

Table 9: Point of Reception Noise Impact

Source ID	POR07				POR08				POR09				POR10							
	Distance (m)	Normal Operations Daytime (0700 - 1900)	Normal Operations Evening (1900 - 2300)	Normal Operations Night-time (0600 - 0700)	Essential Operations Night-time (2300 - 0600)	Distance (m)	Normal Operations Daytime (0700 - 1900)	Normal Operations Evening (1900 - 2300)	Normal Operations Night-time (0600 - 0700)	Essential Operations Night-time (2300 - 0600)	Distance (m)	Normal Operations Daytime (0700 - 1900)	Normal Operations Evening (1900 - 2300)	Normal Operations Night-time (0600 - 0700)	Essential Operations Night-time (2300 - 0600)	Distance (m)	Normal Operations Daytime (0700 - 1900)	Normal Operations Evening (1900 - 2300)	Normal Operations Night-time (0600 - 0700)	Essential Operations Night-time (2300 - 0600)
A_062	1168	16	16	16	16	1180	16	16	16	16	1182	16	16	16	1605	12	12	12	12	12
A_063	1053	17	17	17	17	1073	16	16	16	16	1115	16	16	16	1558	13	13	13	13	13
A_064	1391	2	2	2	2	1399	2	2	2	2	1382	2	2	2	1785	0	0	0	0	0
A_065	1392	8	8	8	8	1401	8	8	8	8	1384	8	8	8	1787	5	5	5	5	5
A_066	1393	8	8	8	8	1402	8	8	8	8	1385	8	8	8	1789	5	5	5	5	5
A_067	1394	8	8	8	8	1403	8	8	8	8	1387	8	8	8	1792	5	5	5	5	5
A_068	1395	8	8	8	8	1404	8	8	8	8	1389	7	7	7	1794	5	5	5	5	5
A_069	1396	8	8	8	8	1405	8	8	8	8	1391	7	7	7	1796	5	5	5	5	5
A_070	1397	8	8	8	8	1406	8	8	8	8	1392	7	7	7	1798	5	5	5	5	5
A_071	1382	5	5	5	5	1390	4	4	4	4	1368	6	6	6	1766	3	3	3	3	3
A_072	1020	9	9	9	9	1023	9	9	9	9	986	9	9	9	1375	5	5	5	5	5
A_073	1024	3	3	3	3	1029	3	3	3	3	997	9	9	9	1391	5	5	5	5	5
A_074	1112	2	2	2	2	1117	2	2	2	2	1082	3	3	3	1470	4	4	4	4	4
A_075	1110	2	2	2	2	1114	8	8	8	8	1074	8	8	8	1456	4	4	4	4	4
A_076	810	11	11	11	11	815	11	11	11	11	787	12	12	12	1193	7	7	7	7	7
A_077	814	11	11	11	11	820	11	11	11	11	799	12	12	12	1210	7	7	7	7	7
A_078	879	11	11	11	11	885	10	10	10	10	860	11	11	11	1266	6	6	6	6	6
A_079	877	11	11	11	11	882	11	11	11	11	851	11	11	11	1251	6	6	6	6	6
A_080	1259	1	1	1	1	1263	1	1	1	1	1228	1	1	1	1613	0	0	0	0	0
A_081	1059	8	8	8	8	1078	8	8	8	8	1118	8	8	8	1561	4	4	4	4	4
A_082	1082	8	8	8	8	1102	8	8	8	8	1142	8	8	8	1584	4	4	4	4	4
A_083	1138	8	8	8	8	1155	8	8	8	8	1184	8	8	8	1622	4	4	4	4	4
A_084	1162	8	8	8	8	1175	8	8	8	8	1179	8	8	8	1603	4	4	4	4	4
A_085	1266	0	0	0	0	1271	0	0	0	0	1238	0	0	0	1626	0	0	0	0	0
A_086	1173	8	8	8	8	1185	8	8	8	8	1184	8	8	8	1605	0	0	0	0	0
A_087	1387	0	0	0	0	1395	0	0	0	0	1374	0	0	0	1773	0	0	0	0	0
A_088	964	23	23	23	23	977	22	22	22	22	986	22	22	22	1415	17	17	17	17	17
