	3.00	2.00	8.6	22.9	2.5	6.7	6.1	16.3	0.00	12.65	30.4	88.3	4.9	14.1	25.5	74.2	44.2	122.6	10.7	28.1	33.5	94.5
U55_S12	4.65	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.65	11.2	32.5	1.8	5.2	9.4	27.3	11.2	32.5	1.8	5.2	9.4	27.3
U55_S17	7.35	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	7.35	17.6	51.3	2.8	8.2	14.8	43.1	17.6	51.3	2.8	8.2	14.8	43.1
U55_S18	1.31	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.31	3.1	9.1	0.5	1.5	2.6	7.7	3.1	9.1	0.5	1.5	2.6	7.7
U55_S19	0.43	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.43	1.0	3.0	0.2	0.5	0.9	2.5	1.0	3.0	0.2	0.5	0.9	2.5
Nephi-SA	0.67	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.67	1.6	4.7	0.3	0.7	1.4	3.9	1.6	4.7	0.3	0.7	1.4	3.9
Nephi-NA	2.10	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.10	5.0	14.7	0.8	2.3	4.2	12.3	5.0	14.7	0.8	2.3	4.2	12.3
Nephi-NB_S1	17.23	2.00	12.00	12.0	23.3	2.7	5.3	1.7	18.0	0.00	0.23	0.3	0.6	0.0	0.1	0.2	0.5	0.00	3.00	4.8	12.8	0.7	1.8	4.1	11.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	17.1	36.6	3.4	7.1	6.1	29.5
U255_S1	19.32	0.00	19.32	15.5	30.0	1.5	3.0	1.7	27.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	15.5	30.0	1.5	3.0	1.7	27.0
U255_S2	18.42	0.42	18.00	14.9	28.9	1.8	3.5	1.8	25.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.9	28.9	1.8	3.5	1.8	25.4
U255_S3	0.20	0.20	0.00	0.2	0.5	0.2	0.3	0.1	0.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.2	0.3	0.1	0.1
U255_S4	1.72	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.72	0.00	2.2	4.9	1.4	3.1	0.8	1.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.9	1.4	3.1	0.8	1.8
U255_S5	3.41	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.00	0.5	1.2	0.3	0.7	0.2	0.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.00	8.1	23.6	1.5	4.2	6.6	19.3	8.6	24.7	1.8	5.0	6.8	19.7
U255_S5.1	4.12	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.00	4.4	9.6	0.6	1.2	3.8	8.4	0.00	0.12	0.2	0.5	0.0	0.1	0.2	0.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.6	10.1	0.6	1.3	4.0	8.8
U255_S6	5.76	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	5.76	9.2	24.6	1.3	3.4	7.9	21.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.2	24.6	1.3	3.4	7.9	21.1
U255_S7	2.67	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.67	0.00	7.2	21.0	1.3	3.8	5.9	17.2	7.2	21.0	1.3	3.8	5.9	17.2
U255_S8	2.86	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.86	0.00	5.1	13.7	2.0	5.2	3.2	8.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.1	13.7	2.0	5.2	3.2	8.5
A-U255_S9	0.26	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.00	0.5	1.2	0.2	0.5	0.3	0.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	0.2	0.5	0.3	0.8
A-U255_S10	0.74	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.00	1.3	3.6	0.5	1.3	0.8	2.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.6	0.5	1.3	0.8	2.2
A-U255_S10.1	0.25	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.00	0.7	2.0	0.1	0.4	0.6	1.6	0.7	2.0	0.1	0.4	0.6	1.6
U255_S9	1.60	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.60	2.6	6.8	0.4	1.0	2.2	5.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.8	0.4	1.0	2.2	5.9
U255_S10	0.71	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.71	1.1	3.0	0.2	0.4	1.0	2.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.0	0.2	0.4	1.0	2.6
U255_S11	0.32	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.32	0.5	1.4	0.1	0.2	0.4	1.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	0.1	0.2	0.4	1.2
U255_S12	0.85	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.85	2.0	5.9	0.3	0.9	1.7	5.0	2.0	5.9	0.3	0.9	1.7	5.0
U255_S13	30.13	0.00	0.13	0.1	0.2	0.0	0.0	0.0	0.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	30.00	48.0	128.0	6.7	17.9	41.3	110.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	48.1	128.2	6.7	17.9	41.3	110.3
N45	11.93	0.00	11.93	9.5	18.5	1.0	1.9	1.1	16.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.5	18.5	1.0	1.9	1.1	16.7
N50_S2	24.98	4.40	0.00	5.3	10.2	3.9	7.5	1.4	2.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	20.58	0.00	37.0	98.8	14.1	37.5	23.0	61.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	42.3	109.0	17.9	45.0	24.4	64.0
N50_S3	11.98	10.60	0.00	12.7	24.7	9.3	18.0	3.4	6.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.38	0.00	2.5	6.6	0.9	2.5	1.5	4.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	15.2	31.3	10.2	20.5	5.0	10.8
N70	11.48	8.48	0.00	10.2	19.7	7.4	14.4	2.7	5.3	3.00	0.00	3.9	8.5	2.5	5.4	1.4	3.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.1	28.2	9.9	19.9	4.2	8.4
AGENCY PREFERRED ROUTE SEGMENTS																																							
W819_S9	2.05	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.00	3.7	9.8	1.4	3.7	2.3	6.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.8	1.4	3.7	2.3	6.1
W115.07.1	2.47	2.47	0.00	3.0	5.7	2.2	4.2	0.8	1.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.7	2.2	4.2	0.8	1.6
A-W28_S2	3.79	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.79	0.00	4.9	10.7	3.2	6.9	1.8	3.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.9	10.7	3.2	6.9	1.8	3.9
A-W28_S3	1.12	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.12	0.00	1.5	3.2	0.9	2.0	0.5	1.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.2	0.9	2.0	0.5	1.1
U35_S1	2.70	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.70	3.0	6.5	0.4	0.8	2.6	5.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.5	0.4	0.8	2.6	5.6
U35_S2	7.21	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.21	0.00	4.2	9.1	2.7	5.8	1.5	3.3	0.00	4.00	6.4	17.1	0.9	2.4	5.5	14.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	10.6	26.2	3.6	8.2	7.0	18.0
U36_S1	7.37	2.37	0.00	2.8	5.5	2.1	4.0	0.8	1.5	5.00	0.00	6.5	14.2	4.2	9.1	2.3	5.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.3	19.7	6.2	13.1	3.1	6.6
U217.01	76.80	17.00	7.00	26.0	50.4	15.5	30.0	6.1	20.5	7.00	0.00	9.1	19.9	5.8	12.7	3.3	7.1	45.80	0.00	82.4	219.8	31.3	83.5	51.1	136.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	117.5	290.1	52.6	126.2	60.5	163.9
U218	11.97	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.97	0.00	32.3	94.0	5.8	16.9	26.5	77.1	32.3	94.0	5.8	16.9	26.5	77.1
U219.1	0.60	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.00	1.1	2.9	0.4	1.1	0.7	1.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.9	0.4	1.1	0.7	1.8
U219.3	1.47	1.47	0.00	1.8	3.4	1.3	2.5	0.5	0.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.4	1.3	2.5	0.5	0.9
U219.5	16.83	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.83	0.00	1.1	2.4	0.7	1.5	0.4	0.8	3.00	0.00	5.4	14.4	2.1	5.5	3.3	8.9	13.00	0.00	35.1	102.1	6.3	18.4	28.8	83.7	41.6	118.9	9.1	25.4	32.5	93.5
U219.6	4.56	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.56	0.00	8.2	21.9	3.1	8.3	5.1	13.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	8.2	21.9	3.1	8.3	5.1	13.6
U217.052	15.82	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.00	2.2	4.8	0.3	0.6	1.9	4.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	13.82	33.2	96.5	5.3	15.4	27.9	81.1	35.4	101.3	5.6	16.1	29.8	85.2
Nephi-SA-S	0.65	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.00	1.8	5.1	0.3	0.9	1.4	4.2	1.8	5.1	0.3	0.9	1.4	4.2
Nephi-SB	4.16	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.16	0.00	11.2	32.7	2.0	5.9	9.2	26.8	11.2	32.7	2.0	5.9	9.2	26.8
U115b	5.60	2.60	0.00	3.1	6.1	2.3	4.4	0.8	1.6	3.00	0.00	3.9	8.5	2.5	5.4	1.4	3.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.0	14.6	4.8	9.9	2.2	4.7
U120	4.30	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.30	0.00	11.6	33.8	2.1	6.1	9.5	27.7	11.6	33.8	2.1	6.1	9.5	27.7
U260_S1	14.10	14.10	0.00	16.9	32.8	12.4	24.0	4.6	8.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	16.9	32.8	12.4	24.0	4.6	8.9
U260_S2	40.77	40.77	0.00	48.9	94.9	35.7	69.3	13.2	25.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	48.9	94.9	35.7	69.3	13.2	25.6
N10	1.60	1.60	0.00	1.9	3.7	1.4	2.7	0.5	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.7	1.4	2.7	0.5	1.0
N805	15.22	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.22	0.00	14.6	31.8	9.3	20.4	5.3	11.5	4.00	0.00	7.2	19.2	2.7	7.3	4.5	11.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	21.8	51.0	12.1	27.7	9.7	23.4
N808	41.29	2.29	0.00	2.7	5.3	2.0	3.9	0.7	1.4	33.00	0.00	42.9	93.6	27.5	59.9	15.4	33.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.00	0.00	16.2	47.1	2.9	8.5	13.3	38.6	61.8	146.1	32.4	72.3	29.5	73.8
N35A	22.47	0.00	22.47	18.0	34.9	1.8	3.5	2.0	31.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	18.0	34.9	1.8	3.5	2.0	31.4
N40A	16.14	0.00	16.14	12.9	25.0	1.3	2.5	1.5	22.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	12.9	25.0	1.3	2.5	1.5	22.5
N90A	2.66	0.00	2.66	2.1	4.1	0.2	0.4	0.2	3.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.1	0.2	0.4	0.2	3.7
N75	7.02	0.00	7.02	5.6	10.9	0.6	1.1	0.6	9.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.9	0.6	1.1	0.6	9.8
ALTERNATIVE ROUTE SEGMENTS																																							
W15_S1	22.02	22.02	0.00	26.4	51.2	19.3	37.4	7.1	13.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	26.4	51.2	19.3	37.4	7.1	13.8
W15_S2	16.42	16.42	0.00	19.7	38.2	14.4	27.9	5.3	10.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	19.7	38.2	14.4	27.9	5.3	10.3
W15_S3	2.32	2.32	0.00	2.8	5.4	2.0	3.9	0.8	1.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.4	2.0	3.9	0.8	1.5
W65	8.27	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	8.27	0.00	10.8	23.5	6.9	15.0	3.9	8.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	10.8	23.5	6.9	15.0	3.9	8.4
W115.01	0.45	0.45	0.00	0.5	1.0	0.4	0.8	0.1	0.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.4	0.8	0.1	0.3
W115.02	1.50	1.50	0.00	1.8	3.5	1.3	2.5	0.5	0.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.5	1.3	2.5	0.5	0.9
W115.03	0.36	0.39	0.00	0.5	0.9	0.3	0.7	0.1	0.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.3	0.7	0.1	0.2
W115.04	12.14	12.14	0.00	14.6	28.3	10.6	20.6	3.9	7.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.6	28.3	10.6	20.6	3.9	7.6
W115.07	1.77	1.77	0.00	2.1	4.1	1.6	3.0	0.6	1.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.1	1.6	3.0	0.6	1.1
W819_S2	1.50	1.00	0.00	1.2	2.3	0.9	1.7	0.3	0.6	0.50	0.00	0.7	1.4	0.4	0.9	0.2	0.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.7	1.3	2.6	0.6	1.1

Table A-2 Summary of Permanent Access Road Disturbances within the TWE Corridors by Transmission Line Route Segment

Route Segment ID	Total Route Segment Line Length (miles)	Terrain Type 1 - Flat								Terrain Type 2 - Rolling								Terrain Type 3 - Steep								Terrain Type 4 - Mountainous								Route Segment Disturbance Totals					
		Route Segment Line Length in Terrain Type 1 - Flat (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 2 - Rolling (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 3 - Steep (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 4 - Mountainous (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW	
		Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres
W819_S3	1.43	1.43	0.00	1.7	3.3	1.3	2.4	0.5	0.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.3	1.3	2.4	0.5	0.9
A-W19_S1	11.17	11.17	0.00	13.4	26.0	9.8	19.0	3.6	7.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	13.4	26.0	9.8	19.0	3.6	7.0
A-W19_S2	15.54	15.54	0.00	18.6	36.2	13.6	26.4	5.0	9.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	18.6	36.2	13.6	26.4	5.0	9.8
C10	11.14	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.14	0.00	14.5	31.6	9.3	20.2	5.2	11.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.5	31.6	9.3	20.2	5.2	11.4
C65	11.44	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.44	0.00	20.6	54.9	7.8	20.9	12.8	34.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	20.6	54.9	7.8	20.9	12.8	34.0
C100	24.25	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.00	19.25	27.7	60.4	6.9	15.1	20.8	45.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	27.7	60.4	6.9	15.1	20.8	45.3
C110	11.98	0.00	9.00	7.2	14.0	0.7	1.4	0.8	12.6	0.00	2.98	3.3	7.2	0.4	0.9	2.9	6.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	10.5	21.1	1.1	2.3	3.7	18.8
C802	21.41	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	21.41	0.00	38.5	102.8	14.6	39.1	23.9	63.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	38.5	102.8	14.6	39.1	23.9	63.7
C804	4.02	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.02	0.00	5.2	11.4	3.3	7.3	1.9	4.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.2	11.4	3.3	7.3	1.9	4.1
A-C56_S1	0.56	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.00	0.7	1.6	0.5	1.0	0.3	0.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	0.5	1.0	0.3	0.6
A-C56_S2	0.76	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.00	1.0	2.2	0.6	1.4	0.4	0.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	0.6	1.4	0.4	0.8
A-C56_S3	1.29	1.29	0.00	1.5	3.0	1.1	2.2	0.4	0.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	1.1	2.2	0.4	0.8
A-C56_S4	0.27	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.00	0.4	0.8	0.2	0.5	0.1	0.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.2	0.5	0.1	0.3
A-C56_S5	4.79	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.79	0.00	6.2	13.6	4.0	8.7	2.2	4.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.2	13.6	4.0	8.7	2.2	4.9
A-C57	2.33	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.33	0.00	3.0	6.6	1.9	4.2	1.1	2.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.6	1.9	4.2	1.1	2.4
TE-A1	0.30	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.30	0.3	0.7	0.0	0.1	0.3	0.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.1	0.3	0.6
TE-B_S7	1.62	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.62	0.00	2.9	7.8	1.1	3.0	1.8	4.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.8	1.1	3.0	1.8	4.8
C195	5.19	3.00	0.00	3.6	7.0	2.6	5.1	1.0	1.9	2.19	0.00	2.8	6.2	1.8	4.0	1.0	2.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.4	13.2	4.5	9.1	2.0	4.1
C800_S1	7.69	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.69	0.8	1.7	0.1	0.2	0.7	1.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.00	2.00	18.3	53.2	3.2	9.3	15.1	43.9	19.1	54.9	3.3	9.5	15.8	45.4
C800_S2	19.26	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	19.26	0.00	25.0	54.6	16.0	35.0	9.0	19.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	25.0	54.6	16.0	35.0	9.0	19.7
C800_S3	46.87	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	21.87	0.00	28.4	62.0	18.2	39.7	10.2	22.3	25.00	0.00	45.0	120.0	17.1	45.6	27.9	74.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	73.4	182.0	35.3	85.3	38.1	96.7
TE-A_S1	8.38	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.00	2.6	5.7	1.7	3.6	0.9	2.0	6.38	0.00	11.5	30.6	4.4	11.6	7.1	19.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.1	36.3	6.0	15.3	8.1	21.0
U36	9.58	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.00	2.6	5.7	1.7	3.6	0.9	2.0	7.58	0.00	13.6	36.4	5.2	13.8	8.5	22.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	16.2	42.1	6.8	17.5	9.4	24.6
A-U56_S5	7.41	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.41	0.00	9.6	21.0	6.2	13.5	3.5	7.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.6	21.0	6.2	13.5	3.5	7.6
U55_S13	1.93	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.93	4.6	13.5	0.7	2.2	3.9	11.3	4.6	13.5	0.7	2.2	3.9	11.3
U55_S14	2.54	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.54	6.1	17.7	1.0	2.8	5.1	14.9	6.1	17.7	1.0	2.8	5.1	14.9
U55_S15	2.59	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2.59	6.2	18.1	1.0	2.9	5.2	15.2	6.2	18.1	1.0	2.9	5.2	15.2
U55_S16	0.23	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.23	0.6	1.6	0.1	0.3	0.5	1.3	0.6	1.6	0.1	0.3	0.5	1.3
U60	77.84	51.00	0.00	61.2	118.7	44.7	86.6	16.5	32.0	12.00	13.84	30.8	67.3	12.0	26.1	18.9	41.2	1.00	0.00	1.8	4.8	0.7	1.8	1.1	3.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	93.8	190.7	57.3	114.6	36.5	76.2
U75	1.93	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.93	0.00	2.5	5.5	1.6	3.5	0.9	2.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.5	1.6	3.5	0.9	2.0
U75A	13.20	3.00	10.20	11.8	22.8	3.4	6.7	1.9	16.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.8	22.8	3.4	6.7	1.9	16.1
U85A	98.93	0.00	14.00	11.2	21.7	1.1	2.2	1.3	19.5	5.00	44.93	55.9	122.0	10.6	23.1	45.3	98.9	0.00	14.00	22.4	59.7	3.1	8.4	19.3	51.4	0.00	21.00	50.4	146.6	8.1	23.5	42.3	123.2	139.9	350.1	22.9	57.1	108.2	293.0
U90_S1	10.78	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.00	4.78	13.1	28.5	5.7	12.4	7.4	16.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	13.1	28.5	5.7	12.4	7.4	16.1
U90_S2	50.26	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.26	9.00	40.1	106.8	11.8	31.4	28.3	75.5	4.00	23.00	66.0	192.0	10.8	31.3	55.2	160.7	106.1	298.8	22.5	62.7	83.5	236.1
U135_S1	14.69	0.00	7.00	5.6	10.9	0.6	1.1	0.6	9.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	7.69	12.3	32.8	1.7	4.6	10.6	28.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	17.9	43.7	2.3	5.7	11.2	38.0
U135_S2	13.22	0.00	8.22	6.6	12.8	0.7	1.3	0.7	11.5	0.00	5.00	5.5	12.0	0.7	1.6	4.8	10.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	12.1	24.8	1.4	2.8	5.5	21.9
U140	3.63	3.63	0.00	4.4	8.4	3.2	6.2	1.2	2.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.4	3.2	6.2	1.2	2.3
U145_S1	7.94	0.00	7.94	6.4	12.3	0.6	1.2	0.7	11.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.4	12.3	0.6	1.2	0.7	11.1
U200	38.16	21.00	13.16	35.7	69.3	19.4	37.7	8.0	31.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.00	9.6	27.9	1.5	4.5	8.1	23.5	45.3	97.2	21.0	42.2	16.1	55.0
U217.02	16.03	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	12.03	0.00	21.7	57.7	8.2	21.9	13.4	35.8	4.00	0.00	10.8	31.4	1.9	5.7	8.9	25.8	32.5	89.2	10.2	27.6	22.3	61.6
U217.03	0.94	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.00	2.5	7.4	0.5	1.3	2.1	6.1	2.5	7.4	0.5	1.3	2.1	6.1
U217.051	20.30	0.00	1.30	1.0	2.0	0.1	0.2	0.1	1.8	8.00	4.00	14.8	32.3	7.2	15.8	7.6	16.5	6.00	1.00	12.4	33.1	4.3	11.5	8.1	21.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	28.2	67.4	11.7	27.5	15.8	39.9
U217.10	20.87	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.87	4.00	13.3	29.1	6.3	13.7	7.0	15.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	10.00	24.0	69.8	3.8	11.2	20.2	58.6	37.3	98.9	10.1	24.9	27.2	74.0
U217.15	36.37	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.00	2.6	5.7	1.7	3.6	0.9	2.0	20.37	0.00	36.7	97.8	13.9	37.2	22.7	60.6	14.00	0.00	37.8	110.0	6.8	19.8	31.0	90.2	77.1	213.4	22.4	60.6	54.7	152.8
U219.2	19.79	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.00	0.00	9.0	24.0	3.4	9.1	5.6	14.9	14.79	0.00	39.9	116.2	7.2	20.9	32.7	95.3	48.9	140.2	10.6	30.0	38.3	110.1
U219.4	1.60	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.60	0.00	4.3	12.6	0.8	2.3	3.5	10.3	4.3	12.6	0.8	2.3	3.5	10.3
U222.05	41.20	18.20	20.00	37.8	73.4	17.5	34.0	7.7	39.4	3.00	0.00	3.9	8.5	2.5	5.4	1.4	3.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	41.7	81.9	20.0	39.5	9.1	42.4
U222.10	14.16	4.00	0.00	4.8	9.3	3.5	6.8	1.3	2.5	0.00	2.00	2.2	4.8	0.3	0.6	1.9	4.2	8.16	0.00	14.7	39.2	5.6	14.9	9.1	24.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	21.7	53.3	9.4	22.3	12.3	31.0
U223.00	18.16	7.00	0.00	8.4	16.3	6.1	11.9	2.3	4.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	10.16	18.1	48.1	3.0	7.9	15.1	40.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	26.5	64.4	9.1	19.8	17.4	44.7
U225	38.41	13.00	3.00	18.0	34.9	11.6	22.6	4.5	12.4	13.00	4.00	21.3	46.5	11.4	24.8	9.9	21.6	4.41	1.00	9.5	25.4	3.2	8.6	6.3	16.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	48.8	106.8	26.3	56.0	20.7	50.8
U325.1	43.28	0.00	23.00	18.4	35.7	1.8	3.6	2.1	32.1	0.00	1.00	1.1	2.4	0.1	0.3	1.0	2.1	0.00	13.28	21.2	56.7	3.0	7.9	18.3	48.7	0.00	6.00	14.4	41.9	2.3	6.7	12.1	35.2	55.1	136.6	7.3	18.5	33.4	118.1
U325.2	4.12	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	4.12	9.9	28.8	1.6	4.6	8.3	24.2	9.9	28.8	1.6	4.6	8.3	24.2
U821	24.04	13.00	0.00	15.6	30.3	11.4	22.1	4.2	8.2	9.04	0.00	11.8	25.6	7.5	16.4	4.2	9.2	2.00	0.00	3.6	9.6	1.4	3.6	2.2	6.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	31.0	65.5	20.3	42.1	10.7	23.4
U145_S2	9.51	0.00	9.51	7.6	14.8	0.8	1.5	0.9	13.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.6	14.8	0.8	1.5	0.9	13.3
U155-165	35.93	0.00	27.93	22.3	43.3	2.2	4.3	2.5	39.0	0.00	8.00	8.8	19.2	1.1	2.5	7.7	16.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	31.1	62.5	3.4	6.8	10.2	55.7
Ox_Vly_Conn	0.65	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.00	0.8	1.8	0.5	1.2	0.3	0.7	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8	0.5	1.2	0.3	0.7
U256_S1	7.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.00	0.00	12.6	33.6	4.8	12.8	7.8	20.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	12.6	33.6	4.8	12.8	7.8	20.8
U256_S2	6.60	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.60	0.00	11.9	31.7	4.5	12.0	7.4	19.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.9	31.7	4.5	12.0	7.4	19.6
U256_S3	9.25	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.25	0.00	25.0	72.7	4.5	13.1	20.5	59.6	25.0	72.7	4.5	13.1	20.5	59.6
U495	7.64	7.64	0.00	9.2	17.8	6.7	13.0	2.5	4.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.2	17.8	6.7	13.0	2.5	4.8
U506.01	28.56	1.00	0.00	1.2	2.3	0.9	1.7	0.3	0.6	12.00	0.00	15.6	34.0	10.0	21.8	5.6	12.3	15.56	0.00	28.0	74.7	10.6	28.4	17.4	46.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	44.8	111.1	21.5	51.9	23.3	59.2
N35B	3.05	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.05	0.00	4.0	8.7	2.5	5.5	1.4	3.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.7	2.5	5.5	1.4	3.1
N65	9.72	8.72	0.00	10.5	20.3	7.6	14.8	2.8	5.5	1.00	0.00	1.3	2.8	0.8	1.8	0.5	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	11.8	23.1	8.5	16.6	3.3	6.5
N80	3.62	3.62	0.00	4.3	8.4	3.2	6.2	1.2	2.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.4	3.2	6.2	1.2	2.3
N85	19.34	10.00	0.00	12.0	23.3	8.8	17.0	3.2	6.3	9.34	0.00	12.1	26.5	7.8	17.0	4.4	9.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	24.1	49.8	16.5	33.9	7.6	15.8
N806	124.76	4.00	53.76	47.8	92.7	7.8	15.1	6.1	77.6	8.00	23.00	35.7	77.9	9.9	21.7	25.8	56.2	35.00	1.00	64.6	172.3	24.2	64.4	40.4	107.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	148.1	342.9	41.9	101.3	72.3	241.6
N115	0.92	0.92	0.00	1.1	2.1	0.8	1.6	0.3	0.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	0.8	1.6	0.3	0.6
N117	3.87	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.00	2.6	5.7	1.7	3.6	0.9	2.0	1.87	0.00	3.4	9.0	1.3	3.4	2.1	5.6	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.0	14.6	2.9	7.0	3.0	7.6
N118	5.42	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.42	0.00	9.8	26.0	3.7	9.9	6.0	16.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.8	26.0	3.7	9.9	6.0	16.1
N125_S1	8.31	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.31	0.00	1.7	3.7	1.1	2.4	0.6	1.3	7.00	0.00	12.6	33.6	4.8	12.8	7.8	20.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	14.3	37.3	5.9	15.1	8.4	22.2
N125_S2	0.42	0.42	0.00	0.5	1.0	0.4	0.7	0.1	0.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.4	0.7	0.1	0.3
N130	4.18	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	4.18	0.00	7.5	20.1	2.9	7.6	4.7	12.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	7.5	20.1	2.9	7.6	4.7	12.4
N140	8.06	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.06	7.00	19.7	57.2	3.2	9.3	16.5	47.9	19.7	57.2	3.2	9.3	16.5	47.9
N150	20.59	0.00	16.59	13.3	25.7	1.3	2.6	1.5	23.2	2.00	0.00	2.6	5.7	1.7	3.6	0.9	2.0	1.00	0.00	1.8	4.8	0.7	1.8	1.1	3.0	1.00	0.00	2.7	7.9	0.5	1.4	2.2	6.4	20.4	44.1	4.2	9.4	5.8	34.6
N155	8.31	1.00	4.31	4.6	9.0	1.2	2.4	0.7	6.6	0.00	1.00	1.1	2.4	0.1	0.3	1.0	2.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.00	5.4	15.7	1.0	2.8	4.4	12.9	11.1	27.1	2.3	5.5	6.1	21.6
N160	3.79	0.79	0.00	0.9	1.8	0.7	1.3	0.3	0.5	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.00	5.4	14.4	2.1	5.5	3.3	8.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	6.3	16.2	2.7	6.8	3.6	9.4
N170	0.93	0.00	0.93	0.7	1.4	0.1	0.1	0.1	1.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.1	0.1	0.1	1.3

