

Table C-3: Crowned Ridge Sound Level Tabular Results Sorted by Sound Level

16 turbines removed as suggested by Mr. Hessler

Realistic case sound results at occupied structures

Results using GE 2.3-116-90 m HH, GE 2.3-116-80 m HH WTG's

UTM NAD83 Zone 14

Codington County

Receptor ID	Participation Status	Easting (m)	Northing (m)	Elevation AMSL (m)	Hessler Case Sound (dB(A))	Real Case Sound (dB(A))	Reduction (DB(A))	Distance to Nearest Turbine (ft)
CR1-C46-NP	Non-P	655,802	4,993,540	609.7	45.8	46.0	0.2	1,680
CR1-C58-NP	Non-P	657,781	4,996,906	615.0	44.8	45.1	0.3	1,647
CR1-C9-NP	Non-P	665,352	4,985,004	609.0	44.4	44.5	0.1	1,621
CR1-C107-NP	Non-P	656,811	4,999,855	598.8	43.9	44.0	0.1	1,401
CR1-C62-NP	Non-P	658,375	4,995,138	615.0	43.9	44.0	0.1	1,676
CR1-C16-NP	Non-P	661,960	4,986,288	606.0	43.2	43.3	0.1	2,736
CR1-C44-NP	Non-P	665,076	4,993,095	578.2	42.5	44.0	1.5	2,155
CR1-C41-NP	Non-P	665,053	4,992,084	576.1	42.4	45.0	2.6	2,359
CR1-C61-NP	Non-P	656,690	4,997,831	612.0	42.4	44.7	2.3	1,686
CR1-C105-NP	Non-P	658,372	5,001,257	601.5	42.1	42.2	0.1	2,549
CR1-C63-NP	Non-P	658,566	4,995,254	612.6	42.0	42.2	0.2	2,408
CR1-C72-NP	Non-P	665,158	4,988,170	595.2	41.5	42.1	0.6	3,776
CR1-C70-NP	Non-P	665,135	4,988,293	595.7	41.3	42.1	0.8	3,540
CR1-C71-NP	Non-P	665,137	4,988,378	594.6	41.2	42.1	0.9	3,448
CR1-C7-NP	Non-P	660,893	4,984,861	593.2	41.2	41.3	0.1	3,022
CR1-C60-NP	Non-P	656,855	4,998,565	613.5	41.1	42.4	1.3	2,592
CR1-C14-NP	Non-P	657,982	4,985,894	609.0	41.0	43.4	2.4	1,880
CR1-C40-NP	Non-P	657,865	4,991,818	583.8	40.5	41.5	1.0	2,690
CR1-C52-NP	Non-P	654,924	4,995,231	603.0	40.5	44.7	4.2	1,883
CR1-C28-NP	Non-P	665,429	4,988,598	590.8	40.4	42.1	1.7	2,831
CR1-C27-NP	Non-P	656,876	4,988,683	583.0	39.7	40.0	0.3	2,549
CR1-C31-NP	Non-P	665,939	4,988,950	585.4	39.7	43.4	3.7	2,126
CR1-C39-NP	Non-P	660,144	4,991,670	588.0	39.4	42.3	2.9	2,605
CR1-C38-NP	Non-P	660,639	4,991,557	597.0	39.3	41.0	1.7	3,474
CR1-C110-NP	Non-P	654,385	4,996,686	593.9	39.0	40.2	1.2	2,910
CR1-C112-NP	Non-P	660,002	4,984,908	604.6	38.9	39.1	0.2	5,627
CR1-C34-NP	Non-P	658,661	4,990,389	589.1	38.9	44.5	5.6	1,726
CR1-C67-NP	Non-P	659,789	4,985,057	606.0	38.8	39.0	0.2	5,791
CR1-C29-NP	Non-P	666,572	4,988,867	575.9	38.7	41.4	2.7	2,457
CR1-C5-NP	Non-P	659,958	4,984,794	605.2	38.7	38.9	0.2	5,659
CR1-C66-NP	Non-P	659,718	4,985,032	606.0	38.7	38.9	0.2	5,800
CR1-C3-NP	Non-P	657,888	4,984,697	604.2	38.3	38.8	0.5	3,294
CR1-C4-NP	Non-P	659,744	4,984,749	605.9	38.3	38.5	0.2	5,981
CR1-C2-NP	Non-P	658,791	4,984,483	601.6	37.0	37.4	0.4	6,273
CR1-C65-NP	Non-P	665,805	4,995,305	579.0	36.9	37.4	0.5	3,884
CR1-C32-NP	Non-P	655,843	4,989,581	568.6	36.6	37.1	0.5	3,714
CR1-C33-NP	Non-P	656,839	4,990,404	569.8	36.5	37.4	0.9	6,719
CR1-C111-NP	Non-P	653,857	4,995,573	591.0	36.4	38.4	2.0	3,678
CR1-C109-NP	Non-P	653,780	4,996,828	588.0	36.3	37.2	0.9	4,797