A_089	1124	21	21	21	21	1136	20	20	20	20	1132	20	20	20	1552	10	10	10	10	10
A_090	1362	11	11	11	11	1370	11	11	11	11	1349	6	6	6	1749	3	3	3	3	3
A_091	1365	6	6	6	6	1374	6	6	6	6	1354	0	0	0	1755	0	0	0	0	0
A_092	1166	19	19	19	19	1185	18	18	18	18	1217	16	16	16	1657	14	14	14	14	14
A_093	635	14	14	14	14	653	14	14	14	14	693	13	13	13	1137	8	8	8	8	8
A_094	1161	7	7	7	7	1179	7	7	7	7	1212	5	5	5	1652	3	3	3	3	3
A_095	1386	10	10	10	10	1395	10	10	10	10	1377	1	1	1	1781	0	0	0	0	0
A_096	1387	10	10	10	10	1396	10	10	10	10	1379	1	1	1	1783	0	0	0	0	0
A_097	1388	10	10	10	10	1397	10	10	10	10	1381	1	1	1	1785	0	0	0	0	0
A_098	1389	10	10	10	10	1399	10	10	10	10	1383	1	1	1	1788	0	0	0	0	0
A_099	1391	10	10	10	10	1400	10	10	10	10	1385	1	1	1	1790	0	0	0	0	0
A_100	1392	10	10	10	10	1401	10	10	10	10	1387	1	1	1	1793	0	0	0	0	0
A_101	1393	10	10	10	10	1403	10	10	10	10	1389	1	1	1	1795	0	0	0	0	0
A_102	1049	29	29	29	29	1065	29	29	29	29	1083	28	28	28	1518	24	24	24	24	24
A_103	1210	24	24	24	24	1220	24	24	24	24	1210	18	18	18	1623	14	14	14	14	14
A_104	1254	16	16	16	16	1267	16	16	16	16	1274	10	10	10	1699	7	7	7	7	7
A_105	1250	0	0	0	0	1263	0	0	0	0	1267	0	0	0	1691	0	0	0	0	0
A_106	1213	21	21	21	21	1223	21	21	21	21	1215	15	15	15	1628	12	12	12	12	12
A_107	1216	8	8	8	8	1227	8	8	8	8	1220	8	8	8	1634	0	0	0	0	0
A_108	368 / 832	37	37	37	37	402 / 847	37	37	37	37	545 / 866	35	35	35	926 / 1303	29	29	29	29	29
A_109	797 / 832	21	21	21	21	809 / 847	21	21	21	21	812 / 866	21	21	21	1241 / 1303	16	16	16	16	16
A_110	755 / 816	26	26	26	26	758 / 819	26	26	26	26	724 / 812	26	26	26	1126 / 1241	21	21	21	21	21
A_111	816 / 819	15	15	15	15	819 / 823	14	14	14	14	782 / 791	15	15	15	1179 / 1193	10	10	10	10	10
A_112	816 / 1037	23	23	23	23	819 / 1039	23	23	23	23	782 / 995	23	23	23	1179 / 1375	19	19	19	19	19
A_113	1037 / 1038	6	6	6	6	1039 / 1041	5	5	5	5	995 / 1001	6	6	6	1375 / 1386	2	2	2	2	2
A_114	1037 / 1202	23	23	23	23	1039 / 1208	22	22	22	22	995 / 1181	21	21	21	1375 / 1577	18	18	18	18	18
A_115	1111 / 1124	9	9	9	9	1121 / 1135	8	8	8	8	1112 / 1132	9	9	9	1527 / 1551	0	0	0	0	0
A_116	952 / 1111	22	22	22	22	965 / 1121	22	22	22	22	970 / 1112	22	22	22	1398 / 1527	17	17	17	17	17
A_117	952 / 961	11	11	11	11	965 / 974	11	11	11	11	970 / 982	11	11	11	1398 / 1412	6	6	6	6	6
A_118	832 / 952	24	24	24	24	847 / 965	24	24	24	24	866 / 970	24	24	24	1303 / 1398	19	19	19	19	19
A_119	509 / 797	20	20	20	20	513 / 809	20	20	20	20	494 / 812	20	20	20	919 / 1241	13	13	13	13	13
A_120	371 / 1159	28	28	28	28	405 / 1177	27	27	27	27	549 / 1210	25	25	25	929 / 1650	19	19	19	19	19