Table A-2 Summary of Permanent Access Road Disturbances within the TWE Corridors by Transmission Line Route Segment

		Terrain Type 1 - Flat								Terrain Type 2 - Rolling								Terrain Type 3 - Steep								Terrain Type 4 - Mountainous								Route Segment Disturbance Totals					
Route Segment ID	**Total Route Segment Line Length (miles)**	Route Segment Line Length in Terrain Type 1 - Flat (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 2 - Rolling (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 3 - Steep (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Route Segment Line Length in Terrain Type 4 - Mountainous (miles)		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW	
		Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	Grnfld	Co-loc	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres	miles	acres
N170A	8.00	8.00	0.00	9.6	18.6	7.0	13.6	2.6	5.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	9.6	18.6	7.0	13.6	2.6	5.0
N175_S1	7.10	0.00	7.10	5.7	11.0	0.6	1.1	0.6	9.9	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	5.7	11.0	0.6	1.1	0.6	9.9
N175_S2	0.27	0.00	0.27	0.2	0.4	0.0	0.0	0.0	0.4	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.4
N175_S4	0.70	0.00	0.70	0.6	1.1	0.1	0.1	0.1	1.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1	0.1	0.1	0.1	1.0
Gyp_opn_Conn	0.17	0.17	0.00	0.2	0.4	0.1	0.3	0.1	0.1	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.1	0.3	0.1	0.1
Gyp_opn	0.41	0.41	0.00	0.5	1.0	0.4	0.7	0.1	0.3	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.4	0.7	0.1	0.3
NRA-rt_S1	2.42	1.00	0.00	1.2	2.3	0.9	1.7	0.3	0.6	1.00	0.00	1.3	2.8	0.8	1.8	0.5	1.0	0.42	0.00	0.8	2.0	0.3	0.8	0.5	1.2	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.3	7.2	2.0	4.3	1.3	2.9
NRA-rt_S2	2.77	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.77	0.00	3.6	7.9	2.3	5.0	1.3	2.8	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.9	2.3	5.0	1.3	2.8

Notes:

	Greenfield			Co-Located		
Terrain Types	Ratio of Access Road Miles to One Mile of Transmission Line	Percentage of Access Road Miles Estimated Within and Outside ROW		Ratio of Access Road Miles to One Mile of Transmission Line	Percentage of Access Road Miles Estimated Within and Outside ROW	
Terrain Type 1 - Flat Terrain (0 to 8 percent slope)	1.2	73%	27%	0.8	10%	90%
Terrain Type 2 - Rolling Terrain (8 to 15 percent slope)	1.3	64%	36%	1.1	13%	87%
Terrain Type 3 - Steep Terrain (15 to 25 percent slope)	1.8	38%	62%	1.6	14%	86%
Terrain Type 4 - Mountainous Terrain (greater than 25 percent slope)	2.7	18%	82%	2.4	16%	84%

Example: 10 miles of Terrain Type 2 line route results in 14 miles of estimated access road disturbance (10 x 1.3 = 13)
59% (.59 x 13 = 8.3 miles) of this access road disturbance is estimated to be within the 250 feet ROW
Terrain Type 2 contains both Category 2(B) and Category 4 access roads.

Backbone Access Road Network (GIS Shapefiles)
Category 1 - Existing Improved Roads
Category 2(A) - Existing Road Outside Corridor that Requires Improvement

New Access Roads Inside Corridor (Table 2)
Category 2(B) - Existing Roads Inside Corridor that Require Improvement
Category 3 - Construct New Access Road in Flat Terrain (0 to 8 percent slope)
Category 4 - Construct New Access Road in Rolling Terrain (8 to 15 percent slope)
Category 5 - Construct New Access Road in Steep Terrain (15 to 25 percent slope)
Category 6 - Construct New Access Road in Mountainous Terrain (greater than 25 percent slope)

Access Road Disturbance Widths by Terrain Type

Flat	16 feet
Rolling	18 feet
Steep	22 feet
Mountainous	24 feet

These disturbance estimates are based on POWER's professional judgment and experience on past projects of similar scale and terrain conditions. These roads generally have a 14 foot wide bladed surface with 2-3 foot berms or ditches on either side, but can be wider in steep and mountainous terrain because of cut and fill requirements according to ground slope. Roads would be designed for one-way traffic; however, pullouts would be constructed to allow for oncoming vehicles to pass.

Table A-3 Summary of Northern and Southern Terminal Temporary and Permanent Disturbance

Terminals	Terminal Disturbance			Interconnection Line Voltage	Total Line Length	Interconnection Line Disturbance															Access Road Disturbance for Interconnection Line								Total Terminal Disturbance	
	Storage & Concrete Batch Plant	Converter Station & Switchyards	Terminal Access Road			Length of each line	Total ROW per line	Structures per line (number)			Structure Work Area per line (acres)			Structure Base per line (acres)			Pulling / Tensioning / Splicing Sites per line				Line Temporary Disturbance	Line Permanent Disturbance	Lines	Line Length in Terrain Type 1 - Flat	New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Total Temporary Disturbance	Total Permanent Disturbance
																	Wire		Fiber													
	acres	acres	acres		miles	miles	acres	Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	acres	acres	No.	miles	miles	acres	miles	acres	miles	acres	acres	acres
Northern	7.5	205	10	EGW 500 kV Loop in/out	4.0	2.0	60.6	2.0	3.0	3.0	2.3	3.4	3.4	0.1	0.1	0.1	7.2	20.6	0.6	0.7	60.9	0.6	2	4.0	5.2	10.1	3.7	7.2	1.5	2.9	**270**	**249**
				EGS 500 kV Loop in/out	4.0	2.0	60.6	2.0	3.0	3.0	2.3	3.4	3.4	0.1	0.1	0.1	7.2	20.6	0.6	0.7	60.9	0.6	2	4.0	5.2	10.1	3.7	7.2	1.5	2.9		
				230 kV Platte-Point of Rocks	4.0	4.0	48.5	18.0	3.0	3.0	16.5	2.8	2.8	0.0	0.0	0.0	8.3	19.2	1.2	1.3	42.5	0.0	1	4.0	5.2	10.1	3.7	7.2	1.5	2.9		
				230 kV	1.0	1.0	12.1	3.0	1.0	2.0	2.8	0.9	1.8	0.0	0.0	0.0	4.6	10.5	0.3	0.3	98.3	0.0	6	1.0	1.4	2.7	1.1	2.1	0.3	0.6		
Southern Site 1 (Conceptual - 2012)	7.5	140	15	500 kV	10.0	2.5	303.0	30.0	5.0	5.0	34.4	5.7	5.7	0.8	0.2	0.2	11.5	32.9	1.8	2.1	323.7	5.0	4	10.0	34.0	66.0	24.5	47.5	9.5	18.5	**331**	**226**
Southern Site 2 (Alt Conceptual 2012)	7.5	140	20	500 kV	18.0	4.5	545.5	62.0	5.0	5.0	71.2	5.7	5.7	1.7	0.2	0.2	12.6	36.3	2.6	3.0	487.8	8.6	4	18.0	47.0	91.0	33.5	65.0	13.5	26.2	**495**	**260**

Table A-8 Summary of Northern Terminal & Series Compensation Station Temporary and Permanent Disturbance - System Alternative 2

Locations	Terminal / Substation / Series Compensation Station Disturbance			Interconnection Line Voltage	Total Line Length	Interconnection Line Disturbance															Access Road Disturbance for Interconnection Line								Total Terminal Disturbance	
	Storage & Concrete Batch Plant	Converter Station & Switchyards	Location Access Road			Length of each line	Total ROW per line	Structures per line (number)			Structure Work Area per line (acres)			Structure Base per line (acres)			Pulling / Tensioning / Splicing Sites per line				Line Temporary Disturbance	Line Permanent Disturbance	Lines	Line Length in Terrain Type 1 - Flat	New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Total Temporary Disturbance	Total Permanent Disturbance
																	Wire		Fiber													
	acres	acres	acres		miles	miles	acres	Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	acres	acres	No.	miles	miles	acres	miles	acres	miles	acres	acres	acres
Northern	**7.5**	190	10	EGW 500 kV Loop in/out	4.0	2.0	60.6	2.0	3.0	3.0	2.3	3.4	3.4	0.1	0.1	0.1	7.2	20.6	0.6	0.7	60.9	0.6	2	4.0	5.2	10.1	3.7	7.2	1.5	2.9	**270**	**234**
				EGS 500 kV Loop in/out	4.0	2.0	60.6	2.0	3.0	3.0	2.3	3.4	3.4	0.1	0.1	0.1	7.2	20.6	0.6	0.7	60.9	0.6	2	4.0	5.2	10.1	3.7	7.2	1.5	2.9		
				230 kV Platte-Point of Rocks	4.0	4.0	48.5	18.0	3.0	3.0	16.5	2.8	2.8	0.0	0.0	0.0	8.3	19.2	1.2	1.3	42.5	0.0	1	4.0	5.2	10.1	3.7	7.2	1.5	2.9		
				230 kV	1.0	1.0	12.1	3.0	1.0	2.0	2.8	0.9	1.8	0.0	0.0	0.0	4.6	10.5	0.3	0.3	98.3	0.0	6	1.0	1.4	2.7	1.1	2.1	0.3	0.6		
AC/DC Converter & 500/345 kV Substation (near IPP)	**7.5**	70	10	345 kV	5.0	5.0	90.9	19.0	2.0	4.0	17.4	1.8	3.7	0.0	0.0	0.0	10.9	31.4	1.5	1.7	56.0	0.0	1	5.0	6.5	12.6	4.6	9.0	1.9	3.7	**64**	**93**
Modification to IPP Substation	----	20	5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	**25**
Series Compensation Station	**7.5**	10	5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	**8**	**15**

Table A-9 Summary of Northern Terminal & Series Compensation Station Temporary and Permanent Disturbance - System Alternative 3 - Phases 1 & 2

Locations	Terminal / Substation / Series Compensation Station Disturbance			Interconnection Line Voltage	Total Line Length	Interconnection Line Disturbance															Access Road Disturbance for Interconnection Line								Total Terminal Disturbance	
	Storage & Concrete Batch Plant	Converter Station & Switchyards	Location Access Road			Length of each line	Total ROW per line	Structures per line (number)			Structure Work Area per line (acres)			Structure Base per line (acres)			Pulling / Tensioning / Splicing Sites per line				Line Temporary Disturbance	Line Permanent Disturbance	Lines	Line Length in Terrain Type 1 - Flat	New Access Roads and Disturbance		New Access Roads and Disturbance Within ROW		New Access Roads and Disturbance Outside ROW		Total Temporary Disturbance	Total Permanent Disturbance
																	Wire		Fiber													
	acres	acres	acres		miles	miles	acres	Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	acres	acres	No.	miles	miles	acres	miles	acres	miles	acres	acres	acres
Northern	7.5	190	10	EGW 500 kV Loop in/out	4.0	2.0	60.6	2.0	3.0	3.0	2.3	3.4	3.4	0.1	0.1	0.1	7.2	20.6	0.6	0.7	60.9	0.6	2	4.0	5.2	10.1	3.7	7.2	1.5	2.9	**270**	**234**
				EGS 500 kV Loop in/out	4.0	2.0	60.6	2.0	3.0	3.0	2.3	3.4	3.4	0.1	0.1	0.1	7.2	20.6	0.6	0.7	60.9	0.6	2	4.0	5.2	10.1	3.7	7.2	1.5	2.9		
				230 kV Platte-Point of Rocks	4.0	4.0	48.5	18.0	3.0	3.0	16.5	2.8	2.8	0.0	0.0	0.0	8.3	19.2	1.2	1.3	42.5	0.0	1	4.0	5.2	10.1	3.7	7.2	1.5	2.9		
				230 kV	1.0	1.0	12.1	3.0	1.0	2.0	2.8	0.9	1.8	0.0	0.0	0.0	4.6	10.5	0.3	0.3	98.3	0.0	6	1.0	1.4	2.7	1.1	2.1	0.3	0.6		
500/345 kV Substation (near IPP)	7.5	55	7	345 kV	5.0	5.0	90.9	19.0	2.0	4.0	17.4	1.8	3.7	0.0	0.0	0.0	10.9	31.4	1.5	1.7	56.0	0.0	1	5.0	6.5	12.6	4.6	9.0	1.9	3.7	**64**	**75**
Modification to IPP Substation	----	20	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	**----**	**23**
Series Compensation Station	7.5	10	5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	**8**	**15**
Southern Site 2 (Conceptual - 2012)	7.5	140	15	500 kV	10.0	2.5	303.0	30.0	5.0	5.0	34.4	5.7	5.7	0.8	0.2	0.2	11.5	32.9	1.8	2.1	323.7	5.0	4	10.0	34.0	66.0	24.5	47.5	9.5	18.5	**331**	**226**
Southern Site 3 (Alt Conceptual 2012)	7.5	140	20	500 kV	18.0	4.5	545.5	62.0	5.0	5.0	71.2	5.7	5.7	1.7	0.2	0.2	12.6	36.3	2.6	3.0	487.8	8.6	4	18.0	47.0	91.0	33.5	65.0	13.5	26.2	**495**	**260**

		230 kV - Double Circuit				**345 kV**				500 kV			
Structures per mile -	Approximately	6				5				4			
Right-of-Way Width (ROW) -		100	feet			150	feet			250	feet		
Structure Work Area -		200	x	200	feet	200	x	200	feet	ROW	x	200	feet
Wire-Pulling, Tensioning, Splicing Site													
Dead-End Structure -				250	x	500	feet			2 @ every DE Structure			
Mid-Span Conductor and Shield Wire -				250	x	500	feet			Every	9,000	feet	
Fiber Optic Cable Set-Up Sites -				100	x	500	feet			Every	18,000	feet	
Structure Base													
Lattice Tower (Tangent) -										35	x	35	feet
Lattice Tower (Angle) -										40	x	40	feet
Lattice Tower (Dead End) -										45	x	45	feet
Single Pole Tubular (Tangent) -		40	sq feet	(~7 ft dia fdn)		50	sq feet	(~8 ft dia fdn)					
Single Pole Tubular (Angle) -		45	sq feet	(~7.5 ft dia fdn)		60	sq feet	(~8.5 ft dia fdn)					
Single Pole Tubular (Dead-End) -		50	sq feet	(~8 ft dia fdn)		65	sq feet	(~9 ft dia fdn)					

Table A-4 Summary of Temporary and Permanent Disturbance by Ground Electrode Siting Options

