

APPENDIX H – SOUND LEVEL MODELING ANALYSIS

Dakota Range III: Sound Modeling Results, V136-4.3 MW, 105m hub height

Receptor ID	Coordinates		County	Participation Status	Occupancy Status	Receptor Type	Source Only		Name
	UTM NAD83 Zone 14N X (m)	UTM NAD83 Zone 14N Y (m)					Leq Broadband Sound Level (dBA)	Exceed 50 dBA?	
2554	643750.4386	5016047.796	Grant	Non-Participating	Occupied	House	32.7	No	ZIRBEL BROTHERS LLC
2496	643667.6153	5012693.364	Grant	Non-Participating	Occupied	House	29.5	No	BRONSON,LESLIE
2271	646356.2598	5011253.606	Grant	Non-Participating	Occupied	House	37.3	No	WEYH,CURTIS A & CINDY L
2423	643933.9552	5009635.419	Grant	Non-Participating	Occupied	House	26.5	No	BRINK,DALE V & GLORIAJEAN TR
2424	643946.3938	5009641.328	Grant	Non-Participating	Occupied	House	26.5	No	BRINK,DALE V & GLORIAJEAN TR
2975	643939.3418	5009639.681	Grant	Non-Participating	Occupied	House	26.5	No	BRINK,DALE V & GLORIAJEAN TR
846	652438.6481	5016205.549	Grant	Non-Participating	Occupied	House	30.9	No	ARTEN,JAMES A & DONNA J
778	651881.1501	5014455.086	Grant	Non-Participating	Occupied	House	32.1	No	STEUCK,ROGER & JOSEPHINE
2973	649025.0546	5010906.203	Grant	Non-Participating	Occupied	House	40.6	No	NELSON,DUSTIN
2205	650503.2622	5009033.741	Grant	Non-Participating	Occupied	House	30.2	No	REDLIN,FRANK A & BRENDA L
2193	652045.2254	5009239.108	Grant	Non-Participating	Occupied	House	25.6	No	KANE,LORETTA
2195	650621.2904	5009376.364	Grant	Non-Participating	Occupied	House	30.9	No	LEE,TERRANCE I
1095	653878.9226	5019204.819	Roberts	Non-Participating	Occupied	House	30.8	No	TODD A ERLBUSCH, ETAL
1036	645562.0354	5018101.978	Roberts	Non-Participating	Occupied	House	41.5	No	MONTY A & NANCY K PEARSON
1098	654293.6578	5019607.648	Roberts	Non-Participating	Occupied	House	29.1	No	CORRIE & KARIN QUALE
1072	645356.9851	5021362.708	Roberts	Non-Participating	Occupied	House	38.1	No	TERRY LIEN
1097	654050.9021	5019609.633	Roberts	Non-Participating	Occupied	House	29.9	No	PAUL R O'FARRELL, VICKY O'FARRELL
1024	652007.0998	5018428.617	Roberts	Non-Participating	Occupied	House	42	No	MARK J OHNSTAD; KAREN J ROBINSON, ETAL
1220	653401.7209	5022226.377	Roberts	Non-Participating	Occupied	House	27.8	No	CORRIE & KARIN QUALE
802	643977.6596	5016340.387	Grant	Non-Participating	Occupied	House	34.5	No	ZIRBEL,DAVID & CHERYL LV TR
801	643999.4879	5016084.402	Grant	Non-Participating	Occupied	House	33.5	No	FERDINAND & SUSAN ZIRBEL LV
2521	644116.2489	5010595.94	Grant	Non-Participating	Occupied	House	27.6	No	RICHTER,ALLEN R & BETH B
671	654440.6592	5017764.626	Grant	Non-Participating	Occupied	House	27.4	No	WOHLLEBER BROTHERS
776	651813.152	5014591.347	Grant	Non-Participating	Occupied	House	32.4	No	QUALE,ANGELA R
777	651778.2269	5014579.176	Grant	Non-Participating	Occupied	House	32.5	No	QUALE,ANGELA R
2244	651399.8447	5010537.187	Grant	Non-Participating	Occupied	House	30.3	No	KANE,GORDON & SHERI
2242	648974.0928	5010822.911	Grant	Non-Participating	Occupied	House	40.8	No	LOWE,LAWRENCE L & JACQUELYN
2243	650458.0896	5010135.554	Grant	Non-Participating	Occupied	House	33.9	No	RICKARD,GENE A & NIKI E
1068	649770.4313	5019268.18	Roberts	Non-Participating	Occupied	House	41.7	No	JOHN P & KATHLEEN M NEYSSEN
1180	648470.3428	5022730.037	Roberts	Non-Participating	Occupied	House	31.2	No	ROBERT J & SHIRLEY A HILLS
1087	651845.7499	5019968.541	Roberts	Non-Participating	Occupied	House	38.1	No	DERRICK GOLDEN, YVONNE HILLS
1096	653892.8133	5019481.309	Roberts	Non-Participating	Occupied	House	30.5	No	RKO FAMILY, INC