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UTM NAD83 Zone 14
Codington County
continued

Receptor ID	Participation Status	Easting (m)	Northing (m)	Elevation AMSL (m)	Hessler Case Sound (dB(A))	Real Case Sound (dB(A))	Reduction (DB(A))	Distance to Nearest Turbine (ft)
CR1-C54-NP	Non-P	663,421	4,995,376	583.4	36.0	36.5	0.5	5,351
CR1-C53-NP	Non-P	663,376	4,996,043	578.6	34.9	35.4	0.5	7,201
CR1-C1-NP	Non-P	656,743	4,983,525	595.9	34.6	34.9	0.3	5,541
CR1-C45-NP	Non-P	653,390	4,993,503	573.0	34.6	35.4	0.8	5,673
CR1-C11-P *	Participant	664,111	4,985,679	609.0	47.9	47.9	0.0	1,614
CR1-C30-P	Participant	661,699	4,988,957	615.0	47.8	47.9	0.1	1,614
CR1-C10-P	Participant	663,510	4,985,195	609.0	47.0	47.0	0.0	1,762
CR1-C13-P *	Participant	663,792	4,985,785	612.0	46.9	46.9	0.0	1,739
CR1-C50-P	Participant	656,806	4,994,388	621.0	46.7	46.8	0.1	1,591
CR1-C19-P	Participant	659,243	4,987,276	611.5	46.3	46.4	0.1	1,722
CR1-C37-P **	Participant	663,563	4,991,342	605.1	46.3	46.5	0.2	1,631
CR1-C15-P	Participant	663,291	4,986,026	615.0	46.1	46.1	0.0	1,952
CR1-C36-P	Participant	663,181	4,990,600	615.0	46.0	46.2	0.2	1,532
CR1-C68-P	Participant	662,652	4,987,606	609.0	45.3	45.4	0.1	2,146
CR1-C69-P	Participant	662,685	4,987,619	609.0	45.3	45.3	0.0	2,185
CR1-C18-P *	Participant	663,651	4,987,157	610.5	44.8	44.8	0.0	2,146
CR1-C57-P	Participant	656,628	4,995,266	615.0	44.6	44.9	0.3	1,568
CR1-C20-P	Participant	663,054	4,987,455	606.0	44.5	44.5	0.0	2,336
CR2-C150-P	Participant	657,178	4,985,788	612.0	44.5	46.1	1.6	1,640
CR1-C12-P	Participant	662,222	4,985,736	603.0	44.3	44.3	0.0	2,201
CR1-C48-P	Participant	664,247	4,993,646	588.0	44.3	44.7	0.4	1,847
CR1-C51-P	Participant	657,455	4,995,160	621.0	44.0	44.1	0.1	1,768
CR1-C56-P	Participant	655,953	4,995,244	606.0	44.0	44.8	0.8	1,972
CR1-C17-P	Participant	658,031	4,986,373	609.1	43.7	45.1	1.4	1,886
CR1-C35-P	Participant	662,025	4,990,475	609.0	43.7	43.9	0.2	2,123
CR1-C12-1-P	Participant	662,199	4,986,047	606.0	43.5	43.6	0.1	2,818
CR1-C59-P	Participant	661,548	5,000,754	584.1	42.7	42.7	0.0	1,644
CR1-C42-P	Participant	659,458	4,992,229	580.0	42.1	44.6	2.5	1,801
CR1-C22-P	Participant	660,755	4,984,082	594.8	42.0	42.0	0.0	2,375
CR1-C21-P	Participant	660,756	4,984,086	594.8	41.9	42.0	0.1	2,388
CR1-C64-P	Participant	659,436	4,992,174	581.0	41.6	44.9	3.3	1,614
CR1-C23-P	Participant	660,619	4,984,078	596.0	41.5	41.5	0.0	2,523
CR1-C26-P	Participant	657,767	4,988,493	597.0	40.2	40.6	0.4	3,484
CR1-C8-P	Participant	660,532	4,984,445	599.7	40.0	40.1	0.1	3,740
CR1-C55-P *	Participant	660,914	4,995,169	607.9	39.2	39.5	0.3	3,360
CR1-C47-P	Participant	662,825	4,993,508	613.8	38.9	39.5	0.6	3,750
CR1-C49-P	Participant	662,250	4,993,731	609.0	38.0	38.4	0.4	5,148
CR1-C6-P	Participant	662,989	4,995,228	599.8	36.0	36.5	0.5	6,102