Ground Electrode Location	Ground Electrode Disturbance			Low Voltage (34.5 kV) Line Construction											Access Road Construction						Total Temporary Disturbance (acres)	Total Permanent Disturbance (acres)
						Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites		Line Length (miles)			Terrain Category	Access Road			
	Temp (acres)	Perm (acres)	Well Access (acres)	Total Low Voltage Line Length (miles)	Total ROW (acres)	Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	From	To	Length		Length (miles)	Area (acres)		
NORTHERN GROUND ELECTRODE																								
Bolten Ranch	65	0.5	5.0	15.0	91	249	6	15	28.6	0.7	1.7	0.1	0.0	0.1	39	8.7	0.0	2.5	2.5	Rolling	3.3	7.1	105	52
																	2.5	3.0	0.5	Steep	0.9	2.4		
																	3.0	6.5	3.5	Rolling	4.6	9.9		
																	6.5	7.5	1.0	Steep	1.8	4.8		
																	7.5	13.5	6.0	Rolling	7.8	17.0		
																	13.5	14.0	0.5	Steep	0.9	2.4		
																	14.0	15.0	1.0	Rolling	1.3	2.8		
Eight Mile Basin	65	0.5	5.0	5.0	30	86	1	3	9.9	0.1	0.3	0.0	0.0	0.0	9	1.5	0.0	1.0	1.0	Flat	1.2	2.3	77	18
																	1.0	2.5	1.5	Rolling	2.0	4.3		
																	2.5	5.0	2.5	Flat	3.0	5.8		
Separation Flat	65	0.5	5.0	12.0	73	213	0	3	24.4	0.0	0.3	0.1	0.0	0.0	13	2.2	0.0	4.0	4.0	Rolling	5.2	11.3	92	36
																	4.0	12.0	8.0	Flat	9.6	18.6		
Separation Creek	65	0.5	5.0	2.0	12	32	1	3	3.7	0.1	0.3	0.0	0.0	0.0	7	1.2	0.0	2.0	2.0	Rolling	2.6	5.7	70	11
SOUTHERN GROUND ELECTRODE																								
Mormon Mesa-Carp Elgin Rd (Applicant Proposed Route)	65	0.5	5.0	5.5	33	97	0	2	11.1	0.0	0.2	0.0	0.0	0.0	7	1.1	0.0	5.5	5.5	Flat	6.6	12.8	77	18
Mormon Mesa-Carp Elgin Rd (Agency Preferred Route)	65	0.5	5.0	8.0	49	142	0	3	16.3	0.0	0.3	0.1	0.0	0.0	11	1.8	0.0	8.0	8.0	Flat	9.6	18.7	83	24
Halfway Wash - Virgin River (Applicant Proposed Route)	65	0.5	5.0	4.0	24	70	0	2	8.0	0.0	0.2	0.0	0.0	0.0	6	0.9	0.0	4.0	4.0	Flat	4.8	9.3	74	15
Halfway Wash - Virgin River (Agency Preferred Route)	65	0.5	5.0	5.8	35	103	0	2	11.8	0.0	0.2	0.0	0.0	0.0	7	1.1	0.0	5.8	5.8	Flat	7.0	13.5	78	19
Halfway Wash East (Applicant Proposed Route)	65	0.5	5.0	7.8	47	136	2	3	15.6	0.2	0.3	0.0	0.0	0.0	11	1.8	0.0	7.8	7.8	Flat	9.4	18.2	83	24
Halfway Wash East (Agency Preferred Route)	65	0.5	5.0	10.0	61	174	2	4	20.0	0.2	0.5	0.1	0.0	0.0	14	2.6	0.0	10.0	10.0	Flat	12.0	23.3	88	29
Meadow Valley 2	65	0.5	5.0	21.5	130	375	6	6	43.0	0.7	0.7	0.1	0.0	0.0	25	4.8	0.0	3.5	3.5	Flat	4.2	8.1	114	61
																	3.5	13.0	9.5	Rolling	12.4	26.9		
																	13.0	20.0	7.0	Flat	8.4	16.3		
																	20.0	21.5	1.5	Rolling	2.0	4.3		
SYSTEM ALTERNATIVE 2																								
Near IPP	65	0.5	5.0	13.5	82	237	2	4	27.2	0.2	0.5	0.1	0.0	0.0	16	2.9	0.0	13.5	13.5	Flat	16.2	31.4	96	37

Notes:
Temporary disturbance for ground electrodes includes trenching, well heads, equipment storage, batch plant, and material storage yard.
All structures are assumed to be wood poles
Splicing areas have been assumed to be included in the Pulling/Tensioning sites per common construction practices.
Ground Electrode temporary disturbance includes material storage yard for the LV line
Temporary disturbance areas for Structure Work Areas and Pulling/Tensioning/Splicing Sites are outside 50 feet wide ROW

Structures per mile -	Approximately		18				
Right-of-Way Width (ROW) -			50	feet			
Structure Work Area -	ROW	x	100	feet			
Wire-Pulling, Tensioning, Splicing Site							
Dead-End Structure -	75	x	150	feet	2 @ every DE (except terminal strs)		
Mid-Span Conductor -	75	x	100	feet	Every 9,000 feet		
Structure Base							
Tangent -	4	x	4	feet			
Angle -	5	x	5	feet	per pole -	2	per str location
	5	x	5	feet	per anchor -	1	per str location
Dead End -	6	x	6	feet	per pole -	2	per str location
	5	x	5	feet	per anchor -	4	per str location

Access Road					
Terrain Type	Access Road Ratio			Width	
Flat -	1.2	x	length of the line	16	feet
Rolling -	1.3	x	length of the line	18	feet
Steep -	1.8	x	length of the line	22	feet
Mountainous -	2.7	x	length of the line	24	feet

Table A-5 Summary of TWE Temporary and Permanent Disturbance by Applicant Proposed Route Segment and DEIS Identified Regions

Proposed Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Transmission Line Access Roads		**Transmission Line** Temporary Disturbance (acres)	**Transmission Line** Permanent Disturbance (acres)	Terminal Temporary Disturbance (acres)	Terminal Permanent Disturbance (acres)	Ground Electrode Temporary Disturbance (acres)	Ground Electrode Permanent Disturbance (acres)
												Wire		Fiber																
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	Miles	Acres						
DEIS Region 1																														
W10	32.2	977.0	121	1	7	138.9	1.1	8.0	2.5	0.0	0.3	32.9	94.5	9.5	10.9	1.1	21.5	2.1	10.7	6.4	45.1	0.6	0.1	35.0	75.4	330.8	78.4	270	249	105	52
W20_S1	1.6	49.7	6	1	0	6.9	1.1	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	2.0	3.8	15.3	4.0				
W20_S3	1.6	47.3	7	0	0	8.0	0.0	0.0	0.1	0.0	0.0	0.9	2.6	0.5	0.5	0.1	1.0	0.1	0.5	0.3	2.2	0.0	0.0	1.9	3.6	14.9	3.8				
W20_S4	7.5	228.5	29	0	2	33.3	0.0	2.3	0.6	0.0	0.1	8.4	24.2	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	9.0	17.5	80.4	18.3				
W819_S1	5.4	163.6	19	1	2	21.8	1.1	2.3	0.4	0.0	0.1	7.2	20.6	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	6.5	12.6	60.6	13.1				
A-W20_S1	7.7	232.4	28	0	3	32.1	0.0	3.4	0.6	0.0	0.1	10.5	30.1	2.2	2.6	0.3	5.1	0.5	2.6	1.5	10.7	0.2	0.0	9.2	17.9	86.7	18.6				
W819_S5	1.3	38.8	5	1	0	5.7	1.1	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	1.5	3.0	12.5	3.1				
W819_S6	3.7	112.7	14	0	1	16.1	0.0	1.1	0.3	0.0	0.0	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	4.5	8.7	39.4	9.0				
W819_S7	0.6	18.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	0.7	1.4	11.8	1.5				
W819_S8	20.4	618.2	79	2	1	90.7	2.3	1.1	1.6	0.1	0.0	14.0	40.1	6.0	6.9	0.7	13.6	1.4	6.8	4.1	28.6	0.4	0.1	26.5	57.9	190.0	59.7				
W819_S10	1.0	29.1	3	0	1	3.4	0.0	1.1	0.1	0.0	0.0	2.6	7.4	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	1.2	2.7	14.6	2.8				
A-W26_S1	2.1	63.0	8	0	1	9.2	0.0	1.1	0.2	0.0	0.0	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	2.5	4.8	25.3	5.1				
A-W26_S2	4.4	134.2	16	0	2	18.4	0.0	2.3	0.3	0.0	0.1	6.6	18.9	1.3	1.5	0.1	3.0	0.3	1.5	0.9	6.2	0.1	0.0	5.8	12.6	51.7	13.0				
A-W26_S3	1.7	50.6	7	0	0	8.0	0.0	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	2.2	4.7	15.4	4.9				
A-C26_S1	6.2	188.5	25	0	0	28.7	0.0	0.0	0.5	0.0	0.0	3.6	10.5	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.7	0.1	0.0	7.8	16.1	56.2	16.7				
A-C52_S1	1.4	41.8	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	2.3	5.8	18.7	6.0				
A-C52_S2	3.5	104.5	14	0	0	16.1	0.0	0.0	0.3	0.0	0.0	2.0	5.8	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.8	0.1	0.0	4.4	9.6	31.3	9.9				
A-C52_S3	1.4	42.7	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.4	0.4	0.5	0.0	0.9	0.1	0.5	0.3	2.0	0.0	0.0	3.4	9.8	13.1	10.0				
A-C52_S4	7.6	228.8	29	1	1	33.3	1.1	1.1	0.6	0.0	0.0	6.4	18.4	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	13.6	36.2	74.7	36.9				
C186.03	0.4	10.9	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	0.5	1.0	3.9	1.1				
C186.04	3.7	112.7	14	0	1	16.1	0.0	1.1	0.3	0.0	0.0	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	4.5	8.7	39.4	9.0				
A-C53_S1	10.4	315.5	39	0	3	44.8	0.0	3.4	0.8	0.0	0.1	12.1	34.7	3.1	3.5	0.3	6.9	0.7	3.5	2.1	14.6	0.2	0.0	17.3	44.0	111.4	45.0				
A-C54_S1	4.1	124.2	15	0	2	17.2	0.0	2.3	0.3	0.0	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	5.6	12.5	49.1	12.9				
A-C54_S2	2.0	59.7	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.2	9.1	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	2.5	5.1	23.6	5.3				
A-C54_S3	1.3	40.0	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	1.7	3.7	12.7	3.9				
A-C54_S4	1.8	54.8	8	0	0	9.2	0.0	0.0	0.2	0.0	0.0	1.1	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	2.4	5.1	17.2	5.3				
A-C54_S5	0.8	24.2	3	0	1	3.4	0.0	1.1	0.1	0.0	0.0	2.5	7.1	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	1.0	2.3	13.9	2.4				
TE-A2	0.5	16.1	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.7	0.0	0.0	0.8	2.3	5.8	2.3				
C111_S1	1.1	33.3	4	0	1	4.6	0.0	1.1	0.1	0.0	0.0	2.6	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.5	0.0	0.0	1.2	2.6	16.3	2.8				
C111_S2	0.9	28.2	3	1	0	3.4	1.1	0.0	0.1	0.0	0.0	0.5	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	1.0	2.2	8.7	2.3				
C115_S1	2.6	78.8	9	1	1	10.3	1.1	1.1	0.2	0.0	0.0	3.5	10.1	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	4.2	11.1	29.9	11.4				
C115_S2	0.5	15.5	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.7	0.0	0.0	0.8	2.2	5.7	2.2				
C115_S3	14.6	443.6	56	1	2	64.3	1.1	2.3	1.2	0.0	0.1	12.6	36.1	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.5	0.3	0.1	17.0	39.5	143.9	40.8				
Region 1 Subtotal:	**156**	**4,727**	**595**	**10**	**35**	**683**	**11**	**40**	**12**	**0**	**1**	**162**	**463**	**46**	**53**	**5**	**104**	**10**	**52**	**31**	**218**	**3**	**1**	**201**	**447**	**1,625**	**461**	**270**	**249**	**105**	**52**
DEIS Region 2																														
C120_S1	1.4	42.1	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	1.5	3.3	18.8	3.5				
C120_S2	23.3	707.3	86	4	4	98.7	4.6	4.6	1.8	0.1	0.1	21.7	62.2	6.8	7.9	0.8	15.6	1.6	7.8	4.7	32.7	0.5	0.1	25.7	56.0	234.0	58.2				
U40	8.2	247.6	32	0	1	36.7	0.0	1.1	0.7	0.0	0.0	6.8	19.5	2.4	2.8	0.3	5.4	0.5	2.7	1.6	11.4	0.2	0.0	10.6	23.2	79.7	23.9				
U41	10.8	325.8	42	0	1	48.2	0.0	1.1	0.9	0.0	0.0	8.3	23.8	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	29.0	84.4	102.6	85.4				
U45	3.0	90.9	11	0	1	12.6	0.0	1.1	0.2	0.0	0.0	3.8	10.8	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.2	0.1	0.0	3.3	7.2	32.8	7.5				
U50	12.7	384.8	47	0	4	53.9	0.0	4.6	1.0	0.0	0.1	15.5	44.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	11.3	23.3	137.6	24.4				
U55_S1	1.8	54.5	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.1	8.8	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	2.0	4.3	22.9	4.5				
U55_S3	10.2	309.4	39	1	1	44.8	1.1	1.1	0.8	0.0	0.0	8.0	22.9	3.0	3.4	0.3	6.8	0.7	3.4	2.0	14.3	0.2	0.0	12.3	23.8	97.9	24.7				
U55_S4	12.7	384.8	42	1	8	48.2	1.1	9.2	0.9	0.0	0.3	23.5	67.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	14.5	29.0	160.6	30.2				
U55_S5	24.3	737.6	82	6	10	94.1	6.9	11.5	1.7	0.2	0.4	34.3	98.4	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.1	0.5	0.1	24.7	52.5	277.5	54.8				
U55_S7	1.3	39.4	4	2	0	4.6	2.3	0.0	0.1	0.1	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	1.4	3.1	12.6	3.3				
U55_S8	1.7	50.0	6	1	0	6.9	1.1	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	2.6	7.0	15.3	7.2				
U55_S9	4.3	129.4	17	0	1	19.5	0.0	1.1	0.4	0.0	0.0	4.5	12.9	1.3	1.4	0.1	2.8	0.3	1.4	0.9	6.0	0.1	0.0	4.7	10.2	45.3	10.7				
U55_S10	7.0	212.1	27	1	0	31.0	1.1	0.0	0.6	0.0	0.0	4.1	11.8	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	7.6	14.7	63.1	15.4				
U55_S11	21.7	656.1	76	5	6	87.2	5.7	6.9	1.6	0.1	0.2	24.7	70.9	6.4	7.3	0.7	14.4	1.4	7.2	4.3	30.3	0.4	0.1	44.2	122.6	230.0	124.6				
U55_S12	4.7	140.9	18	0	1	20.7	0.0	1.1	0.4	0.0	0.0	4.7	13.6	1.4	1.6	0.2	3.1	0.3	1.6	0.9	6.5	0.1	0.0	11.2	32.5	48.1	32.9				
U55_S17	7.4	222.7	26	3	1	29.8	3.4	1.1	0.5	0.1	0.0	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	17.6	51.3	72.7	52.0				
U55_S18	1.3	39.7	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	3.1	9.1	12.7	9.3				
U55_S19	0.4	13.0	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	1.0	3.0	9.9	3.1				
U70_S1	7.3	221.2	23	2	5	26.4	2.3	5.7	0.5	0.1	0.2	14.3	41.0	2.1	2.5	0.2	4.9	0.5	2.4	1.5	10.2	0.1	0.0	17.5	51.0	95.4	51.7				
U70_S2	5.5	167.3	21	1	1	24.1	1.1	1.1	0.4	0.0	0.0	5.2	15.0	1.6	1.9	0.2	3.7	0.4	1.8	1.1	7.7	0.1	0.0	13.2	38.5	56.5	39.1				
U70_S4	15.2	459.7	53	5	3	60.8	5.7	3.4	1.1	0.1	0.1	14.9	42.8	4.4	5.1	0.5	10.1	1.0	5.1	3.0	21.2	0.3	0.1	36.4	105.9	154.3	107.3				
U70_S5	6.3	192.1	22	1	3	25.3	1.1	3.4	0.5	0.0	0.1	9.7	27.9	1.9	2.1	0.2	4.2	0.4	2.1	1.3	8.9	0.1	0.0	15.5	45.1	75.1	45.8				
U70_S6	0.3	8.2	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	0.7	2.1	3.5	2.2				
Nephi-SA	0.7	20.3	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	1.6	4.7	12.1	4.8				
Nephi-NA	2.1	63.6	7	1	1	8.0	1.1	1.1	0.1	0.0	0.0	3.2	9.3	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	5.0	14.7	25.4	14.9				

Table A-5 Summary of TWE Temporary and Permanent Disturbance by Applicant Proposed Route Segment and DEIS Identified Regions