Dakota Range III: Sound Modeling Results, V136-4.3 MW, 105m hub height

Receptor ID	Coordinates		County	Participation Status	Occupancy Status	Receptor Type	Source Only		Name
	UTM NAD83 Zone 14N X (m)	UTM NAD83 Zone 14N Y (m)					Leq Broadband Sound Level (dBA)	Exceed 50 dBA?	
2306	647290.8705	5013273.965	Grant	Non-Participating	Occupied	House	40.1	No	LUPINEK,LYNN J
4198	644000.031	5014277.209	Grant	Non-Participating	Occupied	Church	31.1	No	LEBANON LUTHERAN CHURCH
721	650227.893	5014434.712	Grant	Non-Participating	Occupied	House	41.2	No	ANDERSON,SCOTT A & DARLA M
2240	648982.2384	5010914.634	Grant	Non-Participating	Occupied	House	40.4	No	NELSON,DUSTIN
1093	653454.2655	5019124.783	Roberts	Non-Participating	Occupied	House	32.8	No	MICHAEL J O'FARRELL
1181	648648.6724	5021826.747	Roberts	Non-Participating	Occupied	House	33.9	No	GILBERT KOHL
1185	648673.5433	5021782.826	Roberts	Non-Participating	Occupied	House	34.1	No	GILBERT KOHL
1081	645450.7271	5022016.363	Roberts	Non-Participating	Occupied	House	34.3	No	MARK C MILLER
956	654009.0075	5018003.839	Roberts	Non-Participating	Occupied	House	30.1	No	LOY R & ROBERT A VAN DYKE
1169	651774.2456	5022027.037	Roberts	Non-Participating	Occupied	House	31.7	No	CALVIN & RAMONA HAGEN REVOCABLE LIVING TRUST
1175	650244.2895	5022880.982	Roberts	Non-Participating	Occupied	House	29.5	No	LETZE FARM LLP
1060	646631.1437	5018927.528	Roberts	Non-Participating	Occupied	House	41.1	No	ROGER LIEN
2277	647415.3471	5011482.179	Grant	Non-Participating	Occupied	House	37.3	No	NELSON,LONNIE L & VALERIE L
2974	647394.8538	5011472.377	Grant	Non-Participating	Occupied	House	37.2	No	NELSON,LONNIE L & VALERIE L
2236	646374.7249	5009624.58	Grant	Non-Participating	Occupied	House	30.1	No	ZELLNER,KRISTA ETAL
2426	644853.3266	5009638.981	Grant	Non-Participating	Occupied	House	27.9	No	DINGSOR,GARRY J
2427	644862.1447	5009641.297	Grant	Non-Participating	Occupied	House	27.9	No	DINGSOR,GARRY J
2976	644856.1686	5009637.68	Grant	Non-Participating	Occupied	House	27.9	No	DINGSOR,GARRY J
727	648895.0518	5014567.555	Grant	Non-Participating	Occupied	House	40.5	No	KNEELAND,HARVEY & MYLA
2293	650616.1226	5013442.164	Grant	Non-Participating	Occupied	House	35.3	No	ADOLPH,MICHAEL & JACQUELYN
1067	648739.8772	5019368.721	Roberts	Non-Participating	Occupied	House	42.5	No	DOUGLAS A LARSON
3798	647460.5719	5018633.198	Roberts	Non-Participating	Occupied	Business	38.3	No	L G EVERIST, INCORPORATED
1162	652138.0484	5021042.124	Roberts	Non-Participating	Occupied	House	34.1	No	CALVIN & RAMONA HAGEN REVOCABLE LIVING TRUST
1025	651904.309	5018493.705	Roberts	Non-Participating	Occupied	House	42.6	No	RICHARD A & DIANE J KNUTSON
2495	648692.6849	5007983.404	Grant	Non-Participating	Unoccupied	Business	28	No	<Null>
669	654426.485	5017892.362	Roberts	Non-Participating	Occupied	House	28.7	No	<Null>
670	654209.1812	5017869.344	Roberts	Non-Participating	Occupied	House	29.4	No	<Null>
957	653947.624	5018047.231	Roberts	Non-Participating	Occupied	House	30.3	No	<Null>
958	653727.4903	5018884.374	Roberts	Non-Participating	Occupied	House	31.6	No	<Null>
959	653644.94	5018764.782	Roberts	Non-Participating	Occupied	House	31.9	No	<Null>
960	653647.0567	5018716.099	Roberts	Non-Participating	Occupied	House	31.9	No	<Null>
961	653686.2152	5018751.024	Roberts	Non-Participating	Occupied	House	31.7	No	<Null>
962	653727.4902	5018733.032	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>