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Grant County
continued

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CR1-G43-NP	Non-P	661,141	5,001,721	584.2	42.8	43.0	0.2	1,909
CR1-G125-NP	Non-P	668,289	5,000,643	543.0	42.6	42.8	0.2	1,716
CR1-G68-NP	Non-P	669,159	4,993,632	564.7	40.8	43.0	2.2	2,113
CR1-G114-NP	Non-P	666,214	5,006,667	520.8	40.7	40.8	0.1	2,205
CR1-G34-NP	Non-P	671,320	4,995,798	531.0	40.5	40.8	0.3	2,238
CR1-G115-NP	Non-P	664,933	5,006,731	544.6	40.3	40.5	0.2	2,188
CR1-G23-NP	Non-P	670,471	4,992,104	560.1	40.3	42.6	2.3	2,185
CR1-G113-NP	Non-P	666,228	5,005,549	537.0	40.2	40.3	0.1	2,746
CR1-G109-NP	Non-P	667,064	5,000,425	566.4	39.9	40.1	0.2	2,152
CR1-G26-NP	Non-P	672,589	4,993,869	531.0	39.6	39.9	0.3	3,140
CR1-G130-NP	Non-P	668,147	5,000,233	549.0	39.2	39.3	0.1	3,005
CR1-G44-NP	Non-P	661,781	5,001,732	583.7	39.1	39.2	0.1	3,123
CR1-G16-NP	Non-P	668,419	4,989,861	576.0	38.2	41.8	3.6	2,070
CR1-G42-NP	Non-P	670,566	4,997,097	518.9	37.8	38.1	0.3	3,819
CR1-G14-NP	Non-P	668,156	4,989,332	574.1	37.1	38.8	1.7	3,940
CR1-G13-NP	Non-P	672,216	4,989,142	558.0	36.9	37.2	0.3	3,576
CR1-G12-NP	Non-P	668,229	4,989,039	575.0	36.6	38.0	1.4	4,623
CR1-G37-NP	Non-P	668,998	4,996,452	549.0	36.1	36.6	0.5	5,246
CR1-G36-NP	Non-P	673,559	4,996,344	498.1	35.3	35.5	0.2	6,211
CR1-G117-NP	Non-P	663,801	5,005,084	581.3	35.2	35.3	0.1	4,501
CR1-G105-NP	Non-P	668,696	4,998,325	549.0	35.0	35.3	0.3	6,345
CR1-G110-NP	Non-P	671,218	5,005,064	456.4	34.7	34.8	0.1	5,889
CR1-G22-NP	Non-P	674,670	4,991,955	527.6	34.6	34.8	0.2	5,781
CR1-G27-NP	Non-P	676,630	4,994,642	480.8	33.8	34.0	0.2	4,944
CR1-G77-NP	Non-P	676,031	4,992,629	503.1	33.0	33.2	0.2	5,728
CR1-G65-P	Participant	671,496	4,994,973	537.0	45.1	45.3	0.2	1,539
CR1-G32-P	Participant	669,477	4,995,401	546.0	44.6	45.1	0.5	1,545
CR1-G21-P	Participant	666,766	4,991,807	577.1	44.2	44.9	0.7	1,555
CR1-G66-P	Participant	670,802	4,994,681	539.8	43.6	44.0	0.4	1,801
CR1-G19-P	Participant	671,018	4,990,744	570.0	43.1	43.4	0.3	2,077
CR1-G28-P	Participant	673,113	4,994,772	514.1	42.9	43.2	0.3	1,614
CR1-G128-P	Participant	670,242	5,001,314	513.0	42.8	42.9	0.1	2,612
CR1-G131-P	Participant	668,466	5,005,145	505.1	42.8	42.9	0.1	2,133
CR1-G124-P	Participant	669,843	5,000,605	525.0	42.5	42.7	0.2	1,791
CR1-G135-P	Participant	668,616	5,005,161	504.2	42.4	42.6	0.2	2,142
CR1-G18-P	Participant	668,678	4,990,722	585.0	42.4	45.1	2.7	1,585
CR1-G136-P	Participant	667,706	5,004,861	522.0	42.1	42.2	0.1	2,277
CR1-G67-P	Participant	669,597	4,993,440	555.8	42.1	43.2	1.1	2,106