Proposed Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Transmission Line Access Roads		**Transmission Line** Temporary Disturbance (acres)	**Transmission Line** Permanent Disturbance (acres)	Terminal Temporary Disturbance (acres)	Terminal Permanent Disturbance (acres)	Ground Electrode Temporary Disturbance (acres)	Ground Electrode Permanent Disturbance (acres)
												Wire		Fiber																
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	Miles	Acres						
Nephi-NB_S1	17.2	522.1	60	1	8	68.9	1.1	9.2	1.2	0.0	0.3	26.1	74.9	5.1	5.8	0.6	11.5	1.1	5.7	3.4	24.1	0.3	0.1	17.1	36.6	201.3	38.3				
Nephi-NB_S2	0.7	21.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	0.8	1.7	12.3	1.8				
U130_S1	17.0	516.1	67	0	2	76.9	0.0	2.3	1.4	0.0	0.1	14.0	40.1	5.0	5.7	0.6	11.4	1.1	5.7	3.4	23.8	0.3	0.1	25.5	61.1	166.0	62.6				
A-U131_S1	3.5	106.7	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.4	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.9	0.1	0.0	4.2	8.2	44.3	8.6				
A-U131_S2	0.3	7.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	0.3	0.6	9.2	0.7				
A-U131_S3	1.2	36.7	5	0	0	5.7	0.0	0.0	0.1	0.0	0.0	0.7	2.0	0.4	0.4	0.0	0.8	0.1	0.4	0.2	1.7	0.0	0.0	1.5	2.8	11.1	2.9				
A-U131_S4	0.7	20.6	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.4	1.1	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	0.8	1.6	6.4	1.6				
A-U131_S5	3.7	112.1	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.2	17.7	1.1	1.2	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	4.4	8.6	45.1	9.0				
U150_S1	8.6	261.5	34	0	1	39.0	0.0	1.1	0.7	0.0	0.0	7.1	20.3	2.5	2.9	0.3	5.8	0.6	2.9	1.7	12.1	0.2	0.0	0.2	0.5	84.1	1.2				
U150_S2	9.8	297.6	39	0	1	44.8	0.0	1.1	0.8	0.0	0.0	7.8	22.3	2.9	3.3	0.3	6.5	0.7	3.3	2.0	13.7	0.2	0.0	11.8	22.9	95.1	23.7				
Region 2 Subtotal:	**258**	**7,823**	**941**	**35**	**74**	**1,080**	**40**	**85**	**19**	**1**	**3**	**299**	**859**	**76**	**87**	**9**	**172**	**17**	**86**	**52**	**361**	**5**	**1**	**385**	**967**	**2,771**	**992**	**0**	**0**	**0**	**0**
DEIS Region 3																															
U155	7.0	212.4	25	1	3	28.7	1.1	3.4	0.5	0.0	0.1	10.1	29.0	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	5.6	10.9	81.5	11.6				
U168	20.3	614.5	80	0	2	91.8	0.0	2.3	1.7	0.0	0.1	15.9	45.6	5.9	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	24.3	47.2	195.2	49.0				
U180	4.3	129.70	18	0	0	20.66	0.00	0.00	0.37	0.00	0.00	2.51	7.21	1.26	1.44	0.14	2.85	0.29	1.43	0.86	5.99	0.09	0.02	5.14	9.96	39.6	10.4				
U215	14.1	428.48	53	2	2	60.84	2.30	2.30	1.10	0.06	0.07	12.30	35.28	4.15	4.76	0.47	9.43	0.94	4.71	2.83	19.80	0.28	0.06	17.98	38.07	139.4	39.4				
U220	44.1	1337.58	167	2	8	191.69	2.30	9.18	3.45	0.06	0.29	41.90	120.22	12.95	14.86	1.47	29.43	2.94	14.71	8.83	61.80	0.88	0.20	40.51	84.19	444.2	88.2				
U250	20.3	616.06	79	1	2	90.68	1.15	2.30	1.63	0.03	0.07	15.93	45.70	5.96	6.85	0.68	13.55	1.36	6.78	4.07	28.46	0.41	0.09	20.26	39.30	195.5	41.1				
U255_S1	19.3	585.45	75	0	3	86.09	0.00	3.44	1.55	0.00	0.11	17.33	49.74	5.67	6.51	0.64	12.88	1.29	6.44	3.86	27.05	0.39	0.09	15.46	29.98	192.1	31.7				
U255_S2	18.4	558.18	67	4	3	76.91	4.59	3.44	1.38	0.11	0.11	16.81	48.23	5.40	6.20	0.61	12.28	1.23	6.14	3.68	25.79	0.37	0.08	14.90	28.90	183.6	30.6				
U255_S3	0.2	6.06	1	0	0	1.15	0.00	0.00	0.02	0.00	0.00	0.12	0.34	0.06	0.07	0.01	0.13	0.01	0.07	0.04	0.28	0.00	0.00	0.24	0.47	2.0	0.5				
U255_S4	1.7	52.12	6	0	1	6.89	0.00	1.15	0.12	0.00	0.04	3.01	8.63	0.50	0.58	0.06	1.15	0.11	0.57	0.34	2.41	0.03	0.01	2.24	4.88	21.4	5.0				
U255_S5	3.4	103.33	10	1	3	11.48	1.15	3.44	0.21	0.03	0.11	8.00	22.96	1.00	1.15	0.11	2.27	0.23	1.14	0.68	4.77	0.07	0.02	8.63	24.73	48.4	25.1				
U255_S5.1	4.1	124.85	15	1	1	17.22	1.15	1.15	0.31	0.03	0.04	4.42	12.68	1.21	1.39	0.14	2.75	0.27	1.37	0.82	5.77	0.08	0.02	4.59	10.11	43.5	10.5				
U255_S6	5.8	174.55	18	2	4	20.66	2.30	4.59	0.37	0.06	0.15	11.38	32.65	1.69	1.94	0.19	3.84	0.38	1.92	1.15	8.06	0.12	0.03	9.22	24.58	76.0	25.2				
U255_S7	2.7	80.91	10	1	0	11.48	1.15	0.00	0.21	0.03	0.00	1.57	4.49	0.78	0.90	0.09	1.78	0.18	0.89	0.53	3.74	0.05	0.01	7.21	20.97	24.4	21.2				
U255_S8	2.9	86.67	10	1	1	11.48	1.15	1.15	0.21	0.03	0.04	3.68	10.55	0.84	0.96	0.10	1.91	0.19	0.95	0.57	4.00	0.06	0.01	5.15	13.73	32.2	14.0				
A-U255_S9	0.3	7.88	0	0	2	0.00	0.00	2.30	0.00	0.00	0.07	4.15	11.92	0.08	0.09	0.01	0.17	0.02	0.09	0.05	0.36	0.01	0.00	0.47	1.25	14.9	1.3				
A-U255_S10	0.7	22.42	0	2	1	0.00	2.30	1.15	0.00	0.06	0.04	2.43	6.99	0.22	0.25	0.02	0.49	0.05	0.25	0.15	1.04	0.01	0.00	1.33	3.55	12.5	3.6				
A-U255_S10.1	0.3	7.58	0	0	1	0.00	0.00	1.15	0.00	0.00	0.04	2.15	6.16	0.07	0.08	0.01	0.17	0.02	0.08	0.05	0.35	0.01	0.00	0.68	1.96	8.0	2.0				
U255_S9	1.6	48.48	5	1	1	5.74	1.15	1.15	0.10	0.03	0.04	2.94	8.43	0.47	0.54	0.05	1.07	0.11	0.53	0.32	2.24	0.03	0.01	2.56	6.83	20.8	7.0				
U255_S10	0.7	21.52	2	0	1	2.30	0.00	1.15	0.04	0.00	0.04	2.42	6.93	0.21	0.24	0.02	0.47	0.05	0.24	0.14	0.99	0.01	0.00	1.14	3.03	12.3	3.1				
U255_S11	0.3	9.70	2	0	0	2.30	0.00	0.00	0.04	0.00	0.00	0.19	0.54	0.09	0.11	0.01	0.21	0.02	0.11	0.06	0.45	0.01	0.00	0.51	1.37	3.7	1.4				
U255_S12	0.9	25.76	4	0	0	4.59	0.00	0.00	0.08	0.00	0.00	0.50	1.43	0.25	0.29	0.03	0.57	0.06	0.28	0.17	1.19	0.02	0.00	2.04	5.93	8.3	6.0				
U255_S13	30.1	913.03	111	5	5	127.41	5.74	5.74	2.29	0.14	0.18	27.68	79.42	8.84	10.14	1.00	20.09	2.01	10.04	6.03	42.18	0.60	0.14	48.10	128.20	300.8	131.0				
N45	11.9	361.52	46	1	1	52.80	1.15	1.15	0.95	0.03	0.04	9.00	25.82	3.50	4.02	0.40	7.95	0.80	3.98	2.39	16.70	0.24	0.05	9.54	18.51	113.6	19.6				
N50_S1	7.0	212.12	27	0	1	30.99	0.00	1.15	0.56	0.00	0.04	6.11	17.52	2.05	2.36	0.23	4.67	0.47	2.33	1.40	9.80	0.14	0.03	7.90	17.82	68.8	18.4				
N50_S2	25.0	756.97	94	3	3	107.90	3.44	3.44	1.94	0.08	0.11	20.65	59.27	7.33	8.41	0.83	16.65	1.67	8.33	5.00	34.97	0.50	0.11	42.32	109.02	242.4	111.3			77	18
N50_S3	12.0	363.03	46	1	1	52.80	1.15	1.15	0.95	0.03	0.04	9.03	25.91	3.51	4.03	0.40	7.99	0.80	3.99	2.40	16.77	0.24	0.06	15.20	31.29	113.8	32.4				
N70	11.5	347.88	44	0	2	50.51	0.00	2.30	0.91	0.00	0.07	10.73	30.81	3.37	3.87	0.38	7.65	0.77	3.83	2.30	16.07	0.23	0.05	14.08	28.24	115.0	29.3				
N95_S1	0.7	20.30	1	1	1	1.15	1.15	1.15	0.02	0.03	0.04	2.39	6.87	0.20	0.23	0.02	0.45	0.04	0.22	0.13	0.94	0.01	0.00	0.74	1.61	12.1	1.7				
N95_S2	4.8	146.1	16	2	2	18.4	2.3	2.3	0.3	0.1	0.1	6.8	19.6	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	7.2	18.7	55.7	19.2				
Region 3 Subtotal:	**276**	**8,375**	**1,032**	**32**	**55**	**1,185**	**37**	**63**	**21**	**1**	**2**	**272**	**781**	**81**	**93**	**9**	**184**	**18**	**92**	**55**	**387**	**6**	**1**	**335**	**765**	**2,822**	**791**	**0**	**0**	**77**	**18**
DEIS Region 4																															
N100	6.2	187.0	24	1	0	27.5	1.1	0.0	0.5	0.0	0.0	3.6	10.4	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.6	0.1	0.0	6.8	14.8	56.0	15.4				
N120	4.1	124.2	17	0	0	19.5	0.0	0.0	0.4	0.0	0.0	2.4	6.9	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	4.5	9.8	37.6	10.2				
N121_S1	1.4	40.9	4	0	2	4.6	0.0	2.3	0.1	0.0	0.1	4.8	13.8	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	2.2	5.8	24.3	5.9				
N121_S2	1.8	53.9	6	0	2	6.9	0.0	2.3	0.1	0.0	0.1	5.0	14.5	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	2.8	7.6	28.5	7.8				
N121_S3	4.1	123.0	13	3	1	14.9	3.4	1.1	0.3	0.1	0.0	4.4	12.6	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	6.5	17.3	43.2	17.7				
N121_S4	1.3	38.48	5	0	1	5.74	0.00	1.15	0.10	0.00	0.04	2.75	7.88	0.37	0.43	0.04	0.85	0.08	0.42	0.25	1.78	0.03	0.01	1.40	3.05	18.2	3.2				
N135_S1	0.4	13.33	1	0	1	1.15	0.00	1.15	0.02	0.00	0.04	2.26	6.48	0.13	0.15	0.01	0.29	0.03	0.15	0.09	0.62	0.01	0.00	0.70	1.88	10.0	1.9				
N135_S2	2.0	60.61	7	1	0	8.03	1.15	0.00	0.14	0.03	0.00	1.17	3.37	0.59	0.67	0.07	1.33	0.13	0.67	0.40	2.80	0.04	0.01	3.20	8.53	18.0	8.7				
N145	2.8	86.06	10	1	1	11.48	1.15	1.15	0.21	0.03	0.04	3.67	10.52	0.83	0.96	0.09	1.89	0.19	0.95	0.57	3.98	0.06	0.01	6.82	19.83	32.1	20.1				
N165	12.68	384.24	43	2	6	49.36	2.30	6.89	0.89	0.06	0.22	19.44	55.78	3.72	4.27	0.42	8.45	0.85	4.23	2.54	17.75	0.25	0.06	13.95	30.43	149.0	31.7				
N175_S3	0.46	13.94	1	0	1	1.15	0.00	1.15	0.02	0.00	0.04	2.27	6.51	0.13	0.15	0.02	0.31	0.03	0.15	0.09	0.64	0.01	0.00	0.37	0.71	10.1	0.8	331	226		
Region 4 Subtotal:	**37**	**1126**	**131**	**8**	**15**	**150**	**9**	**17**	**3**	**0**	**1**	**52**	**149**	**11**	**13**	**1**	**25**	**2**	**12**	**7**	**52**	**1**	**0**	**49**	**120**	**427**	**123**	**331**	**226**	**0**	**0**
TOTAL - PROPOSED TWE PROJECT	**728**	**22,051**	**2,699**	**85**	**179**	**3,098**	**98**	**205**	**56**	**2**	**7**	**785**	**2,252**	**213**	**245**	**24**	**485**	**49**	**243**	**146**	**1,019**	**15**	**3**	**970**	**2,299**	**7,645**	**2,367**	**601**	**475**	**182**	**70**

Depending on the spacing of the facilities (i.e., storage yards) along the length of the proposed and alternative route segments, the same facility may serve more than one route segment. Therefore, the number of facilities associated with each route segment are fractions. This avoids overestimating the total disturbance area for these facilities when individual route segments are combined to form an end-to-end route

Table A-6 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 2

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
SEGMENTS COMMON TO APPLICANT PROPOSED AND AGENCY PREFERRED ROUTES																										
W10	32.24	977.0	121	1	7	138.9	1.1	8.0	2.5	0.0	0.3	32.9	94.5	9.5	10.9	1.1	21.5	2.1	10.7	6.4	45.1	0.6	0.1	330.8	2.9	75.4
W20_S1	1.64	49.7	6	1	0	6.9	1.1	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	15.3	0.2	3.8
W20_S3	1.56	47.3	7	0	0	8.0	0.0	0.0	0.1	0.0	0.0	0.9	2.6	0.5	0.5	0.1	1.0	0.1	0.5	0.3	2.2	0.0	0.0	14.9	0.2	3.6
W20_S4	7.54	228.5	29	0	2	33.3	0.0	2.3	0.6	0.0	0.1	8.4	24.2	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	80.4	0.7	17.5
W819_S1	5.40	163.6	19	1	2	21.8	1.1	2.3	0.4	0.0	0.1	7.2	20.6	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	60.6	0.5	12.6
A-W20_S1	7.67	232.4	28	0	3	32.1	0.0	3.4	0.6	0.0	0.1	10.5	30.1	2.2	2.6	0.3	5.1	0.5	2.6	1.5	10.7	0.2	0.0	86.7	0.7	17.9
W819_S5	1.28	38.8	5	1	0	5.7	1.1	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.5	0.1	3.0
W819_S6	3.72	112.7	14	0	1	16.1	0.0	1.1	0.3	0.0	0.0	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	39.4	0.3	8.7
W819_S7	0.60	18.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.8	0.1	1.4
W819_S8	20.40	618.2	79	2	1	90.7	2.3	1.1	1.6	0.1	0.0	14.0	40.1	6.0	6.9	0.7	13.6	1.4	6.8	4.1	28.6	0.4	0.1	190.0	1.8	57.9
A-W26_S3	1.67	50.6	7	0	0	8.0	0.0	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	15.4	0.2	4.7
A-C26_S1	6.22	188.5	25	0	0	28.7	0.0	0.0	0.5	0.0	0.0	3.6	10.5	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.7	0.1	0.0	56.2	0.5	16.1
A-C52_S1	1.38	41.8	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	18.7	0.1	5.8
A-C52_S2	3.45	104.5	14	0	0	16.1	0.0	0.0	0.3	0.0	0.0	2.0	5.8	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.8	0.1	0.0	31.3	0.3	9.6
A-C52_S3	1.41	42.7	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.4	0.4	0.5	0.0	0.9	0.1	0.5	0.3	2.0	0.0	0.0	13.1	0.1	9.8
A-C52_S4	7.55	228.8	29	1	1	33.3	1.1	1.1	0.6	0.0	0.0	6.4	18.4	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	74.7	0.7	36.2
C186.03	0.36	10.91	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	3.9	0.0	1.0
C186.04	3.72	112.73	14	0	1	16.1	0.0	1.1	0.3	0.0	0.0	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	39.4	0.3	8.7
A-C53_S1	10.41	315.5	39	0	3	44.8	0.0	3.4	0.8	0.0	0.1	12.1	34.7	3.1	3.5	0.3	6.9	0.7	3.5	2.1	14.6	0.2	0.0	111.4	1.0	44.0
A-C54_S1	4.10	124.2	15	0	2	17.2	0.0	2.3	0.3	0.0	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	49.1	0.4	12.5
A-C54_S2	1.97	59.7	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.2	9.1	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	23.6	0.2	5.1
A-C54_S3	1.32	40.0	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.7	0.1	3.7
A-C54_S4	1.81	54.8	8	0	0	9.2	0.0	0.0	0.2	0.0	0.0	1.1	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	17.2	0.2	5.1
A-C54_S5	0.80	24.2	3	0	1	3.4	0.0	1.1	0.1	0.0	0.0	2.5	7.1	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	13.9	0.1	2.3
TE-A2	0.53	16.1	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.7	0.0	0.0	5.8	0.1	2.3
C111_S1	1.10	33.3	4	0	1	4.6	0.0	1.1	0.1	0.0	0.0	2.6	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.5	0.0	0.0	16.3	0.1	2.6
C111_S2	0.93	28.2	3	1	0	3.4	1.1	0.0	0.1	0.0	0.0	0.5	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	2.2
C115_S1	2.60	78.8	9	1	1	10.3	1.1	1.1	0.2	0.0	0.0	3.5	10.1	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	29.9	0.3	11.1
C115_S2	0.51	15.5	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.7	0.0	0.0	5.7	0.1	2.2
C115_S3	14.64	443.6	56	1	2	64.3	1.1	2.3	1.2	0.0	0.1	12.6	36.1	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.5	0.3	0.1	143.9	1.3	39.5
C120_S1	1.39	42.1	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	18.8	0.1	3.3
C120_S2	23.34	707.3	86	4	4	98.7	4.6	4.6	1.8	0.1	0.1	21.7	62.2	6.8	7.9	0.8	15.6	1.6	7.8	4.7	32.7	0.5	0.1	234.0	2.1	56.0
U70_S1	7.30	221.2	23	2	5	26.4	2.3	5.7	0.5	0.1	0.2	14.3	41.0	2.1	2.5	0.2	4.9	0.5	2.4	1.5	10.2	0.1	0.0	95.4	0.7	51.0
U70_S2	5.52	167.3	21	1	1	24.1	1.1	1.1	0.4	0.0	0.0	5.2	15.0	1.6	1.9	0.2	3.7	0.4	1.8	1.1	7.7	0.1	0.0	56.5	0.5	38.5
U70_S4	15.17	459.7	53	5	3	60.8	5.7	3.4	1.1	0.1	0.1	14.9	42.8	4.4	5.1	0.5	10.1	1.0	5.1	3.0	21.2	0.3	0.1	154.3	1.4	105.9
U70_S5	6.34	192.1	22	1	3	25.3	1.1	3.4	0.5	0.0	0.1	9.7	27.9	1.9	2.1	0.2	4.2	0.4	2.1	1.3	8.9	0.1	0.0	75.1	0.6	45.1
U70_S6	0.27	8.2	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.0	2.1
Nephi-NB_S2	0.70	21.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	1.7
U130_S1	17.03	516.1	67	0	2	76.9	0.0	2.3	1.4	0.0	0.1	14.0	40.1	5.0	5.7	0.6	11.4	1.1	5.7	3.4	23.8	0.3	0.1	166.0	1.5	61.1
A-U131_S1	3.52	106.7	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.4	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.9	0.1	0.0	44.3	0.4	8.2
A-U131_S2	0.26	7.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	9.2	0.1	0.6
A-U131_S3	1.21	36.7	5	0	0	5.7	0.0	0.0	0.1	0.0	0.0	0.7	2.0	0.4	0.4	0.0	0.8	0.1	0.4	0.2	1.7	0.0	0.0	11.1	0.1	2.8
A-U131_S4	0.68	20.6	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.4	1.1	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	6.4	0.1	1.6
A-U131_S5	3.70	112.1	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.2	17.7	1.1	1.2	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	45.1	0.4	8.6
U150_S1	8.63	261.5	34	0	1	39.0	0.0	1.1	0.7	0.0	0.0	7.1	20.3	2.5	2.9	0.3	5.8	0.6	2.9	1.7	12.1	0.2	0.0	84.1	0.8	20.1
U150_S2	9.82	297.6	39	0	1	44.8	0.0	1.1	1.1	0.0	0.0	7.8	22.3	2.9	3.3	0.3	6.5	0.7	3.3	2.0	13.7	0.2	0.0	95.1	1.2	22.9
U155	7.01	212.4	25	1	3	28.7	1.1	3.4	0.7	0.0	0.1	10.1	29.0	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	81.5	0.9	10.9
U168	20.28	614.5	80	0	2	91.8	0.0	2.3	2.2	0.0	0.1	15.9	45.6	5.9	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	195.2	2.4	47.2
U180	4.28	129.7	18	0	0	20.7	0.0	0.0	0.5	0.0	0.0	2.5	7.2	1.3	1.4	0.1	2.9	0.3	1.4	0.9	6.0	0.1	0.0	39.6	0.5	10.0
U215	14.14	428.5	53	2	2	60.8	2.3	2.3	1.5	0.1	0.1	12.3	35.3	4.1	4.8	0.5	9.4	0.9	4.7	2.8	19.8	0.3	0.1	139.4	1.7	38.1
U220	44.14	1337.6	167	2	8	191.7	2.3	9.2	4.7	0.1	0.4	41.9	120.2	12.9	14.9	1.5	29.4	2.9	14.7	8.8	61.8	0.9	0.2	444.2	5.3	84.2
U250	20.33	616.1	79	1	2	90.7	1.1	2.3	2.2	0.0	0.1	15.9	45.7	6.0	6.8	0.7	13.6	1.4	6.8	4.1	28.5	0.4	0.1	195.5	2.4	39.3
N50_S1	7.00	212.1	27	0	1	31.0	0.0	1.1	0.8	0.0	0.0	6.1	17.5	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	68.8	0.8	17.8
N95_S1	0.67	20.3	1	1	1	1.1	1.1	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	1.6
N95_S2	4.82	146.1	16	2	2	18.4	2.3	2.3	0.4	0.1	0.1	6.8	19.6	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	55.7	0.6	18.7
N100	6.17	187.0	24	1	0	27.5	1.1	0.0	0.7	0.0	0.0	3.6	10.4	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.6	0.1	0.0	56.0	0.7	14.8
N120	4.10	124.2	17	0	0	19.5	0.0	0.0	0.5	0.0	0.0	2.4	6.9	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	37.6	0.5	9.8
N121_S1	1.35	40.9	4	0	2	4.6	0.0	2.3	0.1	0.0	0.1	4.8	13.8	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	24.3	0.2	5.8