Dakota Range III: Sound Modeling Results, V136-4.3 MW, 105m hub height

Receptor ID	Coordinates		County	Participation Status	Occupancy Status	Receptor Type	Source Only		Name
	UTM NAD83 Zone 14N X (m)	UTM NAD83 Zone 14N Y (m)					Leq Broadband Sound Level (dBA)	Exceed 50 dBA?	
963	653732.7819	5018803.941	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
964	653775.1153	5018820.874	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
965	653779.3487	5018775.366	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
966	653796.282	5018756.316	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
967	653812.1571	5018729.857	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
968	653789.932	5018684.349	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
969	653801.5738	5018650.482	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
970	653830.1488	5018654.715	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
971	653872.4822	5018648.365	Roberts	Non-Participating	Occupied	House	30.9	No	<Null>
972	653824.8571	5018766.899	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
973	653821.682	5018837.807	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
974	653772.9986	5018844.157	Roberts	Non-Participating	Occupied	House	31.4	No	<Null>
975	653729.6069	5018837.807	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
976	654082.0326	5018861.091	Roberts	Non-Participating	Occupied	House	30.2	No	<Null>
977	654097.9076	5018818.757	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
978	654051.3409	5018819.816	Roberts	Non-Participating	Occupied	House	30.3	No	<Null>
979	654060.8659	5018781.716	Roberts	Non-Participating	Occupied	House	30.2	No	<Null>
980	654100.0243	5018783.832	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
981	654098.966	5018738.324	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
982	654058.7492	5018740.441	Roberts	Non-Participating	Occupied	House	30.2	No	<Null>
983	654134.9494	5018784.891	Roberts	Non-Participating	Occupied	House	30	No	<Null>
984	654136.0077	5018744.674	Roberts	Non-Participating	Occupied	House	30	No	<Null>
985	654104.2577	5018656.832	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
986	654054.5159	5018682.232	Roberts	Non-Participating	Occupied	House	30.3	No	<Null>
987	654011.1241	5018692.816	Roberts	Non-Participating	Occupied	House	30.4	No	<Null>
988	654193.1578	5018864.266	Roberts	Non-Participating	Occupied	House	29.8	No	<Null>
989	654247.133	5018830.399	Roberts	Non-Participating	Occupied	House	29.6	No	<Null>
990	654284.1746	5018758.432	Roberts	Non-Participating	Occupied	House	29.5	No	<Null>
991	654237.608	5018695.991	Roberts	Non-Participating	Occupied	House	29.6	No	<Null>
992	654160.3494	5018557.348	Roberts	Non-Participating	Occupied	House	29.9	No	<Null>
993	654118.0161	5018592.274	Roberts	Non-Participating	Occupied	House	30	No	<Null>
994	654088.3826	5018585.924	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
995	654096.8493	5018546.765	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>