**APPENDIX B, VOL IV DESIGN AND OPERATIONS REPORT
ACOUSTIC ASSESSMENT REPORT**

Table 10 provides a summary of the noise impact from the Facility's predictable worst case operation at the identified PORs. Although several of the PORs are one-storey dwellings, to remain conservative, receptor heights of 4.5 m representing two-storey dwellings have been used for all Plane of Window (POW) assessments.

Table 10: Noise Impact Summary – Facility Operations

POR ID	POR Description	Facility Operating Scenario	Time Period	SPL Outdoor (dBA)	SPL POW (dBA)	Sound Level Limit (dBA)	Compliance with Sound Level Limit
POR01	Two-storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	52	52	65	Yes
			Evening (1900 to 2300)	40	39	61	Yes
			Night-time (0600 to 0700)	N/A	52	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	38	50	Yes
POR02	One-storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	43	44	58	Yes
			Evening (1900 to 2300)	31	32	54	Yes
			Night-time (0600 to 0700)	N/A	44	56	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	31	47	Yes
POR03	One -storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	38	43	58	Yes
			Evening (1900 to 2300)	26	29	54	Yes
			Night-time (0600 to 0700)	N/A	43	56	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	27	47	Yes
POR04	Two-storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	51	51	65	Yes
			Evening (1900 to 2300)	39	38	61	Yes
			Night-time (0600 to 0700)	N/A	50	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	36	50	Yes



**APPENDIX B, VOL IV DESIGN AND OPERATIONS REPORT
ACOUSTIC ASSESSMENT REPORT**

POR ID	POR Description	Facility Operating Scenario	Time Period	SPL Outdoor (dBA)	SPL POW (dBA)	Sound Level Limit (dBA)	Compliance with Sound Level Limit
POR05	One -storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	50	51	65	Yes
			Evening (1900 to 2300)	36	36	61	Yes
			Night-time (0600 to 0700)	N/A	50	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	34	50	Yes
POR06	One -storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	48	49	65	Yes
			Evening (1900 to 2300)	34	35	61	Yes
			Night-time (0600 to 0700)	N/A	49	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	31	50	Yes
POR7	One -storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	48	49	65	Yes
			Evening (1900 to 2300)	34	35	61	Yes
			Night-time (0600 to 0700)	N/A	49	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	31	50	Yes
POR08	One -storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	48	49	65	Yes
			Evening (1900 to 2300)	34	35	61	Yes
			Night-time (0600 to 0700)	N/A	49	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	30	50	Yes
POR09	One -storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	48	49	65	Yes
			Evening (1900 to 2300)	33	35	61	Yes
			Night-time (0600 to 0700)	N/A	49	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	29	50	Yes



**APPENDIX B, VOL IV DESIGN AND OPERATIONS REPORT
ACOUSTIC ASSESSMENT REPORT**

POR ID	POR Description	Facility Operating Scenario	Time Period	SPL Outdoor (dBA)	SPL POW (dBA)	Sound Level Limit (dBA)	Compliance with Sound Level Limit
POR10	Two-storey residential dwelling	Normal Operations	Daytime (0700 to 1900)	43	45	58	Yes
			Evening (1900 to 2300)	29	31	56	Yes
			Night-time (0600 to 0700)	N/A	44	58	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	25	47	Yes
VL01	Vacant Lot	Normal Operations	Daytime (0700 to 1900)	58	59	65	Yes
			Evening (1900 to 2300)	46	46	61	Yes
			Night-time (0600 to 0700)	N/A	58	63	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	45	50	Yes
VL02	Vacant Lot	Normal Operations	Daytime (0700 to 1900)	56	56	58	Yes
			Evening (1900 to 2300)	46	46	54	Yes
			Night-time (0600 to 0700)	N/A	56	56	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	45	47	Yes
VL03	Vacant Lot	Normal Operations	Daytime (0700 to 1900)	51	51	57	Yes
			Evening (1900 to 2300)	47	47	55	Yes
			Night-time (0600 to 0700)	N/A	50	54	Yes
		Essential Operations	Night-time (2300 to 0600)	N/A	45	45	Yes



7.0 CONCLUSION

Golder Associates Ltd. (Golder) was retained by Taggart Miller Environmental Services (Taggart Miller) to prepare an Acoustic Assessment Report (AAR) for the Capital Region Resource Recovery Centre (CRRRC) facility (the Facility) located in Ottawa, Ontario.

Noise measurements at an existing Miller facility and Golder's database of similar sources were used as inputs to a predictive acoustical model to quantify outdoor noise emissions associated with the Facility. Golder predicted noise impacts from the Facility at the sensitive PORs to be below the applicable sound level limits during the predictable worst case hour of Facility operation. Therefore, the Facility is expected to operate in compliance with Ministry of the Environment and Climate Change noise guidelines as specified in NPC-300.



8.0 CLOSURE

We trust that this report meets your current needs. If you have any questions, or if we may be of further assistance, please contact the undersigned.

GOLDER ASSOCIATES LTD.

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