Table A-6 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 2

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
N121_S2	1.78	53.9	6	0	2	6.9	0.0	2.3	0.2	0.0	0.1	5.0	14.5	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	28.5	0.3	7.6
N121_S3	4.06	123.0	13	3	1	14.9	3.4	1.1	0.4	0.1	0.0	4.4	12.6	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	43.2	0.5	17.3
N121_S4	1.27	38.5	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.7	7.9	0.4	0.4	0.0	0.8	0.1	0.4	0.3	1.8	0.0	0.0	18.2	0.2	3.0
N135_S1	0.44	13.3	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	10.0	0.1	1.9
N135_S2	2.00	60.6	7	1	0	8.0	1.1	0.0	0.2	0.0	0.0	1.2	3.4	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	18.0	0.2	8.5
N145	2.84	86.1	10	1	1	11.5	1.1	1.1	0.3	0.0	0.0	3.7	10.5	0.8	1.0	0.1	1.9	0.2	0.9	0.6	4.0	0.1	0.0	32.1	0.4	19.8
N165	12.68	384.2	43	2	6	49.4	2.3	6.9	1.2	0.1	0.3	19.4	55.8	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	149.0	1.6	30.4
N175_S3	0.46	13.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.0	0.0	10.1	0.1	0.7
APPLICANT PROPOSED ROUTE SEGMENTS																										
W819_S10	0.96	29.1	3	0	1	3.4	0.0	1.1	0.1	0.0	0.0	2.6	7.4	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	14.6	0.1	2.7
A-W26_S1	2.08	63.0	8	0	1	9.2	0.0	1.1	0.2	0.0	0.0	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.3	0.2	4.8
A-W26_S2	4.43	134.2	16	0	2	18.4	0.0	2.3	0.3	0.0	0.1	6.6	18.9	1.3	1.5	0.1	3.0	0.3	1.5	0.9	6.2	0.1	0.0	51.7	0.4	12.6
U40	8.17	247.6	32	0	1	36.7	0.0	1.1	0.7	0.0	0.0	6.8	19.5	2.4	2.8	0.3	5.4	0.5	2.7	1.6	11.4	0.2	0.0	79.7	0.7	23.2
U41	10.75	325.8	42	0	1	48.2	0.0	1.1	0.9	0.0	0.0	8.3	23.8	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	102.6	1.0	84.4
U45	3.00	90.9	11	0	1	12.6	0.0	1.1	0.2	0.0	0.0	3.8	10.8	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.2	0.1	0.0	32.8	0.3	7.2
U50	12.70	384.8	47	0	4	53.9	0.0	4.6	1.0	0.0	0.1	15.5	44.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	137.6	1.2	23.3
U55_S1	1.80	54.5	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.1	8.8	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	22.9	0.2	4.3
U55_S3	10.21	309.4	39	1	1	44.8	1.1	1.1	0.8	0.0	0.0	8.0	22.9	3.0	3.4	0.3	6.8	0.7	3.4	2.0	14.3	0.2	0.0	97.9	0.9	23.8
U55_S4	12.70	384.8	42	1	8	48.2	1.1	9.2	0.9	0.0	0.3	23.5	67.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	160.6	1.2	29.0
U55_S5	24.34	737.6	82	6	10	94.1	6.9	11.5	1.7	0.2	0.4	34.3	98.4	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.1	0.5	0.1	277.5	2.3	52.5
U55_S7	1.30	39.4	4	2	0	4.6	2.3	0.0	0.1	0.1	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.6	0.1	3.1
U55_S8	1.65	50.0	6	1	0	6.9	1.1	0.0	0.1	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	15.3	0.2	7.0
U55_S9	4.27	129.4	17	0	1	19.5	0.0	1.1	0.4	0.0	0.0	4.5	12.9	1.3	1.4	0.1	2.8	0.3	1.4	0.9	6.0	0.1	0.0	45.3	0.4	10.2
U55_S10	7.00	212.1	27	1	0	31.0	1.1	0.0	0.6	0.0	0.0	4.1	11.8	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	63.1	0.6	14.7
U55_S11	21.65	656.1	76	5	6	87.2	5.7	6.9	1.6	0.1	0.2	24.7	70.9	6.4	7.3	0.7	14.4	1.4	7.2	4.3	30.3	0.4	0.1	230.0	2.0	122.6
U55_S12	4.65	140.9	18	0	1	20.7	0.0	1.1	0.4	0.0	0.0	4.7	13.6	1.4	1.6	0.2	3.1	0.3	1.6	0.9	6.5	0.1	0.0	48.1	0.4	32.5
U55_S17	7.35	222.7	26	3	1	29.8	3.4	1.1	0.5	0.1	0.0	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	72.7	0.7	51.3
U55_S18	1.31	39.7	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.7	0.1	9.1
U55_S19	0.43	13.0	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	9.9	0.1	3.0
Nephi-SA	0.67	20.3	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	4.7
Nephi-NA	2.10	63.6	7	1	1	8.0	1.1	1.1	0.1	0.0	0.0	3.2	9.3	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.4	0.2	14.7
Nephi-NB_S1	17.23	522.1	60	1	8	68.9	1.1	9.2	1.2	0.0	0.3	26.1	74.9	5.1	5.8	0.6	11.5	1.1	5.7	3.4	24.1	0.3	0.1	201.3	1.6	36.6
U255_S1	19.32	585.5	75	0	3	86.1	0.0	3.4	2.1	0.0	0.1	17.3	49.7	5.7	6.5	0.6	12.9	1.3	6.4	3.9	27.0	0.4	0.1	192.1	2.3	30.0
U255_S2	18.42	558.2	67	4	3	76.9	4.6	3.4	1.9	0.1	0.1	16.8	48.2	5.4	6.2	0.6	12.3	1.2	6.1	3.7	25.8	0.4	0.1	183.6	2.3	28.9
U255_S3	0.20	6.1	1	0	0	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.0	2.0	0.0	0.5
U255_S4	1.72	52.1	6	0	1	6.9	0.0	1.1	0.2	0.0	0.0	3.0	8.6	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.4	0.0	0.0	21.4	0.2	4.9
U255_S5	3.41	103.3	10	1	3	11.5	1.1	3.4	0.3	0.0	0.1	8.0	23.0	1.0	1.1	0.1	2.3	0.2	1.1	0.7	4.8	0.1	0.0	48.4	0.5	24.7
U255_S5.1	4.12	124.8	15	1	1	17.2	1.1	1.1	0.4	0.0	0.0	4.4	12.7	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.8	0.1	0.0	43.5	0.5	10.1
U255_S6	5.76	174.5	18	2	4	20.7	2.3	4.6	0.5	0.1	0.2	11.4	32.7	1.7	1.9	0.2	3.8	0.4	1.9	1.2	8.1	0.1	0.0	76.0	0.8	24.6
U255_S7	2.67	80.9	10	1	0	11.5	1.1	0.0	0.3	0.0	0.0	1.6	4.5	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.7	0.1	0.0	24.4	0.3	21.0
U255_S8	2.86	86.7	10	1	1	11.5	1.1	1.1	0.3	0.0	0.0	3.7	10.6	0.8	1.0	0.1	1.9	0.2	1.0	0.6	4.0	0.1	0.0	32.2	0.4	13.7
A-U255_S9	0.26	7.9	0	0	2	0.0	0.0	2.3	0.0	0.0	0.1	4.2	11.9	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	14.9	0.1	1.2
A-U255_S10	0.74	22.4	0	2	1	0.0	2.3	1.1	0.0	0.1	0.0	2.4	7.0	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.5	0.1	3.6
A-U255_S10.1	0.25	7.6	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	8.0	0.0	2.0
U255_S9	1.60	48.5	5	1	1	5.7	1.1	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	6.8
U255_S10	0.71	21.5	2	0	1	2.3	0.0	1.1	0.1	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	3.0
U255_S11	0.32	9.7	2	0	0	2.3	0.0	0.0	0.1	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.7	0.1	1.4
U255_S12	0.85	25.8	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.5	1.4	0.2	0.3	0.0	0.6	0.1	0.3	0.2	1.2	0.0	0.0	8.3	0.1	5.9
U255_S13	30.13	913.0	111	5	5	127.4	5.7	5.7	3.1	0.2	0.2	27.7	79.4	8.8	10.1	1.0	20.1	2.0	10.0	6.0	42.2	0.6	0.1	300.8	3.7	128.2
N45	11.93	361.5	46	1	1	52.8	1.1	1.1	1.3	0.0	0.0	9.0	25.8	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.7	0.2	0.1	113.6	1.4	18.5
N50_S2	24.98	757.0	94	3	3	107.9	3.4	3.4	2.6	0.1	0.1	20.7	59.3	7.3	8.4	0.8	16.7	1.7	8.3	5.0	35.0	0.5	0.1	242.4	3.0	109.0
N50_S3	11.98	363.0	46	1	1	52.8	1.1	1.1	1.3	0.0	0.0	9.0	25.9	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	113.8	1.4	31.3
N70	11.48	347.9	44	0	2	50.5	0.0	2.3	1.2	0.0	0.1	10.7	30.8	3.4	3.9	0.4	7.7	0.8	3.8	2.3	16.1	0.2	0.1	115.0	1.4	28.2
AGENCY PREFERRED ROUTE SEGMENTS																										
W819_S9	2.05	62.1	7	1	1	8.0	1.1	1.1	0.1	0.0	0.0	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.1	0.2	9.8
W115.07.1	2.47	74.85	9	0	1	10.3	0.0	1.1	0.2	0.0	0.0	3.4	9.9	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.5	0.0	0.0	28.1	0.2	5.7
A-W28_S2	3.79	114.8	15	0	1	17.2	0.0	1.1	0.3	0.0	0.0	4.2	12.1	1.1	1.3	0.1	2.5	0.3	1.3	0.8	5.3	0.1	0.0	40.9	0.4	10.7
A-W28_S3	1.12	33.9	4	0	1	4.6	0.0	1.1	0.1	0.0	0.0	2.7	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.6	0.0	0.0	16.4	0.1	3.2
U35_S1	2.70	81.8	9	0	2	10.3	0.0	2.3	0.2	0.0	0.1	5.6	16.0	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.8	0.1	0.0	36.0	0.3	6.5

Table A-6 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 2

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
U35_S2	7.21	218.5	26	1	2	29.8	1.1	2.3	0.5	0.0	0.1	8.2	23.6	2.1	2.4	0.2	4.8	0.5	2.4	1.4	10.1	0.1	0.0	76.6	0.7	26.2
U36_S1	7.37	223.33	27	2	1	31.0	2.3	1.1	0.6	0.1	0.0	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	72.8	0.7	19.7
U217.01	76.80	2327.27	269	10	29	308.8	11.5	33.3	5.6	0.3	1.1	103.1	295.7	22.5	25.9	2.6	51.2	5.1	25.6	15.4	107.5	1.5	0.4	859.4	7.3	290.1
U218	11.97	362.73	38	3	7	43.6	3.4	8.0	0.8	0.1	0.3	21.0	60.3	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	148.2	1.2	94.0
U219.1	0.60	18.18	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.8	0.1	2.9
U219.3	1.47	44.55	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.9	2.5	0.4	0.5	0.0	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.4	0.1	3.4
U219.5	16.83	510.0	52	2	14	59.7	2.3	16.1	1.1	0.1	0.5	37.9	108.7	4.9	5.7	0.6	11.2	1.1	5.6	3.4	23.6	0.3	0.1	232.8	1.7	118.9
U219.6	4.56	138.2	14	0	5	16.1	0.0	5.7	0.3	0.0	0.2	12.7	36.4	1.3	1.5	0.2	3.0	0.3	1.5	0.9	6.4	0.1	0.0	70.7	0.5	21.9
U217.052	15.82	479.39	53	4	7	60.8	4.6	8.0	1.1	0.1	0.3	23.3	66.8	4.6	5.3	0.5	10.5	1.1	5.3	3.2	22.1	0.3	0.1	183.6	1.5	101.3
Nephi-SA-S	0.65	19.70	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.8	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	5.1
Nephi-SB	4.16	126.06	13	2	2	14.9	2.3	2.3	0.3	0.1	0.1	6.4	18.5	1.2	1.4	0.1	2.8	0.3	1.4	0.8	5.8	0.1	0.0	49.4	0.4	32.7
U115b	5.60	169.70	22	0	1	25.3	0.0	1.1	0.5	0.0	0.0	5.3	15.2	1.6	1.9	0.2	3.7	0.4	1.9	1.1	7.8	0.1	0.0	56.9	0.5	14.6
U120	4.30	130.30	18	0	0	20.7	0.0	0.0	0.4	0.0	0.0	2.5	7.2	1.3	1.4	0.1	2.9	0.3	1.4	0.9	6.0	0.1	0.0	39.7	0.4	33.8
U260_S1	14.10	427.27	56	0	1	64.3	0.0	1.1	1.6	0.0	0.0	10.3	29.5	4.1	4.7	0.5	9.4	0.9	4.7	2.8	19.7	0.3	0.1	133.5	1.7	32.8
U260_S2	40.77	1235.45	154	3	7	176.8	3.4	8.0	4.3	0.1	0.3	37.9	108.8	12.0	13.7	1.4	27.2	2.7	13.6	8.2	57.1	0.8	0.2	408.6	5.0	94.9
N10	1.60	48.48	6	0	1	6.9	0.0	1.1	0.2	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	3.7
N805	15.22	461.21	57	1	3	65.4	1.1	3.4	1.6	0.0	0.1	14.9	42.8	4.5	5.1	0.5	10.1	1.0	5.1	3.0	21.3	0.3	0.1	154.5	1.8	51.0
N808	41.29	1251.21	146	7	13	167.6	8.0	14.9	4.1	0.3	0.6	50.2	144.1	12.1	13.9	1.4	27.5	2.8	13.8	8.3	57.8	0.8	0.2	447.7	5.2	146.1
N35A	22.47	680.91	84	3	3	96.4	3.4	3.4	2.4	0.1	0.1	19.2	55.0	6.6	7.6	0.7	15.0	1.5	7.5	4.5	31.5	0.4	0.1	219.8	2.7	34.9
N40A	16.14	489.09	60	1	4	68.9	1.1	4.6	1.7	0.0	0.2	17.5	50.1	4.7	5.4	0.5	10.8	1.1	5.4	3.2	22.6	0.3	0.1	168.9	2.0	25.0
N90A	2.66	80.61	10	0	1	11.5	0.0	1.1	0.3	0.0	0.0	3.6	10.2	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.7	0.1	0.0	30.1	0.3	4.1
N75	7.02	212.73	26	2	1	29.8	2.3	1.1	0.7	0.1	0.0	6.1	17.6	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	70.1	0.9	10.9
ALTERNATIVE ROUTE SEGMENTS																										
W15_S1	22.02	667.3	75	7	7	86.1	8.0	8.0	1.5	0.2	0.3	26.9	77.2	6.5	7.4	0.7	14.7	1.5	7.3	4.4	30.8	0.4	0.1	239.7	2.1	51.2
W15_S2	16.42	497.6	59	3	4	67.7	3.4	4.6	1.2	0.1	0.1	17.6	50.6	4.8	5.5	0.5	10.9	1.1	5.5	3.3	23.0	0.3	0.1	171.3	1.5	38.2
W15_S3	2.32	70.3	9	1	0	10.3	1.1	0.0	0.2	0.0	0.0	1.4	3.9	0.7	0.8	0.1	1.5	0.2	0.8	0.5	3.2	0.0	0.0	21.7	0.2	5.4
W65	8.27	250.6	32	1	1	36.7	1.1	1.1	0.7	0.0	0.0	6.9	19.7	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	81.3	0.8	23.5
W115.01	0.45	13.6	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.0	0.0	10.0	0.1	1.0
W115.02	1.50	45.5	6	0	0	6.9	0.0	0.0	0.1	0.0	0.0	0.9	2.5	0.4	0.5	0.1	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.5	0.1	3.5
W115.03	0.36	10.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.3	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	9.6	0.1	0.9
W115.04	12.14	367.9	45	3	1	51.7	3.4	1.1	0.9	0.1	0.0	9.1	26.2	3.6	4.1	0.4	8.1	0.8	4.0	2.4	17.0	0.2	0.1	115.6	1.1	28.3
W115.07	1.77	53.6	7	1	0	8.0	1.1	0.0	0.1	0.0	0.0	1.0	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	17.0	0.2	4.1
W819_S2	1.50	45.5	5	1	0	5.7	1.1	0.0	0.1	0.0	0.0	0.9	2.5	0.4	0.5	0.1	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.5	0.1	3.7
W819_S3	1.43	43.3	4	1	1	4.6	1.1	1.1	0.1	0.0	0.0	2.8	8.1	0.4	0.5	0.0	1.0	0.1	0.5	0.3	2.0	0.0	0.0	18.9	0.2	3.3
A-W19_S1	11.17	338.5	37	7	1	42.5	8.0	1.1	0.8	0.2	0.0	8.6	24.5	3.3	3.8	0.4	7.4	0.7	3.7	2.2	15.6	0.2	0.1	106.8	1.0	26.0
A-W19_S2	15.54	470.9	58	1	4	66.6	1.1	4.6	1.2	0.0	0.1	17.1	49.1	4.6	5.2	0.5	10.4	1.0	5.2	3.1	21.8	0.3	0.1	164.0	1.4	36.2
C10	11.14	337.6	43	1	1	49.4	1.1	1.1	0.9	0.0	0.0	8.5	24.5	3.3	3.8	0.4	7.4	0.7	3.7	2.2	15.6	0.2	0.1	106.6	1.0	31.6
C65	11.44	346.7	41	1	4	47.1	1.1	4.6	0.8	0.0	0.1	14.7	42.2	3.4	3.9	0.4	7.6	0.8	3.8	2.3	16.0	0.2	0.1	126.3	1.1	54.9
C100	24.25	734.8	89	2	6	102.2	2.3	6.9	1.8	0.1	0.2	26.2	75.3	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.0	0.5	0.1	253.0	2.2	60.4
C110	11.98	363.0	46	1	1	52.8	1.1	1.1	1.0	0.0	0.0	9.0	25.9	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	113.8	1.1	21.1
C802	21.41	648.8	80	3	3	91.8	3.4	3.4	1.7	0.1	0.1	18.6	53.3	6.3	7.2	0.7	14.3	1.4	7.1	4.3	30.0	0.4	0.1	210.6	1.9	102.8
C804	4.02	121.8	10	1	6	11.5	1.1	6.9	0.2	0.0	0.2	14.4	41.2	1.2	1.4	0.1	2.7	0.3	1.3	0.8	5.6	0.1	0.0	71.7	0.5	11.4
A-C56_S1	0.56	17.0	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.3	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.7	0.1	1.6
A-C56_S2	0.76	23.0	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.4	1.3	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	8.0	0.1	2.2
A-C56_S3	1.29	39.1	4	1	1	4.6	1.1	1.1	0.1	0.0	0.0	2.8	7.9	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	18.3	0.2	3.0
A-C56_S4	0.27	8.2	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.0	0.8
A-C56_S5	4.79	145.2	18	0	2	20.7	0.0	2.3	0.4	0.0	0.1	6.8	19.5	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	55.6	0.5	13.6
A-C57	2.33	70.6	9	0	1	10.3	0.0	1.1	0.2	0.0	0.0	3.4	9.7	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.3	0.0	0.0	27.5	0.2	6.6
TE-A1	0.30	9.09	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	9.4	0.1	0.7
TE-B_S7	1.62	49.1	6	0	1	6.9	0.0	1.1	0.1	0.0	0.0	3.0	8.5	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	20.9	0.2	7.8
C195	5.19	157.3	19	0	2	21.8	0.0	2.3	0.4	0.0	0.1	7.0	20.2	1.5	1.7	0.2	3.5	0.3	1.7	1.0	7.3	0.1	0.0	58.5	0.5	13.2
C800_S1	7.69	233.0	28	2	1	32.1	2.3	1.1	0.6	0.1	0.0	6.5	18.7	2.3	2.6	0.3	5.1	0.5	2.6	1.5	10.8	0.2	0.0	75.3	0.7	54.9
C800_S2	19.26	583.6	72	3	3	82.6	3.4	3.4	1.5	0.1	0.1	17.3	49.6	5.6	6.5	0.6	12.8	1.3	6.4	3.9	27.0	0.4	0.1	191.9	1.8	54.6
C800_S3	46.87	1420.3	156	9	23	179.1	10.3	26.4	3.2	0.3	0.8	73.5	210.9	13.7	15.8	1.6	31.2	3.1	15.6	9.4	65.6	0.9	0.2	555.0	4.5	182.0
TE-A_S1	8.38	253.9	32	1	1	36.7	1.1	1.1	0.7	0.0	0.0	6.9	19.8	2.5	2.8	0.3	5.6	0.6	2.8	1.7	11.7	0.2	0.0	81.8	0.8	36.3
U36	9.58	290.3	35	2	2	40.2	2.3	2.3	0.7	0.1	0.1	9.6	27.6	2.8	3.2	0.3	6.4	0.6	3.2	1.9	13.4	0.2	0.0	98.6	0.9	42.1
A-U56_S5	7.41	224.5	28	0	2	32.1	0.0	2.3	0.6	0.0	0.1	8.3	24.0	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.4	0.1	0.0	78.7	0.7	21.0
U55_S13	1.93	58.5	7	0	1	8.0	0.0	1.1	0.1	0.0	0.0	3.1	9.0	0.6	0.6	0.1	1.3	0.1	0.6	0.4	2.7	0.0	0.0	23.5	0.2	13.5
U55_S14	2.54	77.0	11	0	0	12.6	0.0	0.0	0.2	0.0	0.0	1.5	4.3	0.7	0.9	0.1	1.7	0.2	0.8	0.5	3.6	0.1	0.0	23.9	0.2	17.7