Dakota Range III: Sound Modeling Results, V136-4.3 MW, 105m hub height

Receptor ID	Coordinates		County	Participation Status	Occupancy Status	Receptor Type	Source Only		Name
	UTM NAD83 Zone 14N X (m)	UTM NAD83 Zone 14N Y (m)					Leq Broadband Sound Level (dBA)	Exceed 50 dBA?	
996	654075.6825	5018498.082	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
997	654075.6826	5018466.332	Roberts	Non-Participating	Occupied	House	30.1	No	<Null>
998	654167.7578	5018458.923	Roberts	Non-Participating	Occupied	House	29.8	No	<Null>
999	654156.1161	5018498.082	Roberts	Non-Participating	Occupied	House	29.9	No	<Null>
1000	654013.2408	5018454.69	Roberts	Non-Participating	Occupied	House	30.3	No	<Null>
1001	653986.7824	5018446.223	Roberts	Non-Participating	Occupied	House	30.4	No	<Null>
1002	653980.4324	5018480.09	Roberts	Non-Participating	Occupied	House	30.5	No	<Null>
1003	653975.1407	5018568.99	Roberts	Non-Participating	Occupied	House	30.5	No	<Null>
1004	653933.8657	5018491.732	Roberts	Non-Participating	Occupied	House	30.6	No	<Null>
1005	653876.7155	5018492.79	Roberts	Non-Participating	Occupied	House	30.9	No	<Null>
1006	653880.9489	5018543.59	Roberts	Non-Participating	Occupied	House	30.9	No	<Null>
1007	653833.3238	5018607.09	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
1008	653789.932	5018604.974	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
1009	653789.932	5018572.165	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
1010	653785.6986	5018529.832	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
1011	653792.0487	5018446.223	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
1012	653793.107	5018411.298	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
1013	653755.007	5018415.532	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
1014	653746.5403	5018463.157	Roberts	Non-Participating	Occupied	House	31.4	No	<Null>
1015	653702.0902	5018464.215	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
1016	653707.3819	5018314.99	Roberts	Non-Participating	Occupied	House	31.4	No	<Null>
1017	653758.182	5018316.048	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
1018	653751.8319	5018374.256	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
1019	653660.8151	5018296.998	Roberts	Non-Participating	Occupied	House	31.6	No	<Null>
1020	653758.182	5018239.848	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
1021	653751.832	5018171.056	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
1022	653750.7736	5018124.489	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
1023	653942.3323	5017978.439	Roberts	Non-Participating	Occupied	House	30.3	No	<Null>
1050	643141.2032	5019297.31	Roberts	Non-Participating	Occupied	House	35.3	No	<Null>
1976	647303.9717	5007251.041	Grant	Non-Participating	Occupied	House	25.9	No	<Null>
1985	648480.5593	5007489.683	Grant	Non-Participating	Occupied	House	26.2	No	<Null>
2212	650493.6571	5008776.859	Grant	Non-Participating	Occupied	House	29.3	No	<Null>
2214	645840.984	5008574.897	Grant	Non-Participating	Occupied	House	27.2	No	<Null>