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CR1-G138-P	Participant	664,809	5,006,456	549.0	41.6	41.8	0.2	1,824
CR1-G137-P	Participant	666,501	5,005,136	529.5	41.4	41.6	0.2	1,939
CR1-G25-P	Participant	671,391	4,992,858	549.0	41.1	43.8	2.7	1,804
CR1-G149-P	Participant	669,284	5,003,283	503.2	40.9	41.0	0.1	2,815
CR1-G132-P	Participant	669,098	5,004,948	501.0	40.6	40.6	0.0	2,703
CR1-G81-P	Participant	671,478	4,997,523	508.7	40.5	40.7	0.2	2,421
CR1-G24-P	Participant	673,058	4,992,440	539.4	40.2	40.6	0.4	2,231
CR1-G108-P	Participant	669,516	5,001,186	522.2	39.7	39.7	0.0	3,586
CR1-G139-P	Participant	668,199	5,008,062	475.9	39.7	39.8	0.1	2,612
CR1-G59-P	Participant	675,755	4,994,888	488.3	39.4	39.6	0.2	2,605
CR1-G126-P	Participant	672,157	5,000,446	484.3	39.3	39.4	0.1	3,176
CR1-G33-P	Participant	668,911	4,995,550	548.7	39.2	39.9	0.7	2,779
CR1-G127-P	Participant	669,534	4,999,939	533.9	38.6	38.8	0.2	3,369
CR1-G133-P	Participant	669,881	5,005,460	478.8	38.3	38.3	0.0	3,556
CR1-G41-P	Participant	671,563	4,997,050	497.7	37.7	37.9	0.2	3,983
CR1-G15-P	Participant	668,396	4,989,607	576.0	37.5	40.1	2.6	2,746
CR1-G129-P	Participant	673,111	4,997,703	477.8	36.2	36.3	0.1	4,153
CR1-G60-P	Participant	675,830	4,995,687	477.0	36.2	36.4	0.2	3,343
CR1-G140-P	Participant	664,546	5,007,269	551.1	35.1	35.2	0.1	4,360
CR1-G38-P *	Participant	673,972	4,996,493	494.5	34.8	35.0	0.2	5,646

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