Table A-6 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 2

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
U55_S15	2.59	78.5	8	0	3	9.2	0.0	3.4	0.2	0.0	0.1	7.5	21.6	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	41.3	0.3	18.1
U55_S16	0.23	7.0	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.1	0.1	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.0	7.9	0.0	1.6
U60	77.84	2358.8	290	11	11	332.9	12.6	12.6	6.0	0.3	0.4	67.7	194.2	22.8	26.2	2.6	51.9	5.2	25.9	15.6	109.0	1.6	0.4	765.3	7.1	190.7
U75	1.93	58.5	8	0	0	9.2	0.0	0.0	0.2	0.0	0.0	1.1	3.2	0.6	0.6	0.1	1.3	0.1	0.6	0.4	2.7	0.0	0.0	17.7	0.2	5.5
U75A	13.20	400.0	50	1	2	57.4	1.1	2.3	1.0	0.0	0.1	11.7	33.7	3.9	4.4	0.4	8.8	0.9	4.4	2.6	18.5	0.3	0.1	130.7	1.2	22.8
U85A	98.93	2997.9	352	18	26	404.0	20.7	29.8	7.3	0.5	1.0	110.0	315.8	29.0	33.3	3.3	66.0	6.6	33.0	19.8	138.5	2.0	0.5	1041.1	9.2	350.1
U90_S1	10.78	326.7	39	1	4	44.8	1.1	4.6	0.8	0.0	0.1	14.3	41.1	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	121.1	1.0	28.5
U90_S2	50.26	1523.0	154	18	30	176.8	20.7	34.4	3.2	0.5	1.1	89.5	256.8	14.7	16.9	1.7	33.5	3.4	16.8	10.1	70.4	1.0	0.2	626.2	5.0	298.8
U135_S1	14.69	445.15	53	3	3	60.8	3.4	3.4	1.1	0.1	0.1	14.6	41.9	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.6	0.3	0.1	149.9	1.4	43.7
U135_S2	13.22	400.61	48	3	2	55.1	3.4	2.3	1.0	0.1	0.1	11.8	33.7	3.9	4.5	0.4	8.8	0.9	4.4	2.6	18.5	0.3	0.1	130.7	1.2	24.8
U140	3.63	110.0	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.6	1.1	1.2	0.1	2.4	0.2	1.2	0.7	5.1	0.1	0.0	44.7	0.4	8.4
U145_S1	7.94	240.61	31	0	1	35.6	0.0	1.1	0.6	0.0	0.0	6.7	19.1	2.3	2.7	0.3	5.3	0.5	2.6	1.6	11.1	0.2	0.0	77.6	0.7	12.3
U200	38.16	1156.4	141	3	9	161.8	3.4	10.3	2.9	0.1	0.3	40.4	115.9	11.2	12.8	1.3	25.4	2.5	12.7	7.6	53.4	0.8	0.2	395.9	3.5	97.2
U217.02	16.03	485.8	49	5	11	56.2	5.7	12.6	1.0	0.1	0.4	31.4	90.1	4.7	5.4	0.5	10.7	1.1	5.3	3.2	22.4	0.3	0.1	208.6	1.6	89.2
U217.03	0.94	28.5	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.6	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	7.4
U217.051	20.30	615.2	76	3	3	87.2	3.4	3.4	1.6	0.1	0.1	17.9	51.4	6.0	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	201.1	1.9	67.4
U217.10	20.87	632.4	61	9	14	70.0	10.3	16.1	1.3	0.3	0.5	40.2	115.5	6.1	7.0	0.7	13.9	1.4	7.0	4.2	29.2	0.4	0.1	269.0	2.1	98.9
U217.15	36.37	1102.1	118	12	16	135.4	13.8	18.4	2.4	0.3	0.6	53.3	153.1	10.7	12.2	1.2	24.2	2.4	12.1	7.3	50.9	0.7	0.2	420.2	3.5	213.4
U219.2	19.79	599.70	51	11	18	58.5	12.6	20.7	1.1	0.3	0.7	47.6	136.6	5.8	6.7	0.7	13.2	1.3	6.6	4.0	27.7	0.4	0.1	282.6	2.1	140.2
U219.4	1.60	48.5	5	1	1	5.7	1.1	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	12.6
U222.05	41.20	1248.5	150	9	6	172.2	10.3	6.9	3.1	0.3	0.2	36.2	103.8	12.1	13.9	1.4	27.5	2.7	13.7	8.2	57.7	0.8	0.2	405.9	3.8	81.9
U222.10	14.16	429.1	48	3	6	55.1	3.4	6.9	1.0	0.1	0.2	20.3	58.3	4.2	4.8	0.5	9.4	0.9	4.7	2.8	19.8	0.3	0.1	162.5	1.4	53.3
U223.00	18.16	550.3	60	7	6	68.9	8.0	6.9	1.2	0.2	0.2	22.7	65.0	5.3	6.1	0.6	12.1	1.2	6.1	3.6	25.4	0.4	0.1	198.5	1.7	64.4
U225	38.41	1163.9	136	3	15	156.1	3.4	17.2	2.8	0.1	0.6	52.5	150.8	11.3	12.9	1.3	25.6	2.6	12.8	7.7	53.8	0.8	0.2	432.6	3.6	106.8
U325.1	43.28	1311.5	136	14	24	156.1	16.1	27.5	2.8	0.4	0.9	73.4	210.6	12.7	14.6	1.4	28.9	2.9	14.4	8.7	60.6	0.9	0.2	528.8	4.3	136.6
U325.2	4.12	124.8	12	3	2	13.8	3.4	2.3	0.2	0.1	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.8	0.1	0.0	49.2	0.4	28.8
U821	24.04	728.5	92	1	4	105.6	1.1	4.6	1.9	0.0	0.1	22.1	63.4	7.1	8.1	0.8	16.0	1.6	8.0	4.8	33.7	0.5	0.1	240.6	2.2	65.5
U145_S2	9.51	288.18	34	2	3	39.0	2.3	3.4	1.0	0.1	0.1	11.6	33.2	2.8	3.2	0.3	6.3	0.6	3.2	1.9	13.3	0.2	0.0	104.0	1.2	14.8
U155-165	35.93	1088.8	140	0	4	160.7	0.0	4.6	3.9	0.0	0.2	29.1	83.4	10.5	12.1	1.2	24.0	2.4	12.0	7.2	50.3	0.7	0.2	347.1	4.3	62.5
Ox_Vly_Conn	0.65	19.7	1	1	1	1.1	1.1	1.1	0.0	0.0	0.0	2.4	6.8	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	1.8
U256_S1	7.00	212.1	25	1	2	28.7	1.1	2.3	0.7	0.0	0.1	8.1	23.3	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	74.6	0.9	33.6
U256_S2	6.60	200.0	22	1	4	25.3	1.1	4.6	0.6	0.0	0.2	11.9	34.1	1.9	2.2	0.2	4.4	0.4	2.2	1.3	9.2	0.1	0.0	83.1	0.9	31.7
U256_S3	9.25	280.3	30	1	6	34.4	1.1	6.9	0.8	0.0	0.3	17.4	50.0	2.7	3.1	0.3	6.2	0.6	3.1	1.9	13.0	0.2	0.0	117.8	1.2	72.7
U495	7.64	231.5	29	0	2	33.3	0.0	2.3	0.8	0.0	0.1	8.5	24.3	2.2	2.6	0.3	5.1	0.5	2.5	1.5	10.7	0.2	0.0	80.8	0.9	17.8
U506.01	28.56	865.5	97	2	16	111.3	2.3	18.4	2.7	0.1	0.7	48.8	139.9	8.4	9.6	1.0	19.0	1.9	9.5	5.7	40.0	0.6	0.1	350.1	3.7	111.1
N35B	3.05	92.4	10	0	3	11.5	0.0	3.4	0.3	0.0	0.1	7.8	22.4	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.3	0.1	0.0	45.6	0.4	8.7
N65	9.72	294.5	37	0	2	42.5	0.0	2.3	1.0	0.0	0.1	9.7	27.8	2.9	3.3	0.3	6.5	0.6	3.2	1.9	13.6	0.2	0.0	99.2	1.2	23.1
N80	3.62	109.7	13	0	2	14.9	0.0	2.3	0.4	0.0	0.1	6.1	17.6	1.1	1.2	0.1	2.4	0.2	1.2	0.7	5.1	0.1	0.0	44.7	0.5	8.4
N85	19.34	586.1	70	0	8	80.3	0.0	9.2	2.0	0.0	0.4	27.3	78.5	5.7	6.5	0.6	12.9	1.3	6.4	3.9	27.1	0.4	0.1	220.9	2.4	49.8
N806	124.76	3780.6	477	6	17	547.5	6.9	19.5	13.4	0.2	0.8	107.2	307.6	36.6	42.0	4.2	83.2	8.3	41.6	25.0	174.7	2.5	0.6	1223.0	15.0	342.9
N115	0.92	27.9	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.5	1.5	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	2.1
N117	3.87	117.3	16	0	0	18.4	0.0	0.0	0.4	0.0	0.0	2.3	6.5	1.1	1.3	0.1	2.6	0.3	1.3	0.8	5.4	0.1	0.0	35.5	0.5	14.6
N118	5.42	164.2	17	1	4	19.5	1.1	4.6	0.5	0.0	0.2	11.2	32.1	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	72.2	0.7	26.0
N125_S1	8.31	251.8	29	2	3	33.3	2.3	3.4	0.8	0.1	0.1	10.9	31.2	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	93.0	1.1	37.3
N125_S2	0.42	12.7	2	0	0	2.3	0.0	0.0	0.1	0.0	0.0	0.2	0.7	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	4.2	0.1	1.0
N130	4.18	126.7	14	0	3	16.1	0.0	3.4	0.4	0.0	0.1	8.5	24.3	1.2	1.4	0.1	2.8	0.3	1.4	0.8	5.9	0.1	0.0	55.2	0.6	20.1
N140	8.06	244.2	24	3	6	27.5	3.4	6.9	0.7	0.1	0.3	16.7	48.0	2.4	2.7	0.3	5.4	0.5	2.7	1.6	11.3	0.2	0.0	107.9	1.1	57.2
N150	20.59	623.9	72	2	9	82.6	2.3	10.3	2.0	0.1	0.4	30.1	86.3	6.0	6.9	0.7	13.7	1.4	6.9	4.1	28.8	0.4	0.1	237.9	2.6	44.1
N155	8.31	251.8	27	3	4	31.0	3.4	4.6	0.8	0.1	0.2	12.9	36.9	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	98.7	1.1	27.1
N160	3.79	114.8	12	1	3	13.8	1.1	3.4	0.3	0.0	0.1	8.2	23.6	1.1	1.3	0.1	2.5	0.3	1.3	0.8	5.3	0.1	0.0	52.3	0.5	16.2
N170	0.93	28.2	2	1	1	2.3	1.1	1.1	0.1	0.0	0.0	2.5	7.3	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	14.4	0.1	1.4
N170A	8.00	242.4	29	0	3	33.3	0.0	3.4	0.8	0.0	0.1	10.7	30.7	2.3	2.7	0.3	5.3	0.5	2.7	1.6	11.2	0.2	0.0	89.3	1.0	18.6
N175_S1	7.10	215.2	26	2	1	29.8	2.3	1.1	0.7	0.1	0.0	6.2	17.7	2.1	2.4	0.2	4.7	0.5	2.4	1.4	9.9	0.1	0.0	70.4	0.9	11.0
N175_S2	0.27	8.2	2	0	0	2.3	0.0	0.0	0.1	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.1	0.4
N175_S4	0.70	21.2	2	0	1	2.3	0.0	1.1	0.1	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	1.1
Gyp_opn_Conn	0.17	5.2	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	7.6	0.0	0.4
Gyp_opn	0.41	12.4	0	1	1	0.0	1.1	1.1	0.0	0.0	0.0	2.2	6.4	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	9.8	0.1	1.0

Table A-6 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 2

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
NRA-rt_S1	2.42	73.3	7	1	2	8.0	1.1	2.3	0.2	0.0	0.1	5.4	15.6	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.4	0.0	0.0	33.7	0.3	7.2
NRA-rt_S2	2.77	83.9	9	0	3	10.3	0.0	3.4	0.3	0.0	0.1	7.6	21.9	0.8	0.9	0.1	1.8	0.2	0.9	0.6	3.9	0.1	0.0	43.2	0.4	7.9

Notes: TUA - Temporary Use Areas (structure work sites, pulling/tensioning sites, material storage yards, batch plants, fly yards and staging areas)

* Rows highlighted in blue text indicate segments that are assumed to have a single circuit 500 kV AC configuration.
* All structures are assumed to be Self Supporting Lattice.
* Splicing areas are included with the Pulling/Tensioning Sites per common construction practices.
* Material Storage Yards have a disturbance area of 20 acres.
* Batch Plants have a disturbance area of 5 acres.
* Fly Yards/Staging Areas have a disturbance area of 7 acres.
* Temporary disturbance areas for Structure Work Areas and Pulling/Tensioning/Splicing Sites are within the 250 feet wide ROW

Structures per mile -	Approximately		4						
Right-of-Way Width (ROW) -			250	feet					
Structure Work Area -	ROW	x	200	feet					
Wire-Pulling, Tensioning, Splicing Site									
Dead-End (DE) Structure -	ROW	x	500	feet	2 @ every DE Structure				
Mid-Span Conductor and Shield Wire -	ROW	x	500	feet	Every	9,000	feet		
Fiber Optic Cable Set-Up Sites -	100	x	500	feet	Every	18,000	feet		
Material Storage Yards -	Approximately		20	Acres	Every	30	miles		
Batch Plant Sites - Stand-alone, Temporary -	Approximately		5	Acres	Every	15	miles		
Fly Yards / Staging Areas -	Approximately		7	Acres	Every	5	miles		
Structure Base (600 kV HVDC Towers)									
Lattice Tower (Tangent) -	30	x	30	feet					
Lattice Tower (Angle) -	35	x	35	feet					
Lattice Tower (Dead End) -	40	x	40	feet					
Structure Base (Single Circuit 500 kV AC Towers)									
Lattice Tower (Tangent) -	35	x	35	feet					
Lattice Tower (Angle) -	40	x	40	feet					
Lattice Tower (Dead End) -	45	x	45	feet					
Regeneration Sites (most located on ROW) -	100	x	100	feet	Every	50	miles		

Table A-7 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 3

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
SEGMENTS COMMON TO APPLICANT PROPOSED AND AGENCY PREFERRED ROUTES																										
W10	32.24	977.0	121	1	7	138.9	1.1	8.0	4.4	0.0	0.4	32.9	94.5	9.5	10.9	1.1	21.5	2.1	10.7	6.4	45.1	0.6	0.1	330.8	5.0	75.4
W20_S1	1.64	49.7	6	1	0	6.9	1.1	0.0	0.2	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	15.3	0.3	3.8
W20_S3	1.56	47.3	7	0	0	8.0	0.0	0.0	0.3	0.0	0.0	0.9	2.6	0.5	0.5	0.1	1.0	0.1	0.5	0.3	2.2	0.0	0.0	14.9	0.3	3.6
W20_S4	7.54	228.5	29	0	2	33.3	0.0	2.3	1.1	0.0	0.1	8.4	24.2	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	80.4	1.2	17.5
W819_S1	5.40	163.6	19	1	2	21.8	1.1	2.3	0.7	0.0	0.1	7.2	20.6	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	60.6	0.9	12.6
A-W20_S1	7.67	232.4	28	0	3	32.1	0.0	3.4	1.0	0.0	0.2	10.5	30.1	2.2	2.6	0.3	5.1	0.5	2.6	1.5	10.7	0.2	0.0	86.7	1.2	17.9
W819_S5	1.28	38.8	5	1	0	5.7	1.1	0.0	0.2	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.5	0.2	3.0
W819_S6	3.72	112.7	14	0	1	16.1	0.0	1.1	0.5	0.0	0.1	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	39.4	0.6	8.7
W819_S7	0.60	18.2	2	0	1	2.3	0.0	1.1	0.1	0.0	0.1	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.8	0.1	1.4
W819_S8	20.40	618.2	79	2	1	90.7	2.3	1.1	2.9	0.1	0.1	14.0	40.1	6.0	6.9	0.7	13.6	1.4	6.8	4.1	28.6	0.4	0.1	190.0	3.1	57.9
A-W26_S3	1.67	50.6	7	0	0	8.0	0.0	0.0	0.3	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	15.4	0.3	4.7
A-C26_S1	6.22	188.5	25	0	0	28.7	0.0	0.0	0.9	0.0	0.0	3.6	10.5	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.7	0.1	0.0	56.2	0.9	16.1
A-C52_S1	1.38	41.8	5	0	1	5.7	0.0	1.1	0.2	0.0	0.1	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	18.7	0.2	5.8
A-C52_S2	3.45	104.5	14	0	0	16.1	0.0	0.0	0.5	0.0	0.0	2.0	5.8	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.8	0.1	0.0	31.3	0.5	9.6
A-C52_S3	1.41	42.7	6	0	0	6.9	0.0	0.0	0.2	0.0	0.0	0.8	2.4	0.4	0.5	0.0	0.9	0.1	0.5	0.3	2.0	0.0	0.0	13.1	0.2	9.8
A-C52_S4	7.55	228.8	29	1	1	33.3	1.1	1.1	1.1	0.0	0.1	6.4	18.4	2.2	2.5	0.3	5.0	0.5	2.5	1.5	10.6	0.2	0.0	74.7	1.2	36.2
C186.03	0.36	10.91	2	0	0	2.3	0.0	0.0	0.1	0.0	0.0	0.2	0.6	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	3.9	0.1	1.0
C186.04	3.72	112.73	14	0	1	16.1	0.0	1.1	0.5	0.0	0.1	4.2	12.0	1.1	1.3	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	39.4	0.6	8.7
A-C53_S1	10.41	315.5	39	0	3	44.8	0.0	3.4	1.4	0.0	0.2	12.1	34.7	3.1	3.5	0.3	6.9	0.7	3.5	2.1	14.6	0.2	0.0	111.4	1.7	44.0
A-C54_S1	4.10	124.2	15	0	2	17.2	0.0	2.3	0.6	0.0	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	49.1	0.7	12.5
A-C54_S2	1.97	59.7	7	0	1	8.0	0.0	1.1	0.3	0.0	0.1	3.2	9.1	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	23.6	0.3	5.1
A-C54_S3	1.32	40.0	6	0	0	6.9	0.0	0.0	0.2	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.7	0.2	3.7
A-C54_S4	1.81	54.8	8	0	0	9.2	0.0	0.0	0.3	0.0	0.0	1.1	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	17.2	0.3	5.1
A-C54_S5	0.80	24.2	3	0	1	3.4	0.0	1.1	0.1	0.0	0.1	2.5	7.1	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	13.9	0.2	2.3
TE-A2	0.53	16.1	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.7	0.0	0.0	5.8	0.1	2.3
C111_S1	1.10	33.3	4	0	1	4.6	0.0	1.1	0.1	0.0	0.1	2.6	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.5	0.0	0.0	16.3	0.2	2.6
C111_S2	0.93	28.2	3	1	0	3.4	1.1	0.0	0.1	0.0	0.0	0.5	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.2	2.2
C115_S1	2.60	78.8	9	1	1	10.3	1.1	1.1	0.3	0.0	0.1	3.5	10.1	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	29.9	0.4	11.1
C115_S2	0.51	15.5	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.3	0.9	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.7	0.0	0.0	5.7	0.1	2.2
C115_S3	14.64	443.6	56	1	2	64.3	1.1	2.3	2.1	0.0	0.1	12.6	36.1	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.5	0.3	0.1	143.9	2.3	39.5
C120_S1	1.39	42.1	5	0	1	5.7	0.0	1.1	0.2	0.0	0.1	2.8	8.1	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	18.8	0.2	3.3
C120_S2	23.34	707.3	86	4	4	98.7	4.6	4.6	3.2	0.2	0.2	21.7	62.2	6.8	7.9	0.8	15.6	1.6	7.8	4.7	32.7	0.5	0.1	234.0	3.7	56.0
U70_S1	7.30	221.2	23	2	5	26.4	2.3	5.7	0.8	0.1	0.3	14.3	41.0	2.1	2.5	0.2	4.9	0.5	2.4	1.5	10.2	0.1	0.0	95.4	1.3	51.0
U70_S2	5.52	167.3	21	1	1	24.1	1.1	1.1	0.8	0.0	0.1	5.2	15.0	1.6	1.9	0.2	3.7	0.4	1.8	1.1	7.7	0.1	0.0	56.5	0.9	38.5
U70_S4	15.17	459.7	53	5	3	60.8	5.7	3.4	1.9	0.2	0.2	14.9	42.8	4.4	5.1	0.5	10.1	1.0	5.1	3.0	21.2	0.3	0.1	154.3	2.4	105.9
U70_S5	6.34	192.1	22	1	3	25.3	1.1	3.4	0.8	0.0	0.2	9.7	27.9	1.9	2.1	0.2	4.2	0.4	2.1	1.3	8.9	0.1	0.0	75.1	1.1	45.1
U70_S6	0.27	8.2	2	0	0	2.3	0.0	0.0	0.1	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.1	2.1
Nephi-NB_S2	0.70	21.2	2	0	1	2.3	0.0	1.1	0.1	0.0	0.1	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	1.7
U130_S1	17.03	516.1	67	0	2	76.9	0.0	2.3	2.5	0.0	0.1	14.0	40.1	5.0	5.7	0.6	11.4	1.1	5.7	3.4	23.8	0.3	0.1	166.0	2.7	61.1
A-U131_S1	3.52	106.7	13	0	2	14.9	0.0	2.3	0.5	0.0	0.1	6.1	17.4	1.0	1.2	0.1	2.3	0.2	1.2	0.7	4.9	0.1	0.0	44.3	0.6	8.2
A-U131_S2	0.26	7.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.1	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	9.2	0.1	0.6
A-U131_S3	1.21	36.7	5	0	0	5.7	0.0	0.0	0.2	0.0	0.0	0.7	2.0	0.4	0.4	0.0	0.8	0.1	0.4	0.2	1.7	0.0	0.0	11.1	0.2	2.8
A-U131_S4	0.68	20.6	3	0	0	3.4	0.0	0.0	0.1	0.0	0.0	0.4	1.1	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	6.4	0.1	1.6
A-U131_S5	3.70	112.1	13	0	2	14.9	0.0	2.3	0.5	0.0	0.1	6.2	17.7	1.1	1.2	0.1	2.5	0.2	1.2	0.7	5.2	0.1	0.0	45.1	0.6	8.6
U150_S1	8.63	261.5	34	0	1	39.0	0.0	1.1	1.2	0.0	0.1	7.1	20.3	2.5	2.9	0.3	5.8	0.6	2.9	1.7	12.1	0.2	0.0	84.1	1.3	20.1
U150_S2	9.82	297.6	39	0	1	44.8	0.0	1.1	0.8	0.0	0.0	7.8	22.3	2.9	3.3	0.3	6.5	0.7	3.3	2.0	13.7	0.2	0.0	95.1	0.9	22.9
U155	7.01	212.4	25	1	3	28.7	1.1	3.4	0.5	0.0	0.1	10.1	29.0	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	81.5	0.7	10.9
U168	20.28	614.5	80	0	2	91.8	0.0	2.3	1.7	0.0	0.1	15.9	45.6	5.9	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	195.2	1.8	47.2
U180	4.28	129.7	18	0	0	20.7	0.0	0.0	0.4	0.0	0.0	2.5	7.2	1.3	1.4	0.1	2.9	0.3	1.4	0.9	6.0	0.1	0.0	39.6	0.4	10.0
U215	14.14	428.5	53	2	2	60.8	2.3	2.3	1.1	0.1	0.1	12.3	35.3	4.1	4.8	0.5	9.4	0.9	4.7	2.8	19.8	0.3	0.1	139.4	1.3	38.1
U220	44.14	1337.6	167	2	8	191.7	2.3	9.2	3.5	0.1	0.3	41.9	120.2	12.9	14.9	1.5	29.4	2.9	14.7	8.8	61.8	0.9	0.2	444.2	4.0	84.2
U250	20.33	616.1	79	1	2	90.7	1.1	2.3	1.6	0.0	0.1	15.9	45.7	6.0	6.8	0.7	13.6	1.4	6.8	4.1	28.5	0.4	0.1	195.5	1.8	39.3
N50_S1	7.00	212.1	27	0	1	31.0	0.0	1.1	0.6	0.0	0.0	6.1	17.5	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	68.8	0.6	17.8
N95_S1	0.67	20.3	1	1	1	1.1	1.1	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	1.6
N95_S2	4.82	146.1	16	2	2	18.4	2.3	2.3	0.3	0.1	0.1	6.8	19.6	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	55.7	0.5	18.7