Dakota Range III: Sound Modeling Results, V136-4.3 MW, 105m hub height

Receptor ID	Coordinates		County	Participation Status	Occupancy Status	Receptor Type	Source Only		Name
	UTM NAD83 Zone 14N X (m)	UTM NAD83 Zone 14N Y (m)					Leq Broadband Sound Level (dBA)	Exceed 50 dBA?	
2217	645708.6058	5008004.252	Grant	Non-Participating	Occupied	House	26	No	<Null>
2218	645720.5349	5008021.463	Grant	Non-Participating	Occupied	House	26.1	No	<Null>
2219	645631.026	5008056.629	Grant	Non-Participating	Occupied	House	26	No	<Null>
2220	645560.4649	5008022.996	Grant	Non-Participating	Occupied	House	25.9	No	<Null>
2230	644920.9299	5009426.295	Grant	Non-Participating	Occupied	House	27.6	No	<Null>
2464	653885.6928	5018617.596	Roberts	Non-Participating	Occupied	Business	30.9	No	<Null>
2972	644922.5593	5009429.715	Grant	Non-Participating	Occupied	House	27.6	No	<Null>
3369	653357.0615	5019308.471	Roberts	Non-Participating	Occupied	House	33.1	No	<Null>
3370	653386.6612	5019309.459	Roberts	Non-Participating	Occupied	House	32.9	No	<Null>
3371	653412.0891	5019310.843	Roberts	Non-Participating	Occupied	House	32.8	No	<Null>
3372	653442.108	5019311.416	Roberts	Non-Participating	Occupied	House	32.7	No	<Null>
3373	653467.5403	5019311.966	Roberts	Non-Participating	Occupied	House	32.5	No	<Null>
3374	653494.2213	5019312.939	Roberts	Non-Participating	Occupied	House	32.4	No	<Null>
3769	653603.4013	5018596.285	Roberts	Non-Participating	Occupied	House	32.1	No	<Null>
3770	653604.8172	5018578.434	Roberts	Non-Participating	Occupied	House	32	No	<Null>
3771	653605.2479	5018559.255	Roberts	Non-Participating	Occupied	House	32	No	<Null>
3772	653606.3175	5018544.378	Roberts	Non-Participating	Occupied	House	32	No	<Null>
3773	653606.7758	5018519.908	Roberts	Non-Participating	Occupied	House	32	No	<Null>
3774	653738.1244	5018572.845	Roberts	Non-Participating	Occupied	House	31.4	No	<Null>
3775	653833.3678	5018573.342	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
3776	653746.2958	5018527.911	Roberts	Non-Participating	Occupied	House	31.4	No	<Null>
3777	653783.3947	5018643.523	Roberts	Non-Participating	Occupied	House	31.3	No	<Null>
3778	653830.2366	5018539.592	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
3779	653824.2272	5018486.977	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
3780	653711.7406	5018495.32	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
3781	653836.5909	5018462.569	Roberts	Non-Participating	Occupied	House	31	No	<Null>
3782	653835.0976	5018431.804	Roberts	Non-Participating	Occupied	House	31	No	<Null>
3783	653698.1424	5018375.861	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
3784	653712.826	5018413.97	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
3785	653654.57	5018423.588	Roberts	Non-Participating	Occupied	House	31.7	No	<Null>
3786	653610.6068	5018419.39	Roberts	Non-Participating	Occupied	House	31.9	No	<Null>
3787	653608.9513	5018483.21	Roberts	Non-Participating	Occupied	House	32	No	<Null>
3788	653609.7196	5018462.709	Roberts	Non-Participating	Occupied	House	31.9	No	<Null>

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	UTM NAD83 Zone 14N X (m)	UTM NAD83 Zone 14N Y (m)					Leq Broadband Sound Level (dBA)	Exceed 50 dBA?	
3789	653612.1242	5018445.525	Roberts	Non-Participating	Occupied	House	31.9	No	<Null>
3790	653731.2563	5018526.377	Roberts	Non-Participating	Occupied	House	31.5	No	<Null>
3791	653653.8333	5018482.451	Roberts	Non-Participating	Occupied	House	31.8	No	<Null>
3792	653684.5527	5018762.396	Roberts	Non-Participating	Occupied	House	31.7	No	<Null>
3793	653822.2279	5018807.099	Roberts	Non-Participating	Occupied	House	31.1	No	<Null>
3794	653619.6353	5018711.285	Roberts	Non-Participating	Occupied	House	32	No	<Null>
3795	653796.8655	5018723.957	Roberts	Non-Participating	Occupied	House	31.2	No	<Null>
3796	653153.9628	5019379.445	Roberts	Non-Participating	Occupied	Business	34.2	No	<Null>