Table A-7 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 3

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
N100	6.17	187.0	24	1	0	27.5	1.1	0.0	0.5	0.0	0.0	3.6	10.4	1.8	2.1	0.2	4.1	0.4	2.1	1.2	8.6	0.1	0.0	56.0	0.6	14.8
N120	4.10	124.2	17	0	0	19.5	0.0	0.0	0.4	0.0	0.0	2.4	6.9	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	37.6	0.4	9.8
N121_S1	1.35	40.9	4	0	2	4.6	0.0	2.3	0.1	0.0	0.1	4.8	13.8	0.4	0.5	0.0	0.9	0.1	0.5	0.3	1.9	0.0	0.0	24.3	0.2	5.8
N121_S2	1.78	53.9	6	0	2	6.9	0.0	2.3	0.1	0.0	0.1	5.0	14.5	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	28.5	0.2	7.6
N121_S3	4.06	123.0	13	3	1	14.9	3.4	1.1	0.3	0.1	0.0	4.4	12.6	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.7	0.1	0.0	43.2	0.4	17.3
N121_S4	1.27	38.5	5	0	1	5.7	0.0	1.1	0.1	0.0	0.0	2.7	7.9	0.4	0.4	0.0	0.8	0.1	0.4	0.3	1.8	0.0	0.0	18.2	0.1	3.0
N135_S1	0.44	13.3	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	10.0	0.1	1.9
N135_S2	2.00	60.6	7	1	0	8.0	1.1	0.0	0.1	0.0	0.0	1.2	3.4	0.6	0.7	0.1	1.3	0.1	0.7	0.4	2.8	0.0	0.0	18.0	0.2	8.5
N145	2.84	86.1	10	1	1	11.5	1.1	1.1	0.2	0.0	0.0	3.7	10.5	0.8	1.0	0.1	1.9	0.2	0.9	0.6	4.0	0.1	0.0	32.1	0.3	19.8
N165	12.68	384.2	43	2	6	49.4	2.3	6.9	0.9	0.1	0.2	19.4	55.8	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	149.0	1.2	30.4
N175_S3	0.46	13.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.0	2.3	6.5	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.0	0.0	10.1	0.1	0.7
APPLICANT PROPOSED ROUTE SEGMENTS																										
W819_S10	0.96	29.1	3	0	1	3.4	0.0	1.1	0.1	0.0	0.1	2.6	7.4	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	14.6	0.2	2.7
A-W26_S1	2.08	63.0	8	0	1	9.2	0.0	1.1	0.3	0.0	0.1	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.3	0.4	4.8
A-W26_S2	4.43	134.2	16	0	2	18.4	0.0	2.3	0.6	0.0	0.1	6.6	18.9	1.3	1.5	0.1	3.0	0.3	1.5	0.9	6.2	0.1	0.0	51.7	0.7	12.6
U40	8.17	247.6	32	0	1	36.7	0.0	1.1	1.2	0.0	0.1	6.8	19.5	2.4	2.8	0.3	5.4	0.5	2.7	1.6	11.4	0.2	0.0	79.7	1.3	23.2
U41	10.75	325.8	42	0	1	48.2	0.0	1.1	1.5	0.0	0.1	8.3	23.8	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	102.6	1.6	84.4
U45	3.00	90.9	11	0	1	12.6	0.0	1.1	0.4	0.0	0.1	3.8	10.8	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.2	0.1	0.0	32.8	0.5	7.2
U50	12.70	384.8	47	0	4	53.9	0.0	4.6	1.7	0.0	0.2	15.5	44.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	137.6	2.0	23.3
U55_S1	1.80	54.5	7	0	1	8.0	0.0	1.1	0.3	0.0	0.1	3.1	8.8	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	22.9	0.3	4.3
U55_S3	10.21	309.4	39	1	1	44.8	1.1	1.1	1.4	0.0	0.1	8.0	22.9	3.0	3.4	0.3	6.8	0.7	3.4	2.0	14.3	0.2	0.0	97.9	1.6	23.8
U55_S4	12.70	384.8	42	1	8	48.2	1.1	9.2	1.5	0.0	0.5	23.5	67.3	3.7	4.3	0.4	8.5	0.8	4.2	2.5	17.8	0.3	0.1	160.6	2.1	29.0
U55_S5	24.34	737.6	82	6	10	94.1	6.9	11.5	3.0	0.3	0.6	34.3	98.4	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.1	0.5	0.1	277.5	4.0	52.5
U55_S7	1.30	39.4	4	2	0	4.6	2.3	0.0	0.1	0.1	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.6	0.2	3.1
U55_S8	1.65	50.0	6	1	0	6.9	1.1	0.0	0.2	0.0	0.0	1.0	2.8	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.3	0.0	0.0	15.3	0.3	7.0
U55_S9	4.27	129.4	17	0	1	19.5	0.0	1.1	0.6	0.0	0.1	4.5	12.9	1.3	1.4	0.1	2.8	0.3	1.4	0.9	6.0	0.1	0.0	45.3	0.7	10.2
U55_S10	7.00	212.1	27	1	0	31.0	1.1	0.0	1.0	0.0	0.0	4.1	11.8	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	63.1	1.1	14.7
U55_S11	21.65	656.1	76	5	6	87.2	5.7	6.9	2.8	0.2	0.3	24.7	70.9	6.4	7.3	0.7	14.4	1.4	7.2	4.3	30.3	0.4	0.1	230.0	3.5	122.6
U55_S12	4.65	140.9	18	0	1	20.7	0.0	1.1	0.7	0.0	0.1	4.7	13.6	1.4	1.6	0.2	3.1	0.3	1.6	0.9	6.5	0.1	0.0	48.1	0.7	32.5
U55_S17	7.35	222.7	26	3	1	29.8	3.4	1.1	1.0	0.1	0.1	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	72.7	1.2	51.3
U55_S18	1.31	39.7	6	0	0	6.9	0.0	0.0	0.2	0.0	0.0	0.8	2.2	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	12.7	0.2	9.1
U55_S19	0.43	13.0	1	0	1	1.1	0.0	1.1	0.0	0.0	0.1	2.3	6.5	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	9.9	0.1	3.0
Nephi-SA	0.67	20.3	2	0	1	2.3	0.0	1.1	0.1	0.0	0.1	2.4	6.9	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	4.7
Nephi-NA	2.10	63.6	7	1	1	8.0	1.1	1.1	0.3	0.0	0.1	3.2	9.3	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.4	0.4	14.7
Nephi-NB_S1	17.23	522.1	60	1	8	68.9	1.1	9.2	2.2	0.0	0.5	26.1	74.9	5.1	5.8	0.6	11.5	1.1	5.7	3.4	24.1	0.3	0.1	201.3	2.8	36.6
U255_S1	19.32	585.5	75	0	3	86.1	0.0	3.4	1.5	0.0	0.1	17.3	49.7	5.7	6.5	0.6	12.9	1.3	6.4	3.9	27.0	0.4	0.1	192.1	1.7	30.0
U255_S2	18.42	558.2	67	4	3	76.9	4.6	3.4	1.4	0.1	0.1	16.8	48.2	5.4	6.2	0.6	12.3	1.2	6.1	3.7	25.8	0.4	0.1	183.6	1.7	28.9
U255_S3	0.20	6.1	1	0	0	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.0	2.0	0.0	0.5
U255_S4	1.72	52.1	6	0	1	6.9	0.0	1.1	0.1	0.0	0.0	3.0	8.6	0.5	0.6	0.1	1.1	0.1	0.6	0.3	2.4	0.0	0.0	21.4	0.2	4.9
U255_S5	3.41	103.3	10	1	3	11.5	1.1	3.4	0.2	0.0	0.1	8.0	23.0	1.0	1.1	0.1	2.3	0.2	1.1	0.7	4.8	0.1	0.0	48.4	0.3	24.7
U255_S5.1	4.12	124.8	15	1	1	17.2	1.1	1.1	0.3	0.0	0.0	4.4	12.7	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.8	0.1	0.0	43.5	0.4	10.1
U255_S6	5.76	174.5	18	2	4	20.7	2.3	4.6	0.4	0.1	0.1	11.4	32.7	1.7	1.9	0.2	3.8	0.4	1.9	1.2	8.1	0.1	0.0	76.0	0.6	24.6
U255_S7	2.67	80.9	10	1	0	11.5	1.1	0.0	0.2	0.0	0.0	1.6	4.5	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.7	0.1	0.0	24.4	0.2	21.0
U255_S8	2.86	86.7	10	1	1	11.5	1.1	1.1	0.2	0.0	0.0	3.7	10.6	0.8	1.0	0.1	1.9	0.2	1.0	0.6	4.0	0.1	0.0	32.2	0.3	13.7
A-U255_S9	0.26	7.9	0	0	2	0.0	0.0	2.3	0.0	0.0	0.1	4.2	11.9	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	14.9	0.1	1.2
A-U255_S10	0.74	22.4	0	2	1	0.0	2.3	1.1	0.0	0.1	0.0	2.4	7.0	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.5	0.1	3.6
A-U255_S10.1	0.25	7.6	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	8.0	0.0	2.0
U255_S9	1.60	48.5	5	1	1	5.7	1.1	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	6.8
U255_S10	0.71	21.5	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	3.0
U255_S11	0.32	9.7	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.7	0.0	1.4
U255_S12	0.85	25.8	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.5	1.4	0.2	0.3	0.0	0.6	0.1	0.3	0.2	1.2	0.0	0.0	8.3	0.1	5.9
U255_S13	30.13	913.0	111	5	5	127.4	5.7	5.7	2.3	0.1	0.1	27.7	79.4	8.8	10.1	1.0	20.1	2.0	10.0	6.0	42.2	0.6	0.1	300.8	2.7	128.2
N45	11.93	361.5	46	1	1	52.8	1.1	1.1	1.0	0.0	0.0	9.0	25.8	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.7	0.2	0.1	113.6	1.1	18.5
N50_S2	24.98	757.0	94	3	3	107.9	3.4	3.4	1.9	0.1	0.1	20.7	59.3	7.3	8.4	0.8	16.7	1.7	8.3	5.0	35.0	0.5	0.1	242.4	2.2	109.0
N50_S3	11.98	363.0	46	1	1	52.8	1.1	1.1	1.0	0.0	0.0	9.0	25.9	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	113.8	1.1	31.3
N70	11.48	347.9	44	0	2	50.5	0.0	2.3	0.9	0.0	0.1	10.7	30.8	3.4	3.9	0.4	7.7	0.8	3.8	2.3	16.1	0.2	0.1	115.0	1.0	28.2

Table A-7 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 3

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
AGENCY PREFERRED ROUTE SEGMENTS																										
W819_S9	2.05	62.1	7	1	1	8.0	1.1	1.1	0.3	0.0	0.1	3.2	9.2	0.6	0.7	0.1	1.4	0.1	0.7	0.4	2.9	0.0	0.0	25.1	0.4	9.8
W115.07.1	2.47	74.85	9	0	1	10.3	0.0	1.1	0.3	0.0	0.1	3.4	9.9	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.5	0.0	0.0	28.1	0.4	5.7
A-W28_S2	3.79	114.8	15	0	1	17.2	0.0	1.1	0.6	0.0	0.1	4.2	12.1	1.1	1.3	0.1	2.5	0.3	1.3	0.8	5.3	0.1	0.0	40.9	0.6	10.7
A-W28_S3	1.12	33.9	4	0	1	4.6	0.0	1.1	0.1	0.0	0.1	2.7	7.6	0.3	0.4	0.0	0.7	0.1	0.4	0.2	1.6	0.0	0.0	16.4	0.2	3.2
U35_S1	2.70	81.8	9	0	2	10.3	0.0	2.3	0.3	0.0	0.1	5.6	16.0	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.8	0.1	0.0	36.0	0.5	6.5
U35_S2	7.21	218.5	26	1	2	29.8	1.1	2.3	1.0	0.0	0.1	8.2	23.6	2.1	2.4	0.2	4.8	0.5	2.4	1.4	10.1	0.1	0.0	76.6	1.1	26.2
U36_S1	7.37	223.33	27	2	1	31.0	2.3	1.1	1.0	0.1	0.1	6.3	18.1	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.3	0.1	0.0	72.8	1.2	19.7
U217.01	76.80	2327.27	269	10	29	308.8	11.5	33.3	9.9	0.5	1.7	103.1	295.7	22.5	25.9	2.6	51.2	5.1	25.6	15.4	107.5	1.5	0.4	859.4	12.4	290.1
U218	11.97	362.73	38	3	7	43.6	3.4	8.0	1.4	0.1	0.4	21.0	60.3	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	148.2	2.0	94.0
U219.1	0.60	18.18	2	0	1	2.3	0.0	1.1	0.1	0.0	0.1	2.4	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.8	0.1	2.9
U219.3	1.47	44.55	6	0	0	6.9	0.0	0.0	0.2	0.0	0.0	0.9	2.5	0.4	0.5	0.0	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.4	0.2	3.4
U219.5	16.83	510.0	52	2	14	59.7	2.3	16.1	1.9	0.1	0.8	37.9	108.7	4.9	5.7	0.6	11.2	1.1	5.6	3.4	23.6	0.3	0.1	232.8	2.9	118.9
U219.6	4.56	138.2	14	0	5	16.1	0.0	5.7	0.5	0.0	0.3	12.7	36.4	1.3	1.5	0.2	3.0	0.3	1.5	0.9	6.4	0.1	0.0	70.7	0.8	21.9
U217.052	15.82	479.39	53	4	7	60.8	4.6	8.0	1.9	0.2	0.4	23.3	66.8	4.6	5.3	0.5	10.5	1.1	5.3	3.2	22.1	0.3	0.1	183.6	2.6	101.3
Nephi-SA-S	0.65	19.70	2	0	1	2.3	0.0	1.1	0.1	0.0	0.1	2.4	6.8	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	5.1
Nephi-SB	4.16	126.06	13	2	2	14.9	2.3	2.3	0.5	0.1	0.1	6.4	18.5	1.2	1.4	0.1	2.8	0.3	1.4	0.8	5.8	0.1	0.0	49.4	0.7	32.7
U115b	5.60	169.70	22	0	1	25.3	0.0	1.1	0.8	0.0	0.1	5.3	15.2	1.6	1.9	0.2	3.7	0.4	1.9	1.1	7.8	0.1	0.0	56.9	0.9	14.6
U120	4.30	130.30	18	0	0	20.7	0.0	0.0	0.7	0.0	0.0	2.5	7.2	1.3	1.4	0.1	2.9	0.3	1.4	0.9	6.0	0.1	0.0	39.7	0.7	33.8
U260_S1	14.10	427.27	56	0	1	64.3	0.0	1.1	1.2	0.0	0.0	10.3	29.5	4.1	4.7	0.5	9.4	0.9	4.7	2.8	19.7	0.3	0.1	133.5	1.3	32.8
U260_S2	40.77	1235.45	154	3	7	176.8	3.4	8.0	3.2	0.1	0.3	37.9	108.8	12.0	13.7	1.4	27.2	2.7	13.6	8.2	57.1	0.8	0.2	408.6	3.7	94.9
N10	1.60	48.48	6	0	1	6.9	0.0	1.1	0.1	0.0	0.0	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.2	3.7
N805	15.22	461.21	57	1	3	65.4	1.1	3.4	1.2	0.0	0.1	14.9	42.8	4.5	5.1	0.5	10.1	1.0	5.1	3.0	21.3	0.3	0.1	154.5	1.4	51.0
N808	41.29	1251.21	146	7	13	167.6	8.0	14.9	3.0	0.2	0.5	50.2	144.1	12.1	13.9	1.4	27.5	2.8	13.8	8.3	57.8	0.8	0.2	447.7	3.9	146.1
N35A	22.47	680.91	84	3	3	96.4	3.4	3.4	1.7	0.1	0.1	19.2	55.0	6.6	7.6	0.7	15.0	1.5	7.5	4.5	31.5	0.4	0.1	219.8	2.0	34.9
N40A	16.14	489.09	60	1	4	68.9	1.1	4.6	1.2	0.0	0.1	17.5	50.1	4.7	5.4	0.5	10.8	1.1	5.4	3.2	22.6	0.3	0.1	168.9	1.5	25.0
N90A	2.66	80.61	10	0	1	11.5	0.0	1.1	0.2	0.0	0.0	3.6	10.2	0.8	0.9	0.1	1.8	0.2	0.9	0.5	3.7	0.1	0.0	30.1	0.3	4.1
N75	7.02	212.73	26	2	1	29.8	2.3	1.1	0.5	0.1	0.0	6.1	17.6	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	70.1	0.7	10.9
ALTERNATIVE ROUTE SEGMENTS																										
W15_S1	22.02	667.3	75	7	7	86.1	8.0	8.0	2.8	0.3	0.4	26.9	77.2	6.5	7.4	0.7	14.7	1.5	7.3	4.4	30.8	0.4	0.1	239.7	3.6	51.2
W15_S2	16.42	497.6	59	3	4	67.7	3.4	4.6	2.2	0.1	0.2	17.6	50.6	4.8	5.5	0.5	10.9	1.1	5.5	3.3	23.0	0.3	0.1	171.3	2.6	38.2
W15_S3	2.32	70.3	9	1	0	10.3	1.1	0.0	0.3	0.0	0.0	1.4	3.9	0.7	0.8	0.1	1.5	0.2	0.8	0.5	3.2	0.0	0.0	21.7	0.4	5.4
W65	8.27	250.6	32	1	1	36.7	1.1	1.1	1.2	0.0	0.1	6.9	19.7	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	81.3	1.3	23.5
W115.01	0.45	13.6	1	0	1	1.1	0.0	1.1	0.0	0.0	0.1	2.3	6.5	0.1	0.2	0.0	0.3	0.0	0.2	0.1	0.6	0.0	0.0	10.0	0.1	1.0
W115.02	1.50	45.5	6	0	0	6.9	0.0	0.0	0.2	0.0	0.0	0.9	2.5	0.4	0.5	0.1	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.5	0.2	3.5
W115.03	0.36	10.9	1	0	1	1.1	0.0	1.1	0.0	0.0	0.1	2.2	6.3	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.0	9.6	0.1	0.9
W115.04	12.14	367.9	45	3	1	51.7	3.4	1.1	1.7	0.1	0.1	9.1	26.2	3.6	4.1	0.4	8.1	0.8	4.0	2.4	17.0	0.2	0.1	115.6	1.9	28.3
W115.07	1.77	53.6	7	1	0	8.0	1.1	0.0	0.3	0.0	0.0	1.0	3.0	0.5	0.6	0.1	1.2	0.1	0.6	0.4	2.5	0.0	0.0	17.0	0.3	4.1
W819_S2	1.50	45.5	5	1	0	5.7	1.1	0.0	0.2	0.0	0.0	0.9	2.5	0.4	0.5	0.1	1.0	0.1	0.5	0.3	2.1	0.0	0.0	13.5	0.2	3.7
W819_S3	1.43	43.3	4	1	1	4.6	1.1	1.1	0.1	0.0	0.1	2.8	8.1	0.4	0.5	0.0	1.0	0.1	0.5	0.3	2.0	0.0	0.0	18.9	0.3	3.3
A-W19_S1	11.17	338.5	37	7	1	42.5	8.0	1.1	1.4	0.3	0.1	8.6	24.5	3.3	3.8	0.4	7.4	0.7	3.7	2.2	15.6	0.2	0.1	106.8	1.8	26.0
A-W19_S2	15.54	470.9	58	1	4	66.6	1.1	4.6	2.1	0.0	0.2	17.1	49.1	4.6	5.2	0.5	10.4	1.0	5.2	3.1	21.8	0.3	0.1	164.0	2.5	36.2
C10	11.14	337.6	43	1	1	49.4	1.1	1.1	1.6	0.0	0.1	8.5	24.5	3.3	3.8	0.4	7.4	0.7	3.7	2.2	15.6	0.2	0.1	106.6	1.7	31.6
C65	11.44	346.7	41	1	4	47.1	1.1	4.6	1.5	0.0	0.2	14.7	42.2	3.4	3.9	0.4	7.6	0.8	3.8	2.3	16.0	0.2	0.1	126.3	1.8	54.9
C100	24.25	734.8	89	2	6	102.2	2.3	6.9	3.3	0.1	0.3	26.2	75.3	7.1	8.2	0.8	16.2	1.6	8.1	4.9	34.0	0.5	0.1	253.0	3.8	60.4
C110	11.98	363.0	46	1	1	52.8	1.1	1.1	1.7	0.0	0.1	9.0	25.9	3.5	4.0	0.4	8.0	0.8	4.0	2.4	16.8	0.2	0.1	113.8	1.8	21.1
C802	21.41	648.8	80	3	3	91.8	3.4	3.4	2.9	0.1	0.2	18.6	53.3	6.3	7.2	0.7	14.3	1.4	7.1	4.3	30.0	0.4	0.1	210.6	3.3	102.8
C804	4.02	121.8	10	1	6	11.5	1.1	6.9	0.4	0.0	0.3	14.4	41.2	1.2	1.4	0.1	2.7	0.3	1.3	0.8	5.6	0.1	0.0	71.7	0.8	11.4
A-C56_S1	0.56	17.0	2	0	1	2.3	0.0	1.1	0.1	0.0	0.1	2.3	6.7	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.8	0.0	0.0	11.7	0.1	1.6
A-C56_S2	0.76	23.0	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.4	1.3	0.2	0.3	0.0	0.5	0.1	0.3	0.2	1.1	0.0	0.0	8.0	0.2	2.2
A-C56_S3	1.29	39.1	4	1	1	4.6	1.1	1.1	0.1	0.0	0.1	2.8	7.9	0.4	0.4	0.0	0.9	0.1	0.4	0.3	1.8	0.0	0.0	18.3	0.3	3.0
A-C56_S4	0.27	8.2	2	0	0	2.3	0.0	0.0	0.1	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.1	0.8
A-C56_S5	4.79	145.2	18	0	2	20.7	0.0	2.3	0.7	0.0	0.1	6.8	19.5	1.4	1.6	0.2	3.2	0.3	1.6	1.0	6.7	0.1	0.0	55.6	0.8	13.6
A-C57	2.33	70.6	9	0	1	10.3	0.0	1.1	0.3	0.0	0.1	3.4	9.7	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.3	0.0	0.0	27.5	0.4	6.6
TE-A1	0.30	9.09	1	0	1	1.1	0.0	1.1	0.0	0.0	0.1	2.2	6.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	9.4	0.1	0.7
TE-B_S7	1.62	49.1	6	0	1	6.9	0.0	1.1	0.2	0.0	0.1	3.0	8.5	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.3	0.0	0.0	20.9	0.3	7.8

Table A-7 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 3

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
C195	5.19	157.3	19	0	2	21.8	0.0	2.3	0.7	0.0	0.1	7.0	20.2	1.5	1.7	0.2	3.5	0.3	1.7	1.0	7.3	0.1	0.0	58.5	0.8	13.2
C800_S1	7.69	233.0	28	2	1	32.1	2.3	1.1	1.0	0.1	0.1	6.5	18.7	2.3	2.6	0.3	5.1	0.5	2.6	1.5	10.8	0.2	0.0	75.3	1.2	54.9
C800_S2	19.26	583.6	72	3	3	82.6	3.4	3.4	2.6	0.1	0.2	17.3	49.6	5.6	6.5	0.6	12.8	1.3	6.4	3.9	27.0	0.4	0.1	191.9	3.0	54.6
C800_S3	46.87	1420.3	156	9	23	179.1	10.3	26.4	5.7	0.4	1.3	73.5	210.9	13.7	15.8	1.6	31.2	3.1	15.6	9.4	65.6	0.9	0.2	555.0	7.7	182.0
TE-A_S1	8.38	253.9	32	1	1	36.7	1.1	1.1	1.2	0.0	0.1	6.9	19.8	2.5	2.8	0.3	5.6	0.6	2.8	1.7	11.7	0.2	0.0	81.8	1.3	36.3
U36	9.58	290.3	35	2	2	40.2	2.3	2.3	1.3	0.1	0.1	9.6	27.6	2.8	3.2	0.3	6.4	0.6	3.2	1.9	13.4	0.2	0.0	98.6	1.5	42.1
A-U56_S5	7.41	224.5	28	0	2	32.1	0.0	2.3	1.0	0.0	0.1	8.3	24.0	2.2	2.5	0.2	4.9	0.5	2.5	1.5	10.4	0.1	0.0	78.7	1.2	21.0
U55_S13	1.93	58.5	7	0	1	8.0	0.0	1.1	0.3	0.0	0.1	3.1	9.0	0.6	0.6	0.1	1.3	0.1	0.6	0.4	2.7	0.0	0.0	23.5	0.3	13.5
U55_S14	2.54	77.0	11	0	0	12.6	0.0	0.0	0.4	0.0	0.0	1.5	4.3	0.7	0.9	0.1	1.7	0.2	0.8	0.5	3.6	0.1	0.0	23.9	0.4	17.7
U55_S15	2.59	78.5	8	0	3	9.2	0.0	3.4	0.3	0.0	0.2	7.5	21.6	0.8	0.9	0.1	1.7	0.2	0.9	0.5	3.6	0.1	0.0	41.3	0.5	18.1
U55_S16	0.23	7.0	0	0	1	0.0	0.0	1.1	0.0	0.0	0.1	2.1	6.1	0.1	0.1	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.0	7.9	0.1	1.6
U60	77.84	2358.8	290	11	11	332.9	12.6	12.6	10.7	0.5	0.6	67.7	194.2	22.8	26.2	2.6	51.9	5.2	25.9	15.6	109.0	1.6	0.4	765.3	12.2	190.7
U75	1.93	58.5	8	0	0	9.2	0.0	0.0	0.3	0.0	0.0	1.1	3.2	0.6	0.6	0.1	1.3	0.1	0.6	0.4	2.7	0.0	0.0	17.7	0.3	5.5
U75A	13.20	400.0	50	1	2	57.4	1.1	2.3	1.8	0.0	0.1	11.7	33.7	3.9	4.4	0.4	8.8	0.9	4.4	2.6	18.5	0.3	0.1	130.7	2.1	22.8
U85A	98.93	2997.9	352	18	26	404.0	20.7	29.8	12.9	0.8	1.5	110.0	315.8	29.0	33.3	3.3	66.0	6.6	33.0	19.8	138.5	2.0	0.5	1041.1	15.7	350.1
U90_S1	10.78	326.7	39	1	4	44.8	1.1	4.6	1.4	0.0	0.2	14.3	41.1	3.2	3.6	0.4	7.2	0.7	3.6	2.2	15.1	0.2	0.0	121.1	1.8	28.5
U90_S2	50.26	1523.0	154	18	30	176.8	20.7	34.4	5.7	0.8	1.7	89.5	256.8	14.7	16.9	1.7	33.5	3.4	16.8	10.1	70.4	1.0	0.2	626.2	8.4	298.8
U135_S1	14.69	445.15	53	3	3	60.8	3.4	3.4	1.9	0.1	0.2	14.6	41.9	4.3	4.9	0.5	9.8	1.0	4.9	2.9	20.6	0.3	0.1	149.9	2.3	43.7
U135_S2	13.22	400.61	48	3	2	55.1	3.4	2.3	1.8	0.1	0.1	11.8	33.7	3.9	4.5	0.4	8.8	0.9	4.4	2.6	18.5	0.3	0.1	130.7	2.1	24.8
U140	3.63	110.0	13	0	2	14.9	0.0	2.3	0.5	0.0	0.1	6.1	17.6	1.1	1.2	0.1	2.4	0.2	1.2	0.7	5.1	0.1	0.0	44.7	0.6	8.4
U145_S1	7.94	240.61	31	0	1	35.6	0.0	1.1	1.1	0.0	0.1	6.7	19.1	2.3	2.7	0.3	5.3	0.5	2.6	1.6	11.1	0.2	0.0	77.6	1.2	12.3
U200	38.16	1156.4	141	3	9	161.8	3.4	10.3	5.2	0.1	0.5	40.4	115.9	11.2	12.8	1.3	25.4	2.5	12.7	7.6	53.4	0.8	0.2	395.9	6.0	97.2
U217.02	16.03	485.8	49	5	11	56.2	5.7	12.6	1.8	0.2	0.6	31.4	90.1	4.7	5.4	0.5	10.7	1.1	5.3	3.2	22.4	0.3	0.1	208.6	2.7	89.2
U217.03	0.94	28.5	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.6	1.6	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.2	7.4
U217.051	20.30	615.2	76	3	3	87.2	3.4	3.4	2.8	0.1	0.2	17.9	51.4	6.0	6.8	0.7	13.5	1.4	6.8	4.1	28.4	0.4	0.1	201.1	3.2	67.4
U217.10	20.87	632.4	61	9	14	70.0	10.3	16.1	2.2	0.4	0.8	40.2	115.5	6.1	7.0	0.7	13.9	1.4	7.0	4.2	29.2	0.4	0.1	269.0	3.6	98.9
U217.15	36.37	1102.1	118	12	16	135.4	13.8	18.4	4.3	0.6	0.9	53.3	153.1	10.7	12.2	1.2	24.2	2.4	12.1	7.3	50.9	0.7	0.2	420.2	6.0	213.4
U219.2	19.79	599.70	51	11	18	58.5	12.6	20.7	1.9	0.5	1.0	47.6	136.6	5.8	6.7	0.7	13.2	1.3	6.6	4.0	27.7	0.4	0.1	282.6	3.5	140.2
U219.4	1.60	48.5	5	1	1	5.7	1.1	1.1	0.2	0.0	0.1	2.9	8.4	0.5	0.5	0.1	1.1	0.1	0.5	0.3	2.2	0.0	0.0	20.8	0.3	12.6
U222.05	41.20	1248.5	150	9	6	172.2	10.3	6.9	5.5	0.4	0.3	36.2	103.8	12.1	13.9	1.4	27.5	2.7	13.7	8.2	57.7	0.8	0.2	405.9	6.5	81.9
U222.10	14.16	429.1	48	3	6	55.1	3.4	6.9	1.8	0.1	0.3	20.3	58.3	4.2	4.8	0.5	9.4	0.9	4.7	2.8	19.8	0.3	0.1	162.5	2.3	53.3
U223.00	18.16	550.3	60	7	6	68.9	8.0	6.9	2.2	0.3	0.3	22.7	65.0	5.3	6.1	0.6	12.1	1.2	6.1	3.6	25.4	0.4	0.1	198.5	3.0	64.4
U225	38.41	1163.9	136	3	15	156.1	3.4	17.2	5.0	0.1	0.9	52.5	150.8	11.3	12.9	1.3	25.6	2.6	12.8	7.7	53.8	0.8	0.2	432.6	6.2	106.8
U325.1	43.28	1311.5	136	14	24	156.1	16.1	27.5	5.0	0.7	1.4	73.4	210.6	12.7	14.6	1.4	28.9	2.9	14.4	8.7	60.6	0.9	0.2	528.8	7.2	136.6
U325.2	4.12	124.8	12	3	2	13.8	3.4	2.3	0.4	0.1	0.1	6.4	18.4	1.2	1.4	0.1	2.7	0.3	1.4	0.8	5.8	0.1	0.0	49.2	0.7	28.8
U821	24.04	728.5	92	1	4	105.6	1.1	4.6	3.4	0.0	0.2	22.1	63.4	7.1	8.1	0.8	16.0	1.6	8.0	4.8	33.7	0.5	0.1	240.6	3.8	65.5
U145_S2	9.51	288.18	34	2	3	39.0	2.3	3.4	0.7	0.1	0.1	11.6	33.2	2.8	3.2	0.3	6.3	0.6	3.2	1.9	13.3	0.2	0.0	104.0	0.9	14.8
U155-165	35.93	1088.8	140	0	4	160.7	0.0	4.6	2.9	0.0	0.1	29.1	83.4	10.5	12.1	1.2	24.0	2.4	12.0	7.2	50.3	0.7	0.2	347.1	3.2	62.5
Ox_Vly_Conn	0.65	19.7	1	1	1	1.1	1.1	1.1	0.0	0.0	0.0	2.4	6.8	0.2	0.2	0.0	0.4	0.0	0.2	0.1	0.9	0.0	0.0	12.1	0.1	1.8
U256_S1	7.00	212.1	25	1	2	28.7	1.1	2.3	0.5	0.0	0.1	8.1	23.3	2.1	2.4	0.2	4.7	0.5	2.3	1.4	9.8	0.1	0.0	74.6	0.7	33.6
U256_S2	6.60	200.0	22	1	4	25.3	1.1	4.6	0.5	0.0	0.1	11.9	34.1	1.9	2.2	0.2	4.4	0.4	2.2	1.3	9.2	0.1	0.0	83.1	0.7	31.7
U256_S3	9.25	280.3	30	1	6	34.4	1.1	6.9	0.6	0.0	0.2	17.4	50.0	2.7	3.1	0.3	6.2	0.6	3.1	1.9	13.0	0.2	0.0	117.8	0.9	72.7
U495	7.64	231.5	29	0	2	33.3	0.0	2.3	0.6	0.0	0.1	8.5	24.3	2.2	2.6	0.3	5.1	0.5	2.5	1.5	10.7	0.2	0.0	80.8	0.7	17.8
U506.01	28.56	865.5	97	2	16	111.3	2.3	18.4	2.0	0.1	0.6	48.8	139.9	8.4	9.6	1.0	19.0	1.9	9.5	5.7	40.0	0.6	0.1	350.1	2.8	111.1
N35B	3.05	92.4	10	0	3	11.5	0.0	3.4	0.2	0.0	0.1	7.8	22.4	0.9	1.0	0.1	2.0	0.2	1.0	0.6	4.3	0.1	0.0	45.6	0.3	8.7
N65	9.72	294.5	37	0	2	42.5	0.0	2.3	0.8	0.0	0.1	9.7	27.8	2.9	3.3	0.3	6.5	0.6	3.2	1.9	13.6	0.2	0.0	99.2	0.9	23.1
N80	3.62	109.7	13	0	2	14.9	0.0	2.3	0.3	0.0	0.1	6.1	17.6	1.1	1.2	0.1	2.4	0.2	1.2	0.7	5.1	0.1	0.0	44.7	0.4	8.4
N85	19.34	586.1	70	0	8	80.3	0.0	9.2	1.4	0.0	0.3	27.3	78.5	5.7	6.5	0.6	12.9	1.3	6.4	3.9	27.1	0.4	0.1	220.9	1.8	49.8
N806	124.76	3780.6	477	6	17	547.5	6.9	19.5	9.9	0.2	0.6	107.2	307.6	36.6	42.0	4.2	83.2	8.3	41.6	25.0	174.7	2.5	0.6	1223.0	11.2	342.9
N115	0.92	27.9	4	0	0	4.6	0.0	0.0	0.1	0.0	0.0	0.5	1.5	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	8.7	0.1	2.1
N117	3.87	117.3	16	0	0	18.4	0.0	0.0	0.3	0.0	0.0	2.3	6.5	1.1	1.3	0.1	2.6	0.3	1.3	0.8	5.4	0.1	0.0	35.5	0.3	14.6
N118	5.42	164.2	17	1	4	19.5	1.1	4.6	0.4	0.0	0.1	11.2	32.1	1.6	1.8	0.2	3.6	0.4	1.8	1.1	7.6	0.1	0.0	72.2	0.6	26.0
N125_S1	8.31	251.8	29	2	3	33.3	2.3	3.4	0.6	0.1	0.1	10.9	31.2	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	93.0	0.8	37.3
N125_S2	0.42	12.7	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	4.2	0.0	1.0
N130	4.18	126.7	14	0	3	16.1	0.0	3.4	0.3	0.0	0.1	8.5	24.3	1.2	1.4	0.1	2.8	0.3	1.4	0.8	5.9	0.1	0.0	55.2	0.4	20.1
N140	8.06	244.2	24	3	6	27.5	3.4	6.9	0.5	0.1	0.2	16.7	48.0	2.4	2.7	0.3	5.4	0.5	2.7	1.6	11.3	0.2	0.0	107.9	0.8	57.2
N150	20.59	623.9	72	2	9	82.6	2.3	10.3	1.5	0.1	0.3	30.1	86.3	6.0	6.9	0.7	13.7	1.4	6.9	4.1	28.8	0.4	0.1	237.9	2.0	44.1
N155	8.31	251.8	27	3	4	31.0	3.4	4.6	0.6	0.1	0.1	12.9	36.9	2.4	2.8	0.3	5.5	0.6	2.8	1.7	11.6	0.2	0.0	98.7	0.8	27.1
N160	3.79	114.8	12	1	3	13.8	1.1	3.4	0.2	0.0	0.1	8.2	23.6	1.1	1.3	0.1	2.5	0.3	1.3	0.8	5.3	0.1	0.0	52.3	0.4	16.2

Table A-7 Summary of Temporary and Permanent Disturbance by TWE Transmission Line Route Segment - Design Option 3

Route Segment ID	Total Line Length (miles)	Total ROW (acres)	Approximate Structures (number)			Structure Work Area (acres)			Structure Base (acres)			Pulling / Tensioning / Splicing Sites				Material Storage Yards		Batch Plants		Fly Yards / Staging Areas		Fiber Optic Comm. & Regen. Sites		Temporary Disturbance (acres)	Permanent Disturbance (acres)	New Access Roads Disturbance (acres)
												Wire		Fiber												
			Tangent	Angle	DE	Tangent	Angle	DE	Tangent	Angle	DE	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres			
N170	0.93	28.2	2	1	1	2.3	1.1	1.1	0.0	0.0	0.0	2.5	7.3	0.3	0.3	0.0	0.6	0.1	0.3	0.2	1.3	0.0	0.0	14.4	0.1	1.4
N170A	8.00	242.4	29	0	3	33.3	0.0	3.4	0.6	0.0	0.1	10.7	30.7	2.3	2.7	0.3	5.3	0.5	2.7	1.6	11.2	0.2	0.0	89.3	0.7	18.6
N175_S1	7.10	215.2	26	2	1	29.8	2.3	1.1	0.5	0.1	0.0	6.2	17.7	2.1	2.4	0.2	4.7	0.5	2.4	1.4	9.9	0.1	0.0	70.4	0.7	11.0
N175_S2	0.27	8.2	2	0	0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.4	0.0	0.0	3.5	0.0	0.4
N175_S4	0.70	21.2	2	0	1	2.3	0.0	1.1	0.0	0.0	0.0	2.4	6.9	0.2	0.2	0.0	0.5	0.0	0.2	0.1	1.0	0.0	0.0	12.3	0.1	1.1
Gyp_opn_Conn	0.17	5.2	0	0	1	0.0	0.0	1.1	0.0	0.0	0.0	2.1	6.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	7.6	0.0	0.4
Gyp_opn	0.41	12.4	0	1	1	0.0	1.1	1.1	0.0	0.0	0.0	2.2	6.4	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.6	0.0	0.0	9.8	0.1	1.0
NRA-rt_S1	2.42	73.3	7	1	2	8.0	1.1	2.3	0.1	0.0	0.1	5.4	15.6	0.7	0.8	0.1	1.6	0.2	0.8	0.5	3.4	0.0	0.0	33.7	0.3	7.2
NRA-rt_S2	2.77	83.9	9	0	3	10.3	0.0	3.4	0.2	0.0	0.1	7.6	21.9	0.8	0.9	0.1	1.8	0.2	0.9	0.6	3.9	0.1	0.0	43.2	0.3	7.9

Notes: TUA - Temporary Use Areas (structure work sites, pulling/tensioning sites, material storage yards, batch plants, fly yards and staging areas)

* Rows highlighted in blue text indicate segments that are assumed to have 600 kV HVDC structures but the line operating as a single circuit 500 kV AC transmission line (Phase 1).
* All structures are assumed to be Self Supporting Lattice.
* Splicing areas are included with the Pulling/Tensioning Sites per common construction practices.
* Material Storage Yards have a disturbance area of 20 acres.
* Batch Plants have a disturbance area of 5 acres.
* Fly Yards/Staging Areas have a disturbance area of 7 acres.
* Temporary disturbance areas for Structure Work Areas and Pulling/Tensioning/Splicing Sites are within the 250 feet wide ROW

Structures per mile -	Approximately		4				
Right-of-Way Width (ROW) -			250	feet			
Structure Work Area -	ROW	x	200	feet			
Wire-Pulling, Tensioning, Splicing Site							
Dead-End (DE) Structure -	ROW	x	500	feet	2 @ every DE Structure		
Mid-Span Conductor and Shield Wire -	ROW	x	500	feet	Every	9,000	feet
Fiber Optic Cable Set-Up Sites -	100	x	500	feet	Every	18,000	feet
Material Storage Yards -	Approximately		20	Acres	Every	30	miles
Batch Plant Sites - Stand-alone, Temporary -	Approximately		5	Acres	Every	15	miles
Fly Yards / Staging Areas -	Approximately		7	Acres	Every	5	miles
Structure Base (600 kV HVDC Towers)							
Lattice Tower (Tangent) -	30	x	30	feet			
Lattice Tower (Angle) -	35	x	35	feet			
Lattice Tower (Dead End) -	40	x	40	feet			
Structure Base (600 kV HVDC Line operated as Single Circuit 500 kV AC line)							
Lattice Tower (Tangent) -	40	x	40	feet			
Lattice Tower (Angle) -	45	x	45	feet			
Lattice Tower (Dead End) -	50	x	50	feet			
Regeneration Sites (most located on ROW) -	100	x	100	feet	Every	50	miles